Glossary

A

- **Access Control List (ACL):** Access Control List is a set of rules that filter incoming and outgoing traffic to mitigate network attacks and control network traffic.
- **Active Directory (AD):** Microsoft's Active Directory is a technology that can create and manage domains, users, and objects in a network.
- **American Standard Code for Information Interchange (ASCII):** American Standard Code for Information Interchange is a format that represents every alphabet, number, or special character in a 7-bit binary format for text files in systems and on the Internet.
- **Anonymization**: Anonymization is a process of private or sensitive data protection by removing or encrypting identifiers that reveal the stored Personally Identifiable Information (PII) or sensitive data of individuals.
- **Application Fingerprinting**: Application Fingerprinting is a method of using gathered information about the targeted host system in order to determine the application server, web server, and OS running on the host machine.
- **Application Orchestration:** It is the process of integrating multiple applications or services to automate a process or perform synchronization in real time.
- **Application Virtualization:** Application Virtualization is a technology that enables access to an application without needing to install it on the target device.
- **Attack Patterns**: Attack Patterns are a collection of methods used to find bugs/errors in the computer security code.
- **Attack Vector**: A pathway or method used by an attacker to gain access to the targeted system.
- **Authentication**: Authentication is a process of verifying the identity of a user/process.
- **Authorization**: It is a security mechanism that determines the access levels or user/client privileges to system resources such as files, services, computer programs, and data.
- **Amazon Virtual Private Cloud (VPC):** Amazon VPC is a foundational AWS service, that enables the user to use an isolated and private section of the cloud to launch AWS resources in a virtual network defined by the user.
- **Availability Management:** It is a process that ensures that cloud services are delivered to customers and users with the agreed levels of availability in accordance with the SLA.
- **Azure Site Recovery (ASR):** It is an Azure service that facilitates business continuity by running the workloads and application during a planned or unplanned outage.
- **Azure Backup Service:** Azure Backup Service is a secure, cost-effective, and simple service that is used to store backup data and recover it during a disaster event.

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- **Azure Auto-Failover Groups:** Azure Auto-Failover Groups support automatic failover of multiple databases after a disaster or any unplanned event.

B

- **Basic Input Output System (BIOS)**: Basic Input Output System is a hardware initializing mechanism that is activated during the OS boot.
- **Blob Storage**: Blob Storage is an object storage solution for the Azure storage cloud.
- **Business Continuity (BC):** Business Continuity in cloud describes the processes and procedures that should be followed to ensure the continuity of an organization's critical business functions during and after a disaster.
- **Business Impact Analysis (BIA):** Business Impact Analysis (BIA) is the process of identifying the criticality of the business activities to ensure continuity of business operations during and after a disaster.
- **Backup Reader**: A Backup Reader is a built-in role offered by Azure Backup to control backup management operations, and users with this role have permissions to only see the backup management operations.

C

- **Caching:** Caching is storing data in a temporary cloud storage area known as cache to facilitate faster access to information or data.
- **Cellular Digital Packet Data (CDPD)**: Cellular Digital Packet Data is a wide-area mobile data service that offers up to 19.2 Kbps Internet speed for user devices.
- **Certificate Authority (CA)**: Certificate Authority is a trusted entity that issues digital certificates and public keys used for secure communication over public networks.
- **Configuration Management:** It is a process that tracks and maintains complete information about all IT components present within an organization's cloud environment.
- **Content Delivery Network (CDN):** It is a content distribution network in which objects are stored in multiple geographically distributed nodes that work together.
- **Content Filtering**: The process of preventing access to certain parts of content to prevent unauthorized access by implementing it through software or a hardware-based solution.
- **Continual Service Improvement (CSI) Management:** Continual Service Improvement (CSI) Management is the process that leverages techniques from quality management to learn from past failures and successes to improve the services and processes.
- **Cloud Application:** It is an internet-based software accessed using web browser or application programming interface (API) that is deployed in a cloud environment.
- **Cloud Computing:** Cloud Computing is an on-demand delivery of IT capabilities where the IT infrastructure and applications are provided to subscribers as a metered service over a network.

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- **Cloud Operations**: Cloud Operations is the process of running, managing, and delivering a cloud environment efficiently for internal or external cloud users.
- **Community Cloud**: Community Cloud model is a shared infrastructure between several organizations from a specific community with common concerns (security, compliance, jurisdiction, etc.).
- **Compliance**: Compliance is a clear idea about the regulation standards that an organization wants to comply with along with its associated requirements allows organizations benefit from the business agility and growth.
- **Cryptography:** Cryptography is a method of changing standard plain text into unintelligible text and vice-versa.
- **Cryptographic Algorithm/Cipher:** Cryptographic Algorithm/Cipher is a collection of well-defined, but complex, mathematical instructions used to encrypt and decrypt data.
- **Cyber Law**: Cyber Law or Internet Law or IT Law encompasses laws relating to cybercrimes, the Internet's relationship with technological and electronic elements of an organization, intellectual property, and data security and privacy.
- **Cloud Auditor:** A Cloud Auditor is a party that can conduct an independent assessment of cloud services, information system operations, performance, and the security of a cloud computing implementation.
- **Cloud Security Alliance Cloud Controls Matrix (CSA CCM):** The Cloud Controls Matrix (CCM) of the Cloud Security Alliance (CSA) is a framework that provides regulations the organizations need to comply with.
- **Cloud Broker:** It is an entity that manages the use, performance, and delivery of cloud services and negotiates relationships between cloud providers and cloud consumers.
- **Cloud Auditing:** Cloud Auditing is an independent examination of cloud service controls to check and evaluate whether they are in line with the applicable standards through a review of objective evidence.
- **Computer-Assisted Audit Technique (CAAT):** Computer-Assisted Audit Technique (CAAT) is a cloud auditing testing method used to analyze a large volume of data and a software is required to perform CAAT.
- **Cloud Governance:** Cloud Governance is a collection of rules that a user creates, monitors, and changes as per their requirement to control cost, enhance efficiency, and remove security risks in a cloud environment.
- **Cloud Center of Excellence (CCoE):** Cloud Center of Excellence (CCoE) is a cross-functional team that is responsible for defining and managing cloud strategies and cloud governance to handle migration to the cloud and operations in the organization.
- **Cloud Computing Governance Process Pairs:** Process Pairs of Cloud Computing Governance consists of two processes, one of which is a governance process and the

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other is the governed process, i.e., the process that is governed by the governance process.

- **Contractual Controls:** Contractual Controls act as a legal tool for the organization to extend the governance requirements to a third party such as Cloud Service Provider (CSP).
- **Cloud Governance Dial:** The Cloud Governance Dial is a process that identifies the steps necessary for implementing appropriate IT governance for a cloud environment.
- **Cloud Risk Management:** Cloud Risk Management refers to the effective management of risks and threats in a cloud environment to strengthen cloud resilience and the security posture.
- **Compliance Audit:** A Compliance Audit is a review of an organization's adherence to regulatory guidelines.
- **Cloud Incident Response (CIR):** Cloud Incident Response (CIR) is a systematic approach to handle cloud security incidents with minimal damage, recovery time, and costs.
- **Cloud Incidence Response (CIR) Framework:** A Cloud Incident Response Framework refers to several standards and frameworks designed specifically for the cloud to help an organization mitigate risks effectively and prepare for any disaster in advance.

D

- **Data Archiving:** Data Archiving is a method of identifying the inactive data and moving that data from the current system to long-term archival storage.
- **Data Center**: Data Center is a facility comprising a large group of networked computer servers used by an organization for remote storage, processing, or distribution of data.
- **Data De-identification**: Data De-identification is the process of obscuring personally identifiable information data from being revealed.
- **Data Exfiltration**: Data Exfiltration is a form of security breach wherein an individual's or company's data are copied, transferred, or retrieved from a computer/server without authorization.
- **Data Masking or Data Obfuscation**: Data Masking or Data Obfuscation is the process of hiding original data with random characters or other data.
- **Data Loss Prevention (DLP)**: Data Loss Prevention is a practice of detecting and preventing data breaches, data exfiltration, or data destruction unwantedly.
- **Data Processing**: Data Processing is the collection and manipulation of items of data to obtain sensible information.
- **Data Protection Officer (DPO)**: A Data Protection Officer is an organization's security leadership role responsible for overseeing the strategy for data security and its implementation to ensure compliance with General Data Protection Regulation (GDPR) requirements.

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- **Data Redundancy**: Data Redundancy is the action of duplicating copies of data and storing them separately.
- **Data Re-identification**: Data Re-identification is the process of identifying the de-identified data
- **Data Retention Policies**: Data Retention Policies are a set of guidelines used by an organization to determine how long the data should be available and when it needs to be deleted.
- **Database Activity Monitoring (DAM)**: Database Activity Monitoring (DAM) is a data-monitoring tool that allows monitoring, capture, and recording database activities in real-time and sending alerts about policy violations
- **Decryption**: Decryption is a process of decoding the data that have been encrypted into a secret format such that only authorized users can have access to the data.
- **Defense-in-Depth (DiD)**: Defense-in-Depth is a cybersecurity approach to safeguard sensitive information through a series of layered defensive mechanisms such that, even if one mechanism fails, the other mechanisms prevent the attack.
- **Deployment Management:** Deployment Management is a process that helps to deploy a change or release into production.
- **Domain Name System (DNS)**: Domain Name System is the Internet's system that converts alphabetical names into an IP address.
- **Domain Controller (DC)**: Domain Controller is a server on the Windows network that allows host access to domain resources by storing account information, authenticating users, and enforcing security policies for Windows domains.
- **Domain Name System Query (DNS Query)**: Domain Name System Query or request is a request for information sent from a DNS client system to a DNS server.
- **Dynamic Host Configuration Protocol (DHCP)**: Dynamic Host Configuration Protocol is a network management protocol that assigns dynamic IP addresses for devices in a network.
- **Dynamic Static Tables**: Dynamic Static Tables are the tables that store cumulative data through which checkpoint firewall checks upcoming transmissions.
- **Dynamic-Link Libraries (DLLs)**: Dynamic-Link Libraries are a type of library of executable functions or data that provide one/more functions; applications access such functions by creating either a static/dynamic link to the DLL.
- **Disaster Recovery (DR):** Disaster Recovery (DR) represents the capability to respond to catastrophic disasters, recover to a safe state, and resume normal operations as quickly as possible.
- **Data Governance:** Data Governance refers to the process of ensuring that the utilization of information and data in cloud computing environments complies with the organizational strategy, policies, and standards.

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- **Disaster Recovery-as-a-Service (DRaaS):** Disaster Recovery-as-a-Service (DRaaS) is a cloud backup model where the applications and data are protected from disruptions by using cloud resources.
- **Docker Explorer:** Docker Explorer is an open-source project supported by Google that helps forensic investigators examine docker filesystems offline via a disk snapshot.

E

- **Electronic Storage Media**: Electronic Storage Media is any type of electronic device used to store data such as internal and external hard drives, USB drives, and CDs.
- **Encryption**: Encryption is a process of converting data into code to prevent unauthorized access.
- **End-point**: An End-point is a remote computing device that communicates within a network, and such devices include laptops, desktops, smartphones, and servers.
- **End-User**: An End-user is a person for whom the software or hardware device is designed.
- **Ephemeral Storage:** Ephemeral Storage is associated with VM or an instance and exists as long as the instance is running
- **Event Driven Serverless Architecture (EDA):** Event Driven Serverless Architecture (EDA) is a decoupled system to run and respond to events that trigger and communicate between services.
- **Evolution-Data Optimized (EVDO)**: Evolution-Data Optimized is a 3G network standard that provides wireless data communication to connect to the Internet.
- **Enterprise Risk Management (ERM) in Cloud Computing:** Enterprise risk management (ERM) refers to a structured process of planning, organizing, and managing an organization's activities to reduce the effects of risk on the organization's earnings and capital.

F

- **False Positive**: A False Positive is a test result that wrongly indicates that the condition or attribute is present.
- **File Transfer Protocol (FTP)**: File Transfer Protocol is a standard network protocol used to transfer files between the client and the server in a computer network.

G

- **Group Policy (GP)**: Windows' Group Policy is a tool that allows the control of a user's status and activities on a specified system in a network.
- **Gap Analysis:** Gap Analysis is a stepwise process to check and assess the current utilization of cloud technology and determine whether the technology is utilized to its fullest extent to maximize productivity and profit for the organization.

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- **Governance, Risk, and Compliance (GRC):** Governance, Risk, and Compliance (GRC) is a collection of processes and procedures that are used by an organization to address uncertainty, act with integrity, and achieve business objectives in the cloud environment.
- **GCP Forensics:** GCP Forensics is the process of retrieving and acquiring evidence from affected containers in a forensically sound manner and examining them to find the root cause of the incident.

H

- **Hacktivism**: Hacktivism is an act of misusing the computer or network for social or political benefits.
- **Hashing**: Hashing is the process of converting a given key into another value.
- **Honeypot:** Honeypot is a fake proxy that can be executed to frame attackers by logging traffic through it and sending complaints to victim ISPs.
- **Hybrid Cloud**: Hybrid Cloud model is a composition of two or more clouds (private, community, or public) that remain unique entities but are bound together, offering the benefits of multiple deployment models.

I

- **Identity and Access Management (IAM)**: Identity and Access Management (IAM) is the management of the digital identities of users and their rights to access cloud resources.
- **Incident**: An Incident is any event that disrupts the standard business functions of an organization, and if not managed instantly, could lead to disaster.
- **Incident Management:** Incident Management is the process of limiting the effects of incidents on organizational services and operations and quickly restoring the services and operations to the normal status.
- **Information Rights Management (IRM)**: Information Rights Management (IRM) is a technology used to safeguard confidential information from an attacker by encrypting the data and by including the user permissions inside the file containing the information.
- **Information Security Management:** Information Security Management (ISM) is about the management of the data, IT systems, and services of an organization and ensuring their availability, confidentiality, and integrity.
- **Infrastructure**: Infrastructure is a basic physical system of a business/region such as electric systems and communication networks.
- **Integrated Services Digital Network (ISDN)**: Integrated Services Digital Network is a set of communication standards that allow digital transmission of data, voice, and signaling.
- **Intelligent Storage System:** Intelligent Storage System is an advanced storage solution with RAID arrays that offers highly optimized input/output processing capabilities

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- **Internet Control Message Protocol (ICMP)**: Internet Control Message Protocol is an Internet protocol used by network devices such as routers to validate whether the data are reaching its target device promptly and, if not, it reports an error.
- **Internet Service Provider (ISP)**: Internet Service Provider is an organization that allows users to access and use the Internet through specific services.
- **Internal Audit (IA):** An Internal Audit (IA) is a process that helps the board and management of an organization to detect and consider the key risks of using cloud computing.
- **Incident Detection:** Incident Detection is a process of finding intruders and retracing their activity in the cloud environment.
- **Interception of Data**: Interception of Data is a technical risk in which data are intercepted in transit to or from the cloud.

K

- **Key Management:** Key Management is the management of cryptographic keys in a cryptosystem, which is a collection of cryptographic algorithms.
- **Key Performance Indicators (KPIs):** Key Performance Indicators (KPIs) are a series of measurements that are used to analyze the performance of an activity.
- **Key Vault:** Key Vault is a secure storage for the keys used to encrypt data-at-rest.

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L

- **Layer 2 Switch**: Layer 2 Switch or Data Link Layer Switching is a network switch that uses a MAC address to decide the path on which frames should be sent.
- **Layer 7**: Layer 7 is the seventh and top layer of the Open Systems Interconnect Model, which supports end-user processes and applications (application layer).
- **Load Balancer**: Load Balancer is a virtual hardware that acts as a reverse proxy in order to distribute traffic across multiple servers.
- **Local Security Authority (LSA)**: Microsoft Windows' Local Security Authority is a part of Client Authentication Architecture and allows a service to authenticate and create a logon session for local systems.

M

- **Management Plane**: Management Plane is the interface to build and manage the cloud.
- **Media Access Control Address (MAC address)**: A MAC address or physical address of a network device is a unique 48-bits hardware identification number embedded into network cards such as an Ethernet card or Wi-Fi card during its manufacturing in order to uniquely identify each network device.

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- **Microsoft Management Console (MMC)**: Microsoft Windows' Microsoft Management Console is a framework that allows management, administration, and configuration of systems through a user interface.
- **Microservices Architecture:** Microservices Architecture is an approach where a single application is composed of many smaller components or services.
- **Minimal Installation (Minimal)**: Minimal Installation is an OS installation that offers users a choice between the full-fat Ubuntu installation or a semi-skim version during the set-up of Bionic Beaver.
- **Mirrored Sources**: Mirrored Sources are compute engine VM instances.

N

- **Network-attached Storage (NAS):** Network-attached Storage (NAS) is a storage device that can be attached directly to a network and allows data storage and retrieval from a central location.
- **Network Interface Card (NIC)**: Network Interface Card is a hardware component of a computer that helps connect the system to a network.
- **Network Protocols**: Network Protocols are formal standards and policies that define communication among devices over a network and prevent mobile devices from network-based threats.
- **Network Segmentation**: Network Segmentation is the practice of splitting the computer network into multiple segments or subnetworks, wherein each segment acts as a small network.
- **Network Time Protocol (NTP)**: Network Time Protocol is an open-source protocol that is used for time synchronization in a network.
- **Network Traffic**: Network Traffic is the movement of data in a computer network at a given point in time.
- **Network Virtualization**: Network Virtualization is the process of combining the hardware, software, and network functionalities into a single software-based network.
- **Next-Generation Firewall (NGFW)**: Next-generation Firewall is a deep-packet inspection firewall that provides application-level inspection, intrusion prevention, and cloud-delivered threat intelligence.
- **Node Cordoning and Draining:** Node Cordoning and Draining is a method that enables the forensic team to shift workloads within the affected container to other VMs present in the cluster, thus reducing the ability of the attacker to affect workloads of the same node.

O

- **Open Mobile Alliance (OMA)**: Open Mobile Alliance is a standards body that provides worldwide mobile service interoperability.

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- **Open-Source OS**: Open-Source OS is a software in which the source code of the software is available for public use in order for users to make changes to the OS as per their requirement and at no cost.

P

- **Package**: Package is a compressed file archive that comprises all files that come with an application in Linux.
- **Packet Forwarding**: Packet Forwarding is the transmission of packets from one network segment to another by nodes in a computer network.
- **Packet Mirroring:** Packet Mirroring is to capture the network traffic packets so that they can be used for examining vulnerabilities.
- **Patching**: Patching is a process of repairing a vulnerability or a flaw that is identified after the release of software in the market.
- **Phishing**: Phishing is a fraudulent attempt to obtain a user's sensitive information such as username, passwords, or credit card details by posing as a trustworthy entity in an electronic communication.
- **Policy**: Policy is a high-level document that states regulatory and best practice requirements to ensure proper administrative security of the organization's confidential data.
- **Post Office Protocol (POP3)**: Post Office Protocol is a protocol that is used to retrieve e-mail from a mail server.
- **Problem Management:** Problem Management is a process that analyzes and detects the potential issues, and implements processes and mitigations to avoid problems from occurring.
- **Proxy Server**: A Proxy Server is a server application/appliance that acts as a mediator for requests from the client seeking resources from the servers that provide those resources.
- **Private Cloud**: Private Cloud model is a cloud infrastructure operated exclusively for a single organization.
- **Public Cloud**: Public Cloud is a type of computing wherein the provider makes resources available to the public through the Internet.
- **Public-Key Cryptography (PKC)**: Public-Key Cryptography is an encryption system that uses a paired public (known to everyone) and private key (known to the recipient of the message) algorithm for secure data communication and helps a user.

R

- **Raw Storage:** Raw Storage is a storage option in the VMware Virtualization environment, which allows a VM to directly connect to a LUN and access it from SAN

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- **Redundant Array of Independent Disks (RAID):** Redundant Array of Independent Disks (RAID) is a method of storing data in different places on several disks to improve performance of the I/O operations.
- **Regulatory Framework**: A Regulatory Framework comprises laws, regulations, and policies approved by governments for implementing strong administrative network and data security.
- **Remote Desktop Protocol (RDP)**: Microsoft's Remote Desktop Protocol is a protocol that offers application data transfer protection and encryption between client devices and a virtual network server.
- **Risk**: Risk is a potential for exposure to loss/damage cloud resources.
- **Root User/Root Account/Super User**: The Root User/Root Account/Super User is a username or account that has access to all files and commands on a Linux OS.
- **Router**: Router is a computer networking device that connects all switches to form a larger network, which might be at single or multiple locations.
- **Runtime Application Self-Protection (RASP)**: Runtime Application Self-Protection (RASP) is an application security technology that protects the application's malicious activities by analyzing the behavior of the application and the context of the behavior.
- **Risk Management Framework (RMF):** A Risk Management Framework (RMF) is a well-defined process that is used to detect potential threats or risks to an organization and to determine a suitable strategy for minimizing or eliminating the impact of the risk.
- **Recovery Point Objective (RPO):** Recovery Point Objective (RPO) is the maximum time frame for which an organization loses data after a major IT outage.
- **Recovery Time Objective (RTO):** Recovery Time Objective (RTO) is the maximum tolerable length of time that a computer, system, network, or application can be down after a failure or a disaster.
- **Resiliency:** Resiliency is the ability of the business to recover from the disaster quickly.
- **Redeployment of Container in GKE:** Redeployment of the Container in GKE environment refers to the process of deleting the pods that it is hosted on.

S

- **Secure Shell (SSH):** Secure Shell (SSH) is a network protocol that offers a secure method to access and manage cloud servers over the Internet or any unsecured network.
- **Secure Sockets Layer (SSL)/Transport Layer Security (TLS) Protocols**: Secure Sockets Layer/Transport Layer Security Protocol encrypts internet traffic and ensures secure Internet communication by authenticating communication between servers, systems, applications, and users.
- **Security Logs**: Security Logs are the sources that are used for threat detection, data analysis, and compliance audits to enhance cloud security.

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- **Security Assertion Markup Language (SAML)**: Security Assertion Markup Language (SAML) is an OASIS standard for federated identity management standard for authentication and authorization.
- **Security Breach**: A Security Breach is any action that leads to unauthorized access to an organization's protected systems and data.
- **Security Command Center (SCC):** Security Command Center (SCC) is a security and risk management platform for detecting and responding to threats in GCP.
- **Security Controls**: Security Controls are countermeasures to detect, minimize, and counteract security risks.
- **Security Identifier (SID)**: A Security Identifier is a unique ID number used to identify an object (user/users' group) in a network by a system/domain controller.
- **Security Incidence Response Simulation (SIRS):** Security Incidence Response Simulation (SIRS) is a way to practice the incident response plan in a real-time scenario.
- **Security Operations Center:** Security Operations Center (SOC) is a centralized unit that continuously monitors and analyzes the ongoing activities on organizational information systems such as networks, servers, endpoints, databases, applications, and websites.
- **Service Provider**: A Service Provider is an organization/vendor that allows access to its subscribers to the Internet.
- **Service Set Identifier (SSID)**: A Service Set Identifier is a unique ID that comprises 32 characters and used for naming wireless networks to ensure data are sent to the correct destination.
- **Signature-based Detection**: Signature-based Detection is a process wherein a unique identifier of a known threat is established in order to recognize the threat in the future.
- **Simple Network Management Protocol (SNMP)**: Simple Network Management Protocol is an Internet standard application-layer protocol that allows the management and monitoring of network devices and their functions on IP networks.
- **Simulation**: Simulation is an imitation of a process or event.
- **Single Sign-On (SSO)**: Single Sign-On is an authentication mechanism that allows accessing multiple applications with one set of login credentials.
- **Social Engineering**: Social Engineering, in the context of cybersecurity, is psychological manipulation of a user of a computing system such that the user reveals sensitive information that can be used to gain unauthorized access to the system.
- **Software-Defined network (SDN):** Software-Defined Network (SDN) is a network framework that centralizes the network controller by separating a network's control functions from its data packet forwarding functions.
- **Storage Area Network (SAN):** Storage Area Network (SAN) is an independent high-speed network that offloads data from servers/desktops to the storage devices.

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- **Storage Virtualization**: Storage Virtualization is the sharing of physical storage from multiple storage devices that appear to be a single storage device.
- **Switch**: Switch is a computer networking device that facilitates the sharing of resources by connecting all devices, including computers, printers, and servers, in a small network.
- **System Log Daemon (syslogd)**: System Log Daemon is a common logger that can manage messages from servers and programs in Linux and Unix.
- **Software Defined Perimeter (SDP) Architecture Guide:** The Software Defined Perimeter (SDP) Architecture Guide is to leverage the proven and standards-based components to stop network attacks against application infrastructure.
- **Service-Level Agreements (SLA):** Service-Level Agreements (SLA) are the metrics through which client-expected performance levels are measured at all times by the cloud service provider.
- **Service-level Management (SLM)**: Service-level Management (SLM) is the process that defines, manages, and documents the service levels of all products and services.
- **Security Orchestration, Automation, and Response (SOAR):** Security Orchestration, Automation, and Response (SOAR) is a collection of tools and software that allows an organization to act on a security incident from a single interface.

T

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- **Tamper-Proofing**: Tamper-Proofing is a methodology that hinders, deters, or detects unauthorized access to a device.
- **Telnet**: Telnet is a network protocol that allows a user on one computer to log in to another computer within the same network.
- **Threat Landscape**: A Threat Landscape is a collection of threats in a specific domain with information on threats, risks, vulnerable assets, threat actors, and observed trends.
- **Timestamp**: Timestamp is a part of a log event that informs when an event occurs.
- **Tokenization:** Tokenization is the process of replacing sensitive data into pieces of non-sensitive data without compromising its security.
- **Trusted Platform Module (TPM)**: Trust Platform Module is a computer chip (microcontroller) that securely stores passwords, certificates, encryption keys, among other sensitive information, which are later used to authenticate the system.
- **Trojan**: Trojan is a malware disguised as genuine software.
- **Tunneling**: Tunneling is a protocol that provides secure communication among networks by providing encryption, data integrity, and authentication.
- **Tags:** Tags are user-level annotations for defining security groups, network segmentation, and firewall rules.

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U

- **Universal Plug and Play (UPnP)**: Universal Plug and Play is a collection of networking protocols that allows networking devices (e.g., computers, printers, and mobile devices) to discover each other's presence and establish functional network services for data sharing, communications, and entertainment.
- **User Datagram Protocol (UDP)**: User Datagram Protocol is a part of the TCP/IP suite of protocols or a stateless protocol that establishes low-latency and loss-tolerating communication among applications on the Internet.

V

- **Virtualization**: Virtualization is a process of creating virtual versions rather than creating actual versions of networks, storage, servers, operating system, applications, etc.
- **Virtual Private Network (VPN)**: Virtual Private Network is a private network that uses a public network to connect users/sites remotely.
- **Volume Storage:** Volume Storage is a type of hard disk drive that can be attached to a virtual machine.
- **Vulnerability**: Vulnerability is a weakness in a system that could be exploited by an attacker in order to gain unauthorized access.
- **Vulnerability Assessments (VA)**: Vulnerability Assessment (VA) is the process of detecting, analyzing, and prioritizing the vulnerabilities present in a cloud environment.
- **VPC Flow Logs:** VPC Flow Logs is a record of outbound and inbound network traffic sent from and to VMs instances within a subnet.

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W

- **Wide Area Network (WAN)**: Wide Area Network is a computer network that spans over a large geographical area.
- **Windows PowerShell**: Windows PowerShell is a command-line shell automation platform for Windows and Windows Server systems, with a scripting language integrated into the .NET framework.
- **Wireless Application Protocol (WAP)**: Wireless Application Protocol is a protocol that allows wireless data access through mobile wireless networks.
- **World Wide Web Consortium (W3C)**: The World Wide Web Consortium is an access log for web servers that can be enabled on a server session or URL group.

Z

- **Zero-day Threat**: Zero-day Threat is a threat that has not been identified before and that does not match with any known malware signatures.
- **Zero-day Virus**: Zero-day Virus is an unknown virus/malware without any identified antivirus software signatures.

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References

Module 01 Introduction to Cloud Security

1. Microsoft Azure (October 18, 2019) Azure infrastructure security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/infrastructure
2. Teju Shymansundar (June 21, 2018), What is ADFS?, from https://www.okta.com/blog/2018/06/what-is-adfs/
3. Microsoft (December 5, 2018) What is password hash synchronization with Azure AD?, from https://docs.microsoft.com/en-us/azure/active-directory/hybrid/whatis-phs
4. Microsoft Azure (October 28, 2019) Azure Identity Management and access control security best practices, from https://docs.microsoft.com/en-us/azure/security/fundamentals/identity-management-best-practices
5. Adam (January 13, 2017) How to sync on-premises Active Directory to Azure Active Directory with Azure AD Connect?, from https://www.codetwo.com/admins-blog/how-to-sync-on-premises-active-directory-to-azure-active-directory-with-azure-ad-connect/#targetText=To%20open%20Synchronization%20Service%20Manager,can%20monitor%20the%20synchronization%20progress.
6. How to Deploy Active Directory Federation Services (ADFS) on Windows Server 2019, from https://www.systemsitpro.com/2019/03/Deploy-ADFS-2019.html
7. Microsoft (April 16, 2019) Azure Active Directory Seamless Single Sign-On: Quick start, from https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-sso-quick-start
8. Mike O. Villegas (January 26, 2016) How to limit privileged accounts and boost security, from https://searchsecurity.techtarget.com/tip/How-to-limit-privileged-accounts-and-boost-security
9. Microsoft (February 7, 2020) Assign Azure AD roles in Privileged Identity Management, from https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-how-to-add-role-to-user?tabs=previous
10. Microsoft Azure (December 7, 2017) Azure Security Documentation, http://cloudarchitects.pl/wp-content/uploads/2018/02/Azure-Security.pdf
11. Microsoft Azure (May 26, 2017) Configuring TLS for an application in Azure, from https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-configure-ssl-certificate-portal
12. Yousef Khalidi (2017) Azure Network Security, from https://azure.microsoft.com/nl-nl/blog/azure-network-security/
13. Microsoft (March 15, 2016) Manage endpoint access control lists using PowerShell in the classic deployment model, from https://docs.microsoft.com/en-us/previous-versions/azure/virtual-network/virtual-networks-acl-powershell
14. Microsoft Azure (March 9, 2020) Quickstart: Direct web traffic with Azure Application Gateway - Azure portal, from https://docs.microsoft.com/en-us/azure/application-gateway/quick-create-portal
15. Microsoft Azure (March 11, 2019) Tutorial: Load balance internet traffic to VMs using the Azure portal, from https://docs.microsoft.com/en-us/azure/load-balancer/tutorial-load-balancer-standard-manage-portal
16. Microsoft Azure (February 21, 2020) Tutorial: Deploy and configure Azure Firewall using the Azure portal, from https://docs.microsoft.com/en-us/azure/firewall/tutorial-firewall-deploy-portal
17. Microsoft Azure (March 9, 2020) Azure data security and encryption best practices, from https://docs.microsoft.com/en-us/azure/security/fundamentals/data-encryption-best-practices
18. Microsoft Azure (March 26, 2019) Microsoft Antimalware for Azure Cloud Services and Virtual Machines, from https://docs.microsoft.com/en-us/azure/security/fundamentals/antimalware
19. Tutorialspoint Microsoft Azure - Monitoring Virtual Machines, from https://www.tutorialspoint.com/microsoft_azure/microsoft_azure_monitoring_virtual_machines.htm
20. Microsoft Azure, Network Watcher, from https://azure.microsoft.com/en-in/services/network-watcher/
21. Microsoft Azure (April 24, 2018) What is Azure Network Watcher? from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview
22. Arunvignesh Venkatesh (August 31, 2017) Cloud Computing Security: Provider & Consumer Responsibilities, from https://www.mindtree.com/blog/cloud-computing-security-provider-consumer-responsibilities
23. Google Cloud, Cloud IAM, from https://cloud.google.com/iam/docs/overview
24. Inflobox, Creating GCP Service Account, from https://docs.infoblox.com/display/vniosgcp/Creating+GCP+Service+Account

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

25. Google Cloud, Restricting Service Account Usage, from https://cloud.google.com/resource-manager/docs/organization-policy/restricting-service-accounts

26. Google Cloud, Management Tools, from https://cloud.google.com/logging/docs/access-control

27. Google Cloud, Cloud Key Management Service, from https://cloud.google.com/kms

28. Google Cloud, Google Security Model, from https://cloud.google.com/security/overview

29. Google Cloud, Cloud Audit Logs, from https://cloud.google.com/logging/docs/audit

30. Google Cloud, Monitoring audit logging information, from https://cloud.google.com/monitoring/audit-logging

31. Google Cloud, Cloud Logging, from https://cloud.google.com/logging

32. Google Cloud, Compliance Resource Center, from https://cloud.google.com/security/compliance

33. Google Cloud (January 2017) Google Infrastructure Security Design Overview, from https://cloud.google.com/security/infrastructure/design/

34. Margaret Rouse, identity and access management (IAM), from https://searchsecurity.techtarget.com/definition/identity-access-management-IAM-system.

35. James A. Martin, What is IAM? Identity and access management explained, from https://www.csoonline.com/article/2120384/what-is-iam-identity-and-access-management-explained.html.

36. Margaret Rouse, encryption key management, from https://searchdatabackup.techtarget.com/definition/encryption-key-management.

37. Stratoscale, Security in Cloud Networking: FW, ACLs and More, from https://www.stratoscale.com/blog/data-center/security-cloud-networking-fw-acls/.

38. Natalie Boyd, Achieving Network Security in Cloud Computing, from https://www.sdxcentral.com/cloud/definitions/achieving-network-security-in-cloud-computing/.

39. Top 6 Methods to Protect Your Cloud Data from Hackers, from https://www.idexcel.com/blog/top-6-methods-to-protect-your-cloud-data-from-hackers/.

40. Naomi Assaraf, 5 Safety Concerns with Cloud Data Storage, Answered, from https://blog.cloudhq.net/5-safety-concerns-with-cloud-data-storage-answered/.

41. 7 Effective Tips to Secure Your Data in the Cloud, from https://hackernoon.com/7-effective-tips-to-secure-your-data-in-the-cloud-820bfe438d2.

42. Ed Moyle, 3 best practices for cloud security monitoring, from https://searchcloudsecurity.techtarget.com/tip/Cloud-security-monitoring-Challenges-and-guidance.

43. 4 Best Practices for Today's Log Management, from https://www.cloudaccess.com/cloud-based-log-management/.

44. MIKE MASON, Key Considerations for Compliance in the Cloud, from https://www.corporatecomplianceinsights.com/key-considerations-compliance-cloud/.

45. Natalie Boyd, Cloud Computing Security Architecture for IaaS, SaaS, and PaaS, from https://www.sdxcentral.com/cloud/defi.nitions/cloud-computing-security-architecture/.

46. Best practices for enterprise organizations, from https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations.

47. John Martinez, 8 Google Cloud Security Best Practices, from https://blog.palo, altonetworks.com/2019/04/8-google-cloud-security-best-practices/.

48. STUART SCOTT, AWS Shared Responsibility Model: Cloud Security, from https://cloudacademy.com/blog/aws-shared-responsibility-model-security/.

49. Shared Responsibility Model, from https://aws.amazon.com/compliance/shared-responsibility-model/.

50. AWS Shared Security Model, from https://www.barracuda.com/glossary/aws-shared-security-model.

51. Kai Zhao, New in IAM: Quickly Identify When an Access Key Was Last Used, from https://aws.amazon.com/blogs/security/new-in-iam-quickly-identify-when-an-access-key-was-last-used/.

52. Getting Credential Reports for Your AWS Account, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_getting-report.html#getting-credential-reports-console.,

53. Rob Moncur, New Information in the AWS IAM Console Helps You Follow IAM Best Practices, from https://aws.amazon.com/blogs/security/newly-updated-features-in-the-aws-iam-console-help-you-adhere-to-iam-best-practices/.

54. Managing Access Keys for IAM Users, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

55. IAM Best Practices, from https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html.

56. Using an IAM Role to Grant Permissions to Applications Running on Amazon EC2 Instances, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_switch-role-ec2.html.

57. Lock Away Your AWS Account Root User Access Keys, from https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#lock-away-credentials.

58. Enabling MFA Devices, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_mfa_enable.html.

59. Zaher Dannawi, How to Enable MFA Protection on Your AWS API Calls, from https://aws.amazon.com/blogs/security/how-to-enable-mfa-protection-on-your-aws-api-calls/.

60. Lock Away Your AWS Account Root User Access Keys, from https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#lock-away-credentials.

61. STUART SCOTT, AWS Security: Identity and Access Management (IAM), from https://cloudacademy.com/blog/aws-security-identity-and-access-management-iam/.

62. Setting an Account Password Policy for IAM Users, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_passwords_account-policy.html.

63. Lock Away Your AWS Account Root User Access Keys, from https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#lock-away-credentials.

64. Action Summary (List of Resources), from https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_understand-action-summary.html.

65. Service Summary (List of Actions), from https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_understand-service-summary.html.

66. Policy Summary (List of Services), from https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_understand-policy-summary.html.

67. Lock Away Your AWS Account Root User Access Keys, from https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#lock-away-credentials.

68. AWS Managed Policies, from https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_managed-vs-inline.html#aws-managed-policies.

69. Brad Lyman, An Easier Way to Manage Your Policies, from https://aws.amazon.com/blogs/security/an-easier-way-to-manage-your-policies/.

70. Create Individual IAM Users, from https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#create-iam-users.

71. AWS Managed Policies, from https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_managed-vs-inline.html#aws-managed-policies.

72. Creating Your First IAM Admin User and Group, from https://docs.aws.amazon.com/IAM/latest/UserGuide/getting-started_create-admin-group.html.

73. BethChimeAWS, Amazon Chime actions for IAM policies, from https://answers.chime.aws/articles/317/amazon-chime-actions-for-iam-policies.html.

74. Adding and Removing Users in an IAM Group, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_groups_manage_add-remove-users.html.

75. Create Individual IAM Users, from https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#create-iam-users.

76. Rob Moncur, Now Create and Manage Users More Easily with the AWS IAM Console, from https://aws.amazon.com/blogs/security/now-create-and-manage-users-more-easily-with-the-aws-iam-console/.

77. Enabling MFA Devices, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_mfa_enable.html.

78. Changing the AWS Account Root User Password, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_passwords_change-root.html.

79. Jeff Barr, IAM: AWS Identity and Access Management – from Now Generally Available, https://aws.amazon.com/blogs/aws/iam-identity-access-management/.

80. Overview of Access Management: Permissions and Policies, from https://docs.aws.amazon.com/IAM/latest/UserGuide/introduction_access-management.html.

81. AWS IAM features, from https://aws.amazon.com/iam/features/.

82. AWS IAM, from https://www.simplilearn.com/aws-iam-tutorial-article.

83. The AWS Account Root User, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_root-user.html.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

84. Roles Terms and Concepts, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_terms-and-concepts.html.

85. Creating a Role to Delegate Permissions to an IAM User, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_create_for-user.html.

86. Abhishek Pandey, Introducing an Easier Way to Delegate Permissions to AWS Services: Service-Linked Roles, from https://aws.amazon.com/blogs/security/introducing-an-easier-way-to-delegate-permissions-to-aws-services-service-linked-roles/.

87. Using Temporary Credentials With AWS Resources, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_use-resources.html.

88. Creating an IAM User in Your AWS Account, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users_create.html.

89. Finding Unused Credentials, from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_finding-unused.html.

90. Managing Access Keys (Console), from https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html#Using_CreateAccessKey.

91. NITHEESH POOJARY, AWS IAM: How to Master Amazon Authentication in 5 Steps, from https://cloudacademy.com/blog/aws-iam-security/.

92. Configuring and Using Access Logs, from https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/AccessLogs.html.

93. Choosing an Amazon S3 Bucket for Your Access Logs, from https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/AccessLogs.html#access-logs-choosing-s3-bucket.

94. What Is AWS CloudTrail?, from https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-user-guide.html.

95. AWS CloudTrail features, from https://aws.amazon.com/cloudtrail/features/.

96. AWS Config features, from https://aws.amazon.com/config/features/.

97. Amazon S3 Features, from https://aws.amazon.com/s3/features/?nc=sn&loc=2.

98. How do you protect your data at rest?, from https://wa.aws.amazon.com/wat.question.SEC_9.en.html.

99. Ken Beer, Ryan Holland, Encrypting Data at Rest, from https://d1.awsstatic.com/whitepapers/AWS_Securing_Data_at_Rest_with_Encryption.pdf.

100. AWS Security Best Practices, from https://d0.awsstatic.com/whitepapers/aws-security-best-practices.pdf.

101. How do you classify your data?, from https://wa.aws.amazon.com/wat.question.SEC_8.en.html.

102. Amazon Macie, from https://aws.amazon.com/macie/?ref=wellarchitected.

103. Amazon S3-Managed Encryption Keys (SSE-S3), from https://docs.aws.amazon.com.

104. AWS KMS-Managed keys (SSE-KMS), from https://docs.aws.amazon.com.

105. Customer-provided keys (SSE-C), from https://docs.aws.amazon.com.

106. Bouncy Castle, from http://www.bouncycastle.org/.

107. OpenSSL, from https://www.openssl.org/.

108. Ken Beer and Ryan Holland, Securing Data at Rest with Encryption, from https://d0.awsstatic.com/whitepapers/aws-securing-data-at-rest-with-encryption.pdf.

109. What Is AWS Certificate Manager?, from https://docs.aws.amazon.com/acm/latest/userguide/acm-overview.html.

110. Services Integrated with AWS Certificate Manager, from https://docs.aws.amazon.com/acm/latest/userguide/acm-services.html.

111. Stephen Schmidt, Introducing s2n, a New Open Source TLS Implementation, from https://aws.amazon.com/blogs/security/introducing-s2n-a-new-open-source-tls-implementation/.

112. Lee Atkinson, How to Help Achieve Mobile App Transport Security (ATS) Compliance by Using Amazon CloudFront and AWS Certificate Manager, from https://aws.amazon.com/blogs/security/how-to-help-achieve-mobile-app-transport-security-compliance-by-using-amazon-cloudfront-and-aws-certificate-manager/.

113. Jeff Barr, New – AWS Certificate Manager – Deploy SSL/TLS-Based Apps on AWS, from https://aws.amazon.com/blogs/aws/new-aws-certificate-manager-deploy-ssltls-based-apps-on-aws/.

114. Amazon Virtual Private Cloud, from https://aws.amazon.com/vpc/.

115. AWS Security Best Practices, from https://d0.awsstatic.com/whitepapers/Security/AWS_Security_Best_Practices.pdf.

116. Working with Security Groups, from https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html#WorkingWithSecurityGroups.

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All Rights Reserved. Reproduction is Strictly Prohibited.

117. Jeff Barr, New – Descriptions for Security Group Rules, from https://aws.amazon.com/blogs/aws/new-descriptions-for-security-group-rules/.

118. STUART SCOTT, AWS Security Groups: Instance Level Security, from https://cloudacademy.com/blog/aws-security-groups-instance-level-security/.

119. Working with Network ACLs, from https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html#nacl-tasks.

120. AWS Direct Connect, from https://aws.amazon.co.m/directconnect/.

121. AWS Direct Connect, from https://docs.aws.amazon.com/directconnect/latest/UserGuide/dc-ug.pdf.

122. Amazon Web Services - Direct Connect, from https://www.tutorialspoint.com/amazon_web_services/amazon_web_services_direct_connect.htm.

123. DMZ (computing), from https://en.wikipedia.org/wiki/DMZ_(computing).

124. AWS VPC Subnets – in Layperson's Terms, from https://www.infoq.com/articles/aws-vpc-explained/.

125. AWS Firewalls, from https://www.barracuda.com/glossary/aws-firewall.

126. Route Tables, from https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Route_Tables.html.

127. Configuring DNS routing for a new domain, from https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/dns-configuring-new-domain.html.

128. Controlling VPC Egress Traffic, from https://aws.amazon.com/answers/networking/controlling-vpc-egress-traffic/.

129. Jeff Barr , Amazon S3 Block Public Access – Another Layer of Protection for Your Accounts and Buckets, from https://aws.amazon.com/blogs/aws/amazon-s3-block-public-access-another-layer-of-protection-for-your-accounts-and-buckets/.

130. AWS Security – Storage Services, from https://d1.awsstatic.com/whitepapers/Security/Security_Storage_Services_Whitepaper.pdf.

131. Amazon S3 Features, from https://aws.amazon.com/s3/features/?nc=sn&loc=2.

132. How Do I Add Metadata to an S3 Object?, from https://docs.aws.amazon.com/AmazonS3/latest/user-guide/add-object-metadata.html.

133. AWS Tagging Strategies, from https://aws.amazon.com/answers/account-management/aws-tagging-strategies/.

134. Alexander Watson, Classify sensitive data in your environment using Amazon Macie, from https://aws.amazon.com/blogs/security/classify-sensitive-data-in-your-environment-using-amazon-macie/.

135. How AWS Config Works, from https://docs.aws.amazon.com/config/latest/developerguide/how-does-config-work.html.

136. Track your resource configuration changes with AWS Config, from https://blog.cloudthat.com/track-your-resource-configuration-and-changes-with-aws-config/.

137. AWS Well-Architected Framework, from https://d0.awsstatic.com/whitepapers/architecture/AWS-Security-Pillar.pdf?ref=wellarchitected.

138. Parveen, AWS, Google and Microsoft Azure Security Checklist, from https://www.xenonstack.com/blog/aws-google-azure-security/.

139. past, present, and future of spies, from www.spytales.com.

hideoi.ir

Module 02 Platform and Infrastructure Security in Cloud

140. What is Data Center Security? Data Center Security Defined and Explored, from https://www.forcepoint.com/cyber-edu/data-center-security.

141. Casey Crane, What Is Data Center Security? 6 Ways to Ensure Your Interests Are Protected, from https://securityboulevard.com/2020/06/what-is-data-center-security-6-ways-to-ensure-your-interests-are-protected/.

142. Jake Gibson, Data Center Security: Why Providers Should Build Security into Every Detail, from https://www.lightedge.com/blog/data-center-security-guide/.

143. Data center security, from https://en.wikipedia.org/wiki/Data_center_security.

144. STUART SCOTT, AWS Security Groups: Instance Level Security, 2019, from https://cloudacademy.com/blog/aws-security-groups-instance-level-security/.

145. AWS Security Best Practices, August 2016, from http://d1.awsstatic.com/whitepapers/Security/AWS_Security_Best_Practices.pdf.

146. How to change an EC2 instance's security group, from https://serverfault.com/questions/237557/how-to-change-an-ec2-instances-security-group.

147. Amazon Elastic Compute Cloud User Guide for Linux Instances, from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-ug.pdf.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

148. Becki Lee, Cloud Network Security 101: AWS Security Groups vs NACLs, September 19, 2019, from https://www.fugue.co/blog/cloud-network-security-101-aws-security-groups-vs-nacls.

149. Sujith Kumar, AWS Security Groups: Instance Level Security, November 25, 2019, from https://www.whizlabs.com/blog/aws-security-groups/.

150. Infrastructure security in Amazon VPC, from https://docs.aws.amazon.com/vpc/latest/userguide/infrastructure-security.html.

151. Step 1: Create and configure your VPC, from https://docs.aws.amazon.com/directoryservice/latest/admin-guide/gsg_create_vpc.html.

152. Virtual Private Cloud – isolate your cloud resources with configurable VPNs from your console, from https://cloud.orange-business.com/en/offers/infrastructure-iaas/public-cloud/features/virtual-private-cloud/.

153. What is a virtual private cloud (VPC)?, from https://www.cloudflare.com/learning/cloud/what-is-a-virtual-private-cloud/.

154. How To Create VPC on AWS, from https://objectivefs.com/howto/how-to-setup-vpc-on-aws.

155. 2. Create VPC, from https://www.miarec.com/book/export/html/938.

156. STEFANO BELLASIO, Amazon VPC: 5 Reasons to Use and Learn it…with Cloud Academy!, JANUARY 26, 2014, from https://cloudacademy.com/blog/how-and-why-to-use-vpc-for-your-amazon-aws-infrastructure/.

157. IBM Cloud Education, Virtual Private Cloud (VPC), 6 November 2019, from https://www.ibm.com/cloud/learn/vpc.

158. STUART SCOTT, AWS Network ACL and subnets: network level security, NOVEMBER 17, 2015, from https://cloudacademy.com/blog/aws-network-acl-vpc-subnets-network-security/.

159. What is a Security Group?, from https://www.javatpoint.com/aws-nacl-vs-security-group.

160. Network ACLs, https://www.fugue.co/blog/cloud-network-security-101-aws-security-groups-vs-nacls.

161. Stuart Scott, VPC Flow Logs, from https://cloudacademy.com/course/how-implement-enable-logging-across-aws-services-part-2-2/vpc-flow-logs/.

162. Crystal Li, What Are VPC Flow Logs and How Can They Improve Your Cloud?, NOVEMBER 07, 2018, from https://www.kentik.com/blog/what-are-vpc-flow-logs-and-how-can-they-improve-your-cloud/#:~:text=According%20to%20Google%2C%20their%20VPC,and%20real%2Dtime%20security%20analysis..

163. VPC Flow Logs, from https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs.html.

164. LOGES, Steps to Enable and Analysis VPC Flow Logs in AWS, AUGUST 22, 2019, from https://www.assistanz.com/steps-to-enable-and-analysis-vpc-flow-logs/.

165. Jeff Barr, VPC Flow Logs – Log and View Network Traffic Flows, 10 JUN 2015, from https://aws.amazon.com/blogs/aws/vpc-flow-logs-log-and-view-network-traffic-flows/.

166. Channy Yun, AWS Network Firewall – New Managed Firewall Service in VPC, from https://aws.amazon.com/blogs/aws/aws-network-firewall-new-managed-firewall-service-in-vpc/.

167. Standard stateful rule groups in AWS Network Firewall, from https://docs.aws.amazon.com/network-firewall/latest/developerguide/stateful-rule-groups-5-tuple.html.

168. AWS Network Firewall: Network protection across all AWS workloads, from https://www.helpnetsecurity.com/2020/11/18/aws-network-firewall-protection/.

169. Guidelines for shared Linux AMIs, from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/building-shared-amis.html.

170. bZia, DISABLE PASSWORD-BASED REMOTE LOGINS FOR ROOT FOR AWS PUBLIC AMI'S, from https://www.thecloudxperts.co.uk/disable-password-based-remote-logins-for-root-for-aws-public-amis.

171. Amazon Elastic Compute Cloud User Guide for Linux Instances, from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-ug.pdf.

172. Brien Posey, Creating Snapshots of AWS Instances, from https://awsinsider.net/articles/2016/12/19/create-snapshots-of-aws-instances.aspx.

173. Create Amazon EBS snapshots, from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-creating-snapshot.html.

174. Amazon EBS Snapshots, from https://aws.amazon.com/ebs/snapshots/#:~:text=EBS%20Snapshots%20are%20a%20point,CLI%2C%20or%20the%20AWS%20SDKs.

175. Yifat Perry, A Beginner's Guide to AWS Snapshots for Amazon EBS Volumes, from https://cloud.netapp.com/blog/aws-snapshots-a-complete-introduction-to-amazon-ebs-snapshots.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

176. McAfee Cloud BU, 51 AWS Security Best Practices, Apr 08, 2017, from https://www.mcafee.com/blogs/enterprise/cloud-security/aws-security-best-practices/.

177. Katie Fritchen, 5 GOOGLE CLOUD SECURITY BEST PRACTICES, MAY 2, 2019, from https://managedmethods.com/blog/google-cloud-security-best-practices/.

178. Mike Sparr, How to Structure Your Enterprise on Google Cloud Platform, from https://blog.doit-intl.com/how-to-structure-your-enterprise-on-google-cloud-platform-d8169497790b.

179. Access control for organizations using IAM, from https://cloud.google.com/resource-manager/docs/access-control-org.

180. Overview of access control, from https://cloud.google.com/storage/docs/access-control.

181. Creating and managing custom roles, from https://cloud.google.com/iam/docs/creating-custom-roles.

182. Cloud Router overview, from https://cloud.google.com/network-connectivity/docs/router/concepts/overview#static_versus_dynamic_routing.

183. Stephanie Wong, Dynamic routing with Cloud Router, from https://medium.com/google-cloud/dynamic-routing-with-cloud-router-9ff5c362d833.

184. Best practices and reference architectures for VPC design, from https://cloud.google.com/solutions/best-practices-vpc-design#dynamic-routing.

185. Best practices for enterprise organizations, from https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#define-your-network.

186. VPC network overview, from https://cloud.google.com/vpc/docs/vpc.

187. Nickolaos Contaxakis, Cloud Solutions Engineer, GCP 101: Understanding Google Cloud VPC, from https://www.onixnet.com/insights/gcp-101-understanding-google-cloud-vpc.

188. Best practices and reference architectures for VPC design, from https://cloud.google.com/solutions/best-practices-vpc-design#custom-mode.

189. Create a VPC Network, from https://docs.vmware.com/en/VMware-SD-WAN-by-VeloCloud/3.4/VMware-SD-WAN-by-VeloCloud-Google-Cloud-Platform-Virtual-Edge-Deployment-Guide/GUID-97089BD3-BB0B-4E92-BB28-11DAE28F0AC1.html.

190. PATRIK, Google Cloud Platform (GCP) Security Best Practices, from https://www.assured.se/2019/12/19/gcp-security/.

191. Best practices and reference architectures for VPC design, from https://cloud.google.com/solutions/best-practices-vpc-design#shared-vpc.

192. Shared VPC overview, from https://cloud.google.com/vpc/docs/shared-vpc.

193. Stephanie Wong, Centralize control with Shared VPC, from https://swongful.medium.com/centralize-control-with-shared-vpc-35e991ee1666.

194. Using VPC Flow Logs, from https://cloud.google.com/vpc/docs/using-flow-logs#console.

195. Ines Envid, Introducing VPC Flow Logs—network transparency in near real-time, from https://www.googblogs.com/introducing-vpc-flow-logs-network-transparency-in-near-real-time/.

196. Best practices and reference architectures for VPC design, from https://cloud.google.com/solutions/best-practices-vpc-design#tailor-logging.

197. FastNetMon and Google Compute GCE VPC Flow logs, from https://fastnetmon.com/docs-fnm-advanced/fastnetmon-and-google-compute-gce-vpc-flow-logs/ (image).

198. Compute Engine Cost Optimization, from https://tudip.com/blog-post/compute-engine-cost-optimization/.

199. Nicole Bavis, Google Cloud Best Practices: 2020 Roundup, from https://www.parkmycloud.com/blog/google-cloud-best-practices/.

200. Applying machine type recommendations for VM instances, from https://cloud.google.com/compute/docs/instances/apply-sizing-recommendations-for-instances.

201. Documentation and Best Practices, from https://support.cloudability.com/hc/en-us/articles/360058135694-Rightsizing-for-GCP-Compute-Engine.

202. Best practices for enterprise organizations, from https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#define-your-network.

203. VPC firewall rules overview, from https://cloud.google.com/vpc/docs/firewalls.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

204. Stephanie Wong, Protect your Google Cloud Instances with Firewall Rules, from https://swongful.medium.com/protect-your-google-cloud-instances-with-firewall-rules-69cce960fba.

205. Configuring network tags, from https://cloud.google.com/vpc/docs/add-remove-network-tags#:~:text=Every%20firewall%20rule%20in%20Google,to%20which%20the%20rule%20applies..

206. Chandan Kumar, How to Configure Firewall Rules in Google Cloud Platform?, from https://geekflare.com/gcp-firewall-configuration/ (image).

207. John Martinez, 8 Google Cloud Security Best Practices, from https://blog.paloaltonetworks.com/2019/04/8-google-cloud-security-best-practices/.

208. Regions and Availability Zones in Azure, from https://docs.microsoft.com/en-us/azure/availability-zones/az-overview#availability-zones.

209. Best practices to set up networking for workloads migrated to Azure, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/migrate/azure-best-practices/migrate-best-practices-networking.

210. What is Conditional Access?, from https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview.

211. Azure best practices for network security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/network-best-practices#disable-rdpssh-access-to-virtual-machines.

212. Conditional Access: Require MFA for Azure management, from https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/howto-conditional-access-policy-azure-management.

213. Tutorial: Secure user sign-in events with Azure AD Multi-Factor Authentication, from https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-enable-azure-mfa?bc=/azure/active-directory/conditional-access/breadcrumb/toc.json&toc=/azure/active-directory/conditional-access/toc.json#create-a-conditional-access-policy.

214. Office 365 Conditional Access, from https://www.manageengine.com/mobile-device-management/help/profile_management/mdm_o365_conditional_access.html.

215. Vasil Michev, Conditional Access has a new home – meet the Azure AD Security blade, from https://www.michev.info/Blog/Post/2670/conditional-access-has-a-new-home-meet-the-azure-ad-security-blade.

216. Tutorial: Secure user sign-in events with Azure AD Multi-Factor Authentication, from https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-enable-azure-mfa.

217. About Azure Key Vault, from https://docs.microsoft.com/en-us/azure/key-vault/general/overview.

218. Azure Disk Encryption for Windows VMs, from https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disk-encryption-overview.

219. Anderson Patricio, STEP-BY-STEP GUIDE: USING DISK ENCRYPTION IN MICROSOFT AZURE VMS, from http://techgenix.com/disk-encryption-in-azure-vms/.

220. Virtual Network service endpoints, from https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-service-endpoints-overview.

221. Tutorial: Restrict network access to PaaS resources with virtual network service endpoints using the Azure portal, from https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-restrict-network-access-to-resources#enable-a-service-endpoint.

222. Create, change, or delete service endpoint policy using the Azure portal, from https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-service-endpoint-policies-portal.

223. Becki Lee, Cloud Network Security 101: Azure Virtual Network Service Endpoints, from https://www.fugue.co/blog/cloud-network-security-101-azure-virtual-network-service-endpoints.

224. Andy Thompson, Azure Service Endpoints - how do they work?, from https://blog.coeo.com/azure-service-endpoints.

225. Azure best practices for network security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/network-best-practices#disable-rdpssh-access-to-virtual-machines

226. Secure your management ports with just-in-time access, from https://docs.microsoft.com/en-us/azure/security-center/security-center-just-in-time?tabs=jit-config-asc%2Cjit-request-asc

227. Understanding just-in-time (JIT) VM access, from https://docs.microsoft.com/en-us/azure/security-center/just-in-time-explained.

228. Best practices to set up networking for workloads migrated to Azure, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/migrate/azure-best-practices/migrate-best-practices-networking.

229. MANAS RANJAN MOHARANA, Azure – Networking – Part 17 – VNet Peering 2 – Hub-spoke VNet topology, from https://knowledge-junction.com/2019/12/28/azure-networking-part-17-vnet-peering-2-hub-spoke-vnet-topology/.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

230. Azure best practices for network security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/network-best-practices#disable-rdpssh-access-to-virtual-machines.

231. Dishan_Francis, Step-By-Step: Creating an Azure Point-to-Site VPN, from https://techcommunity.microsoft.com/t5/itops-talk-blog/step-by-step-creating-an-azure-point-to-site-vpn/ba-p/326264.

232. Create a Site-to-Site connection using the Azure portal (classic), from https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-classic-portal.

233. Quickstart: Create and modify an ExpressRoute circuit, from https://docs.microsoft.com/en-us/azure/expressroute/expressroute-howto-circuit-portal-resource-manager.

234. Chris Pietschmann, RDP Security Tips: Stop Hackers, BlueKeep, and Exploits, from https://build5nines.com/rdp-security-tips-stop-hackers-exploits/.

235. Vladimir Stefanovic Actionable Guide To Microsoft Azure Security Best Practices, from https://superadmins.com/microsoft-azure-security-best-practices/.

236. Tutorial: Create a Site-to-Site connection in the Azure portal, from https://docs.microsoft.com/en-us/azure/vpn-gateway/tutorial-site-to-site-portal.

237. Download VPN device configuration scripts for S2S VPN connections, from https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-download-vpndevicescript.

238. About Point-to-Site VPN, from https://docs.microsoft.com/en-us/azure/vpn-gateway/point-to-site-about#:~:text=A%20Point%2Dto%2DSite%20(,it%20from%20the%20client%20computer.

239. Benefits of Site-to-Site VPN, from https://www.checkpoint.com/cyber-hub/network-security/what-is-a-site-to-site-vpn/#:~:text=Benefits%20of%20Site%2Dto%2DSite%20VPN&text=Secure%20Connectivity%3A%20All%20traffic%20flowing,it%20against%20eavesdropping%20and%20modification.

240. Azure ExpressRoute, from https://azure.microsoft.com/en-in/services/expressroute/#documentation.

241. Tutorial: Configure Bastion and connect to a Windows VM through a browser, from https://docs.microsoft.com/en-us/azure/bastion/tutorial-create-host-portal.

242. What is Azure Bastion?, from https://docs.microsoft.com/en-us/azure/bastion/bastion-overview.

243. Azure Security Best Practices, from https://microsoft.github.io/AzureTipsAndTricks/blog/tip272.html.

244. Best practices to set up networking for workloads migrated to Azure, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/migrate/azure-best-practices/migrate-best-practices-networking.

245. Create, change, or delete a network interface, from https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-network-interface#associate-or-dissociate-a-network-security-group.

246. Create, change, or delete a network security group, from https://docs.microsoft.com/en-us/azure/virtual-network/manage-network-security-group#:~:text=Create%20a%20network%20security%20group&text=On%20the%20Azure%20portal%20menu,then%20select%20Network%20security%20group.&text=Choose%20your%20subscription.&text=Choose%20an%20existing%20resource%20group,create%20a%20new%20resource%20group.

247. Add, change, or delete a virtual network subnet, from https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-manage-subnet#change-subnet-settings.

248. How to create Security Groups in Azure?, from https://aviatrix.com/learn-center/cloud-security/create-network-security-groups-in-azure/.

249. Tutorial: Filter network traffic with a network security group using the Azure portal, from https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-filter-network-traffic.

250. Deploy and configure Azure Firewall using the Azure portal, from https://docs.microsoft.com/en-us/azure/firewall/tutorial-firewall-deploy-portal?WT.mc_id=ES-MVP-4021705#deploy-the-firewall.

251. Deploy and configure Azure Firewall, from https://www.testpreptraining.com/tutorial/deploy-and-configure-azure-firewall/.

252. Azure Firewall FAQ, from https://docs.microsoft.com/en-us/azure/firewall/firewall-faq.

253. Azure Firewall features, from https://docs.microsoft.com/en-us/azure/firewall/features.

254. What is Azure Firewall?, from https://docs.microsoft.com/en-us/azure/firewall/overview.

255. Azure Security Best Practices, from https://microsoft.github.io/AzureTipsAndTricks/blog/tip272.html.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

256. What is Azure Security Center?, from https://docs.microsoft.com/en-us/azure/security-center/security-center-introduction?WT.mc_id=docs-azuredevtips-azureappsdev.

257. Owen, Azure Security Center, And How Do I Use It?, from https://www.otava.com/reference/what-is-azure-security-center-and-how-do-i-use-it/.

258. Quickstart: Set up Azure Security Center, from https://docs.microsoft.com/en-us/azure/security-center/security-center-get-started#enable-security-center-on-your-azure-subscription.

259. Microsoft Azure Security Center, from https://cdn.ttgtmedia.com/rms/pdf/MSazuresec_ch4.pdf.

260. Top 10 Microsoft Azure security best practices, from https://outpost24.com/blog/top-10-microsoft-azure-best-security-practices.

261. ORION WITHROW, Azure Security: Best Practices You Need to Know, from https://cloudacademy.com/blog/azure-security-best-practices-you-need-to-know/.

Module 03 Application Security in Cloud

262. Douglas Madero (April 6, 2020), What Is A Cloud Application?, from https://blog.servermania.com/what-is-a-cloud-application/.

263. Cloud Application, from https://www.sumologic.com/glossary/cloud-application/.

264. What are cloud applications?, from https://www.redhat.com/en/topics/cloud-native-apps/what-are-cloud-applications.

265. Zach Barton (April 18, 2018), What is a Cloud Application?, from https://www.cloudbakers.com/blog/what-is-a-cloud-application.

266. Joel Shore (June 2017), cloud application, from https://searchcloudcomputing.techtarget.com/definition/cloud-application.

267. Katie Fritchen (JULY 16, 2019), WHAT IS CLOUD APPLICATION SECURITY?, from https://managedmethods.com/blog/what-is-cloud-application-security/.

268. Zach Barton (April 18, 2018), What is a Cloud Application?, from https://www.cloudbakers.com/blog/what-is-a-cloud-application.

269. Stephen Watts, Muhammad Raza (June 15, 2019), SaaS vs PaaS vs IaaS: What's The Difference & How To Choose, from https://www.bmc.com/blogs/saas-vs-paas-vs-iaas-whats-the-difference-and-how-to-choose/%E2%80%8B.

270. Stefano Bellasio (April 23, 2019), Migrating to the Cloud? Avoid These Five Pitfalls, from https://www.informationweek.com/migrating-to-the-cloud-avoid-these-five-pitfalls/a/d-id/1334501.

271. Cloud Service Development: Major Pitfalls and How to Avoid Them, from https://skelia.com/articles/cloud-service-development-major-pitfalls-and-how-to-avoid-them/.

272. Sharon Gaudin (18 APRIL 2017), Five pitfalls to avoid when migrating to the cloud, from https://www.computerworld.com/article/3190432/five-pitfalls-to-avoid-when-migrating-to-the-cloud.html.

273. Caroline Boyland, Gartner's List of Common IT Issues (And How to Avoid Them), from https://www.advsyscon.com/blog/gartner-automation-pitfalls/.

274. Justin Boyer (August 27, 2018), 7 COMMON SECURITY PITFALLS TO AVOID WHEN MIGRATING TO THE CLOUD, from https://www.hackerone.com/blog/7-Common-Security-Pitfalls-Avoid-When-Migrating-Cloud.

275. The cloud is here: embrace the transition, from https://www2.deloitte.com/content/dam/Deloitte/ca/Documents/consulting/ca_cloud_pov_EN_doc.PDF.

276. Katie Fritchen (JULY 16, 2019), WHAT IS CLOUD APPLICATION SECURITY?, from https://managedmethods.com/blog/what-is-cloud-application-security/.

277. Duncan Hughes (6th July, 2017), Application security in the cloud: Who is responsible?, from https://cloudcomputing-news.net/news/2017/jul/06/application-security-cloud-who-responsible/.

278. What is application security?, from https://www.vmware.com/topics/glossary/content/application-security.

279. April, 27, Will Cloud Application Security Become the Next AntiVirus?, from https://www.esecuritysolutions.com/why-will-cloud-security-become-the-next-antivirus/.

280. Distributed Computing, from https://www.sciencedirect.com/topics/computer-science/distributed-computing.

281. Michael R. Overly (29 AUGUST 2017), What can my cloud provider do with my data?, from https://www.csoonline.com/article/3217724/what-can-my-cloud-provider-do-with-my-data.html.

282. Kate (Jan 24, 2018), Biggest Cybersecurity Threats: from Within or Outside?, from https://spinbackup.com/blog/cybersecurity-threat-detection-source/.

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All Rights Reserved. Reproduction is Strictly Prohibited.

References

283. Gian Calvesbert (January 23, 2018), Cloud Service Failure: 3 Things to Know, from https://www.air-worldwide.com/blog/posts/2018/1/cloud-service-failure-3-things-to-know/.

284. Stephanie Ellars (August 18, 2018), Controlling and Monitoring Access to Sensitive Data in the Cloud, from https://insidebigdata.com/2018/08/18/controlling-monitoring-access-sensitive-data-cloud/.

285. Maddie Davis (July 25, 2019), 4 Damaging After-Effects of a Data Breach, from https://www.cybintsolutions.com/4-damaging-after-effects-of-a-data-breach/.

286. Data Protection, from https://cloudian.com/guides/data-protection/data-availability/.

287. Amy Nicewick (Jan. 22, 2018), Cloud application security (CCSP Domain 4), from https://www.slideshare.net/AmyNicewick/cloud-application-security-ccsp-domain-4.

288. I.InduaP.M. RubeshAnandaVidhyacharanBhaskar (August 2018,), Identity and access management in cloud environment: Mechanisms and challenges, from https://www.sciencedirect.com/science/article/pii/S2215098617316750.

289. SecaaS Implementation Guidance Category 1 (September, 2012), Identity and Access Management, from https://downloads.cloudsecurityalliance.org/initiatives/secaas/SecaaS_Cat_1_IAM_Implementation_Guidance.pdf.

290. Paul Madsen (FEBRUARY 4, 2016), The Top 6 Authentication Mechanisms, from https://www.pingidentity.com/en/company/blog/posts/2016/the-top-6-authentication-mechanisms.html.

291. S o f t w a r e D e v e l o p m e n t L i f e C y c l e, from https://www.cse.ust.hk/~rossiter/independent_studies_projects/software_development/software_development_report.pdf.

292. Dhanamma SHANKAR Jagli (June 2017), CloudSDLC: Cloud Software Development Life Cycle, from https://www.researchgate.net/publication/317613384_CloudSDLC_Cloud_Software_Development_Life_Cycle.

293. Software Development Life Cycle (SDLC), from https://www.javatpoint.com/software-engineering-software-development-life-cycle.

294. Software Development Life Cycle (SDLC), from https://www.synopsys.com/glossary/what-is-sdlc.html .

295. Synopsys Editorial Team (July 27th, 2020), Secure SDLC 101, from https://www.synopsys.com/blogs/software-security/secure-sdlc/.

296. Ernest Mougoue (Jul. 25, 17), SSDLC 101: What Is the Secure Software Development Life Cycle?, from https://dzone.com/articles/ssdlc-101-what-is-the-secure-software-development.

297. SDLC – Overview, from https://www.tutorialspoint.com/sdlc/sdlc_overview.htm.

298. Alexandra Altvater (APRIL 8, 2020), What Is SDLC? Understand the Software Development Life Cycle, from https://stackify.com/what-is-sdlc/#wpautbox_about .

299. SDLC: Phases & Models of Software Development Life Cycle, from https://www.guru99.com/software-development-life-cycle-tutorial.html.

300. Amy Nicewick (Jan. 22, 2018), Cloud application security (CCSP Domain 4), from https://www.slideshare.net/AmyNicewick/cloud-application-security-ccsp-domain-4.

301. SDLC: Phases & Models of Software Development Life Cycle, from https://www.guru99.com/software-development-life-cycle-tutorial.html.

302. Goran Jevtic (MAY 15, 2019), What is SDLC? Phases of Software Development, Models, & Best Practices, from https://phoenixnap.com/blog/software-development-life-cycle.

303. SDLC – Overview, from https://www.tutorialspoint.com/sdlc/sdlc_overview.htm.

304. What is SDLC?, from https://www.educative.io/edpresso/what-is-sdlc.

305. SDLC – Overview, from https://www.tutorialspoint.com/sdlc/sdlc_overview.htm.

306. SDLC: Phases & Models of Software Development Life Cycle, from https://www.guru99.com/software-development-life-cycle-tutorial.html.

307. SDLC (Software Development Life Cycle) Phases, Process, Models, from https://www.softwaretestinghelp.com/software-development-life-cycle-sdlc/.

308. Ibe Samuel C, Software Development Life Cycle (SDLC), from https://www.academia.edu/19890380/Software_Development_Life_Cycle_SDLC.

309. SDLC (Software Development Life Cycle) Phases, Process, Models, from https://www.softwaretestinghelp.com/software-development-life-cycle-sdlc/.

310. Ali Imam (February 24th, 2021), Software Development Life Cycle: The phases of SDLC, from https://blog.testlodge.com/software-development-life-cycle/#:~:text=In%20the%20planning%20phase%2C%20project,of%20the%20system%20for%20development.

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All Rights Reserved. Reproduction is Strictly Prohibited.

References

311. Unit Testing, from https://softwaretestingfundamentals.com/unit-testing/.

312. Unit Testing Tutorial: What is, Types, Tools & Test EXAMPLE, from https://www.guru99.com/unit-testing-guide.html.

313. Integration Testing, from https://softwaretestingfundamentals.com/integration-testing/.

314. Integration Testing: What is, Types, Top Down & Bottom Up Example, from https://www.guru99.com/integration-testing.html.

315. System Testing, from https://www.tutorialspoint.com/software_testing_dictionary/system_testing.htm.

316. System Testing, from https://softwaretestingfundamentals.com/system-testing/.

317. Acceptance Testing, from https://www.tutorialspoint.com/software_testing_dictionary/acceptance_testing.htm.

318. Acceptance Testing, from https://softwaretestingfundamentals.com/acceptance-testing/.

319. SDLC – Overview, from https://www.tutorialspoint.com/sdlc/sdlc_overview.htm.

320. ALEXANDRA ALTVATER (APRIL 8, 2020), What Is SDLC? Understand the Software Development Life Cycle, from https://stackify.com/what-is-sdlc/.

321. Software Development Life Cycle (SDLC), from https://www.javatpoint.com/software-engineering-software-development-life-cycle.

322. What is SDLC?, from https://www.educative.io/edpresso/what-is-sdlc.

323. GORAN JEVTIC (MAY 15, 2019), What is SDLC? Phases of Software Development, Models, & Best Practices, from https://phoenixnap.com/blog/software-development-life-cycle.

324. SDLC: Phases & Models of Software Development Life Cycle, from https://www.guru99.com/software-development-life-cycle-tutorial.html.

325. AWS WAF - Web Application Firewall, from https://aws.amazon.com/waf/.

326. Managed rules for AWS Web Application Firewall, from https://aws.amazon.com/marketplace/solutions/security/waf-managed-rules.

327. Srikanth K Ballal (October 5, 2020), Web Application Security Best Practices: A Developer's Guide, from https://securityintelligence.com/posts/web-application-security-best-practices-developers-guide/.

328. Information Disclosure Issues and Attacks in Web Applications, from https://www.netsparker.com/blog/web-security/information-disclosure-issues-attacks/.

329. Snyk Security on AWS, from https://aws.amazon.com/quickstart/architecture/snyk-security/.

330. Create a listener for your Network Load Balancer, from https://docs.aws.amazon.com/elasticloadbalancing/latest/network/create-listener.html.

331. Network Load Balancer Now Supports TLS Termination, Jan 24, 2019, from https://aws.amazon.com/about-aws/whats-new/2019/01/network-load-balancer-now-supports-tls-termination/.

332. Linux Bastion Hosts on the AWS Cloud: Quick Start Reference Deployment, from https://docs.aws.amazon.com/quickstart/latest/linux-bastion/welcome.html.

333. AWS Systems Manager Session Manager, from https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html.

334. Jeff Barr (11 SEP 2018), New – AWS Systems Manager Session Manager for Shell Access to EC2 Instances, from https://aws.amazon.com/blogs/aws/new-session-manager/.

335. AWS Systems Manager Session Manager, from https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html.

336. CHANDAN PATRA (MARCH 8, 2016), AWS Config: An Introduction and Walkthrough, from https://cloudacademy.com/blog/aws-config-an-introduction-and-walkthrough/.

337. AWS Config, from https://aws.amazon.com/config/.

338. Getting Started with Amazon GuardDuty, from https://aws.amazon.com/guardduty/getting-started/.

339. Environment Setup, from https://hands-on-guardduty.awssecworkshops.com/setup/.

340. Introduction to Azure security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/overview.

341. Introduction to the App Service Environments, 04/19/2018, from https://docs.microsoft.com/en-us/azure/app-service/environment/intro.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

342. Rob Caron (Oct 13, 2017), Azure Application Service Environments v2: Private PaaS Environments in the Cloud, from https://channel9.msdn.com/Blogs/Azure/Azure-Application-Service-Environments-v2-Private-PaaS-Environments-in-the-Cloud?term=app%20service%20environment.

343. Networking considerations for an App Service Environment, from https://docs.microsoft.com/en-us/azure/app-service/environment/network-info.

344. What is a content delivery network on Azure?, from https://docs.microsoft.com/en-us/azure/cdn/cdn-overview.

345. Prashant Kumbhar (Mar 11, 2020), Azure CDN, from https://www.c-sharpcorner.com/article/azure-cdn2/.

346. What is a CDN, from https://www.imperva.com/learn/performance/what-is-cdn-how-it-works/.

347. Restrict Azure CDN content by country/region, from https://docs.microsoft.com/en-us/azure/cdn/cdn-restrict-access-by-country.

348. Tutorial: Configure HTTPS on an Azure CDN custom domain, from https://docs.microsoft.com/en-us/azure/cdn/cdn-custom-ssl?tabs=option-1-default-enable-https-with-a-cdn-managed-certificate.

349. Diagnostic logs - Azure Content Delivery Network, from https://docs.microsoft.com/en-us/azure/cdn/cdn-azure-diagnostic-logs#consuming-diagnostics-logs-from-azure-storage.

350. Control Azure CDN caching behavior with caching rules, from https://docs.microsoft.com/en-us/azure/cdn/cdn-caching-rules#caching-behavior-settings.

351. Introduction to Azure security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/overview#operations.

352. What is Azure Web Application Firewall on Azure Application Gateway?, from https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/ag-overview.

353. Tutorial: Create an application gateway with a Web Application Firewall using the Azure portal, from https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/application-gateway-web-application-firewall-portal.

354. Azure DDoS Protection Standard overview, from https://docs.microsoft.com/en-us/azure/ddos-protection/ddos-protection-overview.

355. Azure DDoS Protection, from https://tutorialsdojo.com/azure-ddos-protection/.

356. Enable Azure DDoS protection, from https://azurebiztalkread.wordpress.com/2020/01/18/enable-azure-ddos-protection/.

357. Azure Security Center, from https://azure.microsoft.com/en-us/services/security-center/#features.

358. Azure Security Center documentation, from https://docs.microsoft.com/en-us/azure/security-center/.

359. Azure Security Center, from https://azure.microsoft.com/en-us/services/security-center/.

360. Quickstart: Set up Azure Security Center, from https://docs.microsoft.com/en-us/azure/security-center/security-center-get-started.

361. Owen (4.11.19), Azure Security Center, And How Do I Use It?, from https://www.otava.com/reference/what-is-azure-security-center-and-how-do-i-use-it/.

362. Azure Monitor, from https://azure.microsoft.com/en-in/services/monitor/.

363. 11/17/2019, Azure Monitor overview, from https://docs.microsoft.com/en-us/azure/azure-monitor/overview#responding-to-critical-situations.

364. Alexander S. Gillis, Microsoft Azure monitoring tools, from https://searchcloudcomputing.techtarget.com/definition/Microsoft-Azure-monitoring-tools.

365. What is Microsoft Azure Monitor?, from https://www.datashieldprotect.com/blog/microsoft-azure-monitor.

366. 10/18/2018, Azure DDoS Protection - Designing resilient solutions, from https://docs.microsoft.com/en-us/azure/security/fundamentals/ddos-best-practices.

367. 06/17/2019, Security recommendations for App Service, from https://docs.microsoft.com/en-us/azure/app-service/security-recommendations.

368. Key Vault, from https://azure.microsoft.com/en-in/services/key-vault/ .

369. Azure Security Best Practices, from https://microsoft.github.io/AzureTipsAndTricks/blog/tip272.html.

370. April 2019, Security best practices for Azure solutions, from https://azure.microsoft.com/mediahandler/files/resourcefiles/security-best-practices-for-azure-solutions/Azure%20Security%20Best%20Practices.pdf.

371. Ashish Patel, Jul 5, 2019, Azure — Application Security Group (ASG) Overview, from https://medium.com/awesome-azure/azure-application-security-group-asg-1e5e2e5321c3.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

372. Mario Lopez (5 April, 2018), Application Security Groups now generally available in all Azure regions, from https://azure.microsoft.com/en-in/blog/applicationsecuritygroups/.

373. Aidan Finn (Sep 20, 2018), Understanding Application Security Groups in the Azure Portal, from https://petri.com/understanding-application-security-groups-in-the-azure-portal.

374. What is Azure Front Door?, from https://docs.microsoft.com/en-us/azure/frontdoor/front-door-overview.

375. Azure Front Door, from https://azure.microsoft.com/en-in/services/frontdoor/.

376. Quickstart: Create a Front Door for a highly available global web application, from https://docs.microsoft.com/en-us/azure/frontdoor/quickstart-create-front-door.

377. What is Traffic Manager?, from https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview.

378. Traffic Manager, from https://azure.microsoft.com/en-in/services/traffic-manager/.

379. Tutorial: Improve website response using Traffic Manager, from https://docs.microsoft.com/en-us/azure/traffic-manager/tutorial-traffic-manager-improve-website-response.

380. Application Gateway, from https://azure.microsoft.com/en-in/services/application-gateway/.

381. Azure Application Gateway features, from https://docs.microsoft.com/en-us/azure/application-gateway/features.

382. What is Azure Load Balancer?, from https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview.

383. Load Balancer, from https://azure.microsoft.com/en-in/services/load-balancer/.

384. How to Create the Load Balance in Azure, from https://azure4you.com/2017/09/03/how-to-create-the-load-balance-in-azure/.

385. What is Azure Sentinel?, from https://docs.microsoft.com/en-us/azure/sentinel/overview.

386. Microsoft Antimalware for Azure Cloud Services and Virtual Machines, from https://docs.microsoft.com/en-us/azure/security/fundamentals/antimalware.

387. Toni Boger (August 2014), Microsoft Antimalware for Azure, from https://searchwindowsserver.techtarget.com/definition/Microsoft-Antimalware-for-Azure.

388. TerryLanfear (May 24, 2016), Microsoft Antimalware for Azure Cloud Services and Virtual Machines, from https://github.com/uglide/azure-content/blob/master/articles/azure-security-antimalware.md.

389. Microsoft Cloud App Security overview, from https://docs.microsoft.com/en-us/cloud-app-security/what-is-cloud-app-security.

390. Microsoft Cloud App Security, from https://www.microsoft.com/en/security/business/cloud-app-security.

391. Awais Khalid (April 10, 202), 5 Benefits of Microsoft Cloud App Security, from https://www.communicationsquare.com/news/microsoft-cloud-app-security/.

392. YULIYA SHAPTUNOVA (April 30, 2019), Meet Azure Application Insights: A Feature Overview, from https://www.sam-solutions.com/blog/azure-application-insights-overview/.

393. What is Application Insights?, from https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview.

394. Anji Velagana, What is Azure Application Insights?, from https://mindmajix.com/azure-application-insights.

395. Chris Seferlis (August 27 2018), What is Application Insights?, from https://blog.pragmaticworks.com/what-is-application-insights.

396. Anomaly Detector, from https://azure.microsoft.com/en-in/services/cognitive-services/anomaly-detector/.

397. What is the Anomaly Detector API?, from https://docs.microsoft.com/en-us/azure/cognitive-services/anomaly-detector/overview.

398. Cesar Ghali, Adam Stubblefield, Ed Knapp, Jiangtao Li, Benedikt Schmidt, Julien Boeuf, Application Layer Transport Security, from https://cloud.google.com/security/encryption-in-transit/application-layer-transport-security.

399. Google Cloud Armor, from https://cloud.google.com/armor.

400. Set Up Google Cloud Armor to Secure your Website, MARCH 15, 2019, from https://www.cloudbooklet.com/set-up-google-cloud-armor-to-secure-your-website/.

401. Apigee API Management, from https://cloud.google.com/apigee.

402. Enable APIs, from https://cloud.google.com/apigee/docs/hybrid/v1.2/precog-enableapi.

403. Creating App Engine firewall rules, from https://cloud.google.com/appengine/docs/standard/python/creating-firewalls.

404. Overview of App Security, from https://cloud.google.com/appengine/docs/standard/python/application-security.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

405. Overview of Web Security Scanner, from https://cloud.google.com/security-command-center/docs/concepts-web-security-scanner-overview.

406. Setting up custom scans using Web Security Scanner, from https://cloud.google.com/security-command-center/docs/how-to-web-security-scanner-custom-scans.

407. Using Web Security Scanner, from https://cloud.google.com/security-command-center/docs/how-to-use-web-security-scanner.

408. Identity-Aware Proxy, from https://cloud.google.com/iap#section-3.

409. Quickstart: Manage access with Google Accounts, from https://cloud.google.com/iap/docs/app-engine-quickstart.

410. Cloud Endpoints Quickstart, from https://cloud.google.com/endpoints/docs/quickstart-endpoints#deploying_the_endpoints_configuration.

411. Cloud Endpoints, from https://cloud.google.com/endpoints.

412. Secret Manager, from https://cloud.google.com/secret-manager.

413. Quickstart, from https://cloud.google.com/secret-manager/docs/quickstart.

414. Accessing the API, from https://cloud.google.com/secret-manager/docs/accessing-the-api.

415. Best Practices for DDoS Protection and Mitigation on Google Cloud Platform, April 12th, 2016, from https://cloud.google.com/files/GCPDDoSprotection-04122016.pdf .

416. Best practices, from https://cloud.google.com/security-command-center/docs/concepts-web-security-scanner-overview#best_practices.

417. Overview of App Security, from https://cloud.google.com/appengine/docs/standard/python/application-security.

418. Secret Manager, from https://cloud.google.com/secret-manager.

419. Introducing Google Cloud's Secret Manager, from https://cloud.google.com/blog/products/identity-security/introducing-google-clouds-secret-manager.

420. Setting up a simple external HTTP load balancer, from https://cloud.google.com/load-balancing/docs/https/ext-http-lb-simple.

421. Samuel James (August 13, 2020), Learn: Load Balancing on Google Cloud Platform, from https://iamondemand.com/blog/learn-load-balancing-on-google-cloud-platform/.

422. External HTTP(S) Load Balancing overview, from https://cloud.google.com/load-balancing/docs/https.

423. Internal HTTP(S) Load Balancing overview, from https://cloud.google.com/load-balancing/docs/l7-internal.

424. Setting up Internal HTTP(S) Load Balancing, from https://cloud.google.com/load-balancing/docs/l7-internal/setting-up-l7-internal.

425. Setting up TCP Proxy Load Balancing, from https://cloud.google.com/load-balancing/docs/tcp/setting-up-tcp.

426. Architecture, from https://cloud.google.com/load-balancing/docs/tcp#components .

427. External TCP/UDP Network Load Balancing overview, from https://cloud.google.com/load-balancing/docs/network.

428. Setting up a network load balancer with a backend service, from https://cloud.google.com/load-balancing/docs/network/setting-up-network-backend-service.

429. TCP Proxy Load Balancing overview, from https://cloud.google.com/load-balancing/docs/tcp.

430. Setting up TCP Proxy Load Balancing, from https://cloud.google.com/load-balancing/docs/tcp/setting-up-tcp.

431. External TCP/UDP Network Load Balancing overview, from https://cloud.google.com/load-balancing/docs/network.

432. Setting up a network load balancer with a backend service, from https://cloud.google.com/load-balancing/docs/network/setting-up-network-backend-service.

433. Internal TCP/UDP Load Balancing overview, from https://cloud.google.com/load-balancing/docs/internal.

434. Setting up Internal TCP/UDP Load Balancing, from https://cloud.google.com/load-balancing/docs/internal/setting-up-internal.

435. SSL Proxy Load Balancing overview, from https://cloud.google.com/load-balancing/docs/ssl.

436. Setting up SSL Proxy Load Balancing, from https://cloud.google.com/load-balancing/docs/ssl/setting-up-ssl.

437. Cloud Logging, from https://cloud.google.com/logging.

438. Logs Explorer overview, from https://cloud.google.com/logging/docs/view/logs-viewer-preview.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

References

439. Using the Logs Explorer, from https://cloud.google.com/logging/docs/view/logs-viewer-interface .

440. Cloud Monitoring, from https://cloud.google.com/monitoring.

441. Cloud Monitoring documentation, from https://cloud.google.com/monitoring/docs.

442. Quickstart for monitoring a Compute Engine instance, from https://cloud.google.com/monitoring/quickstart-lamp#install_quickstart_agents.

443. Cloud Trace, from https://cloud.google.com/trace.

444. Cloud Trace documentation, from https://cloud.google.com/trace/docs.

445. Cloud Trace Quickstart, from https://cloud.google.com/trace/docs/quickstart.

446. Cloud Debugger, from https://cloud.google.com/debugger.

447. Cloud Debugger documentation, from https://cloud.google.com/debugger/docs.

448. Setting Up Cloud Debugger for Python, from https://cloud.google.com/debugger/docs/setup/python.

449. Cloud Profiler, from https://cloud.google.com/profiler.

450. Cloud Profiler documentation, from https://cloud.google.com/profiler/docs.

451. Quickstart: Exploring Profiler, from https://cloud.google.com/profiler/docs/quickstart.

452. Tools, from https://www.google.com/about/appsecurity/tools/.

453. Paul Bakaus (July 24, 2020), Security Panel Debuts in Chrome DevTools, from https://developers.google.com/web/updates/2015/12/security-panel.

454. Postmaster Tools API overview, from https://developers.google.com/gmail/postmaster.

455. Honggfuzz, from https://honggfuzz.dev/.

456. Nsjail, from https://nsjail.dev/.

457. Skipfish, from https://code.google.com/archive/p/skipfish/.

458. VSAQ, from https://github.com/google/vsaq.

hide01.ir

Module 04 Data Security in Cloud

459. Fibre Channel frame, from https://en.wikipedia.org/wiki/Fibre_Channel_frame.

460. Fibre Channel Interface, from https://www.seagate.com/staticfiles/support/disc/manuals/Interface%20manuals/100293070a.pdf.

461. Fibre Channel (FC) – 2, from http://www.idc-online.com/technical_references/pdfs/information_technology/Fibre_channel_fc_2.pdf.

462. Weber (December 2003), FC Frame Encapsulation, from https://datatracker.ietf.org/doc/html/rfc3643.

463. Subramanyan Anand (06 Dec, 2019), Components of Storage Area Network (SAN), from https://www.geeksforgeeks.org/components-of-storage-area-network-san/.

464. Anil K Y Ommi, 4.2 Fibre Channel (FC) SAN Components, from https://www.mycloudwiki.com/san/fc-san-components/.

465. Anil K Y Ommi, 4.4 Introduction to Fibre Channel (FC) SAN Architecture and port virtualization, from https://www.mycloudwiki.com/san/fc-san-architecture/.

466. Fibre Channel Storage area Network, from http://www.jbiet.edu.in/coursefiles/cse/HO/cse4/SAN4.pdf.

467. Secure system and method for SAN management in a non-trusted server environment, from https://patents.google.com/patent/CN1714537A/en.

468. Stephen J. Bigelow, What is a SAN? Ultimate storage area network guide, from https://searchstorage.techtarget.com/definition/storage-area-network-SAN.

469. Difference between Information and Data, from https://www.guru99.com/difference-information-data.html.

470. SHUBHAMSINGH10 (07 Jul, 2020), Difference between Information and Data, from https://www.geeksforgeeks.org/difference-between-information-and-data/.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

References

471. Devin Pickell (November 16, 2018), Structured vs Unstructured Data – What's the Difference?, from https://www.g2.com/articles/structured-vs-unstructured-data.

472. James Alan Miller, direct-attached storage (DAS), from https://searchstorage.techtarget.com/definition/direct-attached-storage.

473. John Paulsen, NAS vs. SAN vs. DAS: Which Is Right for You?, from https://blog.seagate.com/business/nas-vs-san-vs-das-which-is-right-for-you/.

474. March 18, 2019, What is Data Storage? Data Storage Types & Attributes, from https://www.cdw.com/content/cdw/en/articles/datacenter/2019/03/18/what-is-data-storage.html.

475. Michael Price (23 Jan 2020), Different Data Storage Types: Which is Right for Your Business?, from https://www.datacenters.com/news/different-data-storage-types-which-is-right-for-your-business.

476. Siobhan Climer (March 26, 2019), Cloud Storage Vs Local Storage: What's The Right Choice For You?, from https://gomindsight.com/insights/blog/cloud-storage-vs-local-storage-whats-right-for-you/.

477. What is Remote Data Storage?, from https://www.bsimplify.com/what-is-remote-data-storage/.

478. February 13, 2020, What is Shared Storage and What are the Benefits?, from https://www.lumaforge.com/blog/what-is-shared-storage-and-what-are-the-benefits.

479. Remote Storage, from https://www.sciencedirect.com/topics/computer-science/remote-storage.

480. Carol Sliwa (January 2015), IP SAN (Internet Protocol storage area network), from https://searchstorage.techtarget.com/definition/IP-SAN-Internet-Protocol-storage-area-network.

481. Anil K Y Ommi, 5.1 Introduction to IP SAN and their components, from https://www.mycloudwiki.com/san/ipsan-overview/.

482. Fiber Channel Storage Area Network (FC SAN), from https://www.techopedia.com/definition/1081/fiber-channel-storage-area-network-fc-san.

483. Anil K Y Ommi, 4.4 Introduction to Fibre Channel (FC) SAN Architecture and port virtualization, from https://www.mycloudwiki.com/san/fc-san-architecture/.

484. July 20, 2018, Things You Should Know about IP SAN vs FC SAN, from http://www.chinacablesbuy.com/things-about-ip-san-vs-fc-san.html.

485. Brien Posey (September 2020), FCoE (Fibre Channel over Ethernet), from https://searchstorage.techtarget.com/definition/FCoE-Fibre-Channel-over-Ethernet.

486. Fibre Channel over Ethernet, from https://en.wikipedia.org/wiki/Fibre_Channel_over_Ethernet.

487. Garry Kranz (July 2019), network-attached storage (NAS), from https://searchstorage.techtarget.com/definition/network-attached-storage.

488. Network-attached storage, from https://en.wikipedia.org/wiki/Network-attached_storage.

489. What is NAS (Network Attached Storage) and Why is NAS Important for Small Businesses?, from https://www.seagate.com/in/en/tech-insights/what-is-nas-master-ti/.

490. Hard disk drive performance characteristics, from https://en.wikipedia.org/wiki/Hard_disk_drive_performance_characteristics.

491. What Does Seek Time Mean?, from https://www.techopedia.com/definition/3558/seek-time.

492. Dinesh Thakur, What is Seek Time?, from https://ecomputernotes.com/fundamental/terms/seek-time.

493. Tim Fisher (March 29, 2021), What Does a Hard Drive's Seek Time Mean?, from https://www.lifewire.com/what-does-seek-time-mean-2626007.

494. STORAGE AREA NETWORK, from https://hrms.secab.org/resource/352_15CS754_STORAGE_AREA_NETWORK(Module_1).pdf.

495. Anil K Y Ommi, 2.6 What are Intelligent Storage Systems ?, from https://www.mycloudwiki.com/san/intelligent-storage-systems/.

496. Explain the components of Intelligent Storage System, from https://www.ques10.com/p/2538/explain-the-components-of-intelligent-storage-syst/.

497. Caching, from https://whatis.techtarget.com/definition/caching.

498. What is Caching?, from https://aws.amazon.com/caching/.

499. Caching Out – A Guide to Cloud Storage, from https://www.webselect.net/blog/cloud-storage-guide.

500. Cloud Data Management: A Foundational Understanding, from https://www.talend.com/resources/what-is-cloud-data-management/.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

References

501. Brien Posey (June 2021), cloud data management, from https://searchstorage.techtarget.com/definition/cloud-data-management.

502. Cloud Data Management, from https://www.komprise.com/glossary_terms/cloud-data-management/.

503. Cloud Storage Device Performance Monitor, from https://patterns.arcitura.com/cloud-computing-patterns/mechanisms/cloud_storage_device_performance_monitor.

504. Cloud Storage Data Placement Auditor, from https://patterns.arcitura.com/cloud-computing-patterns/mechanisms/cloud_storage_data_placement_auditor.

505. Cloud Storage Gateway, from https://www.komprise.com/glossary_terms/cloud-storage-gateway/.

506. Import and Export, from https://patterns.arcitura.com/cloud-computing-patterns/mechanisms/import_and_export.

507. LUN Masking, from https://patterns.arcitura.com/cloud-computing-patterns/mechanisms/lun_masking.

508. RAID-level Identifier, from https://patterns.arcitura.com/cloud-computing-patterns/mechanisms/raid_level_identifier.

509. Storage Path Masking, from https://patterns.arcitura.com/cloud-computing-patterns/mechanisms/storage_path_masking.

510. Carol Sliwa (January 2015), IP SAN (Internet Protocol storage area network), from https://searchstorage.techtarget.com/definition/IP-SAN-Internet-Protocol-storage-area-network.

511. Anil K Y Ommi, 5.1 Introduction to IP SAN and their components, from https://www.mycloudwiki.com/san/ipsan-overview/.

512. Fibre Channel Protocol, from https://www.sciencedirect.com/topics/computer-science/fibre-channel-protocol.

513. Storage Technology Definitions, from https://searchstorage.techtarget.com/definitions.

514. Dave Raffo (December 2019), iSCSI (Internet Small Computer System Interface), from https://searchstorage.techtarget.com/definition/iSCSI.

515. Christine Taylor (May 23, 2019), What Is iSCSI and How Does It Work?, from https://www.enterprisestorageforum.com/hardware/what-is-iscsi-and-how-does-it-work/.

516. iSCSI, from https://en.wikipedia.org/wiki/ISCSI.

517. Adam Gordon, The Official (ISC)2 Guide to the CCSP CBK, from https://www.pdfdrive.com/the-official-isc2-guide-to-the-ccsp-cbk-e33733680.html.

518. Anonymization, from https://www.imperva.com/learn/data-security/anonymization/.

519. Data Anonymization, from https://corporatefinanceinstitute.com/resources/knowledge/other/data-anonymization/.

520. Data Loss Prevention (DLP), from https://www.imperva.com/learn/data-security/data-loss-prevention-dlp/.

521. Cloud Storage on AWS, from https://aws.amazon.com/products/storage/.

522. MICHAEL SHEEHY (APRIL 22, 2015), Amazon Storage Options, from https://cloudacademy.com/blog/amazon-storage-options/.

523. David Carty (July 2017), Amazon EFS (Elastic File System), from https://searchaws.techtarget.com/definition/Amazon-EFS-Elastic-File-System.

524. What is Amazon Elastic File System?, from https://docs.aws.amazon.com/efs/latest/ug/whatisefs.html.

525. Amazon Elastic File System, from https://www.amazonaws.cn/en/efs/.

526. AWS Storage Services Overview AWS Whitepaper, from https://docs.aws.amazon.com/whitepapers/latest/aws-storage-services-overview/aws-storage-services-overview.pdf.

527. When to Choose Amazon EFS, from https://aws.amazon.com/efs/when-to-choose-efs/.

528. Gopal (July 2nd, 2020), Amazon Elastic File System (EFS): An Overview, from https://www.vembu.com/blog/amazon-elastic-file-system-overview/.

529. How to use AWS Elastic File System to Finally Migrate your Web Applications to the Cloud, from https://www.concurrencylabs.com/blog/elastic-file-system-for-web-applications/.

530. Amazon Elastic File System, from https://aws.amazon.com/efs/.

531. Amazon Elastic File System: Choosing between the different Performance & Throughput Modes, from https://d1.awsstatic.com/whitepapers/Storage/amazon_efs_choosing_between_different_performance_and_throughput.pdf.

532. AWS Storage Services Overview AWS Whitepaper, from https://docs.aws.amazon.com/whitepapers/latest/aws-storage-services-overview/aws-storage-services-overview.pdf.

533. Amazon EC2 instance store, from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/InstanceStorage.html.

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All Rights Reserved. Reproduction is Strictly Prohibited.

534. Gali Kovacs (May 24, 2017), AWS Instance Store Volumes & Backing Up Ephemeral Storage to AWS EBS, from https://cloud.netapp.com/blog/backing-up-ephemeral-storage-to-aws-ebs.

535. Amazon EC2 Instance Storage, from https://docs.aws.amazon.com/whitepapers/latest/aws-storage-services-overview/amazon-ec2-instance-storage.html.

536. 27 Jul, 2020, from https://www.geeksforgeeks.org/what-is-aws-ec2-instance-storage/.

537. AWS Storage Services Overview AWS Whitepaper, from https://docs.aws.amazon.com/whitepapers/latest/aws-storage-services-overview/aws-storage-services-overview.pdf.

538. What Is an AWS Snowball Device?, from https://docs.aws.amazon.com/snowball/latest/ug/whatissnowball.html.

539. AWS Snowball, from https://aws.amazon.com/snowball/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whats-new-cards.sort-order=desc.

540. Snowball, from https://www.javatpoint.com/aws-snowball.

541. AWS Storage Services Overview AWS Whitepaper, from https://docs.aws.amazon.com/whitepapers/latest/aws-storage-services-overview/aws-storage-services-overview.pdf.

542. Amazon CloudFront, from https://aws.amazon.com/cloudfront/.

543. Amazon Web Services – CloudFront, from https://www.tutorialspoint.com/amazon_web_services/amazon_web_services_cloudfront.htm.

544. What is Amazon CloudFront?, from https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/Introduction.html.

545. Amazon CloudFront, from https://www.amazonaws.cn/en/cloudfront/.

546. Amazon CloudFront Key Features, from https://www.amazonaws.cn/en/cloudfront/features/.

547. Google Cloud Storage, from https://en.wikipedia.org/wiki/Google_Cloud_Storage.

548. Margaret Jones (July 2017), Google Cloud Storage, from https://searchstorage.techtarget.com/definition/Google-Cloud-Storage.

549. Google Cloud Storage: Node.js Client, from https://googleapis.dev/nodejs/storage/latest/.

550. What is Cloud Storage?, from https://cloud.google.com/storage/docs/introduction.

551. Bucket naming guidelines, from https://cloud.google.com/storage/docs/naming-buckets.

552. Key terms, from https://cloud.google.com/storage/docs/key-terms.

553. Jenny Brown (Aug 13, 2019), Basics and Terminology for Google Cloud Storage, from https://jbrojbrojbro.medium.com/basics-and-terminology-for-google-cloud-storage-30953c1d0f1d.

554. Object naming guidelines, from https://cloud.google.com/storage/docs/naming-objects.

555. gsutil tool, from https://cloud.google.com/storage/docs/gsutil.

556. What is Cloud Storage?, from https://cloud.google.com/storage/docs/introduction.

557. Cloud Storage Client Libraries, from https://cloud.google.com/storage/docs/reference/libraries.

558. Client Libraries Explained, from https://cloud.google.com/apis/docs/client-libraries-explained.

559. Cloud Storage JSON API overview, from https://cloud.google.com/storage/docs/json_api.

560. Alexander S. Gillis (September 2020), REST API (RESTful API) from https://searchapparchitecture.techtarget.com/definition/RESTful-API.

561. XML API overview, from https://cloud.google.com/storage/docs/xml-api/overview.

562. Cloud Storage authentication, from https://cloud.google.com/storage/docs/authentication.

563. What is Cloud Storage?, from https://cloud.google.com/storage/docs/introduction.

564. Using and locking retention policies, from https://cloud.google.com/storage/docs/using-bucket-lock.

565. Melisha Dsouza (October 24, 2018), Google Cloud Storage Security gets an upgrade with Bucket Lock, Cloud KMS keys and more, from https://hub.packtpub.com/google-cloud-storage-security-gets-an-upgrade-with-bucket-lock-cloud-kms-keys-and-more/.

566. What is Cloud Storage?, from https://cloud.google.com/storage/docs/introduction.

567. Identity and Access Management, from https://cloud.google.com/storage/docs/access-control/iam.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

568. Overview, from https://cloud.google.com/storage/docs/access-control/iam#overview.

569. September 8, 2020, Storage Options in Google Cloud: Block, Network File, and Object Storage, from https://cloud.netapp.com/blog/object-storage-block-and-shared-file-storage-in-google-cloud.

570. Google Cloud Platform, from https://en.wikipedia.org/wiki/Google_Cloud_Platform.

571. Use BYOK for Storage Account Encryption, from https://www.cloudconformity.com/knowledge-base/azure/StorageAccounts/storage-accounts-encrypted-with-byok.html#.

572. 02/16/2021, Configure encryption with customer-managed keys stored in Azure Key Vault, from https://docs.microsoft.com/en-us/azure/storage/common/customer-managed-keys-configure-key-vault?tabs=portal.

573. 10/26/2020, Monitoring Azure Queue Storage, from https://docs.microsoft.com/en-us/azure/storage/queues/monitor-queue-storage?tabs=azure-portal.

574. Enable Logging for Azure Storage Queue Service, from https://www.cloudconformity.com/knowledge-base/azure/StorageAccounts/storage-logging-for-queue-service.html.

575. 03/05/2021, Soft delete for containers, from https://docs.microsoft.com/en-us/azure/storage/blobs/soft-delete-container-overview?tabs=powershell.

576. 05/07/2021, Lock resources to prevent unexpected changes, from https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources?tabs=json.

Module 05 Security Operations in Cloud

577. What Does Cloud Operations Mean?, from https://www.techopedia.com/definition/30472/cloud-operations.

578. Cloud Computing Operations, from https://www.tutorialspoint.com/cloud_computing/cloud_computing_operation.htm.

579. Cloud Computing Operations, from https://www.tutorialride.com/cloud-computing/cloud-computing-operations.htm.

580. Learn Cloud Operations – Management, Benefits of Operations, from https://data-flair.training/blogs/cloud-operations-tutorial/.

581. Prabh Nair, CCSP DOMAIN 5 Cloud Security Operations Exam Prep, from CCSP DOMAIN 5 Cloud Security Operations Exam Prep - YouTube.

582. Kerry Matre & John Caimano, ELEMENTS OF SECURITY OPERATIONS, from https://www.threatscape.com/wp-content/uploads/2020/03/elmosocpdxx.pdf.

583. Cloud operations functions, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/organize/cloud-operations.

584. What is cloud operations?, from https://www.quora.com/What-is-cloud-operations.

585. Mike Danseglio, Defining Availability Requirements for Cloud Computing, Jul 18, 2012, from https://petri.com/availability-requirements-for-cloud-computing#:~:text=Availability%20in%20this%20context%20is,about%20five%20minutes%20per%20year.

586. What Is Security Management in the Cloud?, from https://www.checkpoint.com/cyber-hub/network-security/what-is-security-management-in-the-cloud/.

587. James Cusick, Considerations for Cloud Security Operations, January 2016, from https://www.researchgate.net/publication/291830975_Considerations_for_Cloud_Security_Operations/link/56a6d0bc08ae860e0253d0ac/download.

588. Sivaselvan N., Confidentiality Issues in Cloud Computing and Countermeasures: A Survey, March 2016, from https://www.researchgate.net/publication/305689086_Confidentiality_Issues_in_Cloud_Computing_and_Countermeasures_A_Survey#:~:text=In%20cloud%20computing%2C%20user's%20data,be%20accessed%20through%20Internet%20connection.&text=Confidentiality%20refers%20to%20the%20prevention,permission%20can%20access%20the%20data.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

589. Chris Christou & Brad Beaulieu, 5 Strategies to Secure Cloud Operations Against Today's Cyber Threats, from https://www.darkreading.com/cloud/5-strategies-to-secure-cloud-operations-against-todays-cyber-threats/a/d-id/1337033.

590. NCTA Cloud Operations (NCTA-CO), from https://www.flane.de/en/course-outline/logicaloperations-ncta-co.

591. Paresh Solanki, 10 Biggest Cloud Computing Challenges in 2021 for IT Service Providers, from https://www.mindinventory.com/blog/cloud-computing-challenges/.

592. Munesh Jadoun, Top 5 cloud computing challenges for service providers in 2020 and tips to overcome them, from https://www.racknap.com/blog/top-challenges-of-cloud-service-providers/.

593. 7 Unique Challenges of Cloud Computing – Get Tricks to Solve, from https://data-flair.training/blogs/challenges-of-cloud-computing/.

594. Ray Parker , 6 Major Challenges of Cloud Computing, October 26, 2017, from https://www.techwell.com/techwell-insights/2017/10/6-major-challenges-cloud-computing.

595. John Burke, 3 steps to prepare IT operations for multi-cloud, from https://searchcloudsecurity.techtarget.com/tip/3-steps-to-prepare-IT-operations-for-multi-cloud.

596. CCSP (ISC)2 Certified Cloud Security Professional Official Study Guide, from https://www.pdfdrive.com/ccsp-isc2-certified-cloud-security-professional-official-study-guide-e194699289.html.

597. Narendra Sahoo, Cloud computing architecture security part 1: Physical and intrinsic controls, from https://www.computerweekly.com/tip/Cloud-computing-architecture-security-part-1-Physical-and-intrinsic-controls.

598. Ernest Sampera, What to Know About Logical Security vs Physical Security, from https://www.vxchnge.com/blog/logical-security-vs-physical-security.

599. Maintaining 99.9% Uptime in the Cloud: Reliability, Security, Monitoring & Recovery, from https://www.intelliwavetechnologies.com/maintaining-99-9-uptime-in-the-cloud-reliability-security-monitoring-and-recovery/#:~:text=To%20rely%20on%20cloud%20services,of%20downtime%20in%20a%20year.

600. David Bianco, 10 ways to prevent computer security threats from insiders, 05 Jul 2012, from https://searchsecurity.techtarget.com/feature/Ten-ways-to-prevent-insider-security-threats.

601. By Sarah Wilson, cloud controller, from https://searchstorage.techtarget.com/definition/cloud-controller#:~:text=A%20cloud%20controller%20is%20a,premises%20storage%20to%20cloud%20storage.&text=Most%20of%20the%20data%20held,is%20moved%20to%20the%20cloud.

602. The Official (ISC)2 Guide to the CCSP CBK, 2016, from https://www.pdfdrive.com/the-official-isc2-guide-to-the-ccsp-cbk-e33733680.html.

603. Ccsp Certified Cloud Security Professional All-In-One Exam Guide, 2016, from https://www.pdfdrive.com/ccsp-certified-cloud-security-professional-all-in-one-exam-guide-e187711469.html.

604. Virtualization Management Software, from https://www.solarwinds.com/virtualization-manager/use-cases/virtualization-management-software.

605. Virtualization Management Tools, from https://www.trustradius.com/virtualization-management.

606. What is virtualization management?, from https://www.redhat.com/en/topics/virtualization/what-is-virtualization-management.

607. Renaud Larue-Langlois, 10 Best Virtualization Management Tools and Software, Dec 6, 2018, from https://www.addictivetips.com/net-admin/virtualization-management/.

608. Virtualization Management Tools, from https://www.itcentralstation.com/categories/virtualization-management-tools.

609. Alexey Odintsov, CCSP, from https://www.mindmeister.com/836836283/ccsp?fullscreen=1.

610. Virtualization Manager, from https://www.solarwinds.com/virtualization-manager.

611. SolarWinds Virtualization Manager Features, from https://www.solarwinds.com/virtualization-manager/use-cases.

612. Evaluate VMs using the Sprawl dashboard, from https://documentation.solarwinds.com/en/Success_Center/VMAN/Content/VMAN-GSG-Sprawl-Dashboard.htm.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

613. How to install VMware Tools, from https://kb.vmware.com/s/article/1014294.

614. Overview of VMware Tools, from https://kb.vmware.com/s/article/340#:~:text=VMware%20Tools%20is%20a%20suite,guest%20performance%20lacks%20important%20functionality.

615. Install VMware Tools in Windows, from https://geek-university.com/vmware-player/install-vmware-tools-in-windows/.

616. CCSP Official, 2018, from https://www.pdfdrive.com/ccsp-official-e176456281.html.

617. Security guidance for remote desktop adoption, from https://www.microsoft.com/security/blog/2020/04/16/security-guidance-remote-desktop-adoption/.

618. Tom Olzak, VLAN network segmentation and security- chapter five, from https://resources.infosecinstitute.com/topic/vlan-network-chapter-5/.

619. Brad Casey, How to configure a VLAN to achieve the benefits of VLAN security, from https://searchsecurity.techtarget.com/tip/How-to-configure-a-VLAN-to-achieve-the-benefits-of-VLAN-security.

620. Jesus Vigo, How to segment virtual machine network traffic by using VLANs in Hyper-V, November 20, 2017, from https://www.techrepublic.com/article/pro-tip-segmenting-virtual-machine-network-traffic-by-using-vlans-in-hyper-v/#:~:text=In%20the%20Virtual%20Machines%20section,use%20to%20manage%20traffic%20through.

621. Jessie Reed, A How-To Guide on Setting Up Hyper-V VLANs, from https://www.nakivo.com/blog/guide-setting-hyper-v-vlans/.

622. Michael M., How to Deploy VLANs with VMware ESXi 6.5, from https://support.us.ovhcloud.com/hc/en-us/articles/360002411530-How-to-Deploy-VLANs-with-VMware-ESXi-6-5.

623. Configuring TLS for an application in Azure, from https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-configure-ssl-certificate-portal#modify.

624. Cloudbeaver Technologies, Binding SSL Certificate to Azure Web App, Jun 1, 2018, from https://www.youtube.com/watch?v=N-G2wCu2cOs.

625. End-to-end HTTPS with Cloudflare - Part 1: conceptual overview, from https://support.cloudflare.com/hc/en-us/articles/360024787372-End-to-end-HTTPS-with-Cloudflare-Part-1-conceptual-overview.

626. Configuring TLS for an application in Azure, from https://docs.microsoft.com/en-us/azure/cloud-services/cloud-services-configure-ssl-certificate-portal.

627. Andrew Froehlich, Transport Layer Security (TLS), from https://searchsecurity.techtarget.com/definition/Transport-Layer-Security-TLS.

628. TLS Basics, from https://www.internetsociety.org/deploy360/tls/basics/.

629. Transport Layer Security (TLS), from https://www.geeksforgeeks.org/transport-layer-security-tls/.

630. Josh Fruhlinger, What is SSL, TLS? And how this encryption protocol works, 5 DECEMBER 2018, from https://www.csoonline.com/article/3246212/what-is-ssl-tls-and-how-this-encryption-protocol-works.html.

631. Jesin A, How To Setup DNSSEC on an Authoritative BIND DNS Server, March 19, 2014, from https://www.digitalocean.com/community/tutorials/how-to-setup-dnssec-on-an-authoritative-bind-dns-server-2.

632. What is DNS? DNS Explained, from https://ns1.com/resources/what-is-dns.

633. What is DNS? | How DNS works, from https://www.cloudflare.com/learning/dns/what-is-dns/.

634. Christopher Makarem, How DNSSEC Works, Nov 24, 2018, from https://medium.com/iocscan/how-dnssec-works-9c652257be0.

635. Thomas Shinder MCSE, 10 things you should know about securing DNS, September 12, 2005, from https://www.techrepublic.com/article/10-things-you-should-know-about-securing-dns/.

636. Domain Name System Security Extensions, from https://en.wikipedia.org/wiki/Domain_Name_System_Security_Extensions#:~:text=The%20Domain%20Name%20System%20Security,Internet%20Protocol%20(IP)%20networks.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

637. DNSSEC, from https://www.verisign.com/en_US/domain-names/dnssec/how-dnssec-works/index.xhtml.

638. What are some of the benefits of DNSSEC?, from https://thenew.org/faqs/what-are-some-of-the-benefits-of-dnssec/.

639. Michael Mullins CCNA, Lock down DNS with these tips, September 21, 2006, from https://www.techrepublic.com/article/lock-down-dns-with-these-tips/.

640. Using DNS Sinkhole Feature To Block DNS Queries, from https://www.sonicwall.com/support/knowledge-base/using-dns-sinkhole-feature-to-block-dns-queries/200426101616227/.

641. DNS Server - how to deny zone transfers, from https://www.ibm.com/support/pages/dns-server-how-deny-zone-transfers.

642. ERIC NORIEGA, DHCP: Cloud Orchestration's Best Friend, from https://blog.vizuri.com/dhcp-cloud-orchestration-automation.

643. DHCP options sets for your VPC, from https://docs.aws.amazon.com/vpc/latest/userguide/VPC_DHCP_Options.html.

644. How to set DHCP Options Set via AWS SDK, from https://stackoverflow.com/questions/52474387/how-to-set-dhcp-options-set-via-aws-sdk.

645. AWS VPC DHCP Option Sets #16, from https://www.youtube.com/watch?v=8baEgVuoquY.

646. Alibaba Clouder, How to Set up a DHCP Server on a Linux Virtual Machine, from https://www.alibabacloud.com/blog/how-to-set-up-a-dhcp-server-on-a-linux-virtual-machine_595821 .

647. What is IPsec? | How IPsec VPNs work, from https://www.cloudflare.com/learning/network-layer/what-is-ipsec/.

648. By John Thomas and Adam J. Elbirt, University of Massachusetts, Lowell, How IPsec works, why we need it, and its biggest drawbacks, 6 JANUARY 2004, from https://www.csoonline.com/article/2117067/data-protection-ipsec.html.

649. Fortinet Fortigate VPN Client 2FA / MFA, from https://www.miniorange.com/two-factor-authentication-for-fortinet.

650. Windows security baselines, from https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-security-baselines.

651. Security Baselines and Operating System, Network and Application Hardening, from https://www.techotopia.com/index.php/Security_Baselines_and_Operating_System,_Network_and_Application_Hardening#Operating_System_Hardening.

652. Baseline Configuration of Operating Systems: Definition & Examples, from https://study.com/academy/lesson/baseline-configuration-of-operating-systems-definition-examples.html.

653. Run Best Practices Analyzer Scans and Manage Scan Results, from https://docs.microsoft.com/en-us/windows-server/administration/server-manager/run-best-practices-analyzer-scans-and-manage-scan-results.

654. Brandon McGruder, How to use Best Practices Analyzer, Apr 19, 2016, from https://medium.com/tech-jobs-academy/how-to-use-best-practices-analyzer-ce9716e61907.

655. Deploy a Windows 10 image using MDT, from https://docs.microsoft.com/en-us/windows/deployment/deploy-windows-mdt/deploy-a-windows-10-image-using-mdt.

656. Deploy Windows 10 updates using Windows Server Update Services (WSUS), from https://docs.microsoft.com/en-us/windows/deployment/update/waas-manage-updates-wsus.

657. What is Microsoft Baseline Security Analyzer and its uses?, from https://docs.microsoft.com/en-us/windows/security/threat-protection/mbsa-removal-and-guidance.

658. Help using the Microsoft Baseline Security Analyzer (MBSA), from https://www.technology.pitt.edu/help-desk/how-to-documents/help-using-microsoft-baseline-security-analyzer-mbsa.

659. Baseline Configuration Standard (Linux), from https://security.uconn.edu/baseline-configuration-standard-linux/.

660. Jason Fenech, How to patch ESXi with Update Manager, from https://www.altaro.com/vmware/how-to-patch-esxi-with-update-manager/.

661. Updating an ESXi/ESX host using VMware vCenter Update Manager 4.x, 5.x and 6.x (1019545), from https://kb.vmware.com/s/article/1019545.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

662. Mayur Parmar, How to Attach Baseline to the ESXi Host in VMware Update Manager, from https://masteringvmware.com/how-to-attach-baseline-to-the-esxi-host-in-vmware-update-manager/.

663. 88.What's the Difference Between Fault Tolerance and High-Availability, from https://www.serversaustralia.com.au/resources/blog/whats-the-difference-between-fault-tolerance-and-high-availability/#:~:text=One%20key%20difference%20is%20that,as%20much%20of%20a%20priority.

664. Ali Marashi, What Is Fault Tolerance and Why It Differs From High Availability, from https://www.vxchnge.com/blog/fault-tolerance-vs-high-availability.

665. Four Steps to Achieving High Availability in the Cloud, May 9, 2012, from https://www.flexera.com/blog/cloud/four-steps-to-achieving-high-availability-in-the-cloud/.

666. Pavan Belagatti, 7 Tips to Achieve High-Availability(HA) For Your Maven Repository, from https://dzone.com/articles/7-tips-to-achieve-high-availabilityha-for-your-mav-1.

667. Kubernetes cluster, from https://cloud.ibm.com/kubernetes/catalog/about.

668. Add high availability to a cloud-native application, from https://www.ibm.com/cloud/architecture/tutorials/tutorial_cloudnative_ha?task=8.

669. Securing remote access for cloud-based systems, 20 Sep 2018, from https://searchcloudsecurity.techtarget.com/tip/Securing-remote-access-for-cloud-based-systems.

670. What is the Remote Desktop Protocol (RDP)?, from https://www.cloudflare.com/learning/access-management/what-is-the-remote-desktop-protocol/.

671. The basics of Remote Desktop Services: How it works, 23 Mar 2010, from https://searchvirtualdesktop.techtarget.com/tutorial/The-basics-of-Remote-Desktop-Services-How-it-works.

672. Securing Remote Desktop (RDP) for System Administrators, from https://security.berkeley.edu/education-awareness/best-practices-how-tos/system-application-security/securing-remote-desktop-rdp.

673. Secure Shell (SSH), from https://searchsecurity.techtarget.com/definition/Secure-Shell.

674. SSH Protocol – Secure Remote Login and File Transfer, from https://www.ssh.com/ssh/protocol/.

675. 4..3 Connecting to the Cloud Server via SSH, from https://kb.arubacloud.com/en/computing/access-to-cloud-servers/connecting-to-the-cloud-server-service-via-ssh.aspx.

676. Secure Shell Protocol, from https://en.wikipedia.org/wiki/SSH_(Secure_Shell).

677. Scott Mitchell, Advantages of SSH, from https://www.inmotionhosting.com/support/server/ssh/ssh-advantages/.

678. Dejan Lukan, How to strengthen SSH security in the cloud, 23 Feb 2015, from https://searchcloudsecurity.techtarget.com/tip/How-to-strengthen-SSH-security-in-the-cloud.

679. Windows, Mac, Linux and Third-Party Software Updates from the Cloud, from https://www.syxsense.com/what-is-cloud-patch-management/.

680. Zach DeMeyer, What is Cloud Patch Management?, from https://jumpcloud.com/blog/cloud-patch-management.

681. Patch management automation for enterprise cloud, April 2012, from https://www.researchgate.net/profile/Salman_Baset/publication/254036482_Patch_management_automation_for_enterprise_cloud/links/54a98bb30cf2eecc56e6c4f0/Patch-management-automation-for-enterprise-cloud.pdf.

682. Patch Management Process Showing Scan The Network, https://www.slideteam.net/patch-management-process-showing-scan-the-network.html.

683. DEEP FREEZE CLOUD, from https://www.faronics.com/en-uk/deep-freeze-on-cloud.

684. WHAT IS CLOUD PATCH MANAGEMENT?, from https://www.syxsense.com/what-is-cloud-patch-management/.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

685. Keith Townsend, A Journey Through Hybrid.

686. IT and the Cloud, from https://www.solarwinds.com/-/media/solarwinds/swresources/ebook/1707_cloud_hybrid-it-ebook.ashx.

687. Cloud Performance Monitoring, from https://www.techopedia.com/definition/30562/cloud-performance-monitoring.

688. Defense-in-Depth, from https://www.imperva.com/learn/application-security/defense-in-depth/.

689. What is Defense in Depth?, from https://www.forcepoint.com/cyber-edu/defense-depth.

690. What is a cloud firewall? | Firewall-as-a-Service, from https://www.cloudflare.com/learning/cloud/what-is-a-cloud-firewall/.

691. What are Cloud Firewalls?, from https://www.barracuda.com/glossary/cloud-firewall#:~:text=Cloud%20Firewalls%20are%20software%2Dbased,sit%20within%20online%20application%20environments.

692. What is a Firewall?, from https://www.forcepoint.com/cyber-edu/firewall.

693. Why You Need Both a Hardware and Software Firewall, from https://www.securitymetrics.com/blog/why-you-need-both-hardware-and-software-firewall#:~:text=The%20difference%20between%20hardware%20and,physical%20firewall%20will%20block%20them.

694. Benefits of having Intrusion Prevention/Detection System in your enterprise, February 2018, from https://www.seqrite.com/blog/benefits-of-having-intrusion-preventiondetection-system-in-your-enterprise/#:~:text=By%20using%20the%20signature%20database,organize%20and%20implement%20effective%20controls.

695. Christine Meyers, The Benefits of a Host-Based IDS for Cloud Environments, from https://www.lacework.com/benefits-host-based-ids-cloud/.

696. Intrusion Detection Systems (IDS), from https://itcloudnet.blogspot.com/2019/04/intrusion-detection-systems-ids.html.

697. Teri Radichel, IDS and IPS in the Cloud, from https://medium.com/cloud-security/ids-and-ips-in-the-cloud-f07aac110d31.

698. Frank Siemons, The benefits of using a cloud honeypot for threat intelligence, 19 Dec 2018, from https://searchcloudsecurity.techtarget.com/tip/The-benefits-of-using-a-cloud-honeypot-for-threat-intelligence.

699. Frank Siemons, Honeypots in the Cloud, November 30, 2018, from https://resources.infosecinstitute.com/topic/honeypots-in-the-cloud/#:~:text=A%20honeypot%20is%20like%20a,apparently%20waiting%20to%20be%20exploited.

700. Mark Dargin, , NETWORK DESIGN SPOTLIGHT, OCT 24, 2017, from https://www.networkworld.com/article/3234692/increase-your-network-security-deploy-a-honeypot.html.

701. Linda Rosencrance, vulnerability assessment (vulnerability analysis), from https://searchsecurity.techtarget.com/definition/vulnerability-assessment-vulnerability-analysis.

702. Vulnerability Assessment, from https://www.imperva.com/learn/application-security/vulnerability-assessment/.

703. Narayan Annamalai, Network Security Groups, 4 November, 2014, from https://azure.microsoft.com/en-in/blog/network-security-groups/#:~:text=Network%20Security%20Groups%20provide%20control,rule%20updates%20across%20multiple%20VMs.

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All Rights Reserved. Reproduction is Strictly Prohibited.

704. Lavanya Rathnam, AZURE NETWORK SECURITY GROUPS: AN OVERVIEW, JULY 27, 2017, from http://techgenix.com/azure-network-security-groups/.

705. Thomas Thornton, Microsoft Azure: NSGs & ASGs Simplified, 25 October 2018, from https://www.kainos.com/microsoft-azure-nsgs-asgs-simplified/.

706. Alan R. Earls, cloud orchestration (cloud orchestrator), December 2017, from https://searchitoperations.techtarget.com/definition/cloud-orchestrator.

707. Mohammad Masdari, Sima ValiKardan, Zahra Shahi, Sonay ImaniAzar, Towards workflow scheduling in cloud computing: A comprehensive analysis, from https://www.sciencedirect.com/science/article/abs/pii/S108480451600045X#:~:text=Workflow%20scheduling%20is%20one%20of,as%20deadline%20and%20budget%20constraints.

708. Workflow Scheduling Issues and Techniques in Cloud Computing: A Systematic Literature Review, from https://www.researchgate.net/publication/326672386_Workflow_Scheduling_Issues_and_Techniques_in_Cloud_Computing_A_Systematic_Literature_Review.

709. Domain 6: Management Plane and Business Continuity, 28 Apr 2017, from https://github.com/cloudsecurityalliance/CSA-Guidance/blob/master/Domain%206-%20Management%20Plane%20and%20Business%20Continuity.md.

710. ITIL®4 Management Practices, from https://www.knowledgehut.com/tutorials/itil4-tutorial/itil-management-practices-processes.

711. ITIL - IT service management, from https://www.axelos.com/best-practice-solutions/itil.

712. Ramesh Thimmaiah, How to manage Change Management process in Cloud, 02 November 2017, from https://www.mindtree.com/blog/how-manage-change-management-process-cloud.

713. ITIL CSI - Continual Service Improvement, from https://wiki.en.it-processmaps.com/index.php/ITIL_CSI_-_Continual_Service_Improvement.

714. Stephen J. Bigelow, continual service improvement, from https://searchitoperations.techtarget.com/definition/continual-service-improvement.

715. What is ITIL® incident management?, from https://www.manageengine.com/products/service-desk/itil-incident-management/what-is-itil-incident-management.html.

716. Problem management for reliable online services, from https://novacontext.com/problem-management-for-reliable-online-services/index.html.

717. problem-management-for-reliable-online-services, from http://download.microsoft.com/download/a/b/1/ab17a6ec-3cd6-4c6b-b5ab-12a4d0dd9c1b/problem-management-for-reliable-online-services.pdf.

718. Derrick Rountree, Ileana Castrillo, Operating a Cloud, 2014, from https://www.sciencedirect.com/topics/computer-science/release-management#:~:text=Release%20management%20for%20a%20cloud,and%20reliably%20rolled%20into%20production.

719. IT Release Management in ServiceDesk Plus, from https://www.manageengine.com/products/service-desk/itil-release-management/release-management-cloud.html.

720. Ayan Brahmachary, ITIL Release and Deployment Management | ITIL Foundation | ITSM, February 19, 2018, from https://www.certguidance.com/release-deployment-management-itil-itsm/.

721. Shancang Li, Deployment Management, 2017, from https://www.sciencedirect.com/topics/computer-science/deployment-management.

722. Joseph Mathenge, Jon Stevens-Hall, ITIL 4 Management Practices, from https://www.bmc.com/blogs/itil-management-practices/.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

723. The ITIL 4 deployment management practice, from https://www.symphonysummit.com/products/the-itil-4-deployment-management-practice/.

724. ITIL 4 and Cloud: The Service Configuration Management Practice, from https://www.symphonysummit.com/products/itil-4-and-cloud-the-service-configuration-management-practice/.

725. Rick Sturm, ... Julie Craig, Service-Level Management, 2017, from https://www.sciencedirect.com/topics/computer-science/service-level-management.

726. The ITIL 4 availability management practice, from https://www.symphonysummit.com/products/the-itil-4-availability-management-practice/.

727. Cloud Capacity Management, Jul. 10, 2018, from https://dzone.com/refcardz/cloud-capacity-management?chapter=1.

728. Chris Tozzi, The importance of cloud capacity management and how to do it, from https://searchcloudcomputing.techtarget.com/feature/The-importance-of-cloud-capacity-management-and-how-to-do-it.

729. Thankaraja Raja Sree and Somasundaram Mary Saira Bhanu, Data Collection Techniques for Forensic Investigation in Cloud, from https://www.intechopen.com/books/digital-forensic-science/data-collection-techniques-for-forensic-investigation-in-cloud.

730. https://cdn.intechopen.com/pdfs/64377.pdf.

731. anupriti, Cloud-forensics, Jul. 13, 2013, from https://www.slideshare.net/anupriti/cloudforensics.

732. A survey on cloud for ensics challenges and solutions, 8 November 2016 , from https://onlinelibrary.wiley.com/doi/full/10.1002/sec.1688#:~:text=Identification%20is%20the%20first%20stage,and%20data)%20has%20been%20used.

733. Jason Sachowski, DIGITAL EVIDENCE MANAGEMENT, from https://read.nxtbook.com/wordsmith/evidence_technology/spring_2019/digital_evidence_management.html.

734. Lucia De Marco, M-Tahar Kechadi, and Filomena Ferrucci, Cloud Forensic Readiness: Foundations, from https://eudl.eu/pdf/10.1007/978-3-319-14289-0_16#:~:text=Digital%20Forensic%20Readiness%20focuses%20on,use%20in%20digital%20crime%20investigations.

735. Alexey Odintsov, CCSP, from https://www.mindmeister.com/836836283/ccsp?fullscreen=1.

736. Branimir Valentic, Who are the stakeholders and what is their importance in ITIL-based IT Service Management?, May 31, 2016, from https://advisera.com/20000academy/blog/2016/05/31/who-are-the-stakeholders-and-what-is-their-importance-in-itil-based-it-service-management/.

737. CCSP For Dummies, from https://www.allitebooks.in/ccsp-for-dummies/.

738. Name: ccsp-dummies-online-practice, from https://www3.zippyshare.com/v/godlTeOi/file.html.

739. Deane, CCSP For Dummies with Online Practice, from https://books.google.co.in/books?id=AIH4DwAAQBAJ&pg=PR12&lpg=PR12&dq=Vendors,+Customers,+Partners,+Regulators,+Other+Stakeholders+in+cloud+governance&source=bl&ots=Ud2wNYUwaH&sig=ACfU3U0koLo4Fm480VwxMfhG8QRuKXDiRw&hl=en&sa=X&ved=2ahUKEwiU_7vVu5PvAhWCwzgGHVNECMcQ6AEwB3oECAQQAw#v=onepage&q=Vendors%2C%20Customers%2C%20Partners%2C%20Regulators%2C%20Other%20Stakeholders%20in%20cloud%20governance&f=false.

740. Change management to mitigate risks, from https://freshservice.com/it-service-management/change-management.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

741. Getting Started with Changes, from https://support.freshservice.com/support/solutions/articles/50000000655-getting-started-with-changes.

742. Top 10 Change Management Software Solutions In 2021, from https://www.softwaretestinghelp.com/change-management-software/.

743. Gokul Suresh, 15 Change Management Tools To Effectively Manage Organizational Change, from https://whatfix.com/blog/change-management-tools/.

744. Andy Mura, Top Change Management Software Solutions: An In-Depth Overview, 2018, from https://www.userlane.com/change-management-software/.

745. Moira Alexander, The top 7 change management tools, from https://www.cio.com/article/3284925/the-top-5-change-management-tools.html.

746. Smarter IT Solutions for Your Modern Digital Workplace, from https://www.sunviewsoftware.com/products.

747. Compare Incident Management Software, from https://www.g2.com/categories/incident-management?order=g2_score&page=1#product-list.

748. Configure Environments, from https://octopus.com/docs/getting-started/first-deployment/configure-environments.

749. Create a Project, from https://octopus.com/docs/getting-started/first-deployment/create-projects.

750. Defining the deployment process, from https://octopus.com/docs/getting-started/first-deployment/define-the-deployment-process.

751. Create and Deploy a Release, from https://octopus.com/docs/getting-started/first-deployment/create-and-deploy-a-release.

752. Define and use variables, from https://octopus.com/docs/getting-started/first-deployment/define-and-use-variables.

753. Approvals with Manual Interventions, from https://octopus.com/docs/getting-started/first-deployment/approvals-with-manual-interventions.

754. Add deployment targets, from https://octopus.com/docs/getting-started/first-deployment/add-deployment-targets.

755. Deploy a sample package, from https://octopus.com/docs/getting-started/first-deployment/deploy-a-package.

756. ALEXANDRA ALTVATER, Top Software Deployment Tools: 25 Useful Tools to Streamline Software Delivery, SEPTEMBER 22, 2017, from https://stackify.com/software-deployment-tools/.

757. Set up Automated Patch Management With IT Automation, from https://support.atera.com/hc/en-us/articles/360001801568-Set-up-Automated-Patch-Management-With-IT-Automation.

758. TIM KEARY, 13 Best Patch Management Software & Tools for 2021, from https://www.comparitech.com/net-admin/best-patch-management-software-tools/.

759. Janne Ruostemaa, Managing firewall, from https://upcloud.com/community/tutorials/managing-firewall/.

760. McAfee Network Security Platform 9.2.x Product Guide, from https://docs.mcafee.com/bundle/network-security-platform-9.2.x-product-guide/page/GUID-BFE41DC3-96FA-4D3C-B900-7FF58B4A8009.html.

761. Add an IPS policy, from https://docs.mcafee.com/bundle/network-security-platform-9.2.x-product-guide/page/GUID-23AF2228-1402-42A4-A97D-5F32A5A1DC49.html.

762. McAfee Network Security Platform, from https://www.mcafee.com/enterprise/en-us/products/network-security-platform.html.

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All Rights Reserved. Reproduction is Strictly Prohibited.

763. How To: Run Your First Vulnerability Scan with Nessus, from https://www.tenable.com/blog/how-to-run-your-first-vulnerability-scan-with-nessus.

764. 4 RELIABLE VULNERABILITY ASSESSMENT TOOLS TO PROTECT YOUR SECURITY INFRASTRUCTURE, from https://blog.eccouncil.org/4-reliable-vulnerability-assessment-tools-to-protect-your-security-infrastructure/.

765. Perform network intrusion detection with Network Watcher and open source tools, from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-intrusion-detection-open-source-tools.

766. Azure Operational Security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-security#azure-monitor.

767. Azure Monitor, from https://azure.microsoft.com/en-in/services/monitor/#features.

768. Azure Monitor overview, from https://docs.microsoft.com/en-us/azure/azure-monitor/overview.

769. Azure Security Centre, from https://azure.microsoft.com/en-in/services/security-center/#features.

770. Secure score in Azure Security Center, from https://docs.microsoft.com/en-us/azure/security-center/secure-score-security-controls#get-your-secure-score-from-the-portal.

771. Azure Operational Security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-security#azure-security-center.

772. What is Azure Security Center?, from https://docs.microsoft.com/en-us/azure/security-center/security-center-introduction.

773. Azure Operational Security, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-security#azure-network-watcher.

774. Network Watcher, from https://azure.microsoft.com/en-in/services/network-watcher/.

775. What is Azure Network Watcher?, from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview.

776. What is Microsoft Azure Storage Analytics?, from https://www.datashieldprotect.com/blog/microsoft-azure-storage-analytics.

777. Azure Operational Security, 11/21/2017, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-security#azure-storage-analytics.

778. Enable and manage Azure Storage Analytics logs (classic), from https://docs.microsoft.com/en-us/azure/storage/common/manage-storage-analytics-logs?tabs=azure-portal.

779. Azure Active Directory, from https://azure.microsoft.com/en-us/services/active-directory/.

780. Azure Active Directory, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-security#azure-active-directory.

781. Which features work in Azure AD?, from https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-whatis#which-features-work-in-azure-ad.

782. An introduction to Azure Automation, 10/18/2018, from https://docs.microsoft.com/en-us/azure/automation/automation-intro.

783. Automation, from https://azure.microsoft.com/en-in/services/automation/.

784. Azure Operational Security best practices, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-best-practices#define-and-deploy-strong-operational-security-practices.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

785. Azure operational security checklist, 11/21/2017, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-checklist.

786. Robyn Hicock, Microsoft Password Guidance, from https://www.microsoft.com/en-us/research/wp-content/uploads/2016/06/Microsoft_Password_Guidance-1.pdf. .

787. Configure complexity requirements for passwords in Azure Active Directory B2C, from https://docs.microsoft.com/en-us/azure/active-directory-b2c/password-complexity?pivots=b2c-user-flow#configure-password-complexity.

788. SEAN DEUBY, Microsoft upends traditional password recommendations with significant new guidance, July 11, 2016, from https://www.semperis.com/blog/microsoft-upends-traditional-password-recommendations-with-significant-new-guidance/.

789. Azure AD Password Protection, from https://download.manageengine.com/products/self-service-password/azure-ad-password-protection.pdf.

790. Jente Vandijck, The Azure AD Password Policy, from https://azurescene.com/2020/04/01/azure-ad-password-policy/.

791. Mark Brezicky, Azure AD Password Protection Password Evaluation, from https://blog.enablingtechcorp.com/azure-ad-password-protection-password-evaluation.

792. How To: Configure the Azure AD Multi-Factor Authentication registration policy, from https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-identity-protection-configure-mfa-policy.

793. Rony Ghosh, Eliminate Weak Passwords Using Azure AD and EM+S, Dec 12, 2018, from https://www.experteq.com/eliminate-weak-passwords-using-azure-ad-and-ems/.

794. Enable sign-in risk policy for MFA, from https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-risk-based-sspr-mfa#enable-sign-in-risk-policy-for-mfa.

795. How To: Investigate risk, from https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-identity-protection-investigate-risk.

796. What is Identity Protection?, from https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/overview-identity-protection.

797. Azure Scene, from https://azurescene.com/2020/03/29/how-to-enable-azure-ad-identity-protection/.

798. Shawn Tabrizi, Get notified when Azure service incidents impact your resources, 27 November, 2017, from https://azure.microsoft.com/en-in/blog/get-notified-when-azure-service-incidents-impact-your-resources/.

799. Stephen Baron, Three ways to get notified about Azure service issues, 13 June, 2019, from https://azure.microsoft.com/en-in/blog/three-ways-to-get-notified-about-azure-service-issues/.

800. Prevent, detect, and respond to threats, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-best-practices#prevent-detect-and-respond-to-threats.

801. Quickstart: Create a management group, from https://docs.microsoft.com/en-us/azure/governance/management-groups/create-management-group-portal.

802. Tutorial: Create an environment from a blueprint sample, from https://docs.microsoft.com/en-us/azure/governance/blueprints/tutorials/create-from-sample.

803. Ashvith Bangera, Azure Blueprints - Create an environment from a blueprint sample, March 7, 2019, from https://www.linkedin.com/pulse/azure-blueprints-create-environment-from-blueprint-sample-bangera.

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All Rights Reserved. Reproduction is Strictly Prohibited.

804. Monitor storage services for unexpected changes in behavior, 05/06/2019, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-best-practices#monitor-storage-services-for-unexpected-changes-in-behavior.

805. Enable and manage Azure Storage Analytics logs, from https://docs.microsoft.com/en-us/azure/storage/common/manage-storage-analytics-logs?tabs=azure-portal#configure-monitoring-for-a-storage-account.

806. What is Azure Sentinel?, from https://docs.microsoft.com/en-us/azure/sentinel/overview.

807. Quickstart: On-board Azure Sentinel, from https://docs.microsoft.com/en-us/azure/sentinel/quickstart-onboard.

808. Connect data sources, from https://docs.microsoft.com/en-us/azure/sentinel/connect-data-sources.

809. Review your security recommendations, from https://docs.microsoft.com/en-us/azure/security-center/security-center-recommendations.

810. Connect Azure Defender alert data from Azure Security Center, from https://docs.microsoft.com/en-us/azure/sentinel/connect-azure-security-center.

811. Connect data from Azure Activity log, from https://docs.microsoft.com/en-us/azure/sentinel/connect-azure-activity.

812. Protect your endpoints with Security Center's integrated EDR solution: Microsoft Defender for Endpoint, from https://docs.microsoft.com/en-us/azure/security-center/security-center-wdatp#enabling-the-microsoft-defender-for-endpoint-integration.

813. Enable NSG flow log, 04/30/2018, from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-portal#enable-nsg-flow-log.

814. Manage packet captures with Azure Network Watcher using the portal, from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-packet-capture-manage-portal.

815. Tutorial: Diagnose a communication problem between networks using the Azure portal, from https://docs.microsoft.com/en-us/azure/network-watcher/diagnose-communication-problem-between-networks.

816. How to – Troubleshoot your Azure Virtual Network Gateway, AUGUST 12, 2019, from https://wedoazure.ie/2019/08/12/how-to-troubleshoot-your-azure-virtual-network-gateway/.

817. Connect to Azure DevOps, 12/07/2018, from https://docs.microsoft.com/en-us/previous-versions/azure/devops/test/load-test/getting-started-with-performance-testing?view=azure-devops#connect-to-azure-devops.

818. Enable agent-based monitoring, from https://docs.microsoft.com/en-us/azure/azure-monitor/app/azure-web-apps?tabs=net#enable-agent-based-monitoring.

819. Secure deployment by using proven DevOps tools, 05/06/2019, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-best-practices#secure-deployment-by-using-proven-devops-tools.

820. Change the number of role instances, 03/21/2017, from https://docs.microsoft.com/en-us/visualstudio/azure/vs-azure-tools-configure-roles-for-cloud-service?view=vs-2019#change-the-number-of-role-instances.

821. Create virtual machines, from https://docs.microsoft.com/en-us/azure/virtual-network/tutorial-filter-network-traffic#create-virtual-machines.

822. Quickstart: Create a policy assignment to identify non-compliant resources, from https://docs.microsoft.com/en-us/azure/governance/policy/assign-policy-portal.

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823. Remediate non-compliant resources with Azure Policy, from https://docs.microsoft.com/en-us/azure/governance/policy/how-to/remediate-resources.

824. Policy rule, from https://docs.microsoft.com/en-us/azure/governance/policy/concepts/definition-structure#policy-rule.

825. Portal, from https://docs.microsoft.com/en-us/azure/governance/policy/how-to/get-compliance-data#portal.

826. Azure Operational Security best practices, 05/06/2019, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-best-practices.

827. Risk detection and remediation, from https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/overview-identity-protection#risk-detection-and-remediation.

828. Prashanth Jayaram, Getting started with Azure Automation, from https://www.sqlshack.com/getting-started-with-azure-automation/.

829. The-Best-Practices-for-Cloud-Security-Operations-on-AWS, from https://allcloud.io/wp-content/uploads/2019/07/The-Best-Practices-for-Cloud-Security-Operations-on-AWS.pdf.

830. Security Engineering on AWS (AWS-SEC-ENG) Training, from https://www.learningtree.com/courses/1696/security-operations-on-aws/.

831. Amazon Web Services: Overview of Security Processes, from https://d0.awsstatic.com/whitepapers/Security/AWS_Security_Whitepaper.pdf.

832. Kiran Kuppa, Maitreya Ranganath, Securing AWS Leverage AWS security best practices to reduce your risk, from http://files.informatandm.com/uploads/2018/10/Securing_AWS_KiranKuppa_MaitreyaRanganath.pdf.

833. Tzoori Tamam, AWS Security and Compliance An Overview, from https://www.slideshare.net/AmazonWebServices/introduction-to-aws-security-131234529.

834. Fundamentals of AWS Security, from https://www.slideshare.net/AmazonWebServices/fundamentals-of-aws-security.

835. William Reid, AWS Security, Identity, and Compliance An Overview, 2018, from https://www.slideshare.net/AmazonWebServices/introduction-to-aws-security-101930514.

836. Fatima Ahmed, AWS Security Fundamentals, 2017, from https://www.slideshare.net/AmazonWebServices/aws-security-fundamentals-79024249. .

837. Understanding AWS security operations - Amazon Web Services Tutorial, from https://www.linkedin.com/learning/aws-administration-security-operations/understanding-aws-security-operations?trk=lynda_redirect_learning.

838. AWS Systems Manager Explorer, from https://docs.aws.amazon.com/systems-manager/latest/userguide/Explorer.html.

839. What are the features of OpsCenter? , from https://docs.aws.amazon.com/systems-manager/latest/userguide/OpsCenter.html#OpsCenter-learn-more-features.

840. Martin Beeby, OpsCenter – A New Feature to Streamline IT Operations, 01 JUL 2019, from https://aws.amazon.com/blogs/aws/opscenter-a-new-feature-to-streamline-it-operations/.

841. Amazon CloudWatch dashboards hosted by Systems Manager, from https://docs.aws.amazon.com/systems-manager/latest/userguide/systems-manager-cloudwatch-dashboards.html.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

842. Trusted Advisor and Personal Health Dashboards hosted by Systems Manager, from https://docs.aws.amazon.com/systems-manager/latest/userguide/systems-manager-trusted-advisor-and-phd.html.

843. AWS Trusted Advisor, from https://aws.amazon.com/premiumsupport/technology/trusted-advisor/.

844. Jeff Barr, AWS Trusted Advisor For Everyone, 31 JUL 2014, from https://aws.amazon.com/blogs/aws/trusted-advisor-console-basic/.

845. What are the features of Explorer?, from https://docs.aws.amazon.com/systems-manager/latest/userguide/Explorer.html#Explorer-learn-more-features.

846. Getting started with the AWS Personal Health Dashboard, from https://docs.aws.amazon.com/health/latest/ug/getting-started-phd.html.

847. AWS CloudTrail features, from https://aws.amazon.com/cloudtrail/features/.

848. AWS CloudTrail, from https://aws.amazon.com/cloudtrail/.

849. Tara Walker, New – Amazon Web Services Extends CloudTrail to All AWS Customers, 14 AUG 2017, from https://aws.amazon.com/blogs/aws/new-amazon-web-services-extends-cloudtrail-to-all-aws-customers/.

850. AWS Config, from https://aws.amazon.com/config/.

851. AWS Config features, from https://aws.amazon.com/config/features/.

852. ERIC SHANKS, Use AWS Config Managed Rules to Protect Your Accounts, November 27, 2017, from https://theithollow.com/2017/11/27/use-aws-config-managed-rules-protect-accounts/.

853. Carl Durrant, Using AWS Config for Security and Governance: Part 2, from https://avocado.com.au/resources/tech-tips/using-aws-config-security-governance-part-2/.

854. Amazon GuardDuty, from https://aws.amazon.com/guardduty/.

855. Amazon GuardDuty Features, from https://aws.amazon.com/guardduty/features/.

856. Identify threats with Amazon GuardDuty, from https://blog.checkpoint.com/2018/10/01/automatic-remediation-for-amazon-guardduty-with-dome9-cloudbots/.

857. Amazon Inspector, from https://aws.amazon.com/inspector/.

858. Amazon Inspector and CloudTrail: a Holistic Approach to Security and Compliance Requirements, from https://n2ws.com/blog/aws-cloud-security-compliance/amazon-inspector-cloudtrail.

859. AWS Security Hub, from https://aws.amazon.com/security-hub/?aws-security-hub-blogs.sort-by=item.additionalFields.createdDate&aws-security-hub-blogs.sort-order=desc.

860. AWS Security Hub features, from https://aws.amazon.com/security-hub/features/.

861. Mark Nunnikhoven, Putting AWS Security Services to Work For You, 14 MAR 2019, from https://aws.amazon.com/blogs/aws/aws-heroes-putting-aws-security-services-to-work-for-you/.

862. Ketan Srivastava, Nine AWS Security Hub best practices, 23 AUG 2019, from https://aws.amazon.com/blogs/security/nine-aws-security-hub-best-practices/.

863. AWS CloudFormation Features, from https://aws.amazon.com/cloudformation/features/.

864. AWS CloudTrail, from https://aws.amazon.com/cloudtrail/.

865. Sadequl Hussain, What is AWS CloudTrail?, July 10, 2019, from https://www.sumologic.com/blog/what-is-aws-cloudtrail/.

866. Viewing Events with CloudTrail Event History, from https://docs.aws.amazon.com/awscloudtrail/latest/userguide/view-cloudtrail-events.html.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

867. Simplify your AWS Account Audit using AWS CloudTrail, from https://www.axcess.io/blogs/enabling-aws-cloudtrail/.

868. AWS Config, from https://aws.amazon.com/config/.

869. CHANDAN PATRA, AWS Config: An Introduction and Walkthrough, MARCH 8, 2016, from https://cloudacademy.com/blog/aws-config-an-introduction-and-walkthrough/.

870. Evaluating Your Resources, from https://docs.aws.amazon.com/config/latest/developerguide/evaluating-your-resources.html.

871. Amazon CloudWatch, from https://aws.amazon.com/cloudwatch/.

872. Archana Choudary, Amazon CloudWatch – A Monitoring Tool By Amazon, May 31,2021, from https://www.edureka.co/blog/amazon-cloudwatch-monitoring-tool/.

873. Amazon GuardDuty, from https://aws.amazon.com/guardduty/.

874. Monitoring GuardDuty Findings with Amazon CloudWatch Events, from https://tutorialsdojo.com/monitoring-guardduty-findings-with-amazon-cloudwatch-events/.

875. Creating a CloudWatch Events rule to notify you of GuardDuty findings (console), from https://docs.aws.amazon.com/guardduty/latest/ug/guardduty_findings_cloudwatch.html#guardduty_cloudwatch_severity_notification.

876. Getting started with GuardDuty, from https://docs.aws.amazon.com/guardduty/latest/ug/guardduty_settingup.html.

877. VPC Flow Logs, from https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs.html.

878. Sumo Logic, What is VPC Flow Logging?, May 9, 2019, from https://www.sumologic.com/insight/aws-vpc/.

879. Sumo Logic, How to Use AWS VPC Flow Logs, May 13, 2019, from https://www.sumologic.com/insight/use-aws-vpc-flow-logs/.

880. Katherine Martin, AWS CloudFormation (Amazon Web Services CloudFormation), September 2014, from https://searchaws.techtarget.com/definition/AWS-CloudFormation-Amazon-Web-Services-CloudFormation.

881. Jeff Barr, Use CloudFormation StackSets to Provision Resources Across Multiple AWS Accounts and Regions, 25 JUL 2017, from https://aws.amazon.com/blogs/aws/use-cloudformation-stacksets-to-provision-resources-across-multiple-aws-accounts-and-regions/.

882. AWS CloudFormation Features, from https://aws.amazon.com/cloudformation/features/.

883. AWS CloudFormation: Concepts, Templates, and Use Case, May 26, 2021, from https://www.simplilearn.com/tutorials/aws-tutorial/aws-cloudformation.

884. Muhammad Ali, AWS CloudFormation — Getting Started for Beginners, Sep. 21, 18, from https://dzone.com/articles/aws-cloudformation-getting-started-for-beginners.

885. Security analytics and operations, from https://cloud.google.com/solutions/security-analytics-and-operations#section-1.

886. Chronicle Detect, from https://go.chronicle.security/hubfs/Chronicle%20Detect%20Datasheet%20.pdf.

887. Cassidy Trowbridge, from https://www.datashieldprotect.com/blog/google-virustotal.

888. Security Command Center conceptual overview, from https://cloud.google.com/security-command-center/docs/concepts-security-command-center-overview.

889. Security Command Center, from https://cloud.google.com/security-command-center.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
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890. Cloud Monitoring, from https://cloud.google.com/monitoring#section-2.

891. How to Get Started with Google Cloud Monitoring, Feb 19, 2015, from https://www.youtube.com/watch?v=gUW9Ewno2eE.

892. Overview of Cloud Identity, from https://cloud.google.com/identity/docs/overview.

893. Editions, from https://cloud.google.com/identity/docs/editions.

894. Enforce and monitor password requirements for users, from https://support.google.com/cloudidentity/answer/139399.

895. Automated user provisioning and deprovisioning, from https://support.google.com/cloudidentity/topic/7661972.

896. User reports: Security, from https://support.google.com/cloudidentity/answer/6000269.

897. User reports: Accounts, from https://support.google.com/cloudidentity/answer/4580176.

898. Robert Kossatz, Federating GCP with Azure AD, August 2, 2019, from https://endocode.com/blog/2019/08/02/2019-08-02azuregcp/.

899. Google Cloud's operations suite, from https://cloud.google.com/products/operations.

900. Google Cloud operations suite documentation, from https://cloud.google.com/stackdriver/docs.

901. Johanes Glenn, Operation Suite GCP (Part1)— Monitoring Logging and Error Reporting, from https://faun.pub/operation-suite-gcp-part1-monitoring-logging-and-error-reporting-8946365463c4.

902. Prithish.G, Scan vulnerabilities by Cloud Security Scanner : Google Cloud Platform, from https://medium.com/@prithishghosh/how-to-start-cloud-security-scanner-google-cloud-platform-e51c81ab12cb.

903. Using VPC Flow Logs, from https://cloud.google.com/vpc/docs/using-flow-logs#enabling_vpc_flow_logging.

904. FastNetMon and Google Compute GCE VPC Flow logs, from https://fastnetmon.com/docs-fnm-advanced/fastnetmon-and-google-compute-gce-vpc-flow-logs/.

905. Using Firewall Rules Logging, from https://cloud.google.com/vpc/docs/using-firewall-rules-logging.

906. Finding incidents, from https://cloud.google.com/monitoring/alerts/incidents-events#viewing.

907. Cloud Monitoring, from https://cloud.google.com/monitoring.

908. Using the Security Command Center dashboard, from https://cloud.google.com/security-command-center/docs/how-to-use-security-command-center#dashboard_access.

909. Security Command Center, from https://cloud.google.com/security-command-center.

h1ck01.ir

Module 06 Penetration Testing in Cloud

910. Rob Shapland, AWS penetration testing secrets for success, last modified: 2015, http://searchcloudsecurity.techtarget.com/tip/AWS-penetration-testing-secrets-for-success.

911. Frank Siemons, Penetration Testing and Cloud Platforms, accessed: January 5, 2018, http://resources.infosecinstitute.com/penetration-testing-and-cloud-platforms/#gref.

912. Pen testing cloud-based apps: A step-by-step guide, accessed: January 5, 2018, https://techbeacon.com/pen-testing-cloud-based-apps-step-step-guide.

913. BALAJI N, Cloud Computing Penetration Testing Checklist & Important Considerations, last modified: 2017, https://gbhackers.com/cloud-computing-penetration-testing-checklist-important-considerations/#.

914. Pen Testing, last modified: 2017, https://docs.microsoft.com/en-us/azure/security/azure-security-pen-testing.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

915. Microsoft Cloud Unified Penetration Testing Rules of Engagement, accessed: January 5, 2018, https://technet.microsoft.com/en-us/mt784683.

916. Penetration Testing, accessed: January 5, 2018, https://aws.amazon.com/security/penetration-testing/.

917. Submit Azure Service Penetration Testing Notification, accessed: January 5, 2018, https://portal.msrc.microsoft.com/en-us/engage/pentest.

918. GOOGLE CLOUD PLATFORM SECURITY, accessed: January 5, 2018, https://cloud.google.com/security/.

919. QuoteColo, Cloud Computing in 2014: Facts and Predictions, last modified: 2014, http://www.quotecolo.com/cloud-computing-in-2014-facts-and-predictions-infographic/.

920. Louis Columbus, Gartner Predicts Infrastructure Services Will Accelerate Cloud Computing Growth, last modified: 2013, https://www.forbes.com/sites/louiscolumbus/2013/02/19/gartner-predicts-infrastructure-services-will-accelerate-cloud-computing-growth/#f96c18c1938c.

921. Cloud Computing Vulnerability Incidents: A Statistical Overview, accessed: January 5, 2018, https://cloudsecurityalliance.org/download/cloud-computing-vulnerability-incidents-a-statistical-overview/.

922. Introduction to Cloud Computing, last modified: 2013, https://www.slideshare.net/ProfEdge/introduction-to-cloud-computing-23970527.

923. Kazi Zunnurhain and Susan V. Vrbsky, Security Attacks and Solutions in Clouds, accessed: January 5, 2018, http://salsahpc.indiana.edu/CloudCom2010/Poster/cloudcom2010_submission_98.pdf.

924. Chimere Barron, Huiming Yu and Justin Zhan, Cloud Computing Security Case Studies and Research, last modified: 2013, http://www.iaeng.org/publication/WCE2013/WCE2013_pp1287-1291.pdf.

925. Keiko Hashizume, David G Rosado, Eduardo Fernández-Medina and Eduardo B Fernandez, An analysis of security issues for cloud computing, last modified: 2013, https://jisajournal.springeropen.com/articles/10.1186/1869-0238-4-5.

926. SECURITY GUIDANCE FOR CRITICAL AREAS OF FOCUS IN CLOUD COMPUTING V3.0, last modified: 2011, https://cloudsecurityalliance.org/guidance/csaguide.v3.0.pdf.

927. Cloud Computing in 2014: Facts and Predictions (Infographic), last modified: 2014, http://www.quotecolo.com/cloud-computing-in-2014-facts-and-predictions-infographic/.

928. Jonathan Edwards, Why are More and More Businesses Moving to the Cloud?, last modified: 2012, http://www.yorkshirecloud.co.uk/more-businesses-moving-to-cloud-computing/.

929. Louis Columbus, Gartner Predicts Infrastructure Services Will Accelerate Cloud Computing Growth, last modified: 2013, http://www.forbes.com/sites/louiscolumbus/2013/02/19/gartner-predicts-infrastructure-services-will-accelerate-cloud-computing-growth/.

930. Cloud Computing Vulnerability Incidents: A Statistical Overview, accessed: January 5, 2018, https://cloudsecurityalliance.org/download/cloud-computing-vulnerability-incidents-a-statistical-overview/.

931. Introduction to Cloud Computing, last modified: 2013, http://www.slideshare.net/ProfEdge/introduction-to-cloud-computing-23970527.

932. Kazi Zunnurhain and Susan V. Vrbsky, Security Attacks and Solutions in Clouds, accessed: January 5, 2018, http://salsahpc.indiana.edu/CloudCom2010/Poster/cloudcom2010_submission_98.pdf.

933. Chimere Barron, Huiming Yu and Justin Zhan, Cloud Computing Security Case Studies and Research, last modified: 2013, http://www.iaeng.org/publication/WCE2013/WCE2013_pp1287-1291.pdf.

934. An analysis of security issues for cloud computing, last modified: 2013, https://jisajournal.springeropen.com/articles/10.1186/1869-0238-4-5.

935. Security Assessments, last modified: 2012, https://downloads.cloudsecurityalliance.org/initiatives/secaas/SecaaS_Cat_5_Security_Assessments_Implementation_Guidance.pdf.

936. A Briefing on Cloud Security Challenges and Opportunities, last modified: 2013, https://www.telenor.com/wp-content/uploads/2013/11/TelenorWhitepaperCloud-V_30_v.pdf.

937. Cloud Computing Information Security and Privacy Considerations, last modified: 2014, https://www.ict.govt.nz/assets/ICT-System-Assurance/Cloud-Computing-Information-Security-and-Privacy-Considerations-FINAL2.pdf.

938. Introduction to AWS Security, last modified: 2015, http://www.cloud9infosystems.com/pdf/AWS_Security.pdf.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

939. Google Security Whitepaper, accessed: January 5, 2018, https://www.screenleap.com/doc/Google_Cloud_Platform_Security_Whitepaper.pdf.

940. Amazon AWS Penetration Testing, last modified: 2020, https://www.packetlabs.net/amazon-aws-penetration-testing/.

941. Spencer Gietzen, AWS IAM Privilege Escalation – Methods and Mitigation, https://rhinosecuritylabs.com/aws/aws-privilege-escalation-methods-mitigation/.

942. Versioning IAM policies, https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_managed-versioning.html.

943. create-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/create-policy.html.

944. set-default-policy-version, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/set-default-policy-version.html.

945. IAM roles for Amazon EC2, https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/iam-roles-for-amazon-ec2.html.

946. create-access-key, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/create-access-key.html.

947. create-login-profile, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/create-login-profile.html.

948. update-login-profile, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/update-login-profile.html.

949. attach-user-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/attach-user-policy.html.

950. attach-group-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/attach-group-policy.html.

951. attach-role-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/attach-role-policy.html.

952. put-user-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/put-user-policy.html.

953. put-group-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/put-group-policy.html.

954. put-role-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/put-role-policy.html.

955. add-user-to-group, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/add-user-to-group.html.

956. update-assume-role-policy, https://awscli.amazonaws.com/v2/documentation/api/latest/reference/iam/update-assume-role-policy.html.

957. Penetration testing, last modified: August 8, 2020, https://docs.microsoft.com/en-us/azure/security/fundamentals/pen-testing.

958. Penetration Testing Rules of Engagement, https://www.microsoft.com/en-us/msrc/pentest-rules-of-engagement?rtc=1.

959. Yuri Diogenes, Dr. Thomas W. Shinder, Microsoft Azure Security Center, https://cdn.ttgtmedia.com/rms/pdf/MSazuresec_ch4.pdf.

960. THE 10 MOST COMMON AZURE MISCONFIGURATIONS AND HOW TO FIX THEM, http://click.cloudcheckr.com/rs/222-ENM-584/images/Azure-Misconfigurations-WP-V4.pdf.

961. THE 7 DEADLY SINS OF AZURE MISCONFIGURATION AND HOW TO FIX THEM, https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RE36QLE.

962. Adil Arif, Implement Storage Encryption, last modified: February 20, 2018, https://www.enterprisedaddy.com/2018/02/objective-3-4-implement-storage-encryption/.

963. Configuring retention in Azure Time Series Insights Gen1, last modified: June 30, 2020, https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-how-to-configure-retention.

964. Enable JIT VM access, last modified: July 12, 2020, https://docs.microsoft.com/en-us/azure/security-center/security-center-just-in-time?tabs=jit-config-avm%2Cjit-request-asc#enable-jit-vm-access-.

965. Just-in-time (JIT) VM access for Azure Firewall is now generally available, last modified: 21 August, 2019, https://azure.microsoft.com/en-in/updates/just-in-time-jit-vm-access-for-azure-firewall-is-now-generally-available/.

966. Cloud Security FAQ, https://support.google.com/cloud/answer/6262505?hl=en.

967. Take command of your security in the cloud, last modified: December 2019, https://services.google.com/fh/files/misc/wp_take_command_of_your_security_in_the_cloud_rgb_v15c.pdf.

968. Using Container Threat Detection, last modified: September 9, 2020, https://cloud.google.com/security-command-center/docs/how-to-use-container-threat-detection.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

969. Setting up Security Command Center, last modified: September 18, 2020, https://cloud.google.com/security-command-center/docs/quickstart-security-command-center.

Module 07 Incident Response in Cloud

970. INCIDENT DETECTION, from https://owaspsamm.org/model/operations/incident-management/stream-a/.

971. Frank Doelitzscher, C. Reich, Incident Detection for Cloud Environments, from https://www.semanticscholar.org/paper/Incident-Detection-for-Cloud-Environments-Doelitzscher-Reich/2061f36406c21dab888f8975a598f25cdda92438?p2df.

972. Frank Doelitzscher; Christoph Reich; Martin Knahl; Nathan Clarke, An Autonomous Agent Based Incident Detection System for Cloud Environments, from https://ieeexplore.ieee.org/document/6133144.

973. Dave Shackleford, How to build a cloud security operations center, from https://searchcloudsecurity.techtarget.com/tip/How-to-build-a-cloud-security-operations-center.

974. Kevin Beaver, Ultimate guide to cybersecurity incident response, from https://searchsecurity.techtarget.com/Ultimate-guide-to-incident-response-and-management.

975. Katherine A. Hayes, What is Incident Detection and Response?, Mar 29, 2016, from https://www.rapid7.com/blog/post/2016/03/29/what-is-incident-detection-and-response/.

976. Richard Bejtlich, Incident Detection, Response, and Forensics: The Basics, 2 APRIL 2008, from https://www.csoonline.com/article/2119886/incident-detection--response--and-forensics--the-basics.html.

977. Cloud incident response best practices, from https://www.lucidchart.com/blog/cloud-incident-response-best-practices.

978. Dave Shackleford, Incident response-in-the-cloud, Apr. 26, 2018, from https://www.slideshare.net/cisoplatform7/incident-responseinthecloud.

979. 5 TIPS TO BUILD A CLOUD INCIDENT RESPONSE PLAN, from https://www.boozallen.com/c/insight/blog/5-tips-to-build-a-cloud-incident-response-plan.html.

980. Cloud incident response best practices, from https://www.lucidchart.com/blog/cloud-incident-response-best-practices.

981. Anand, Key Benefits of Having a Cyber Security Incident Response Plan (CSIRP), from https://www.sitepronews.com/2020/12/04/key-benefits-of-having-a-cyber-security-incident-response-plan-csirp/.

982. Cloud Incident Response Framework – A Quick Guide, from http://maruyama-mitsuhiko.cocolog-nifty.com/security/files/cloudincidentresponseframework.pdf.

983. kimberly hengst, B E S T P R A C T I C E S I N C L O U D I N C I D E N T H A N D L I N G, from http://essay.utwente.nl/80630/1/Hengst_MA_EEMCS.pdf.

984. Jeff Reed, Following Incidents into the cloud, from https://www.sans.org/reading-room/whitepapers/cloud/incidents-cloud-33619.

985. Domain 9: Incident Response, Apr 28, 2017, from https://github.com/cloudsecurityalliance/CSA-Guidance/blob/master/Domain%209-%20Incident%20Response.md.

986. Cloud Incident Response Framework – A Quick Guide, from http://maruyama-mitsuhiko.cocolog-nifty.com/security/files/cloudincidentresponseframework.pdf.

987. Nurul Hidayah Ab Rahman, An evidence-based cloud incident handling framework, from https://core.ac.uk/download/pdf/159127874.pdf.

988. Ollie Green, Incident Response in the Cloud, from https://osdfir.blogspot.com/2020/07/incident-response-in-cloud.html.

989. Kimberly hengst, Best Practices in Cloud Incident Handling, from http://essay.utwente.nl/80630/1/Hengst_MA_EEMCS.pdf.

990. What Is SOAR?, from https://www.splunk.com/en_us/data-insider/what-is-soar.html.

991. IBM Security SOAR, from https://www.ibm.com/security/intelligent-orchestration/soar.

992. IBM Cloud Pak for Security, from https://www.ibm.com/in-en/products/cloud-pak-for-security.

993. IBM Security SOAR platform, from https://www.ibm.com/products/soar-platform/details.

994. IBM Resilient Security Orchestration, Automation and Response Platform documentation, from https://www.ibm.com/docs/en/rsoa-and-rp.

995. IBM Security SOAR platform, from https://www.ibm.com/products/soar-platform.

996. IBM Cloud Pak for Security, from https://www.ibm.com/products/cloud-pak-for-security.

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References

997. IBM Security SOAR, from https://www.ibm.com/security/intelligent-orchestration/soar.

998. Security Orchestration and Automation (SOAR) Playbook, from https://www.rapid7.com/c/automation-playbook/1/.

999. Varsharani Kallimath, Chetankumar Savalagimath, The Complete Guide to Varsharani Kallimath Chetankumar Savalagimath by Security Orchestration, Automation and Response (SOAR), from https://www.happiestminds.com/wp-content/uploads/2020/05/SOAR-white-paper_V3.pdf.

1000. Sarah K. White, What is geofencing? Putting location to work, 2 NOVEMBER 2017, from https://www.cio.com/article/2383123/geofencing-explained.html.

1001. Provide contextual experiences when users enter or leave an area of interest, from https://developers.google.com/location-context/geofencing.

1002. 10_Practical_Uses_of_SOAR, from https://www.jas-solution.com/document/LogRhythm/10_Practical_Uses_of_SOAR.pdf.

1003. Varun Badhwar, Cloud Security Best Practices: Top 4 Tips for Incident Response Teams, 05.17.18, from https://redlock.io/blog/top-4-tips-for-incident-response-teams.

1004. Rishi Bhargava, Best practices for incident response in the age of cloud, SEP 2, 2016, from https://www.networkworld.com/article/3116011/best-practices-for-incident-response-in-the-age-of-cloud.html.

1005. Macie Thompson, Incident Response in the Cloud: 4 Ways to Improve Your Investigation and Containment Capabilities, April 12, 2018, from https://deltarisk.com/blog/incident-response-in-the-cloud-4-ways-to-improve-your-investigation-and-containment-capabilities/.

1006. Johna Till Johnson, How to retool incident response best practices for the digital age, June 2019, from https://searchsecurity.techtarget.com/tip/How-to-retool-incident-response-best-practices-for-the-digital-age.

1007. Cloud incident response best practices, from https://www.lucidchart.com/blog/cloud-incident-response-best-practices.

1008. AWS Security Incident Response Guide, June 2019, from https://d1.awsstatic.com/WWPS/pdf/aws_security_incident_response.pdf.

1009. AWS Cloud Adoption Framework, from https://aws.amazon.com/professional-services/CAF/.

1010. Security Perspective: Risk and Compliance, from https://docs.aws.amazon.com/whitepapers/latest/overview-aws-cloud-adoption-framework/security-perspective-risk-and-compliance.html.

1011. AWS Cloud Adoption Framework, from https://aws.amazon.com/professional-services/CAF/.

1012. How AWS Cloud Adoption Framework Transforms Business, from https://blog.vsoftconsulting.com/blog/how-aws-cloud-adoption-framework-transforms-business.

1013. AWS Cloud Adoption Framework Security Perspective, June 2016, from https://d0.awsstatic.com/whitepapers/AWS_CAF_Security_Perspective.pdf.

1014. The AWS Cloud Adoption Framework (AWS CAF), from https://docs.aws.amazon.com/whitepapers/latest/aws-migration-whitepaper/the-aws-cloud-adoption-framework-aws-caf.html.

1015. AWS Security Incident Response Guide, June 2019, from https://d1.awsstatic.com/WWPS/pdf/aws_security_incident_response.pdf.

1016. Ollie Green, Incident Response in the Cloud, from https://osdfir.blogspot.com/2020/07/incident-response-in-cloud.html.

1017. 3 Reasons Why You Need an Incident Response Plan, from https://cipher.com/blog/3-reasons-why-you-need-an-incident-response-plan/.

1018. Automating the Capture, from https://docs.aws.amazon.com/whitepapers/latest/aws-security-incident-response-guide/aws-security-incident-response-guide.pdf#automating-the-capture.

1019. Incident Response and Forensics in your Pyjamas, from https://owasp.org/www-chapter-london/assets/slides/OWASPLondon-IR-In-Your-Pyjamas-Paco-Hope-20190213-PDF.pdf.

1020. AWS Security Week: Incident Response, Aug. 03, 2018, from https://www.slideshare.net/AmazonWebServices/aws-security-week-incident-response.

1021. Automating the Capture, from https://docs.aws.amazon.com/whitepapers/latest/aws-security-incident-response-guide/aws-security-incident-response-guide.pdf#automating-the-capture.

1022. AWS Security Incident Response Guide, June 2019, from https://d1.awsstatic.com/WWPS/pdf/aws_security_incident_response.pdf.

1023. AWS Security Incident Response Guide, June 2019, from https://d1.awsstatic.com/WWPS/pdf/aws_security_incident_response.pdf.

1024. DDoS Response Support, from https://docs.aws.amazon.com/whitepapers/latest/aws-security-incident-response-guide/ddos-response-support.html.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
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1025. AWS Security Week: Incident Response, Aug 03, 2018, from https://www.slideshare.net/AmazonWebServices/aws-security-week-incident-response.

1026. Unknown Risk, from https://docs.aws.amazon.com/whitepapers/latest/aws-security-incident-response-guide/unknown-risk.html.

1027. AWS Security Incident Response Guide, June 2019, from https://d1.awsstatic.com/WWPS/pdf/aws_security_incident_response.pdf.

1028. Amazon GuardDuty, from https://aws.amazon.com/guardduty/.

1029. Amazon GuardDuty Features, from https://aws.amazon.com/guardduty/features/.

1030. Amazon Macie features, from https://aws.amazon.com/macie/features/.

1031. Amazon Macie, from https://aws.amazon.com/macie/.

1032. What is Amazon Inspector?, from https://docs.aws.amazon.com/inspector/latest/userguide/inspector_introduction.html.

1033. Amazon Inspector, from https://aws.amazon.com/inspector/.

1034. What is AWS Lambda?, from https://docs.aws.amazon.com/lambda/latest/dg/welcome.html.

1035. AWS Lambda Features, from https://aws.amazon.com/lambda/features/.

1036. AWS Lambda, from https://aws.amazon.com/lambda/.

1037. Amazon Detective features, from https://aws.amazon.com/detective/features/.

1038. Amazon Detective, from https://aws.amazon.com/detective/.

1039. AWS Security Hub, from https://aws.amazon.com/security-hub/?aws-security-hub-blogs.sort-by=item.additionalFields.createdDate&aws-security-hub-blogs.sort-order=desc.

1040. Benefits of AWS Security Hub, from https://docs.aws.amazon.com/securityhub/latest/userguide/securityhub-benefits.html.

1041. Setu, AWS Incident Response- AWS IR and Margarita Shotgun, June 11, 2018, from https://cloudsecops.com/automate-aws-incident-response-using-aws-ir-and-margarita-shotgun/.

1042. AWS IR, from https://aws-ir.readthedocs.io/en/latest/.

1043. LIFE IN THE CLOUD ISN'T ALL BLUE SKIES, from https://ephemeralsystems.com/.

1044. Arkime, from https://arkime.com/.

1045. Nubeva TLS Decrypt on the AWS Cloud, from https://aws.amazon.com/quickstart/architecture/nubeva-tls-decrypt/.

1046. Arkime, from https://github.com/arkime/arkime.

1047. About Wireshark, from https://www.wireshark.org/.

1048. Wireshark, from https://en.wikipedia.org/wiki/Wireshark.

1049. Cyber security intelligence and expertise for all, from https://www.fireeye.com/mandiant.html.

1050. Encase Technology Is Trusted by Corporations and Government Agencies Worldwide, from https://security.opentext.com/encase-endpoint-investigator.

1051. EnCase Forensic, from https://www.hackingtools.in/free-download-encase-forensic/.

1052. EnCase, from https://en.wikipedia.org/wiki/EnCase.

1053. ACCESSDATA FORENSIC TOOLKIT, from https://www.esecforte.com/products/forensic-toolkit-ftk/.

1054. FORENSIC TOOLKIT (FTK), from https://www.esecforte.com/products/ftk-forensic-tool-kit/.

1055. GRR on GitHub, from https://grr-doc.readthedocs.io/en/latest/.

1056. Google Rapid Response (GRR) – Remote Live Forensics For Incident Response, April 26, 2016, from https://www.darknet.org.uk/2016/04/google-rapid-response-grr-remote-live-forensics-for-incident-response/.

1057. What is GRR?, from https://grr-doc.readthedocs.io/en/v3.2.1/what-is-grr.html#what-is-grr.

1058. Why You Want It, from https://accessdata.com/products-services/forensic-toolkit-ftk/ftkimager.

1059. FTK® Imager 4.2.0, from https://marketing.accessdata.com/ftkimager4.2.0.

1060. Setu, AWS Incident Response- AWS IR and Margarita Shotgun, June 11, 2018, from https://cloudsecops.com/automate-aws-incident-response-using-aws-ir-and-margarita-shotgun/.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1061. LiME ~ Linux Memory Extractor, from https://github.com/504ensicsLabs/LiME.

1062. Windows Incident Response, from http://windowsir.blogspot.com/2009/02/hbgary-fastdump-and-responder.html.

1063. Fastdump, from https://forensicswiki.xyz/wiki/index.php?title=Fastdump.

1064. Strengthen the security posture of cloud workloads, from https://azure.microsoft.com/en-in/services/security-center/#features.

1065. Security Control: Incident Response, from https://docs.microsoft.com/en-us/security/benchmark/azure/security-control-incident-response.

1066. What is Azure Security Center?, from https://docs.microsoft.com/en-us/azure/security-center/security-center-introduction.

1067. Azure Security Center, from https://docs.microsoft.com/en-us/azure/security/fundamentals/operational-security#azure-security-center.

1068. What is Azure Sentinel?, from https://docs.microsoft.com/en-us/azure/sentinel/overview.

1069. Tutorial: Investigate incidents with Azure Sentinel, from https://docs.microsoft.com/en-us/azure/sentinel/tutorial-investigate-cases.

1070. Security Control V2: Incident Response, from https://docs.microsoft.com/en-us/security/benchmark/azure/security-controls-v2-incident-response.

1071. Security Control V2: Incident Response, from https://docs.microsoft.com/en-us/security/benchmark/azure/security-controls-v2-incident-response.

1072. process: Update incident response processes for cloud, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/secure/security-top-10#4-process-update-incident-response-processes-for-cloud.

1073. Configure email notifications for security alerts, from https://docs.microsoft.com/en-us/azure/security-center/security-center-provide-security-contact-details.

1074. Security Control V2: Incident Response, from https://docs.microsoft.com/en-us/security/benchmark/azure/security-controls-v2-incident-response.

1075. Configure email notifications for security alerts, from https://docs.microsoft.com/en-us/azure/security-center/security-center-provide-security-contact-details.

1076. Security Control V2: Incident Response, from https://docs.microsoft.com/en-us/security/benchmark/azure/security-controls-v2-incident-response.

1077. Continuously export Security Center data, from https://docs.microsoft.com/en-us/azure/security-center/continuous-export?tabs=azure-portal.

1078. Connect Azure Defender alert data from Azure Security Center, from https://docs.microsoft.com/en-us/azure/sentinel/connect-azure-security-center.

1079. Security Control V2: Incident Response, from https://docs.microsoft.com/en-us/security/benchmark/azure/security-controls-v2-incident-response.

1080. Continuously export Security Center data, from https://docs.microsoft.com/en-us/azure/security-center/continuous-export?tabs=azure-portal.

1081. Charbel Nemnom, Connect Azure Defender alert data from Azure Security Center, from https://charbelnemnom.com/how-to-connect-azure-security-center-to-azure-sentinel/#Connect_Azure_Security_Center.

1082. Create a snapshot using the portal or PowerShell, 10/08/2018, from https://docs.microsoft.com/en-us/azure/virtual-machines/windows/snapshot-copy-managed-disk.

1083. Create a snapshot using the portal or Azure CLI, 07/11/2018, from https://docs.microsoft.com/en-us/azure/virtual-machines/linux/snapshot-copy-managed-disk.

1084. Tutorial: Investigate incidents with Azure Sentinel, from https://docs.microsoft.com/en-us/azure/sentinel/tutorial-investigate-cases.

1085. Microsoft Azure Support diagnostic information and memory dump collection, from https://azure.microsoft.com/en-gb/support/legal/support-diagnostic-information-collection/.

1086. Reed Robison, Collect and Automate Diagnostic Actions with Azure App Services, from https://devblogs.microsoft.com/premier-developer/collect-and-automate-diagnostic-actions-with-azure-app-services/.

1087. Tutorial: Log network traffic to and from a virtual machine using the Azure portal, 04/30/2018, from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-portal.

1088. Enabling NSG Flow Logs, from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-overview#enabling-nsg-flow-logs.

hidd01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1089. Introduction to flow logging for network security groups, from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-overview.

1090. Traffic, from https://docs.microsoft.com/en-us/azure/azure-monitor/insights/network-insights-overview#traffic.

1091. Create a snapshot using the portal or PowerShell, 10/08/2018, from https://docs.microsoft.com/en-us/azure/virtual-machines/windows/snapshot-copy-managed-disk.

1092. Create an Azure Disk Snapshot – Portal, Jun 6, 2018, from https://arlanblogs.alvarnet.com/create-an-azure-disk-snapshot-portal/.

1093. Create a snapshot using the portal or Azure CLI, 07/11/2018, from https://docs.microsoft.com/en-us/azure/virtual-machines/linux/snapshot-copy-managed-disk.

1094. Tutorial: Investigate incidents with Azure Sentinel, from https://docs.microsoft.com/en-us/azure/sentinel/tutorial-investigate-cases.

1095. Portal, from https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-resources?tabs=json#portal.

1096. Automate responses to Security Center triggers, from https://docs.microsoft.com/en-us/azure/security-center/workflow-automation#configure-workflow-automation-at-scale-using-the-supplied-policies.

1097. Triage security alerts, from https://docs.microsoft.com/en-us/azure/security-center/tutorial-security-incident#triage-security-alerts.

1098. Tutorial: Use playbooks with automation rules in Azure Sentinel, from https://docs.microsoft.com/en-us/azure/sentinel/tutorial-respond-threats-playbook.

1099. process: Update incident response processes for cloud, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/security/security-top-10#4-process-update-incident-response-processes-for-cloud.

1100. Data incident response process, September 2018, from https://services.google.com/fh/files/misc/data_incident_response_2018.pdf.

1101. Data incident response process, from https://cloud.google.com/security/incident-response.

1102. Basic concepts, from https://cloud.google.com/logging/docs/basic-concepts.

1103. Available logs, from https://cloud.google.com/logging/docs/view/available-logs.

1104. Routing and storage overview, from https://cloud.google.com/logging/docs/routing/overview.

1105. Google Cloud operations suite agents, from https://cloud.google.com/logging/docs/agent.

1106. Logging query language, from https://cloud.google.com/logging/docs/view/logging-query-language.

1107. Introduction to Cloud Monitoring, from https://cloud.google.com/monitoring/docs/monitoring-overview.

1108. Configure Cloud Monitoring, from https://cloud.google.com/monitoring/settings.

1109. Metrics, time series, and resources, from https://cloud.google.com/monitoring/api/v3/metrics.

1110. Cloud Profiler documentation, from https://cloud.google.com/profiler/docs.

1111. Profiling concepts, from https://cloud.google.com/profiler/docs/concepts-profiling.

1112. Andy Chang, Visibility, prevention and detection on Google Cloud, from file:///C:/Users/PavaniDyavarashetty/Downloads/PDF%20Copy%20for%20I2%20-%20%20Visibility,%20prevention%20and%20detection%20on%20Google%20Cloud%20(1).pdf.

1113. Container Threat Detection conceptual overview, from https://cloud.google.com/security-command-center/docs/concepts-container-threat-detection-overview.

1114. Anomaly Detection, from https://cloud.google.com/security-command-center/docs/concepts-security-sources#anomaly_detection.

1115. Using Security Health Analytics, from https://cloud.google.com/security-command-center/docs/how-to-use-security-health-analytics.

1116. Remediating Security Health Analytics findings, from https://cloud.google.com/security-command-center/docs/how-to-remediate-security-health-analytics-findings.

1117. Max Saltonstall, from https://cloud.google.com/blog/products/identity-security/how-gcp-helps-you-take-command-of-your-threat-detection.

1118. GoogleCloudPlatform / security-response-automation, from https://github.com/GoogleCloudPlatform/security-response-automation.

1119. Shishir Agrawal, Setting up advanced network threat detection with Packet Mirroring, from https://cloud.google.com/blog/products/networking/packet-mirroring-enables-better-network-monitoring-and-security.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1120. Packet Mirroring overview, from https://cloud.google.com/vpc/docs/packet-mirroring.

1121. Google Cloud Armor, from https://cloud.google.com/armor.

1122. Set Up Google Cloud Armor to Secure your Website, MARCH 15, 2019, from https://www.cloudbooklet.com/set-up-google-cloud-armor-to-secure-your-website/.

1123. Security Command Center findings, from https://cloud.google.com/armor/docs/cscc-findings.

1124. Tuning Google Cloud Armor WAF rules, from https://cloud.google.com/armor/docs/rule-tuning.

1125. Google Cloud Armor overview, from https://cloud.google.com/armor/docs/cloud-armor-overview.

1126. Overview of VPC Service Controls, from https://cloud.google.com/vpc-service-controls/docs/overview.

1127. Service perimeter details and configuration, from https://cloud.google.com/vpc-service-controls/docs/service-perimeters.

1128. Google Cloud Status Dashboard, from https://status.cloud.google.com/.

1129. Incidents and the Google Cloud Status Dashboard, from https://cloud.google.com/support/docs/dashboard.

1130. Andy Chang, 5 steps to improve your cloud security posture with Cloud Security Command Center, from https://cloud.google.com/blog/products/identity-security/5-steps-to-improve-your-cloud-security-posture-with-cloud-security-command-center.

1131. Managing policies, from https://cloud.google.com/security-command-center/docs/how-to-security-marks#managing_policies.

1132. Kyle Olive, Find and fix misconfigurations in your Google Cloud resources, October 23, 2019, from https://cloud.google.com/blog/products/identity-security/find-and-fix-misconfigurations-in-your-google-cloud-resources.

1133. Using Security Health Analytics, from https://cloud.google.com/security-command-center/docs/how-to-use-security-health-analytics.

1134. Setting up custom scans using Web Security Scanner, from https://cloud.google.com/security-command-center/docs/how-to-web-security-scanner-custom-scans.

1135. Kyle Olive, Catch web app vulnerabilities before they hit production with Cloud Web Security Scanner, September 12, 2019, from https://cloud.google.com/blog/products/identity-security/catch-web-app-vulnerabilities-before-they-hit-production-with-cloud-web-security-scanner.

1136. Container Threat Detection conceptual overview, from https://cloud.google.com/security-command-center/docs/concepts-container-threat-detection-overview.

1137. Using Container Threat Detection, from https://cloud.google.com/security-command-center/docs/how-to-use-container-threat-detection.

1138. Timothy Peacock, Detect and respond to high-risk threats in your logs with Google Cloud, September 30, 2019, from https://cloud.google.com/blog/products/identity-security/detect-and-respond-to-high-risk-threats-in-your-logs-with-google-cloud.

1139. Using Event Threat Detection, from https://cloud.google.com/security-command-center/docs/how-to-use-event-threat-detection.

1140. Anomaly Detection, from https://cloud.google.com/security-command-center/docs/concepts-security-sources#anomaly_detection.

1141. Andy Chang, 3 steps to detect and remediate security anomalies with Cloud Anomaly Detection, September 19, 2019, from https://cloud.google.com/blog/products/identity-security/3-steps-to-detect-and-remediate-security-anomalies-with-cloud-anomaly-detection.

1142. Andy Chang, 4 steps to stop data exfiltration with Google Cloud, Oct 3, 2019, from https://cloud.google.com/blog/products/identity-security/4-steps-to-stop-data-exfiltration-with-google-cloud.

1143. Cloud Data Loss Prevention, from https://cloud.google.com/security-command-center/docs/concepts-security-sources#dlp.

1144. Sending Cloud DLP scan results to Security Command Center, from https://cloud.google.com/dlp/docs/sending-results-to-scc?utm_source=youtube&utm_medium=unpaidsocial&utm_campaign=ram-20190927-DLP-Scan-Results.

1145. Using Packet Mirroring, from https://cloud.google.com/vpc/docs/using-packet-mirroring.

1146. Monitoring Packet Mirroring, from https://cloud.google.com/vpc/docs/monitoring-packet-mirroring.

1147. Ines Envid, Introducing VPC Flow Logs—network transparency in near real-time, from https://www.googblogs.com/introducing-vpc-flow-logs-network-transparency-in-near-real-time/.

1148. Enable Flow Logs for GCP Projects, from https://docs.paloaltonetworks.com/prisma/prisma-cloud/prisma-cloud-admin/connect-your-cloud-platform-to-prisma-cloud/onboard-your-gcp-account/enable-flow-logs-for-gcp-projects.html.

1149. Using VPC Flow Logs, from https://cloud.google.com/vpc/docs/using-flow-logs.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1150. Chandan Kumar, How to Configure Firewall Rules in Google Cloud Platform?, from https://geekflare.com/gcp-firewall-configuration/.

1151. Configuring Firewall Rules in GCP Overview, from https://avinetworks.com/docs/18.2/gcp-firewall-rules/.

1152. Incidents for metric-based alerts, from https://cloud.google.com/monitoring/alerts/incidents-events.

Module 08 Forensic Investigation in Cloud

1153. Mell, P., Grance, T (2011). The NIST Definition of Cloud Computing. NIST. Referenced from https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-145.pdf

1154. What is PaaS?. Referenced from https://azure.microsoft.com/en-in/overview/what-is-paas/

1155. Platform-as-a-Service (PaaS) Solutions. Referenced from https://www.trustradius.com/platform-as-a-service-paas

1156. Shared Responsibility Model. Referenced from https://aws.amazon.com/compliance/shared-responsibility-model/

1157. Scott, S. (2017). AWS Shared Responsibility Model: Cloud Security. Referenced from https://cloudacademy.com/blog/aws-shared-responsibility-model-security/

1158. (2016). AWS Security Best Practices. Amazon Web Services, Inc. Referenced from https://d0.awsstatic.com/whitepapers/aws-security-best-practices.pdf

1159. (2019). How The AWS Shared Responsibility Model Works. Referenced from https://www.cloudhealthtech.com/blog/how-aws-shared-responsibility-model-works

1160. (2018). AWS Shared Responsibility Model. Referenced from https://awsnewbies.com/shared-responsibility-model/

1161. AWS Shared Responsibility Model. Referenced from https://digitalcloud.training/certification-training/aws-certified-cloud-practitioner/aws-shared-responsibility-model/

1162. Data Privacy FAQ. Referenced from https://aws.amazon.com/compliance/data-privacy-faq/

1163. Regions and Availability Zones. Referenced from https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

1164. Regions and Zones. Referenced from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html#using-regions-availability-zones-describe

1165. Alfaro, A., Carlson, E & Jarrett, K. (2020). AWS Storage Optimization. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-storage-optimization/aws-storage-services.html

1166. (2021). Storage. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Storage.html

1167. (2021). Use Amazon EFS with Amazon EC2. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AmazonEFS.html

1168. (2021). Use Amazon S3 with Amazon EC2. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AmazonS3.html

1169. (2021). Amazon Elastic Block Store (Amazon EBS). Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AmazonEBS.html

1170. AWS CloudTrail. Referenced from https://aws.amazon.com/cloudtrail/

1171. (2021). Creating a trail for your AWS account. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-create-and-update-a-trail.html

1172. (2021). Getting started with AWS CloudTrail tutorial. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-tutorial.html

1173. (2021). How Amazon GuardDuty uses its data sources. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/guardduty/latest/ug/guardduty_data-sources.html

1174. Butler, J.M., Shackleford, D & Szili, D. (2019). Threat Detection Best Practices in AWS. Referenced from https://d1.awsstatic.com/Marketplace/solutions-center/downloads/Threat-detection-AWS-Marketplace-eBook.pdf

1175. (2021). Viewing Events with CloudTrail Event History. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/awscloudtrail/latest/userguide/view-cloudtrail-events.html

1176. (2021). Getting started with AWS CloudTrail tutorial. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-tutorial.html#tutorial-step1

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1177. (2021). Working with Log Groups and Log Streams. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/Working-with-log-groups-and-streams.html

1178. (2021). What Is Amazon CloudWatch Logs?. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/WhatIsCloudWatchLogs.html

1179. Amazon CloudWatch FAQs. Referenced from https://aws.amazon.com/cloudwatch/faqs/#:~:text=Q%3A%20How%20frequently%20does%20the,is%20configurable%20by%20the%20user.

1180. Hahn, H. (2014). Getting Started with CloudWatch Logs. Referenced from https://aws.amazon.com/blogs/devops/getting-started-with-cloudwatch-logs/

1181. Namer, A. (2017). How to Monitor and Visualize Failed SSH Access Attempts to Amazon EC2 Linux Instances. Referenced from https://aws.amazon.com/blogs/security/how-to-monitor-and-visualize-failed-ssh-access-attempts-to-amazon-ec2-linux-instances/

1182. (2021). Logging requests using server access logging. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AmazonS3/latest/dev/ServerLogs.html

1183. Bailey, D. (2019). Stream Amazon CloudWatch Logs to a Centralized Account for Audit and Analysis. Referenced from https://aws.amazon.com/blogs/architecture/stream-amazon-cloudwatch-logs-to-a-centralized-account-for-audit-and-analysis/

1184. Barr, J. (2015). VPC Flow Logs – Log and View Network Traffic Flows. Referenced from https://aws.amazon.com/blogs/aws/vpc-flow-logs-log-and-view-network-traffic-flows/

1185. (2021). Amazon S3 server access log format. Amazon Web Services, Inc. Referenced from https://docs.aws.amazon.com/AmazonS3/latest/dev/LogFormat.html

1186. Stormacq, S. (2019). Learn From Your VPC Flow Logs With Additional Meta-Data. Referenced from https://aws.amazon.com/blogs/aws/learn-from-your-vpc-flow-logs-with-additional-meta-data/

1187. Quarantine an EC2 Instance. Referenced from https://support.alertlogic.com/hc/en-us/articles/115005534366-Quarantine-an-EC2-Instance

1188. (2020). AWS Security Incident Response Guide. Amazon Web Services, Inc. Referenced from https://d1.awsstatic.com/whitepapers/aws_security_incident_response.pdf

1189. Meyers, C. (2018). Avoiding Holes in Your AWS S3 Buckets. Referenced from https://www.lacework.com/avoiding-holes-in-your-aws-buckets-2/

1190. (2019). Resource access management in Azure. Referenced from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/govern/resource-consistency/resource-access-management

1191. Peterson, N., Shahan, R & Collier, M. (2016). Get started guide for Azure IT operators. Microsoft Corporation. Referenced from https://docsmsftpdfs.blob.core.windows.net/guides/azure/azure-ops-guide.pdf

1192. (2018). Introduction to Microsoft Azure | A cloud computing service. Referenced from https://www.geeksforgeeks.org/introduction-microsoft-azure-cloud-computing-service/

1193. Khwaja, F. (2018). Introduction to Microsoft Azure. Referenced from https://www.quickstart.com/blog/introduction-to-microsoft-azure/

1194. . Referenced from https://stackoverflow.com/questions/45585000/azure-cli-vs-powershell

1195. (2021). Shared responsibility in the cloud. Referenced from https://docs.microsoft.com/en-us/azure/security/fundamentals/shared-responsibility

1196. Browse code samples. Referenced from https://gallery.technet.microsoft.com/Shared-Responsibilities-81d0ff91

1197. Azure geographies. Referenced from https://azure.microsoft.com/en-us/global-infrastructure/regions/#services

1198. Where Does Data Get Stored in Azure?. Referenced from https://www.snaplogic.com/glossary/where-does-data-get-stored-azure#:~:text=Everything%20stored%20in%20Azure%20Storage,centers%20in%20additional%20geographical%20regions.

1199. Feichtner, M., Shinder, D & Siegert, C. (2019). Achieving Compliant Data Residency and Security with Azure. Microsoft Corporation. Referenced from https://azure.microsoft.com/mediahandler/files/resourcefiles/achieving-compliant-data-residency-and-security-with-azure/Achieving_Compliant_Data_Residency_and_Security_with_Azure.pdf

1200. Data residency in Azure. Referenced from https://azure.microsoft.com/en-us/global-infrastructure/data-residency/#select-geography

1201. (2021). Regions and Availability Zones in Azure. Referenced from https://docs.microsoft.com/en-us/azure/availability-zones/az-overview

hidd01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1202. (2020). Introduction to the core Azure Storage services. Referenced from https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction

1203. (2020). Introduction to Azure Blob storage. Referenced from https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction

1204. (2020). What is Azure Queue Storage?. Referenced from https://docs.microsoft.com/en-us/azure/storage/queues/storage-queues-introduction

1205. (2020). Get started with Azure Queue Storage using.NET. Referenced from https://docs.microsoft.com/en-us/azure/storage/queues/storage-dotnet-how-to-use-queues?tabs=dotnet

1206. (2021). What is Azure Table storage ?. Referenced from https://docs.microsoft.com/en-us/azure/storage/tables/table-storage-overview

1207. (2021). Azure Storage redundancy. Referenced from https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy

1208. Marshall, T. WHICH MICROSOFT AZURE REPLICATION SERVICE SHOULD YOU USE?. Referenced from https://www.reply.com/solidsoft-reply/en/content/which-microsoft-azure-replication-service-should-you-use

1209. (2019). View activity logs to monitor actions on resources. Referenced from https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs

1210. (2019). Overview of Azure platform logs. Referenced from https://docs.microsoft.com/en-us/azure/azure-monitor/platform/platform-logs-overview

1211. (2019). Azure security logging and auditing. Referenced from https://docs.microsoft.com/en-us/azure/security/fundamentals/log-audit

1212. (2019). Tutorial: Collect and analyze resource logs from an Azure resource. Referenced from https://docs.microsoft.com/en-us/azure/azure-monitor/learn/tutorial-resource-logs

1213. (2019). Azure resource logs. Referenced from https://docs.microsoft.com/en-us/azure/azure-monitor/platform/resource-logs

1214. (2020). What are Azure Active Directory reports?. Referenced from https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/overview-reports

1215. (2020). Sign-in activity reports in the Azure Active Directory portal. Referenced from https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/concept-sign-ins

1216. (2020). Audit activity reports in the Azure Active Directory portal. Referenced from https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/concept-audit-logs

1217. (2021). Introduction to flow logging for network security groups. Referenced from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-overview

1218. (2018). Download flow log. Referenced from https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-nsg-flow-logging-portal#download-flow-log

1219. (2021). Azure Storage analytics logging. Referenced from https://docs.microsoft.com/en-us/azure/storage/common/storage-analytics-logging?toc=%2Fazure%2Fstorage%2Fblobs%2Ftoc.json&tabs=dotnet

1220. (2019). Collect data from an Azure virtual machine with Azure Monitor. Referenced from https://docs.microsoft.com/en-us/azure/azure-monitor/learn/quick-collect-azurevm

1221. (2018). Create a snapshot using the portal or PowerShell. Referenced from https://docs.microsoft.com/en-us/azure/virtual-machines/windows/snapshot-copy-managed-disk#code-try-0

1222. Bash. Referenced from https://gist.github.com/mathieu-benoit/e9bf7ac5d93f4c1270a635af147f98c0

1223. az snapshot. Referenced from https://docs.microsoft.com/en-us/cli/azure/snapshot?view=azure-cli-latest#az-snapshot-create

1224. (2019). Acquiring a VHD to Investigate. Referenced from https://msrc-blog.microsoft.com/2019/09/03/acquiring-a-vhd-to-investigate/

1225. (2021). Create an Azure file share. Referenced from https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share?tabs=azure-powershell

1226. (2020). Use an Azure file share with Windows. Referenced from https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-use-files-windows

1227. Chan, K. (2014). Network Security and Communication Engineering. CRC Press. Referenced from https://books.google.co.in/books?id=rBMqCgAAQBAJ&pg=PA147&lpg=PA147&dq=dropbox+webportal+investigation&source=bl&ot

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s=g0uBJAp0jo&sig=1eHq_Frk2921c_YUiAUGszgz0iY&hl=en&sa=X&ved=0ahUKEwitpZagrK7LAhUICo4KHa_vANIQ6AEILjAD#v=onepage&q=dropbox%20webportal%20investigation&f=false

1228. Cruz, X. (2012). The Basics of Cloud Forensics, Referenced from http://cloudtimes.org/2012/11/05/the-basics-of-cloud-forensics/

1229. Dinic, P. Recent Cloud Security Debacles. Referenced from http://cloudtweaks.com/2016/02/cloud-security-debacles/

1230. Pritzker, P. (2014). NIST Cloud Computing Forensic Science Challenges. National Institute of Standards and Technology. Referenced from http://csrc.nist.gov/publications/drafts/nistir-8006/draft_nistir_8006.pdf

1231. Google Drive Artifacts – Explained. Referenced from http://bitforensics.blogspot.in/2012/12/google-drive-artifacts-explained.html

1232. Quick, K. Choo, K. K. R. (2013). Google Drive: Forensic Analysis of Cloud Storage Data Remnants, Referenced from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2340234

1233. Miller, J. A. cloud storage service. Referenced from http://searchcloudstorage.techtarget.com/definition/cloud-storage-service

Module 09 Business Continuity and Disaster Recovery in Cloud.

1234. Business Continuity Tutorial, from https://www.simplilearn.com/business-continuity-tutorial.

1235. Stephen J. Bigelow, cloud disaster recovery (cloud DR), from https://searchdisasterrecovery.techtarget.com/definition/cloud-disaster-recovery-cloud-DR.

1236. Charlotte Blackmore, WHAT IS DISASTER RECOVERY IN CLOUD COMPUTING?, from https://www.rioit.co.uk/what-is-disaster-recovery-in-cloud-computing/.

1237. What is Cloud Disaster Recovery? Building a Plan for Success, from https://www.factioninc.com/blog/cloud-disaster-recovery/.

1238. Robert Cepero, Importance of Disaster Recovery in Cloud Computing, from https://bleuwire.com/importance-disaster-recovery-cloud-computing/.

1239. LORI WITZEL, Defining RPO and RTO in the Age of Cloud Computing, APR 17 2018, from https://spanning.com/blog/defining-rto-and-rpo-in-the-age-of-cloud-computing/.

1240. Jessie Reed, Disaster Recovery In Cloud Computing: All You Need To Know, June 26, 2019, from https://www.nakivo.com/blog/disaster-recovery-in-cloud-computing/. .

hidn01.ir

1241. Stephen J. Bigelow, cloud disaster recovery (cloud DR), from https://searchdisasterrecovery.techtarget.com/definition/cloud-disaster-recovery-cloud-DR.

1242. 4 Benefits of Disaster Recovery Planning, July 16, 2018, from https://www.evolveip.net/blog/4-benefits-disaster-recovery-planning.

1243. What is a disaster recovery (DR) plan?, from https://www.ibm.com/services/business-continuity/disaster-recovery-plan.

1244. And cloud computing, December 1, 2011, from https://www.esds.co.in/blog/and-cloud-computing/#sthash.46Jst6bi.BA9RZUVo.dpbs.

1245. What is Business Continuity?, May 10, 2017, from https://www.inap.com/blog/business-continuity/.

1246. BENEFITS OF CLOUD BASED BUSINESS CONTINUITY, from https://www.stayinbusiness.com/cloud-back-up/benefits-of-cloud-based-business-continuity/.

1247. Advantages of cloud-based business continuity planning, November 29th, 2019, from https://www.nquest.com/2019/11/advantages-of-cloud-based-business-continuity-planning/.

1248. Adapt and respond to risks with a business continuity plan (BCP), from https://www.ibm.com/services/business-continuity/plan.

1249. Business Impact Analysis: 5 Steps Toward Cybersecurity You Can Take Right Now, from https://www.questsys.com/security-blog/Business-Impact-Analysis-5-Steps-Toward-Cybersecurity-You-Can-Take-Right-Now/.

1250. TODD BROWN, Disaster Recovery in the Cloud Era – Part 1 “Business Impact Analysis (BIA), December 6th, 2018, from https://www.cimasg.com/2018/12/disaster-recovery-in-the-cloud-era-part-1-business-impact-analysis-bia/.

1251. An Ultimate Guide to Business Impact Analysis, from https://www.simplilearn.com/what-is-business-impact-analysis-article.

1252. What You Need To Know: Cloud Computing and Business Continuity, January 28, 2015, from https://castellanbc.com/blog/cloud-business-continuity/.

1253. Alex Mayer, Risk Impact Assessment in Disaster Recovery: Where to Start, from https://www.nakivo.com/blog/risk-impact-assessment-in-disaster-recovery-where-to-start/.

1254. Business Continuity Tutorial, from https://www.simplilearn.com/business-continuity-tutorial.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

References

1255. Jacob Gsoedl, Blueprint for cloud-based disaster recovery, 06 May 2011, from https://searchdisasterrecovery.techtarget.com/magazineContent/Blueprint-for-cloud-based-disaster-recovery.

1256. Tess Hanna, The Top 4 Approaches to Cloud Disaster Recovery, March 12, 2018, from https://solutionsreview.com/backup-disaster-recovery/top-4-approaches-to-cloud-disaster-recovery/.

1257. Business Continuity Tutorial, from https://www.simplilearn.com/business-continuity-tutorial.

1258. How failover works, from https://www.acronis.com/en-us/support/documentation/DisasterRecovery/index.html#how-failover-and-failback-work.html.

1259. Failover and failback operations, from https://www.ibm.com/docs/en/ds8900/9.0.2?topic=copy-failover-failback-operations.

1260. Jessie Reed, Disaster Recovery In Cloud Computing: All You Need To Know, June 26, 2019, from https://www.nakivo.com/blog/disaster-recovery-in-cloud-computing/.

1261. Muhammad Raza, What Is SDI? How Software-Defined Infrastructure Works, July 10, 2018, from https://www.bmc.com/blogs/software-defined-infrastructure/.

1262. Software-Defined Infrastructure, from https://susedefines.suse.com/definition/software-defined-infrastructure/.

1263. A Shift to Software-Defined Infrastructure is Required to Meet the Needs of Modern Applications, from https://www.datacore.com/resources/videos/shift-to-software-defined-infrastructure/.

1264. Assuring Resilience for Software-defined Infrastructure, from https://www.continuitysoftware.com/business-category/software-defined-infrastructure/.

1265. Aaron Hurst, How software-defined storage (SDS) enables continuity of operations, from https://www.information-age.com/how-software-defined-storage-sds-enables-continuity-operations-123492717/.

1266. Paul Kirvan, How can disaster recovery systems use software-defined networking?, 10 Apr 2017, from https://searchdisasterrecovery.techtarget.com/answer/How-can-disaster-recovery-systems-use-software-defined-networking.

1267. Security Guidance, from https://downloads.cloudsecurityalliance.org/assets/research/security-guidance/security-guidance-v4-FINAL.pdf.

1268. CSA Guidance Summary in 60 minutes, from https://freetalents.ma/wp-content/uploads/2019/10/8-CSA-Guidance-in-60Minutes.pdf.

1269. Domain 6: Management Plane and Business Continuity, from https://github.com/cloudsecurityalliance/CSA-Guidance/blob/master/Domain%206-%20Management%20Plane%20and%20Business%20Continuity.md.

1270. Dr. Mohamed Taher, Infostructure in National Development Perspectives, from https://sites.google.com/site/akbanis/home/drmt_geo/infostructure.

1271. David Gewirtz, Cloud sync vs backup: Which disaster recovery works better for business continuity?, February 15, 2018, from https://www.zdnet.com/article/why-cloud-sync-not-backup-worked-better-for-business-continuity-during-the-hurricane/. .

1272. What is data synchronization and why is it important?, from https://www.talend.com/resources/what-is-data-synchronization/.

1273. Jonathan Zimmermann, Business Continuity by Data Recovery – How the Cloud Helps Securing your Business Data, June 18, 2019, from https://www.boxcryptor.com/en/blog/post/business-continuity-by-data-recovery/.

1274. Mayur Pahwa, Cloud Computing - The Logical Model, from https://www.mayurpahwa.com/2020/07/cloud-computing-logical-model.html.

1275. Chaos engineering, from https://en.wikipedia.org/wiki/Chaos_engineering.

1276. Michael Herrera, Chaos Engineering and Business Continuity, August 30, 2018, from https://bcmmetrics.com/chaos-engineering-and-business-continuity/.

1277. Applistructure, from https://en.wiktionary.org/wiki/applistructure.

1278. EMCEE GRADY, Designing for Graceful Failure, DECEMBER 15, 2014, from https://www.sparkfun.com/news/1674.

1279. How to Plan an Effective Cloud Disaster Recovery Strategy?, from https://www.veritis.com/blog/how-to-plan-an-effective-cloud-disaster-recovery-strategy/.

1280. Mike Chan, How to improve your disaster recovery plan with the cloud, May 30, 2017, from https://www.thorntech.com/cloud-disaster-recovery/.

1281. GAETANO DINARDI, How to Create & Implement Your Company's Business Continuity Plan, from https://www.nextiva.com/blog/business-continuity-plan.html.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1282. Jon Toigo, 10 mistakes to avoid in your disaster recovery planning process, 03 Feb 2014, from https://searchdisasterrecovery.techtarget.com/feature/10-mistakes-to-avoid-in-your-disaster-recovery-planning-process.

1283. Matt Willis, Best Practices for Disaster Recovery in the Cloud, from https://www.cassinfo.com/cloud-management-blog/best-practices-for-disaster-recovery-in-the-cloud.

1284. Tim Burke, 8 cloud disaster recovery best practices, from https://www.questsys.com/ceo-blog/8-best-practices-for-implementing-cloud-dr-services/.

1285. Category 9 //Business Continuity /Disaster Recovery, Sep 2012, from https://downloads.cloudsecurityalliance.org/initiatives/secaas/SecaaS_Cat_9_BCDR_Implementation_Guidance.pdf.

1286. Sydney Boman, The 10 Key Benefits of Disaster Recovery as a Service (DRaaS) for Your Business, Jan 9, 2018, from https://blog.newcloudnetworks.com/the-10-key-benefits-of-disaster-recovery-as-a-service-draas-for-your-business.

1287. Anushree Sen, What Is Disaster Recovery as a Service (DRaaS) and Is It Right for Me?, June 05, 2018, from https://www.globalsign.com/en/blog/what-is-disaster-recover-as-a-service-and-is-it-right-for-me.

1288. Know your disaster recovery-as-a-service options and benefits, from https://searchdisasterrecovery.techtarget.com/ehandbook/Know-your-disaster-recovery-as-a-service-options-and-benefits.

1289. Mark Dargin, What to do if your cloud provider stops offering its services, MAR 16, 2018, from https://www.networkworld.com/article/3263742/what-to-do-if-your-cloud-provider-stops-offering-its-services.html.

1290. Carlos Santos, How cloud computing affects Business Continuity Management, January 29, 2018, from https://www.linkedin.com/pulse/how-cloud-computing-affects-business-continuity-carlos-santos.

1291. Lars Evensen, Using the cloud for business continuity, September 4, 2014, from https://www.ibm.com/blogs/cloud-computing/2014/09/04/using-cloud-business-continuity/.

1292. Business Continuity and Disaster Recovery (BC/DR) in the Cloud Era, Aug 2019, from https://www.zerto.com/wp-content/uploads/2019/09/business-continuity-and-disaster-recovery-in-the-cloud-era.pdf.

1293. Private Cloud computing for Disaster Recovery, from https://www.disasterrecovery.org/private-cloud-computing-for-disaster-recovery/.

1294. James Alan Miller, disaster recovery (DR) test, from https://searchdisasterrecovery.techtarget.com/definition/disaster-recovery-DR-test.

1295. Disaster Recovery of on-premises IT infrastructure with AWS, Jul. 01, 2015, from https://www.slideshare.net/AmazonWebServices/disaster-recovery-of-onpremises-it-infrastructure-with-aws-50069794.

1296. Using AWS for Disaster Recovery, Oct 2014, from https://d1.awsstatic.com/whitepapers/aws-disaster-recovery.pdf.

1297. DZENAN DZEVLAN, Disaster Recovery Using Amazon Web Services (AWS), DECEMBER 15, 2016, from https://cloudacademy.com/blog/disaster-recovery-using-aws/.

1298. How to Use AWS for Disaster Recovery, October 13, 2015, from https://www.getfilecloud.com/blog/2015/10/how-to-use-aws-for-disaster-recovery/#.YMcoJ_kzbIX.

1299. Disaster Recovery of Workloads on AWS: Recovery in the Cloud, from https://docs.aws.amazon.com/whitepapers/latest/disaster-recovery-workloads-on-aws/disaster-recovery-workloads-on-aws.pdf. .

1300. Rich Uhl, Disaster Recovery of on-premises IT infrastructure with AWS, Jun 01, 2015, from https://www.slideshare.net/AmazonWebServices/disaster-recovery-of-onpremises-it-infrastructure-with-aws-50069794.

1301. Ashan Fernando, Using AWS Storage for Disaster Recovery, Dec 21, 2017, from https://codeburst.io/using-aws-storage-for-disaster-recovery-6cee1331ba2c.

1302. Disaster Recovery of Workloads on AWS: Recovery in the Cloud, from https://docs.aws.amazon.com/whitepapers/latest/disaster-recovery-workloads-on-aws/disaster-recovery-workloads-on-aws.pdf#page=16&zoom=100,96,768.

1303. AWS Elastic Beanstalk Developer Guide, from https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/awseb-dg.pdf#disaster-recovery-resiliency.

1304. Anuraag Deekonda, Implementing a disaster recovery strategy with Amazon RDS, 17 APR 2019, from https://aws.amazon.com/blogs/database/implementing-a-disaster-recovery-strategy-with-amazon-rds/.

1305. Amazon Redshift snapshots, from https://docs.aws.amazon.com/redshift/latest/mgmt/working-with-snapshots.html.

1306. On-Demand Backup and Restore for DynamoDB, from https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/BackupRestore.html.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

References

1307. Point-in-Time Recovery for DynamoDB, from https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/PointInTimeRecovery.html.

1308. Amazon Redshift snapshots, from https://docs.aws.amazon.com/redshift/latest/mgmt/working-with-snapshots.html.

1309. VM Import/Export, from https://docs.aws.amazon.com/vm-import/latest/userguide/vm-import-ug.pdf.

1310. Amazon Virtual Private Cloud, from https://aws.amazon.com/vpc/?vpc-blogs.sort-by=item.additionalFields.createdDate&vpc-blogs.sort-order=desc.

1311. Resilience in AWS Direct Connect, from https://docs.aws.amazon.com/directconnect/latest/UserGuide/disaster-recovery-resiliency.html.

1312. How to Use AWS for Disaster Recovery, October 13, 2015, from https://www.getfilecloud.com/blog/2015/10/how-to-use-aws-for-disaster-recovery/#.YMczbPkzbIX.

1313. Resilience in AWS Direct Connect, from https://docs.aws.amazon.com/directconnect/latest/UserGuide/disaster-recovery-resiliency.html.

1314. Amazon Virtual Private Cloud, from https://aws.amazon.com/vpc/?vpc-blogs.sort-by=item.additionalFields.createdDate&vpc-blogs.sort-order=desc.

1315. Disaster Recovery of Workloads on AWS: Recovery in the Cloud, from https://docs.aws.amazon.com/whitepapers/latest/disaster-recovery-workloads-on-aws/disaster-recovery-workloads-on-aws.pdf#page=16&zoom=100,96,768.

1316. VM Import/Export User Guide, from https://docs.aws.amazon.com/vm-import/latest/userguide/vm-import-ug.pdf.

1317. Back Up and Restore DynamoDB Tables: How It Works, from https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/backuprestore_HowItWorks.html.

1318. Jeff Barr, New – Amazon EBS Fast Snapshot Restore (FSR), 20 NOV 2019, from https://aws.amazon.com/blogs/aws/new-amazon-ebs-fast-snapshot-restore-fsr/.

1319. Jessie Reed, AWS Disaster Recovery Best Practices, November 19, 2018, from https://www.nakivo.com/blog/aws-disaster-recovery-best-practices/.

1320. DataBytzAI, Azure Backup Overview, 3 Nov 2018, from https://www.codeproject.com/Articles/1265610/Azure-Backup-Overview.

1321. William Nelson, Azure Recovery Services vault, June 3, 2018, from https://www.linkedin.com/pulse/azure-recovery-services-vault-william-nelson.

1322. Recovery Services vaults overview, from https://docs.microsoft.com/en-us/azure/backup/backup-azure-recovery-services-vault-overview.

1323. Overview of security features in Azure Backup, from https://docs.microsoft.com/en-us/azure/backup/security-overview.

1324. Robert Smit MVP, Step by Step Azure File Sync – on-premises file servers to #Azure Files Storage Sync Service #AFS #Cloud #MSIgnite, Sep 28, 2017, from https://argonsys.com/microsoft-cloud/library/step-by-step-azure-file-sync-on-premises-file-servers-to-azure-files-storage-sync-service-afs-cloud-msignite/.

1325. Dave Henry, Azure file sync: A new way to tackle hybrid storage, from https://www.hubstor.net/blog/azure-file-sync-hybrid-storage/.

1326. Lalit Rawat, What is Azure File Sync?, from https://azure4you.com/2017/11/25/azure-file-sync-server-overview/.

1327. Anurag Mehrotra, Application consistent backup for Linux VMs using Azure Backup is generally available, 13 February, 2018, from https://azure.microsoft.com/en-in/blog/application-consistent-backup-for-linux-vms-using-azure-backup-is-generally-available/.

1328. Application-consistent backup of Azure Linux VMs, 01/12/2018, from https://docs.microsoft.com/en-us/azure/backup/backup-azure-linux-app-consistent.

1329. Shreesh Dubey, Azure Backup's cloud-first approach and why it matters, 30 March, 2017, from https://azure.microsoft.com/en-in/blog/azure-backup-cloud-first-architecture/.

1330. Sagar Nangare, Why You Should Consider Using Azure Backup, AUGUST 29, 2019, from https://www.networkcomputing.com/cloud-infrastructure/why-you-should-consider-using-azure-backup.

1331. KASUN RAJAPAKSE, Restore-as-a-Service (RaaS) Azure Backup, FEBRUARY 15, 2017, from https://www.infrakloud.com/2017/02/restore-as-a-service-raas-azure-backup/.

1332. Kartik P V R, Instant File Recovery from Cloud using Azure Backup, 8 February, 2017, from https://azure.microsoft.com/en-in/blog/instant-file-recovery-from-cloud-backups-using-azure-backup/.

1333. Tom Janetscheck, Restore-as-a-Service with Azure Backup Instant Restore, February 8, 2017, from https://blog.azureandbeyond.com/2017/02/08/azure-backup-instant-restore/.

hiteo1.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1334. Overview of security features in Azure Backup, 03/12/2020, from https://docs.microsoft.com/en-us/azure/backup/security-overview.

1335. Azure Backup—Enhanced Security, 14 June, 2017, from https://azure.microsoft.com/en-in/updates/azure-backup/.

1336. Security features to help protect hybrid backups that use Azure Backup, from https://docs.microsoft.com/en-us/azure/backup/backup-azure-security-feature.

1337. Pallavi Joshi, Azure Backup security capabilities for protecting cloud backups, 15 November 2016, from https://azure.microsoft.com/en-in/blog/azure-backup-security-feature/.

1338. Overview of security features in Azure Backup, from https://docs.microsoft.com/en-us/azure/backup/security-overview.

1339. Aidan Finn, Protect Your Data With Microsoft Azure Backup, September 28, 2017, from https://aidanfinn.com/?p=20642.

1340. Aruna Somendra, Secure your backups, not just your data!, 29 March, 2018, from https://azure.microsoft.com/en-in/blog/secure-your-backups-not-just-your-data/.

1341. Use Azure role-based access control to manage Azure Backup recovery points, from https://docs.microsoft.com/en-us/azure/backup/backup-rbac-rs-vault.

1342. Overview of security features in Azure Backup, 03/12/2020, from https://docs.microsoft.com/en-us/azure/backup/security-overview.

1343. Azure Site recovery overview, March 8, 2016, from https://www.poweronplatforms.com/azure-site-recovery-overview/.

1344. Create and customize recovery plans, from https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-create-recovery-plans.

1345. Gali Kovacs, What Is Azure Site Recovery and How Do You Use It?, from https://cloud.netapp.com/blog/asr-migration-draas-solution.

1346. How Azure Disaster Recovery Services can help your business, from https://www.softlanding.ca/blog/how-azure-disaster-recovery-services-can-help-your-business/.

1347. Henry, Microsoft Azure: Your business solution to Disaster Recovery and Business Continuity, from https://motionwave.com.au/microsoft-azure-your-business-solution-to-disaster-recovery-and-business-continuity/.

1348. Creating and using active geo-replication - Azure SQL Database, from https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview.

1349. Ranga Babu, Azure SQL database Geo-Replication, July 15, 2019, from https://www.sqlshack.com/azure-sql-database-geo-replication/.

1350. Use auto-failover groups to enable transparent and coordinated failover of multiple databases, from https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview?tabs=azure-powershell.

1351. Marcin Policht, Introduction to Azure SQL Database Auto-Failover Groups, from https://www.databasejournal.com/features/mssql/introduction-to-azure-sql-database-auto-failover-groups.html.

1352. Tony Petrossian, Azure SQL Database Geo-Restore, 13 September, 2014, from https://azure.microsoft.com/en-in/blog/azure-sql-database-geo-restore/.

1353. Geo-restore by using the Azure portal, from https://docs.microsoft.com/en-us/azure/azure-sql/database/recovery-using-backups#geo-restore-by-using-the-azure-portal.

1354. Use geo-restore to recover a multitenant SaaS application from database backups, 01/14/2019, from https://docs.microsoft.com/en-us/azure/azure-sql/database/saas-dbpertenant-dr-geo-restore. .

1355. Emily_Lisa, Zone Redundancy for Azure SQL Database serverless and general purpose tier in preview, from https://techcommunity.microsoft.com/t5/azure-sql/zone-redundancy-for-azure-sql-database-serverless-and-general/ba-p/1807410.

1356. Azure Services that support Availability Zones, from https://docs.microsoft.com/en-us/azure/availability-zones/az-region.

1357. Alexander (Sasha) Nosov, Azure SQL Database offers zone redundant Premium databases and elastic pools, 7 March, 2018, from https://azure.microsoft.com/en-in/blog/azure-sql-database-now-offers-zone-redundant-premium-databases-and-elastic-pools/.

1358. Restore your Azure SQL Database or failover to a secondary, 06/21/2019, from https://docs.microsoft.com/en-us/azure/azure-sql/database/disaster-recovery-guidance.

1359. Cloud Infrastructure, from https://www.sumologic.com/glossary/cloud-infrastructure/.

1360. Architecture for VMware/physical server replication to a secondary on-premises site, from https://docs.microsoft.com/en-us/azure/site-recovery/vmware-physical-secondary-architecture.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1361. Architecture - Hyper-V replication to a secondary site, from https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-vmm-architecture.

1362. Enterprise-scale business continuity and disaster recovery, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/enterprise-scale/business-continuity-and-disaster-recovery.

1363. 6 Steps for Building Your Enterprise Disaster Recovery Plan, from https://aimconsulting.com/insights/6-steps-for-building-your-enterprise-disaster-recovery-plan/.

1364. Backup and disaster recovery for Azure applications, from https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/backup-and-recovery.

1365. Check for Sufficient Point in Time Restore (PITR) Backup Retention Period, from https://www.cloudconformity.com/knowledge-base/azure/Sql/sufficient-pitr-backup.html.

1366. Enable Backups for Azure Virtual Machines, from https://www.cloudconformity.com/knowledge-base/azure/VirtualMachines/enable-backups.html.

1367. Check for Sufficient Daily Backup Retention Period, from https://www.cloudconformity.com/knowledge-base/azure/VirtualMachines/sufficient-backup-retention-period.html.

1368. Enable Auto-Failover Groups, from https://www.cloudconformity.com/knowledge-base/azure/Sql/enable-auto-failover-groups.html.

1369. Enable Automatic Failover, from https://www.cloudconformity.com/knowledge-base/azure/CosmosDB/enable-automatic-failover.html.

1370. 5 Best Practices for Azure Backup and Recovery, from https://www.apps4rent.com/blog/best-practices-for-azure-backup-and-recovery/.

1371. Google Cloud Platform (GCP) Disaster Recovery Services, from https://www.veritis.com/solutions/cloud/disaster-recovery-services/gcp-solutions/.

1372. Why Google Cloud?, from https://cloud.google.com/architecture/dr-scenarios-planning-guide#why-google-cloud.

1373. Provisioning Shared VPC, from https://cloud.google.com/vpc/docs/provisioning-shared-vpc#permissions.

1374. Shared VPC overview, from https://cloud.google.com/vpc/docs/shared-vpc.

1375. VPC firewall rules overview, from https://cloud.google.com/vpc/docs/firewalls.

1376. Google Cloud firewalls, from https://cloud.google.com/firewalls.

1377. Cloud Deployment Manager, from https://cloud.google.com/deployment-manager.

1378. Getting started with Deployment Manager, from https://cloud.google.com/deployment-manager/docs/quickstart.

1379. Why Google Cloud?, from https://cloud.google.com/architecture/dr-scenarios-planning-guide#why-google-cloud.

1380. Disaster recovery building blocks, from https://cloud.google.com/architecture/dr-scenarios-building-blocks.

1381. Designing robust systems, from https://cloud.google.com/compute/docs/tutorials/robustsystems.

1382. Disaster recovery building blocks, from https://cloud.google.com/architecture/dr-scenarios-building-blocks.

1383. Configure Liveness, Readiness and Startup Probes, from https://kubernetes.io/docs/tasks/configure-pod-container/configure-liveness-readiness-startup-probes/#define-a-liveness-command.

1384. Disaster recovery building blocks, from https://cloud.google.com/architecture/dr-scenarios-building-blocks.

1385. Persistent Volumes, from https://kubernetes.io/docs/concepts/storage/persistent-volumes/.

1386. Forwarding zones, from https://cloud.google.com/dns/docs/overview#dns-forwarding-zones.

1387. Cloud DNS, from https://cloud.google.com/dns#section-2.

1388. Cloud DNS, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#cloud-dns.

1389. Traffic Director, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#traffic-director.

1390. Cloud Load Balancing, from https://cloud.google.com/load-balancing.

1391. Cloud Load Balancing, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#cloud-load-balancing.

1392. Cloud Interconnect, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#google-cloud-interconnect.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1393. Disaster recovery building blocks, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#cloud_status_dashboard.

1394. Google Cloud Status Dashboard, from https://status.cloud.google.com/.

1395. Google Cloud Deployment Manager documentation, from https://cloud.google.com/deployment-manager/docs.

1396. Cross-platform DR building blocks, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#stackdriver-monitoring.

1397. Cloud Monitoring, from https://cloud.google.com/monitoring#section-1.

1398. Cloud Monitoring documentation, from https://cloud.google.com/monitoring/docs.

1399. https://cloud.google.com/monitoring/docs, from https://cloud.google.com/pubsub/docs.

1400. Deliver Infrastructure as Code, from https://www.terraform.io/.

1401. Declarative templating tools, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#declarative_templating_tools.

1402. Terraform (software), from https://en.wikipedia.org/wiki/Terraform_(software).

1403. Configuration management tool, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#configuration_management_tools.

1404. Deprecation notice, 11-July-2018, from https://github.com/boto/boto.

1405. Object storage, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#object_storage.

1406. Container Registry documentation, from https://cloud.google.com/container-registry/docs#docs.

1407. Orchestrator tools, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#orchestrator_tools.

1408. Key terms, from https://cloud.google.com/network-connectivity/docs/vpn/concepts/key-terms.

1409. Cloud VPN overview, from https://cloud.google.com/network-connectivity/docs/vpn/concepts/overview.

1410. Cloud VPN, from https://cloud.google.com/network-connectivity/docs/how-to/choose-product#cloud-vpn.

1411. Direct Peering overview, from https://cloud.google.com/network-connectivity/docs/direct-peering.

1412. Dedicated Interconnect overview, from https://cloud.google.com/network-connectivity/docs/interconnect/concepts/dedicated-overview.

1413. Balancing image configuration and deployment speed, from https://cloud.google.com/architecture/dr-scenarios-building-blocks#balancing_image_configuration_and_deployment_speed.

1414. Production environment is on-premises, from https://cloud.google.com/architecture/dr-scenarios-for-data#production_environment_is_on-premises.

1415. Production environment is Google Cloud, from https://cloud.google.com/architecture/dr-scenarios-for-data#production-envrionment-is-gcp.

1416. Overview of replication, from https://cloud.google.com/bigtable/docs/replication-overview.

1417. Exporting and importing data, https://cloud.google.com/firestore/docs/manage-data/export-import.

1418. Disaster recovery scenarios for data, from https://cloud.google.com/architecture/dr-scenarios-for-data#managed-database-services-on-.

1419. Using the Dataflow connector, from https://cloud.google.com/spanner/docs/dataflow-connector.

1420. Backup and Restore, from https://cloud.google.com/spanner/docs/backup.

1421. R and HA architectures for production on-premises, from https://cloud.google.com/architecture/dr-scenarios-for-applications#dr_and_ha_architectures_for_production_on-premises.

1422. Priyanka Vergadia, Cold Disaster recovery on Google Cloud for applications running on-premises, Nov 3, 2019, from https://medium.com/google-cloud/cold-disaster-recovery-on-google-cloud-for-applications-running-on-premises-114b31933d02.

1423. Priyanka Vergadia, Warm Disaster recovery on Google Cloud for applications running on-premises, Nov 5, 2019, from https://medium.com/google-cloud/warm-disaster-recovery-on-google-cloud-for-applications-running-on-premises-7428b0f7db72.

1424. Priyanka Vergadia, Hot Disaster recovery on Google Cloud for applications running on-premises, Nov 12, 2019, from https://medium.com/google-cloud/hot-disaster-recovery-on-google-cloud-for-applications-running-on-premises-da7048d1a57b.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1425. DR and HA architectures for production on Google Cloud, from https://cloud.google.com/architecture/dr-scenarios-for-applications#dr-and-ha-architectures-for-production-on-gcp,.

1426. Planning for DR for locality-restricted workloads, from https://cloud.google.com/architecture/architecting-disaster-recovery-for-locality-restricted-workloads#planning_for_dr_for_locality-restricted_workloads.

1427. Meeting locality restrictions using Google Cloud products, from https://cloud.google.com/architecture/architecting-disaster-recovery-for-locality-restricted-workloads#meeting_locality_restrictions_using_google_cloud_products.

1428. Using on-premises or another cloud as a production site, from https://cloud.google.com/architecture/architecting-disaster-recovery-for-locality-restricted-workloads#using_on-premises_or_another_cloud_as_a_production_site.

1429. Architecting disaster recovery for cloud infrastructure outages, from https://cloud.google.com/architecture/disaster-recovery.

1430. General tips about performing a restore, from https://cloud.google.com/sql/docs/postgres/backup-recovery/restore#tips-pitr.

1431. Point-in-time recovery, from https://cloud.google.com/sql/docs/postgres/backup-recovery/pitr#gcloud_3.

1432. Creating read replicas, from https://cloud.google.com/sql/docs/postgres/replication/create-replica.

1433. Enabling and disabling high availability on an instance, from https://cloud.google.com/sql/docs/mysql/configure-ha#gcloud_4.

1434. Configuring external replicas, from https://cloud.google.com/sql/docs/mysql/replication/configure-external-replica.

1435. Enabling and disabling high availability on an instance, from https://cloud.google.com/sql/docs/mysql/configure-ha#gcloud_2.

1436. Creating read replicas, from https://cloud.google.com/sql/docs/mysql/replication/create-replica.

1437. Restoring an instance, from https://cloud.google.com/sql/docs/mysql/backup-recovery/restoring#console. .

1438. Overview of restoring an instance, from https://cloud.google.com/sql/docs/mysql/backup-recovery/restore.

1439. Managing replicas, from https://cloud.google.com/sql/docs/mysql/replication/manage-replicas#gcloud_3.

1440. Managing replicas, from https://cloud.google.com/sql/docs/mysql/replication/manage-replicas#gcloud_2.

1441. Promoting replicas for regional migration or disaster recovery, from https://cloud.google.com/sql/docs/mysql/replication/cross-region-replicas.

1442. Google Cloud backup and recovery, from https://www.veeam.com/google-cloud-backup.html?ad=in-text-link.

1443. Google Cloud backup and recovery, from https://www.veeam.com/veeam_backup_google_cloud_platform_datasheet_ds.pdf.

1444. Google Cloud Backup and Disaster Recovery, from https://www.actifio.com/solutions/cloud/google/.

1445. Solutions, from https://www.actifio.com/.

1446. Zero-footprint DR solution with Google Cloud VMware Engine and Actifio, from https://cloud.google.com/blog/products/storage-data-transfer/using-actifio-with-google-cloud-vmware-engine-for-dr.

1447. One Platform for Disaster Recovery, Backup & Cloud Mobility, from https://www.zerto.com/.

1448. Mobilize and Protect VMware Workloads on Google Cloud, from https://www.zerto.com/modernize/google/.

1449. Zerto and Google Cloud VMware Engine, from https://www.zerto.com/wp-content/uploads/2020/10/Zerto_8-5_Google-Cloud_DS-01.pdf.

1450. About HYCU for Google Cloud, from https://docs.gcp.hycu.com/ug/introduction/about-the-solution.html.

1451. Your data when you need it, from https://www.hycu.com/data-protection/hycu-for-gcp/.

1452. Data protection with HYCU for Google Cloud, from https://docs.gcp.hycu.com/ug/introduction/data-protection-basic-steps.html.

1453. Simplifying Multi-cloud, from https://www.hycu.com/.

1454. NAKIVO Backup & Replication, from https://www.nakivo.com/resources/download/trial-download/?utm_campaign=TrustRadius%20Review&utm_source=trustradius.com&utm_medium=click.

1455. NAKIVO Protects Your Business Data and Applications, from https://www.nakivo.com/.

1456. An Introduction to Cloud Backup: What, Why, and How, from https://nakivo.medium.com/an-introduction-to-cloud-backup-what-why-and-how-876e91a772bf.

1457. The Ultimate MSP Toolbox, from https://www.datto.com/.

1458. Reliably Deliver SaaS Backup to Your Clients, from https://www.datto.com/products/saas-protection.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1459. Cohesity and Google Cloud, from https://www.cohesity.com/resource-assets/solution-brief/cohesity-and-google-cloud-solution-brief-en.pdf.

1460. Google Cloud Backup and Recovery, from https://www.cohesity.com/solutions/cloud/google.

1461. The Multicloud Data Platform, from https://www.cohesity.com.

Module 10 Governance, Risk Management, and Compliance in Cloud

1462. GRC, from https://www.ibm.com/cloud/learn/grc.

1463. The Essential Guide to Governance, Risk Management and Compliance (GRC), from https://tallyfy.com/guides/governance-risk-management-compliance-grc/.

1464. Achieving cyber governance risk & compliance in the cloud, from https://www2.deloitte.com/content/dam/Deloitte/us/Documents/risk/us-achieving-cyber-governance-risk-and-compliance-in-the-cloud.pdf.

1465. Kim Lindros, What is GRC and why do you need it?, from https://www.cio.com/article/3206607/what-is-grc-and-why-do-you-need-it.html#:~:text=Governance%2C%20risk%20and%20compliance%20(GRC,risk%20and%20meeting%20compliance%20requirements.

1466. Sarah Hamilton, Why do we need GRC Technology? November 6, 2018, from https://www.360factors.com/blog/why-do-we-need-grc-technology/.

1467. Richard, Understanding The Need For GRC, December 20, 2018, from https://www.connectioncafe.com/understanding-the-need-for-grc/.

1468. Anu Bulusu, 5 Use Cases for ServiceNow GRC, from https://www.inry.com/insights/five-use-cases-for-servicenow-grc.

1469. Ben Aston, The 10 Best GRC Tools (Government, Risk, Compliance) In 2021, from https://thedigitalprojectmanager.com/grc-tools/.

1470. David Marmer, How GRC sustainability can help support cost efficiency, from https://www.ibm.com/blogs/regtech/how-grc-sustainability-can-help-support-cost-efficiency/.

1471. The Business Benefits of GRC Integration, from https://quantivate.com/blog/grc-integration-business-benefits/.

1472. Vibhav Agarwal, 5 RECOMMENDATIONS FOR EFFECTIVE GOVERNANCE, RISK AND COMPLIANCE MANAGEMENT, from https://cloudtweaks.com/2017/02/recommendations-governance-risk-compliance-cloud/.

1473. Cloud Computing Governance Framework – Cloud Computing Challenges(Informative), from http://www.opengroup.org/cloud/gov_snapshot/p4.htm.

1474. Veen, Cloud Governance: The Big Challenges and Best Practices, from https://www.xenonstack.com/blog/cloud-governance/.

1475. Practical Guide to Cloud Governance, from https://www.omg.org/cloud/deliverables/practical-guide-to-cloud-governance.pdf.

1476. What Is Cloud Governance?, from https://www.cloudhealthtech.com/blog/what-is-cloud-governance.

1477. Cloud Governance and Its Need, from https://www.geeksforgeeks.org/cloud-governance-and-its-need/.

1478. Michael Addo-Yobo, Cloud Security Governance - Optimizing the Business Benefits of Security in the Cloud, May 2018, from https://www.coalfire.com/the-coalfire-blog/may-2018/cloud-security-governance#:~:text=Strategic%20alignment%2C%20value%20delivery%2C%20risk,related%20governance%20model%2C%20security%20included.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1479. Cloud Computing Governance Framework – Cloud Computing Governance (Informative), from http://www.opengroup.org/cloud/gov_snapshot/p3.htm#:~:text=The%20landscape%20of%20governance%20models,not%20specific%20to%20any%20geography&text=Align%20with%20existing%20governance%20models%20and%20standards.

1480. Why cloud governance is important, from https://www.lucidchart.com/blog/cloud-governance-framework.

1481. Dan Sullivan, How to design and implement a cloud governance framework, from https://searchcloudcomputing.techtarget.com/tip/How-to-design-and-implement-a-cloud-governance-framework.

1482. Cloud Computing Governance Framework – Cloud Computing Governance Processes, from http://www.opengroup.org/cloud/gov_snapshot/p7.htm.

1483. Sahil Bansal, Real-time Cloud Security Compliance, from https://medium.com/@nutanix/real-time-cloud-security-compliance-7e051c66882a.

1484. Cloud Computing Governance Framework – Cloud Computing Governance Principles, from http://www.opengroup.org/cloud/gov_snapshot/p5.htm.

1485. MANDY STORBAKKEN, The Importance of a Cloud Strategy, from https://cloud.vmware.com/community/2020/01/09/importance-cloud-strategy/.

1486. Cloud Computing Governance Framework – Applying Cloud Computing Governance, from http://www.opengroup.org/cloud/gov_snapshot/p9.htm.

1487. Cloud Computing Governance Framework – Cloud Computing Governance Roles, from http://www.opengroup.org/cloud/gov_snapshot/p6.htm.

1488. Cloud Computing Governance Framework – Cloud Computing Governance Metrics, from http://www.opengroup.org/cloud/gov_snapshot/p8.htm .

1489. COBIT, from https://en.wikipedia.org/wiki/COBIT.

1490. Kumanan Kaliyaperumal, Importance and Elements of Cloud Governance, from https://dzone.com/articles/importance-and-elements-of-cloud-governance.

1491. COBIT vs. ITIL: The Ultimate IT Governance Framework Comparison, COBIT vs. ITIL: The Ultimate IT Governance Framework Comparison, from https://www.simplilearn.com/cobit-vs-itil-article.

1492. Securing Cloud Computing Through IT Governance, from https://issuu.com/itiijournal/docs/7119itii01 .

1493. Rachel Dines, Forrester's Take On Cloud Governance, February 07, 2018, from https://www.cloudhealthtech.com/blog/forresters-take-cloud-governance.

1494. Jake O'Donnell, Cloud Governance: The Key to Better Cloud Management, from https://www.cloudbolt.io/blog/cloud-governance-the-key-to-better-cloud-management/.

1495. Mark Teson, 5 Disciplines of Cloud Governance for Azure, from https://blog.cdw.com/services/5-disciplines-of-cloud-governance-for-azure.

1496. Nathan Lasnoski, 5 Disciplines of Cloud Governance, from https://www.concurrency.com/blog/august-2020/5-disciplines-of-cloud-governance.

1497. The Five Disciplines of Cloud Governance, from https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/govern/governance-disciplines .

1498. Ben Halpert, Auditing Cloud Computing: A Security and Privacy Guide, from https://books.google.co.in/books?id=GjsH0HJ2PmYC&pg=PA46&lpg=PA46&dq=%22Implementing+Governance+as+a+New+Concept%22&source=bl&ots=MHPULKVKg0&sig=ACfU3U1sgXIXD05Llwycxk9qFwyAFLf

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RPA&hl=en&sa=X&ved=2ahUKEwj00oSh0dnvAhUTgtgFHX5kArgQ6AEwA3oECAcQAw#v=onepage&q=dial&f=false.

1499. Noreen McCoy, IT Controls and Governance in Cloud Computing, July 18, 2016, from https://silo.tips/download/it-controls-and-governance-in-cloud-computing.

1500. Jack D. Becker and Elana Bailey, A Comparison of IT Governance &.

1501. Control Frameworks in Cloud.

1502. Computing, from https://pdfs.semanticscholar.org/87f4/71d5e562e7e7640ce97bcf96b57ce0b02a32.pdf?_ga=2.202078610.285582396.1617176178-1770603299.1617176178.

1503. It cloud governance dial as a result of the, from https://www.coursehero.com/file/p7tuvip/IT-CLOUD-GOVERNANCE-DIAL-As-a-result-of-the-deconstruction-process-the/.

1504. J.D. Becker and E. Bailey, A comparison of IT governance and control frameworks in cloud computing, January 2014, from https://www.researchgate.net/publication/288425019_A_comparison_of_IT_governance_and_control_frameworks_in_cloud_computing.

1505. Top 5 Cloud Computing Risks, MARCH 17, 2016, from https://www.calyptix.com/research-2/top-5-risks-of-cloud-computing/.

1506. What are the Security Risks of Cloud Computing?, from https://www.akamai.com/us/en/resources/data-security-in-cloud-computing.jsp.

1507. 8 Common Risks of Cloud Computing, from https://www.innovativearchitects.com/KnowledgeCenter/cloud-computing/cloud-computing-risks.aspx.

1508. Sandra Durcevic, 10 Cloud Computing Risks & Challenges Businesses Are Facing In These Days, from https://www.datapine.com/blog/cloud-computing-risks-and-challenges/.

1509. Ashwin Chaudhary with Accedere, Cloud Risk Management, from https://cloudsecurityalliance.org/blog/2020/07/02/cloud-risk-management/.

1510. Rana Alosaimi and Mohamed A Alnuem, Risk Management Framework for Cloud Computing : A Critical Review, August 2016, from https://www.researchgate.net/publication/307899076_Risk_Management_Framework_for_Cloud_Computing_A_Critical_Review.

1511. Cloud Risk Management, from https://www.pwc.co.uk/services/risk-assurance/technology-risk/digital-integration/cloud-risk-management.html#:~:text=The%20rewards%20of%20cloud%20come,business%20growth%20via%20enhancing%20collaboration.

1512. Cloud Risk Management, from https://www.aujas.com/cloud-risk-management.

1513. CCSP Official, from https://www.pdfdrive.com/ccsp-official-d176456281.html.

1514. Ccsp Certified Cloud Security Professional All-In-One Exam Guide, from https://www.pdfdrive.com/ccsp-certified-cloud-security-professional-all-in-one-exam-guide-d187711469.html .

1515. Risk management, from https://en.wikipedia.org/wiki/Risk_management.

1516. Cloud Risk—10 Principles and a Framework for Assessment, 1 September 2012, from https://www.isaca.org/resources/isaca-journal/past-issues/2012/cloud-risk-10-principles-and-a-framework-for-assessment.

1517. Cloud Risk— 10 Principles and a Framework for Assessment, from https://www.colleaga.org/tools/cloud-risk%E2%80%94-10-principles-and-framework-assessment.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1518. Sai Gadia, How to manage five key cloud computing risks, from https://assets.kpmg/content/dam/kpmg/ca/pdf/2018/03/cloud-computing-risks-canada.pdf.

1519. Sailesh (Sai) Gadia, How To Manage 5 Key Risks In Cloud Computing, Sep 15, 2016, from https://www.forbes.com/sites/kpmg/2016/09/15/how-to-manage-5-key-risks-in-cloud-computing/?sh=49d96f517542.

1520. Cloud Computing Benefits, risks and recommendations for information security, – December 2012, from https://resilience.enisa.europa.eu/cloud-security-and-resilience/publications/cloud-computing-benefits-risks-and-recommendations-for-information-security.

1521. Thomas J. Betcher, Cloud Computing: Key IT-Related Risks and Mitigation Strategies for Consideration by IT Security Practitioners, February 2010, from https://scholarsbank.uoregon.edu/xmlui/bitstream/handle/1794/10207/Betcher-2010.pdf;sequence=1.

1522. Alokananda Ghoshal, Risks of Cloud Computing, from https://www.educba.com/risks-of-cloud-computing/.

1523. enterprise risk management (ERM), from https://searchcio.techtarget.com/definition/enterprise-risk-management.

1524. Amir R. Saghafi Lasemi, Cloud Computing and the Enterprise Risk Management: Opportunities and Risks (Part 1/3), from https://www2.erm-academy.org/publication/risk-management-article/cloud-computing-and-enterprise-risk-management-opportunities-and.

1525. Enterprise risk Management in Cloud Computing, https://theintactone.com/2019/07/14/ccb-u3-topic-3-enterprise-risk-management-in-cloud-computing/.

1526. Ben Lutkevich, risk mitigation, from https://searchdisasterrecovery.techtarget.com/definition/risk-mitigation.

1527. MITIGATING RISK IN THE CLOUD, from https://webobjects.cdw.com/webobjects/media/pdf/Solutions/Cloud-Computing/151383-Mitigating-Risk-in-the-Cloud.pdf.

1528. Pallavi Varanasi, 8 Major Cloud Security Metrics to Monitor Data Theft Risks, from https://www.cloudcodes.com/blog/cloud-security-metrics.html.

1529. pritha, 9 Key Security Metrics for Monitoring Cloud Risks, from https://www.cisoplatform.com/profiles/blogs/9-key-security-metrics-for-monitoring-cloud-risks.

1530. 7 RISK MANAGEMENT METRICS TO TRACK, from https://tensix.com/2019/02/7-risk-management-metrics-to-track/.

1531. How do SLAs factor into cloud risk management?, 24 Oct 2018, from https://searchcloudsecurity.techtarget.com/tip/How-do-SLAs-factor-into-cloud-risk-management#:~:text=Contract%20penalties%20provide%20an%20economic,customer%20far%20related%20business%20losses.

1532. Migrate your business to the cloud in 4 steps, from https://www.superloop.com/blog/migrating-business-to-cloud-4-step-process/.

1533. ENISA Cloud Certification Schemes Metaframework, January 29, 2015, from https://www.enisa.europa.eu/news/enisa-news/enisa-cloud-certification-schemes-metaframework.

1534. Cloud Computing Certification - CCSL and CCSM, from https://resilience.enisa.europa.eu/cloud-computing-certification.

1535. Cloud Computing Security by John R. Vacca, from https://www.oreilly.com/library/view/cloud-computing-security/9781315354927/xhtml/20_Chapter07.xhtml#ch7-3.

hide01.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1536. THE STRUGGLE TO PROVIDE SECURITY, from https://ieeecs-media.computer.org/assets/pdf/ce-mar16-final.pdf.

1537. Cloud Compliance: What you need to know, from https://www.michalsons.com/blog/cloud-compliance/22643.

1538. Cloud Compliance, from https://www.algosec.com/cloud-compliance/#:~:text=Cloud%20compliance%20is%20the%20principle,computing%20services%20meet%20compliance%20requirements.

1539. Cloud Compliance, from https://www.techopedia.com/definition/30551/cloud-compliance.

1540. What is Cloud Compliance?, from https://www.checkpoint.com/cyber-hub/cloud-security/what-is-cloud-compliance/.

1541. Karen Walsh, Cloud Security Compliance: 11 Steps on the Stairway to Cloud Services Heaven, June 8, 2017, from https://reciprocitylabs.com/cloud-security-compliance-11-steps-stairway-cloud-services-heaven/.

1542. Daniel Hein, Cloud Compliance: How to Maintain Compliance in Your Cloud Deployment, from https://solutionsreview.com/cloud-platforms/cloud-compliance-how-to-maintain-compliance-in-your-cloud-deployment/.

1543. Stephen Watts, Cloud Compliance Explained: 4 Keys for Success, October 20, 2017, from https://www.bmc.com/blogs/cloud-compliance/.

1544. Wulf Schiemann, Multi-Cloud Security and Compliance: The Comprehensive Guide 2021, from https://www.meshcloud.io/2020/05/13/multi-cloud-security-and-compliance/#compliance.

1545. Devi Narayanan, Impact of Non-compliance on Organizations, from https://www.v-comply.com/blog/impact-of-non-compliance-on-organizations.

1546. 5 CONSEQUENCES OF FAILING TO COMPLY WITH LEGISLATION, from https://www.xenongroup.co.uk/knowledge-centre/legislation/5-consequences-of-failing-to-comply-with-legislation.

1547. What Happens When you Fail a Compliance Audit?, from https://www.coloradosupport.com/what-happens-when-you-fail-a-compliance-audit/#:~:text=These%20costs%20and%20loss%20of,a%20long%20time%20re%2Dbuild.

1548. How Risky is Non-Compliance to your Business?, from https://www.neeyamo.com/how-risky-is-non-compliance-to-your-business/.

1549. Andrew Nielsen, How to maintain security compliance in the cloud, from https://techbeacon.com/security/how-maintain-security-compliance-cloud.

1550. Cloud compliance: What it is and how to achieve it, 03 May 2011, from https://www.computerweekly.com/podcast/Cloud-compliance-What-it-is-and-how-to-achieve-it.

1551. Tips for ensuring cloud compliance, from https://www.lucidchart.com/blog/tips-for-cloud-compliance.

1552. 4 Tips for Ensuring Compliance in the Cloud in 2020, from https://montra.io/montra-solutions-named-a-top-40-innovative-technology-company-2/.

1553. Paul Rubens, 4 Tips for Cloud Compliance, June 12, 2013, from https://www.esecurityplanet.com/networks/tips-for-cloud-compliance/.

1554. Jim Buchanan, Cloud Computing: 4 Tips for Regulatory Compliance, 8 AUGUST 2011, from https://www.cio.com/article/2405607/cloud-computing--4-tips-for-regulatory-compliance.html.

1555. Andy Marker, Compliance Auditing 101: Types, Regulations and Processes, Jan 18, 2018, from https://www.smartsheet.com/compliance-auditing.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1556. Kassidy Kelley, compliance audit, December 2018, from https://searchcompliance.techtarget.com/definition/compliance-audit.

1557. Mara Calvello, Compliance Audits: What You Need to Know to Avoid a Penalty, from https://track.g2.com/resources/compliance-audits.

1558. The Importance of Compliance Audits: 8 Tips to Help You Pass, September 26, 2016, from https://www.observeit.com/blog/8-tips-will-help-you-pass-compliance-audit/.

1559. Petar Besalev, Top Tips for Effective Audit Preparation, from https://a-lign.com/audit-preparation/.

1560. Ten tips to meet data compliance audits, 07 Sep 2007, from https://searchstorage.techtarget.com/report/Ten-tips-to-meet-data-compliance-audits.

1561. A Checklist for Compliance in the Cloud, from https://www.iland.com/wp-cloud-compliance/.

1562. Lisa Morgan, What is Cloud Compliance? | Checklist & Services, from https://www.datamation.com/cloud/what-is-cloud-compliance/.

1563. EU GDPR Cloud-Readiness & Compliance Checklist, from https://www.mdsny.com/wp-content/uploads/2017/08/Netskope-Cloud-Compliance-Checklist-for-EU-GDPR.pdf.

1564. Health Information Privacy, from https://www.hhs.gov/hipaa/index.html.

1565. Guidance on HIPAA & Cloud Computing, from https://www.hhs.gov/hipaa/for-professionals/special-topics/health-information-technology/cloud-computing/index.html#_ftnref20.

1566. About the FTC, from https://www.ftc.gov/about-ftc.

1567. Gramm-Leach-Bliley Act, from https://www.ftc.gov/tips-advice/business-center/privacy-and-security/gramm-leach-bliley-act.

1568. Rick Blaisdell, What is the cloud computing security environment in 2020?, from https://rickscloud.com/what-is-the-cloud-computing-security-environment-in-2020/.

1569. GLBA, from https://www.ciphercloud.com/glba/.

1570. Complete guide to GDPR compliance, from https://gdpr.eu/.

1571. What is GDPR, the EU's new data protection law?, from https://gdpr.eu/what-is-gdpr/.

1572. 13 Compliance Frameworks For Cloud-Based Organizations, from https://www.horangi.com/blog/13-compliance-frameworks-for-cloud-based-organizations.

1573. The Defense Trade Advisory Group (DTAG), from https://www.pmddtc.state.gov/ddtc_public.

1574. The International Traffic in Arms Regulations (ITAR), from https://www.pmddtc.state.gov/ddtc_public?id=ddtc_kb_article_page&sys_id=24d528fddbfc930044f9ff621f961987.

1575. FEDERAL INFORMATION SECURITY MODERNIZATION ACT, from https://www.cisa.gov/federal-information-security-modernization-act.

1576. TTS Handbook, from https://handbook.tts.gsa.gov/.

1577. Federal Information Technology Acquisition Reform Act (FITARA), from https://handbook.tts.gsa.gov/fitara/.

1578. ISO/IEC 27001 INFORMATION SECURITY MANAGEMENT, from https://www.iso.org/isoiec-27001-information-security.html.

1579. NIST_SP-500-291_Version-2_2013_June18_FINAL, from https://www.nist.gov/system/files/documents/itl/cloud/NIST_SP-500-291_Version-2_2013_June18_FINAL.pdf.

hidel.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1580. NIST 800-53, from https://cloud.google.com/security/compliance/nist800-53.

1581. CIS Controls, from https://www.cisecurity.org/controls/.

1582. New CIS AWS Benchmarks Help Secure Cloud Products and Services, from https://www.cisecurity.org/blog/cis-aws-benchmarks-help-secure-cloud-products-services/.

1583. Security, Trust, Assurance and Risk (STAR), from https://cloudsecurityalliance.org/star/.

1584. CloudGuard for Cloud Security Posture Management, from https://www.checkpoint.com/products/cloud-security-posture-management/#.

1585. CLOUDGUARD DOME9 CLOUD SECURITY PLATFORM, from https://cdw-prod.adobecqms.net/content/dam/cdw/on-domain-cdw/brands/check-point/cloudguard-dome9-cloud-security-platform-product-brief-new.pdf.

1586. SIMPLIFY MULTICLOUD SECURITYAUDIT CONFIGURATIONS AND ACTIVITY IN ONE PLACE, from https://www.lacework.com/configuration-compliance/.

1587. Thea Garcia, What is Security by Design?, from https://reciprocitylabs.com/resources/what-is-security-by-design/.

1588. Sujatha Mudulodu and Harry Keir Hughes, Security by Design, from https://www.infosys.com/iki/insights/security-design.html.

1589. The need for secure-by-designapproach to businessprocess controls, from https://www.wipro.com/cybersecurity/the-need-for-secure-by-design-approach-to-business-process-controls/.

1590. SECURE BY DESIGN : TAKING A STRATEGIC APPROACH TO CYBERSECURITY, from https://www.wavestone.com/app/uploads/2017/07/secure-design-cybersecurity.pdf.

1591. Alan Paris, Continuous Control Monitoring (CCM) – What is it, and Why is it so important?, from https://www.metricstream.com/blog/continuous-control-monitoring-why-it-so-important.

1592. Next Wave of Continuous Control Monitoring solution, from https://www2.deloitte.com/content/dam/Deloitte/in/Documents/risk/in-ra-next-wave-of-continuous-control-monitoring-soluntion-noexp.pdf.

1593. Sarah Hamilton, Creating an Organizational Culture Where GRC Thrives, from https://www.360factors.com/blog/creating-an-organizational-culture-where-grc-thrives/.

1594. Evolving your Governance, Risk and Compliance processes, from https://home.kpmg/au/en/home/insights/2020/02/governance-risk-compliance-process-transformation.html.

1595. Eric Christopher, The Complete Guide to SaaS Vendor Management, from https://zylo.com/blog/vendor-management-guide/#:~:text=SaaS%20vendor%20management%20involves%20searching,spend%20and%20reporting%20on%20value.

1596. What is Application Performance Management?, from https://smartbear.com/learn/performance-monitoring/what-is-application-performance-management/.

1597. GOVERNANCE RISK & COMPLIANCE, from https://www.hcltech.com/cyber-security-grc-services/bcpdr-business-continuity-planning-disaster-recovery.

1598. Your Five Step GRC Implementation Roadmap, Dec 12, 2018, from https://www.estuate.com/company/blog/your-five-step-grc-implementation-roadmap/.

1599. Paul Kirvan, Plan and implement a GRC framework with this checklist, from https://searchcompliance.techtarget.com/tip/Plan-and-implement-a-GRC-framework-with-this-checklist.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1600. Jayashree Iyer, Best Practices for a GRC Transformation Program, from https://www.linkedin.com/pulse/best-practices-grc-transformation-program-jayashree-iyer/ .

1601. AWS Risk and Compliance Overview, 2017, from https://d1.awsstatic.com/whitepapers/compliance/AWS_Risk_and_Compliance_Overview.pdf.

1602. Amazon Web Services: Risk and Compliance, from http://d0.awsstatic.com/whitepapers/compliance/AWS_Risk_and_Compliance_Whitepaper.pdf.

1603. Security and Compliance, from https://docs.aws.amazon.com/whitepapers/latest/aws-overview/security-and-compliance.html#compliance.

1604. LINDSEY ULLIAN, The Impact of the Cloud's Shared Responsibility Model on Compliance, from https://www.threatstack.com/blog/the-impact-of-the-clouds-shared-responsibility-model-on-compliance#:~:text=So%2C%20when%20it%20comes%20to,that%20live%20in%20the%20cloud.

1605. AWS Risk and Compliance Program, from https://www.iteanz.com/tutorials/aws/aws-risk-and-compliance-program/.

1606. AWS risk and compliance program, from https://docs.aws.amazon.com/whitepapers/latest/aws-risk-and-compliance/aws-risk-and-compliance-program.html#operational-and-business-management .

1607. Amazon Web Services: Risk and Compliance, April 2015, from https://docs.huihoo.com/amazon/aws/whitepapers/AWS-Risk-and-Compliance-April-2015.pdf.

1608. Amazon Web Services: Risk and Compliance, from http://d0.awsstatic.com/whitepapers/compliance/AWS_Risk_and_Compliance_Whitepaper.pdf .

1609. Enabling Governance, Compliance, and Operational and Risk Auditing with AWS Management Tools - ENT323 - re:Invent 2017, Dec. 12, 2017, from https://www.slideshare.net/AmazonWebServices/enabling-governance-compliance-and-operational-and-risk-auditing-with-aws-management-tools-ent323-reinvent-2017?qid=2312a13c-043a-4fd0-837b-90807df184b9&v=&b=&from_search=8H.

1610. AWS CloudFormation Features, from https://aws.amazon.com/cloudformation/features/ .

1611. Automated Compliance and Governance with AWS Config and AWS CloudTrail, Aug. 03, 2017, from https://www.slideshare.net/AmazonWebServices/automated-compliance-and-governance-with-aws-config-and-aws-cloudtrail-78543688?qid=2312a13c-043a-4fd0-837b-90807df184b9&v=&b=&from_search=5.

1612. AWS Service Catalog, from https://aws.amazon.com/servicecatalog/?c=mg&sec=srv&aws-service-catalog.sort-by=item.additionalFields.createdDate&aws-service-catalog.sort-order=desc .

1613. AWS CloudTrail, from https://aws.amazon.com/cloudtrail/.

1614. AWS Config, from https://aws.amazon.com/config/?c=mg&sec=srv .

1615. Evaluating Resources with AWS Config Rules, from https://docs.aws.amazon.com/config/latest/developerguide/evaluate-config.html .

1616. What Is AWS Config?, from https://docs.aws.amazon.com/config/latest/developerguide/WhatIsConfig.html .

1617. AWS Systems Manager Patch Manager, from https://docs.aws.amazon.com/systems-manager/latest/userguide/systems-manager-patch.html .

1618. AWS Systems Manager Run Command, from https://docs.aws.amazon.com/systems-manager/latest/userguide/execute-remote-commands.html .

1619. AWS OpsWorks, from https://aws.amazon.com/opsworks/ .

1620. Amazon CloudWatch Features, from https://aws.amazon.com/cloudwatch/features/ .

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1621. Amazon CloudWatch, from https://aws.amazon.com/cloudwatch/ .

1622. AWS Auto Scaling, from https://aws.amazon.com/autoscaling/ .

1623. AWS Auto Scaling, from https://docs.aws.amazon.com/whitepapers/latest/aws-overview/management-governance.html#aws-auto-scaling .

1624. Overview of Amazon Web Services, from https://docs.aws.amazon.com/whitepapers/latest/aws-overview/aws-overview.pdf#management-governance .

1625. AWS Control Tower, from https://aws.amazon.com/controltower/ .

1626. AWS Trusted Advisor, from https://aws.amazon.com/premiumsupport/technology/trusted-advisor/ .

1627. Management and Governance, from https://docs.aws.amazon.com/whitepapers/latest/aws-overview/management-governance.html#aws-trusted-advisor.

1628. AWS Personal Health Dashboard, from https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/.

1629. AWS Managed Serviceshttps://aws.amazon.com/managed-services/.

1630. AWS Managed Services, from https://docs.aws.amazon.com/whitepapers/latest/aws-overview/management-governance.html#aws-managed-services .

1631. AWS Console Mobile Application, from https://aws.amazon.com/console/mobile/?nc=sn&loc=0 .

1632. AWS License Manager, from https://aws.amazon.com/license-manager/ .

1633. Michael South, Scaling a governance, risk, and compliance program for the cloud, emerging technologies, and innovation, 03 DEC 2018, from https://aws.amazon.com/blogs/security/scaling-a-governance-risk-and-compliance-program-for-the-cloud/.

1634. Best Practices For Governance In The Cloud For AWS And Azure, from https://www.cloudhealthtech.com/blog/best-practices-governance-cloud-aws-and-azure.

1635. Getting Started with Governance and Compliance for AWS, from https://www.bmc.com/blogs/aws-governance-compliance/.

1636. AWS Compliance, from https://aws.amazon.com/compliance/.

1637. Compliance, from https://docs.aws.amazon.com/whitepapers/latest/introduction-aws-security/compliance.html.

1638. Customer cloud compliance governance, from https://docs.aws.amazon.com/whitepapers/latest/aws-risk-and-compliance/customer-cloud-compliance-governance.html.

1639. AWS CloudFormation, from https://aws.amazon.com/cloudformation/.

1640. Thomas Blood, 3 Benefits of Automating Compliance in the Cloud, 04 JAN 2017, from https://aws.amazon.com/blogs/enterprise-strategy/228-2/.

1641. 8 Simple Steps for Automating Governance, Risk and Compliance (GRC), from https://s3.amazonaws.com/amo_hub_content/Association1060/files/Automatic%20Governance%20Risk%20Compliance_ServiceNow.pdf .

1642. Governance, risk, and compliance, from https://docs.microsoft.com/en-us/azure/architecture/framework/security/governance .

1643. Matt Middleton-Leal, Three Steps to Justify an Investment in IT Security, December 11, 2018, from https://blog.netwrix.com/2018/12/11/three-steps-to-justify-an-investment-in-it-security/ .

vid201.ir

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1644. 3 Tips for Making Better Investments in Security, 9/15/2017, from https://www.informationweek.com/strategic-cio/3-tips-for-making-better-investments-in-security/a/d-id/1329880 .

1645. Best Practices for Prioritizing Security Spending, from https://fallbackstatus.com/best-practices-for-prioritizing-security-spending/ .

1646. Administration, from https://docs.microsoft.com/en-us/azure/architecture/framework/security/critical-impact-accounts#emergency-access-or-break-glass-accounts .

1647. Manage emergency access accounts in Azure AD, from https://docs.microsoft.com/en-us/azure/active-directory/roles/security-emergency-access .

1648. What is Identity Protection?, from https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/overview-identity-protection .

1649. Penetration Testing Rules of Engagement, from https://www.microsoft.com/en-us/msrc/pentest-rules-of-engagement?rtc=1 .

1650. CLOUD PENETRATION TESTING, from https://www.nettitude.com/uk/penetration-testing/cloud-service-testing/ .

1651. Insecure Network Protocols: The Hidden Dangers, from https://www.packetlabs.net/insecure-network-protocols/ .

1652. Secure Protocol, from https://www.sciencedirect.com/topics/computer-science/secure-protocol .

1653. Azure governance services, 24 September, 2018, from https://azure.microsoft.com/en-in/updates/azure-governance-services-updates/ .

1654. What is Azure Governance?, from https://azure.microsoft.com/en-in/resources/videos/azure-adoption-guide-what-is-azure-governance/ .

1655. Deepak Kaushik, Build Enterprise Agile Azure Governance Foundation, from https://www.c-sharpcorner.com/article/build-enterprise-agile-azure-governance-foundation/ .

1656. James van den Berg, #Microsoft Azure Policy and BluePrints Overview #Azure #Cloud #Architecture #AzureBlueprints, October 28, 2018, from https://mountainss.wordpress.com/2018/10/28/microsoft-azure-policy-and-blueprints-overview-azure-cloud-architecture-azureblueprints/ .

1657. What is Azure Blueprints?, from https://docs.microsoft.com/en-us/azure/governance/blueprints/overview .

1658. Ron L'Esteve, Getting Started with Azure Blueprints, 2020-07-14, from https://www.mssqltips.com/sqlservertip/6486/getting-started-with-azure-blueprints/ .

1659. Drew Darrow, Get Started Using Azure Blueprints to Automate Meeting your Security and Compliance Standards, from https://www.ensono.com/blog/get-started-using-azure-blueprints-automate-meeting-your-security-and-compliance-standards .

1660. How to Build Your First Azure Blueprint, from https://discover.opscompass.com/blog/how-to-build-your-first-azure-blueprint .

1661. Quickstart: Define and assign a blueprint in the portal, from https://docs.microsoft.com/en-us/azure/governance/blueprints/create-blueprint-portal .

1662. What is Azure Resource Manager?, from https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview .

1663. Balasubramaniam Murugesan, Important Ways to Regain Control of Azure Cost Management, from https://www.serverless360.com/blog/azure-cost-management-for-enterprises .

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1664. Chris Parlette, The Three Core Components of Microsoft Azure Cost Management, from https://www.parkmycloud.com/blog/microsoft-azure-cost-management/ .

1665. Shashi Ranjan Mishra, 3 Key Components of Azure Cost Management, from https://www.srmarticles.com/3-key-components-of-azure-cost-management/ .

1666. ORION WITHROW, How to Effectively Use Azure Management Groups, Subscriptions, and Resource Groups, from https://cloudacademy.com/blog/how-to-effectively-use-azure-management-groups-subscriptions-and-resource-groups/ .

1667. Azure Governance: how to organize your resources using the Azure Management Groups, from https://francescomolfese.it/en/2019/07/azure-governance-come-organizzare-le-risorse-utilizzando-gli-azure-management-groups/ .

1668. Tobias Zimmergren, Using the Azure Resource Graph to improve your Azure Governance game, from https://zimmergren.net/azure-resource-graph-improve-governance/ .

1669. Quickstart: Run your first Resource Graph query using Azure Resource Graph Explorer, from https://docs.microsoft.com/en-us/azure/governance/resource-graph/first-query-portal.

1670. Review your security recommendations, from https://docs.microsoft.com/en-us/azure/security-center/security-center-recommendations.

1671. Continuously export Security Center data, from https://docs.microsoft.com/en-us/azure/security-center/continuous-export?tabs=azure-portal.

1672. Automate responses to Security Center triggers, from https://docs.microsoft.com/en-us/azure/security-center/workflow-automation#create-a-logic-app-and-define-when-it-should-automatically-run.

1673. Tutorial: Improve your regulatory compliance, from https://docs.microsoft.com/en-us/azure/security-center/security-center-compliance-dashboard.

1674. Policy Intelligence, from https://cloud.google.com/policy-intelligence/.

1675. NIST Cybersecurity Framework & Google Cloud, from https://services.google.com/fh/files/misc/gcp_nist_cybersecurity_framework.pdf.

1676. Cloud Discover: Security, from https://services.google.com/fh/files/misc/cloud_discover_security.pdf.

1677. Trust and security, from https://cloud.google.com/security.

1678. Identity Platform, from https://cloud.google.com/identity-platform#:~:text=Identity%20Platform%20is%20a%20customer,with%20confidence%20on%20Google%20Cloud.

1679. The Google Cloud Adoption Framework, from https://services.google.com/fh/files/misc/google_cloud_adoption_framework_whitepaper.pdf.

1680. The Google Cloud Adoption Framework, from https://cloud.google.com/adoption-framework.

1681. Security center, from https://workspace.google.com/products/admin/security-center/.

1682. ISO/IEC 27001, from https://cloud.google.com/security/compliance/iso-27001.

1683. ISO/IEC 27017, from https://cloud.google.com/security/compliance/iso-27017.

1684. ISO/IEC 27017, from https://en.wikipedia.org/wiki/ISO/IEC_27017.

1685. ISO/IEC 27018, from https://cloud.google.com/security/compliance/iso-27018.

1686. ISO/IEC 27018:2019, from https://www.iso27001security.com/html/27018.html.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1687. GCP – Reinforcing our commitment to privacy with accredited ISO/IEC 27701 certification, from https://cloudsteak.com/gcp-reinforcing-our-commitment-to-privacy-with-accredited-iso-iec-27701-certification/.

1688. ISO/IEC 27701, from https://cloud.google.com/security/compliance/iso-27701 .

1689. Google Security Audits and Certifications, from https://services.google.com/fh/files/blogs/btd-sec-op-2014-grey.pdf.

1690. SOC 3, from https://cloud.google.com/security/compliance/soc-3.

1691. SOC 2, from https://cloud.google.com/security/compliance/soc-2.

1692. C5:2020, from https://cloud.google.com/security/compliance/bsi-c5.

1693. MTCS (Singapore) Tier 3, from https://cloud.google.com/security/compliance/mtcs/.

1694. FedRAMP, from https://cloud.google.com/security/compliance/fedramp.

1695. Mike Daniels, Google Cloud Platform is now FedRAMP High authorized, from https://cloud.google.com/blog/topics/customers/google-cloud-platform-is-now-fedramp-high-authorized.

1696. PCI Data Security Standard compliance, from https://cloud.google.com/solutions/pci-dss-compliance-in-gcp.

1697. PCI DSS, from https://cloud.google.com/security/compliance/pci-dss .

1698. Google Workspace.

1699. security whitepaper, from https://storage.googleapis.com/gfw-touched-accounts-pdfs/google-cloud-security-and-compliance-whitepaper.pdf.

1700. Trusting your data with G Suite, from https://cloud.google.com/files/gsuite-trust-whitepaper.pdf.

1701. What is Google Vault?, from https://support.google.com/vault/answer/2462365?hl=en.

1702. Colin Bryce, GOOGLE VAULT: WHAT IT IS AND WHAT IT'S FOR, from https://www.cobry.co.uk/2018/08/google-vault/.

1703. David Roe, GRC Roll-up: Google Adds e-Discovery to Google Apps, Apr 4, 2012, from https://www.cmswire.com/cms/information-management/grc-rollup-google-adds-ediscovery-to-google-apps-015078.php.

1704. Google Vault: What Does it Do?, from https://www.amplifiedit.com/google-vault-what-does-it-do/.

1705. Vault, from https://workspace.google.com/intl/en_in/products/vault/.

1706. Compliance Reports Manager, from https://cloud.google.com/security/compliance/compliance-reports-manager?hl=RU .

1707. Custom Governance, from https://console.cloud.google.com/marketplace/details/custom-governance/custom-governance?filter=solution-type:k8s.

1708. Custom Governance, from https://console.cloud.google.com/marketplace/partners/aditum-marketplace-dev .

1709. Custom Governance, from https://console.cloud.google.com/marketplace/details/custom-governance/custom-governance?filter=solution-type:k8ss.

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Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

Module 11 Standards, Policies and Legal Issues in Cloud

1710. Rick Blaisdell, Legal Issues around Cloud Computing, July 2, 2013, from https://rickscloud.com/legal-issues-around-cloud-computing/.

1711. Legal Issues Surrounding Cloud Computing, 30 JAN 2018, from https://thelawblog.in/2018/01/30/legal-issues-surrounding-cloud-computing/.

1712. The Laws of Cloud Computing: Weathering the Storms of Cyberpiracy, Hacking, and IP Infringement, MARCH 15, 2015, from https://morningstarlawgroup.com/insights/cloud-computing-legal-issues/.

1713. We help elite personal injury law firms dominate first page rankings., from https://www.legalinkmagazine.com/2014/09/understanding-the-legal-risks-of-cloud-computing/.

1714. Top Five Legal Issues For The Cloud, Apr 13, 2010, from https://www.forbes.com/2010/04/12/cloud-computing-enterprise-technology-cio-network-legal.html?sh=c2d76532ebe8.

1715. Dan Burge, Cloud computing – the legal risks, 29 Jul 2009, from https://www.computerweekly.com/opinion/Cloud-computing-the-legal-risks.

1716. Legal Risks in Cloud Computing | HIPAA Compliance, September 13th, 2011, from https://www.veteranspress.com/legal-risks-in-cloud-computing-hipaa-compliance.

1717. Rick Blaisdell, Laws and Regulations Governing the Cloud Computing Environment, November 27, 2012, from https://rickscloud.com/laws-and-regulations-governing-the-cloud-computing-environment/.

1718. Cloud computing and regulation: Following the eye of the storm, from https://www.datacenterdynamics.com/en/opinions/cloud-computing-and-regulation-following-eye-storm/.

1719. Cloud Computing Laws and Regulations, April 6, 2015, from https://www.internetlawyer-blog.com/cloud-computing-laws-and-regulations/.

1720. Branko Vlajin (Writer), What You Need To Know About Cloud Laws and Regulations, 18 May'18, from https://www.cloudwards.net/what-you-need-to-know-about-cloud-laws-regulations/.

1721. Michael Nadeau, General Data Protection Regulation (GDPR): What you need to know to stay compliant, from https://www.csoonline.com/article/3202771/general-data-protection-regulation-gdpr-requirements-deadlines-and-facts.html.

1722. Joep Ruiter and Martijn Warnier, Privacy Regulations for Cloud Computing: Compliance and Implementation in Theory and Practice, February 2011, from https://www.researchgate.net/publication/226801981_Privacy_Regulations_for_Cloud_Computing_Compliance_and_Implementation_in_Theory_and_Practice.

1723. Kelley Floyd, LEGAL ISSUES IN CLOUD COMPUTING, 2016, from https://slideplayer.com/slide/8510702/.

1724. Legal issues in cloud computing, Nov. 20, 2011, from https://www.slideshare.net/movinghats/legal-issues-in-cloud-computing?next_slideshow=1.

1725. Laurin H. Mills, Legal Issues Associated with Cloud Computing, May 13, 2009, from https://www.secureit.com/resources/Cloud%20Computing%20Mills%20Nixon%20Peabody%205-09.pdf.

1726. Compliance Checklist for Prospective Cloud Customers, from https://www.cisco.com/c/dam/en_us/about/doing_business/legal/privacy_compliance/docs/CloudComplianceChecklist.pdf.

1727. Cloud Services Due Diligence Checklist, from https://www.microsoft.com/en-in/trust-center/compliance/due-diligence-checklist.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1728. Checklist for Cloud Service Contracts Final version, from https://interparestrust.org/assets/public/dissemination/NA14_20160226_CloudServiceProviderContracts_Checklist_Final.pdf.

1729. Howard G. Zaharoff, from https://www.morse.law/news/cloud-users-contract-checklist, February 3, 2016, from https://www.morse.law/news/cloud-users-contract-checklist.

1730. Mark Weston, Avoiding cloud computing legal issues: Checklist for selecting a provider, 25 Nov 2009, from https://www.computerweekly.com/tip/Avoiding-cloud-computing-legal-issues-Checklist-for-selecting-a-provider.

1731. Seungyun Lee, Cloud computing standards, Oct. 28, 2010, from https://www.slideshare.net/bluse2/cloud-computing-standards.

1732. bobma66, Cloud Standards Overview, from https://www.powershow.com/view4/6e9a07-NzJmM/Cloud_Standards_Overview_powerpoint_ppt_presentation.

1733. SECURING THE FUTURE OF PAYMENTS TOGETHER, www.pcisecuritystandards.org.

1734. PCI SECURITY STANDARDS OVERVIEW, from https://www.pcisecuritystandards.org/pci_security/standards_overview.

1735. Issues and Standards in Cloud Security, from https://www.cse.wustl.edu/~jain/cse571-14/ftp/cloud_security/index.html#section4.4.

1736. Information Supplement: PCI DSS Cloud Computing Guidelines, from https://www.pcisecuritystandards.org/pdfs/PCI_DSS_v2_Cloud_Guidelines.pdf.

1737. X.1601 : Security framework for cloud computing, from https://www.itu.int/rec/T-REC-X.1601/en.

1738. ITU-T, from https://www.itu.int/rec/T-REC-X.1601-201510-I/en.

1739. ITU-T, from https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.1601-201510-I!!PDF-E&type=items.

1740. Issues and Standards in Cloud Security, from https://www.cse.wustl.edu/~jain/cse571-14/ftp/cloud_security/index.html#section4.3.

1741. ISO/IEC 27017, from https://www.iso27001security.com/html/27017.html.

1742. ISO/IEC 27018:2019, from https://www.iso27001security.com/html/27018.html.

1743. ISO/IEC 27018, from https://cloud.google.com/security/compliance/iso-27018.

1744. ISO/IEC 27018:2019(en), from https://www.iso.org/obp/ui/#iso:std:iso-iec:27018:ed-2:v1:en.

1745. ISO/IEC 27018:2019, from https://www.iso.org/standard/76559.html.

1746. NIST Cloud Computing Standards Roadmap, from https://www.nist.gov/system/files/documents/itl/cloud/NIST_SP-500-291_Version-2_2013_June18_FINAL.pdf.

1747. NIST 800-53, from https://cloud.google.com/security/compliance/nist800-53.

1748. What is the Cloud Controls Matrix?, from https://cloudsecurityalliance.org/blog/2020/10/16/what-is-the-cloud-controls-matrix-ccm/#:~:text=The%20CSA%20Cloud%20Controls%20Matrix,up%20into%20133%20control%20objectives.

1749. SECURITY ASSERTION MARKUP LANGUAGE (SAML), from https://doubleoctopus.com/security-wiki/federation-and-sso/security-assertion-markup-language/.

1750. Security Assertion Markup Language (SAML), from https://www.cyberark.com/what-is/saml/.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1751. Security Assertion Markup Language (SAML) V2.0 Technical Overview, from http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-tech-overview-2.0-cd-02.html.

1752. Welcome to the Cloud Security Alliance, from https://cloudsecurityalliance.org/.

1753. Cloud Controls Matrix (CCM), from https://cloudsecurityalliance.org/research/cloud-controls-matrix/.

1754. SDP Architecture Guide v2, from https://cloudsecurityalliance.org/artifacts/sdp-architecture-guide-v2/.

1755. Cloud Octagon Model, from https://cloudsecurityalliance.org/artifacts/cloud-octagon-model/.

1756. THE OPEN COMMONS CONSORTIUM (OCC), from https://www.occ-data.org/what-we-do.

1757. OCC COMMONS GOVERNANCE , from https://www.occ-data.org/commons-governance.

1758. FOUNDATIONAL PRINCIPLES , from https://www.occ-data.org/commons-principles.

1759. Open Grid Forum, from https://en.wikipedia.org/wiki/Open_Grid_Forum.

1760. Open Grid Forum, from https://www.ogf.org/ogf/doku.php.

1761. OGF Documents and Standards, from https://www.ogf.org/ogf/doku.php/standards/standards.

1762. MISSION & VISION, from https://www.omg.org/about/index.htm.

1763. CLOUD WORKING GROUP, from https://www.omg.org/cloud/#:~:text=The%20OMG%20Cloud%20Working%20Group,standards%2Dbased%20cloud%20computing%20technologies.

1764. Storage Networking Industry Association, from http://www.snia.org.

1765. IEEE Cloud Computing Standards Committee, from https://www.computer.org/volunteering/boards-and-committees/standards-activities/committees/cloud.

1766. IEEE TCLD, from https://cloudcomputing.ieee.org/standards/ieee-p2301-working-group-cloud-profiles.

1767. IEEE TCLD, from https://cloudcomputing.ieee.org/standards.

1768. Welcome to ETSI, from https://www.etsi.org/.

1769. Claire Kirk, Cloud Audits and Compliance: What You Need To Know, from https://www.lightedge.com/blog/cloud-audits-and-compliance-what-you-need-to-know/.

1770. Mohammad Moghadasi, Dr. Seyed Majid Mousavi, Dr. Gábor Fazekas, Cloud Computing Auditing, 12, 2018, from https://thesai.org/Downloads/Volume9No12/Paper_65-Cloud_Computing_Auditing.pdf.

1771. Narendra Sahoo, Audits and compliance requirements for cloud computing, 10 Dec 2012, from https://www.computerweekly.com/tip/Audits-and-compliance-requirements-for-cloud-computing.

1772. JACLYN FINNEY , Cloud Audits & Compliance: What You Need to Know, from https://linfordco.com/blog/cloud-computing-audits/.

1773. Cloud auditor, from https://itlaw.wikia.org/wiki/Cloud_auditor#:~:text=A%20cloud%20auditor%20is,a%20review%20of%20objective%20evidence.

1774. Cloud Auditor, from https://timesofcloud.com/cloud-tutorial/cloud-auditor/.

1775. K.P. SHASHIDHARAN, Auditing cloud computing, June 24, 2011, from https://www.thehindubusinessline.com/news/education/auditing-cloud-computing/article22995033.ece.

1776. Josh Bouk, Why You Should Audit Your Cloud Resources and Environment, from https://www.cassinfo.com/cloud-management-blog/why-you-should-audit-your-cloud-resources-and-environment#:~:text=By%20auditing%20your%20cloud%20resources,shutdown%20unused%20or%20unnecessary%20workloads.

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All Rights Reserved. Reproduction is Strictly Prohibited.

1777. Matt Stamper, Building a Successful Cloud Audit Plan: An Expansive Perspective, November 14, 2018, from https://chapters.theiia.org/san-diego/Documents/Presentations/Cloud%20Audit%20-%20IIA%20and%20ISACA.pdf.

1778. Eryk Budi Pratama, The Art of Cloud Auditing - ISACA ID, from https://www.slideshare.net/proferyk/the-art-of-cloud-auditing-isaca-id.

1779. NICOLE HEMMER, Understanding Audit Procedures: A Guide to Audit Methods & Test of Controls, https://linfordco.com/blog/audit-procedures-testing/.

1780. Methods Of Audit, April 11, 2020, from https://www.w3spoint.com/methods-of-audit.

1781. John DeCesare, The Five Types of Testing Methods Used During Audit Procedures, from https://www.ispartnersllc.com/blog/five-types-testing-methods-used-audits/.

1782. Moving to the Cloud? Engage Internal Audit Upfront, from https://deloitte.wsj.com/riskandcompliance/2018/11/26/moving-to-the-cloud-engage-internal-audit-upfront/.

1783. Moving to the Cloud? Engage Internal Audit Upfront, from https://www.protiviti.com/sites/default/files/united_states/insights/ia-role-cloud-computing-protiviti.pdf.

1784. Cloud Computing – What.

1785. Auditors need to know, from https://www.ucop.edu/ethics-compliance-audit-services/_files/webinars/10-14-16-cloud-computing/cloudcomputing.pdf.

1786. ISAAC CLARKE (PARTNER | CPA, CISA, CISSP), What is an Internal Audit? Answers to Common Questions, NOVEMBER 28, 2018, from https://linfordco.com/blog/what-is-internal-audit/.

1787. Jungwoo Ryoo and Syed Rizvi, Cloud Security Auditing: Challenges and Emerging Approaches, MAR 08, 2015, from https://www.infoq.com/articles/cloud-security-auditing-challenges-and-emerging-approaches/.

1788. Jungwoo Ryoo, Syed S Rizvi, William Aiken, John Kissell, Cloud Security Auditing: Challenges and Emerging Approaches, November 2014, from https://www.researchgate.net/publication/271729003_Cloud_Security_Auditing_Challenges_and_Emerging_Approaches.

1789. NIST Special Publication 800-53, from https://en.wikipedia.org/wiki/NIST_Special_Publication_800-53#Revision_4.

1790. Ashwin Chaudhary, Using SOC Reports for Cloud Security and Privacy, from https://cloudsecurityalliance.org/blog/2020/02/10/using-soc-reports-for-cloud-security-and-privacy/.

1791. Operations Security Evaluation of IaaS-Cloud Backend for Industry 4.0, from https://www.scitepress.org/papers/2018/66831/66831.pdf.

1792. How to Perform a Technology Gap Analysis for Your Business, JULY 12, 2017, from https://www.networkdepot.com/perform-technology-gap-analysis/.

1793. Mike Johnston, How to Carry Out Gap Analysis to Improve Cloud Productivity, July 25, 2016, from https://www.cmscritic.com/gap-analysis-improve-cloud-productivity/.

1794. Cloud Gap Analysis, from https://www.mozo.cloud/cloud-gap-analysis/.

1795. Azure compliance offerings, from https://docs.microsoft.com/en-us/azure/compliance/offerings/.

1796. Azure compliance documentation, from https://docs.microsoft.com/en-us/azure/compliance/.

1797. What is Azure Policy?, from https://docs.microsoft.com/en-us/azure/governance/policy/overview#policy-definition.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1798. What is Azure Policy?, from https://docs.microsoft.com/en-us/azure/governance/policy/overview.

1799. Azure Policy, from https://azure.microsoft.com/en-us/services/azure-policy/.

1800. Tutorial: Create and manage policies to enforce compliance, from https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage .

1801. Quickstart: Create a policy assignment to identify non-compliant resources, from https://docs.microsoft.com/en-us/azure/governance/policy/assign-policy-portal.

1802. Auditing for Azure SQL Database and Azure Synapse Analytics, from https://docs.microsoft.com/en-us/azure/azure-sql/database/auditing-overview#:~:text=To%20configure%20an%20immutable%20log,behind%20a%20VNet%20or%20firewall.

1803. Roman Prodan, How to Audit the Security Posture of a Microsoft Azure EnvironmentIt, .

1804. https://www.apriorit.com/dev-blog/637-cybersecurity-azure-environment-audit#:~:text=Azure%20Security%20Center,-The%20Azure%20Security&text=Here's%20a%20set%20of%20recommendations%20for%20auditing%20the%20security%20of%20this%20functionality%3A&text=Enable%20endpoint%20protection%20recommendations%20for,disk%20encryption%20recommendations%20for%20VMs .

1805. AWS Audit Manager, from https://aws.amazon.com/compliance/programs/.

1806. AWS Security Compliance Programs, from https://www.oreilly.com/library/view/aws-certified-cloud/9781800568587/video5_4.html.

1807. AWS Audit Manager, from https://aws.amazon.com/audit-manager/.

1808. AWS Audit Manager features, from https://aws.amazon.com/audit-manager/features/.

1809. Steve Roberts, AWS Audit Manager Simplifies Audit Preparation, from https://aws.amazon.com/blogs/aws/aws-audit-manager-simplifies-audit-preparation/.

1810. Auditing Security Checklist for Use of AWS, June 2013, from https://d36cz9buwru1tt.cloudfront.net/AWS-Auditing-Whitepaper.pdf.

1811. AWS Security Checklist, Apr. 18, 2017, from https://www.slideshare.net/AmazonWebServices/aws-security-checklist.

1812. Compliance resource center, from https://cloud.google.com/security/compliance.

1813. We are committed to complying with applicable data protection laws, from https://business.safety.google/compliance/.

1814. Cloud Audit Logs, from https://cloud.google.com/logging/docs/audit.

1815. Monitoring audit logging information, from https://cloud.google.com/monitoring/audit-logging#:~:text=Monitoring%20writes%20Admin%20Activity%20audit,which%20can't%20be%20disabled.

1816. Justin Massey and Mallory Mooney, Best practices for monitoring GCP audit logs, from https://www.datadoghq.com/blog/monitoring-gcp-audit-logs/.

1817. Aja Hammerly, GCP Audit Logs, from https://thagomizer.com/blog/2017/12/27/gcp-audit-logs.html.

1818. Configuring Data Access audit logs, from https://cloud.google.com/logging/docs/audit/configure-data-access.

1819. Cloud Audit Logs, from https://cloud.google.com/logging/docs/audit#:~:text=To%20read%20log%20entries%20for,the%20gcloud%20command%2Dline%20tool.&text=You%20can%20use%20the%20Logs,the%20Logging%20%3E%20Logs%20Explorer%20page.

1820. Best practices for Cloud Audit Logs, from https://cloud.google.com/logging/docs/audit/best-practices.

Certified Cloud Security Engineer Copyright © by **EC-Council**
All Rights Reserved. Reproduction is Strictly Prohibited.

1821. Brian Evans, Does Your Cloud Vendor Contract Include These Crucial Security Requirements?, from https://securityintelligence.com/posts/does-your-cloud-vendor-contract-include-these-crucial-security-requirements/ .

1822. Yarub Al-Ahmad, Cloud Migration Steps: Ensuring a Smooth Transition for Your Business, from https://www.corsource.com/cloud-migration-steps/.

1823. Practical Guide to Cloud Service Agreements, from https://www.omg.org/cloud/deliverables/CSCC-Practical-Guide-to-Cloud-Service-Agreements.pdf.

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