

Domain Summary



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Network Security for CCSM Certification

Agenda:

**Computer
Networking**

**Network Threats
and Attacks**

**Network
Infrastructure**



Key Points



Networks are the pipeline that almost all business run on.

Network security addresses all three security concepts:

- Confidentiality
- Integrity
- Availability

Key Points – Protocols

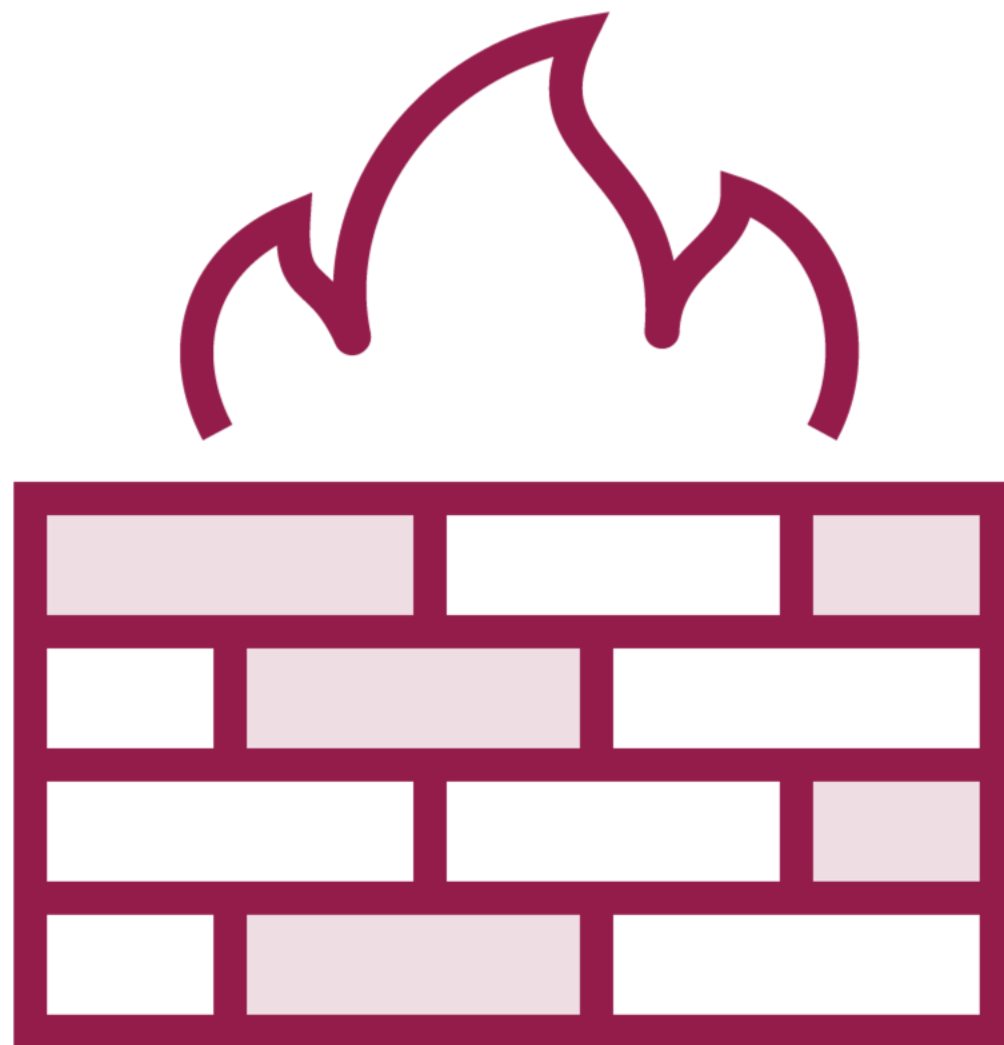


Networks enable communications – Protocols define the structure of communications and support clarity and understanding

- TCP/IP
 - IPv4; IPv6
- OSI
- WiFi



Firewalls



Control traffic between networks

- Ports
- Protocols
- State

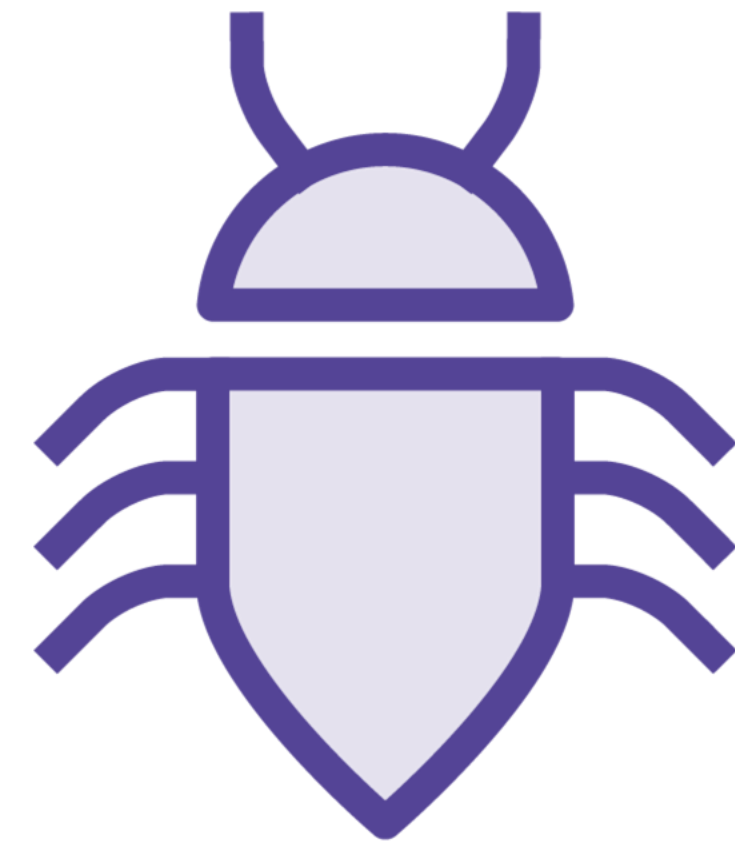
Network Attacks

Attacks against networks

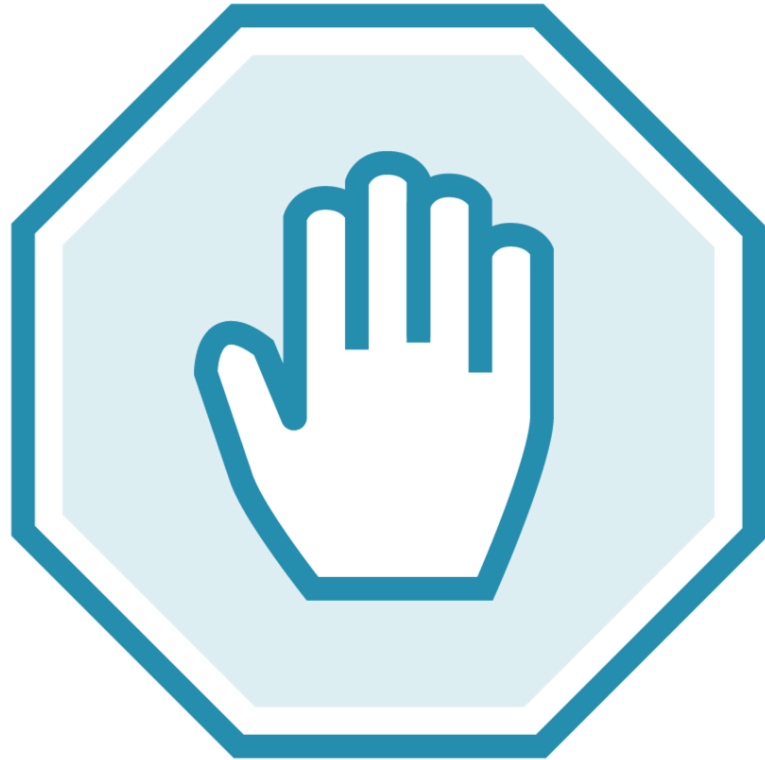
**Attacks against systems and devices
attached to the network**

Spam

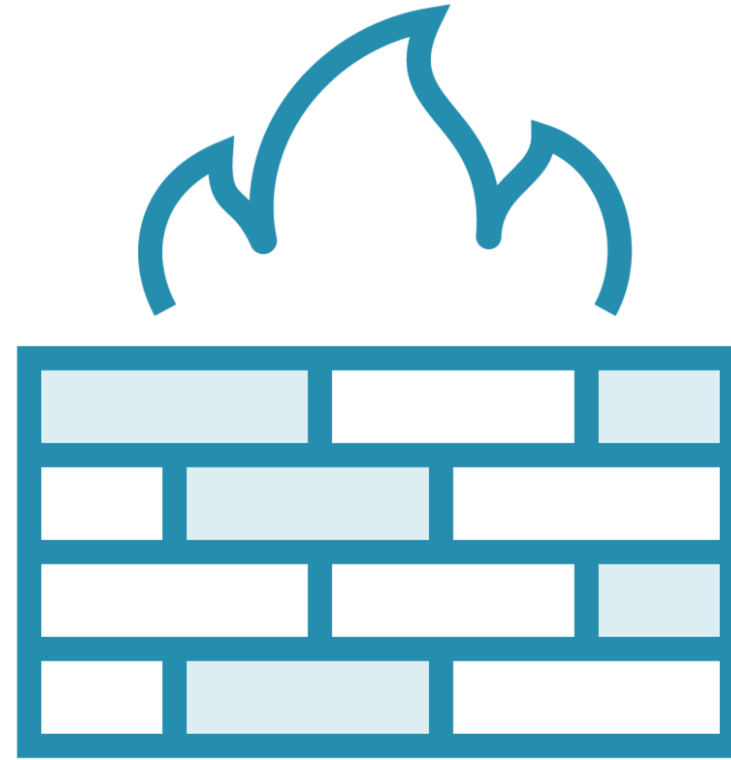
Man-in-the-middle



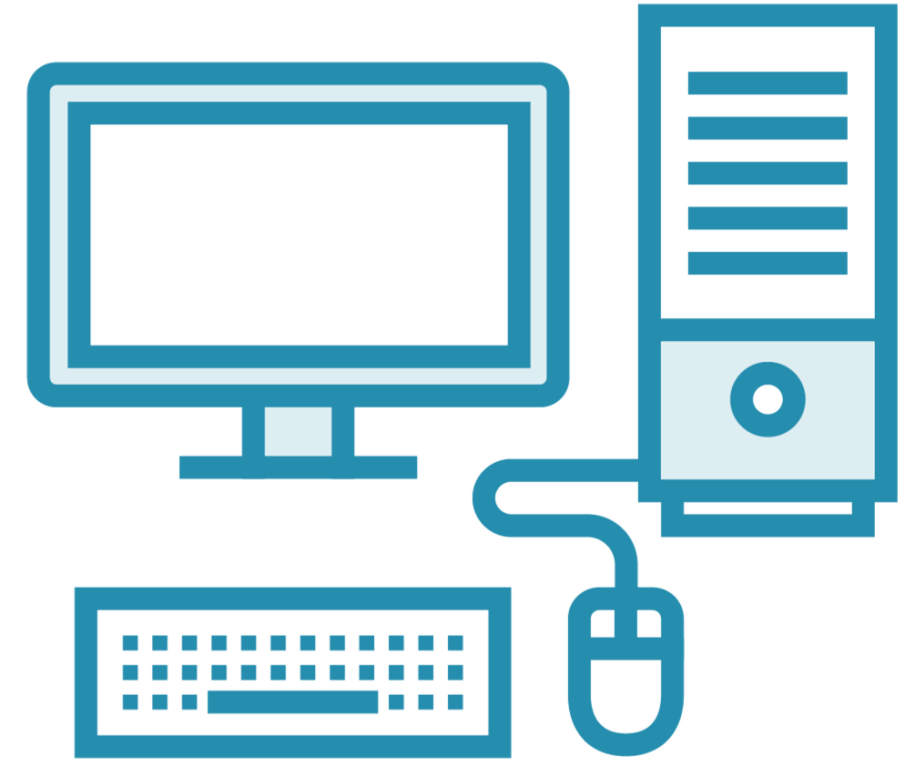
Network Defenses



Policies
Acceptable use
Downloads

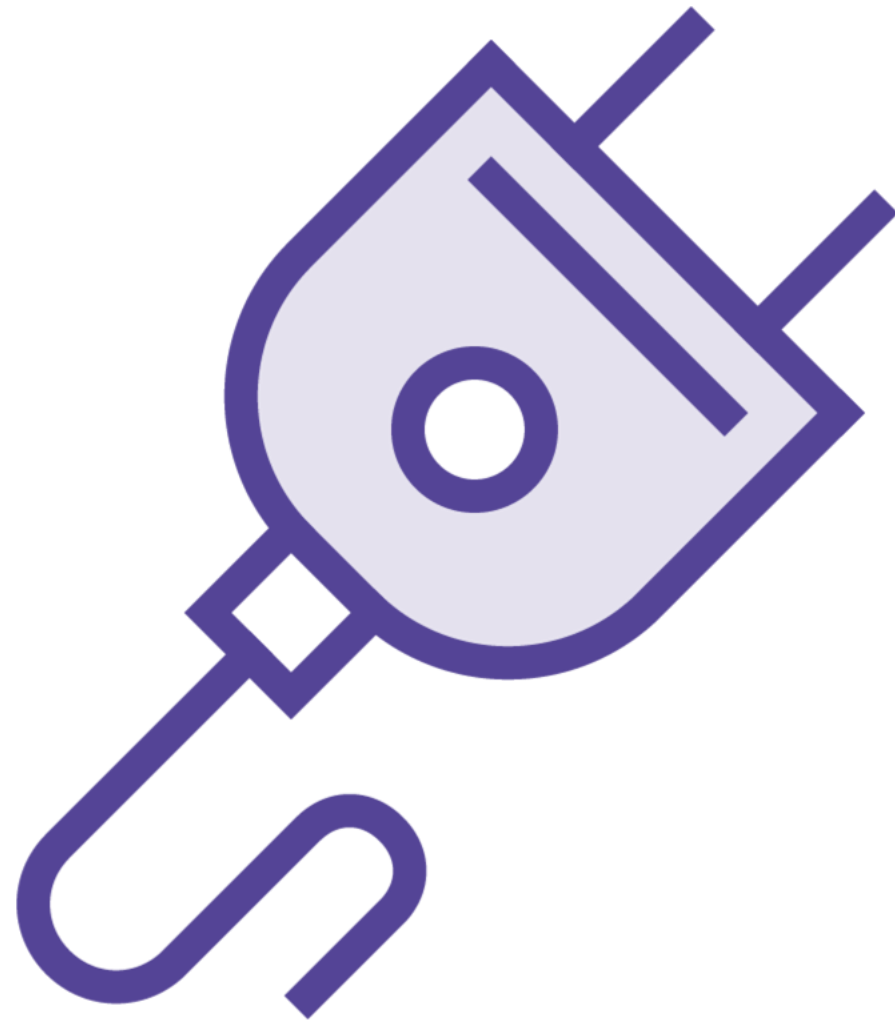


Firewalls
IDS
IPS



Scans
Anti-malware

Infrastructure



Power

HVAC

Cable protection



Network Design



Network segmentation

DMZ

VLANs

Cloud-based services



Next Steps



Review and understand each topic area – not just memorization

Do the sample questions in the Study Guide

Proceed to the next domain – Security Operations for the Certified in Cybersecurity certification

