

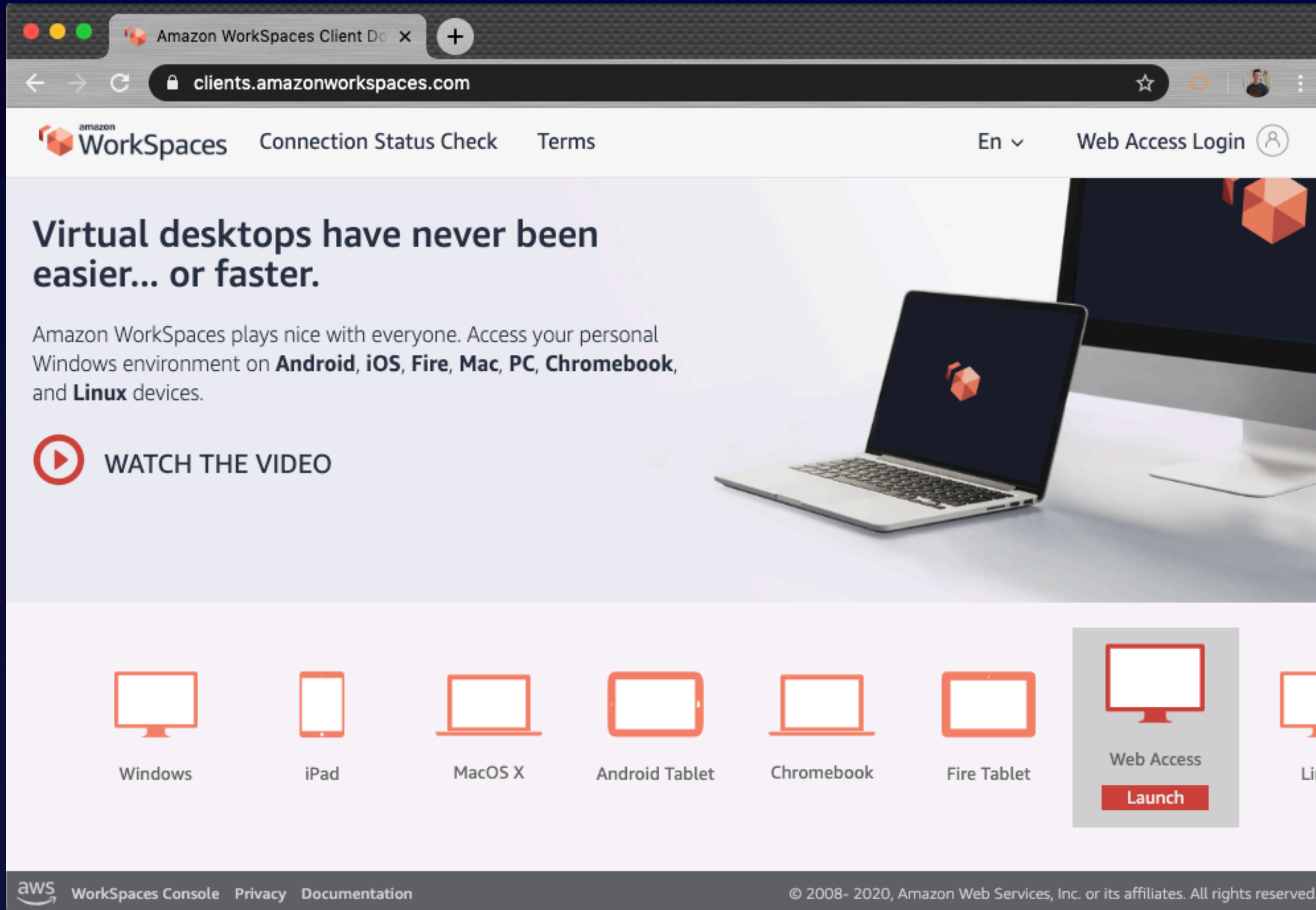
Amazon WorkSpaces



Brock Tubre

TECHNICAL INSTRUCTOR

End Users and WorkSpaces




Amazon WorkSpaces Client Desktop

clients.amazonworkspaces.com

amazon WorkSpaces Connection Status Check Terms En Web Access Login

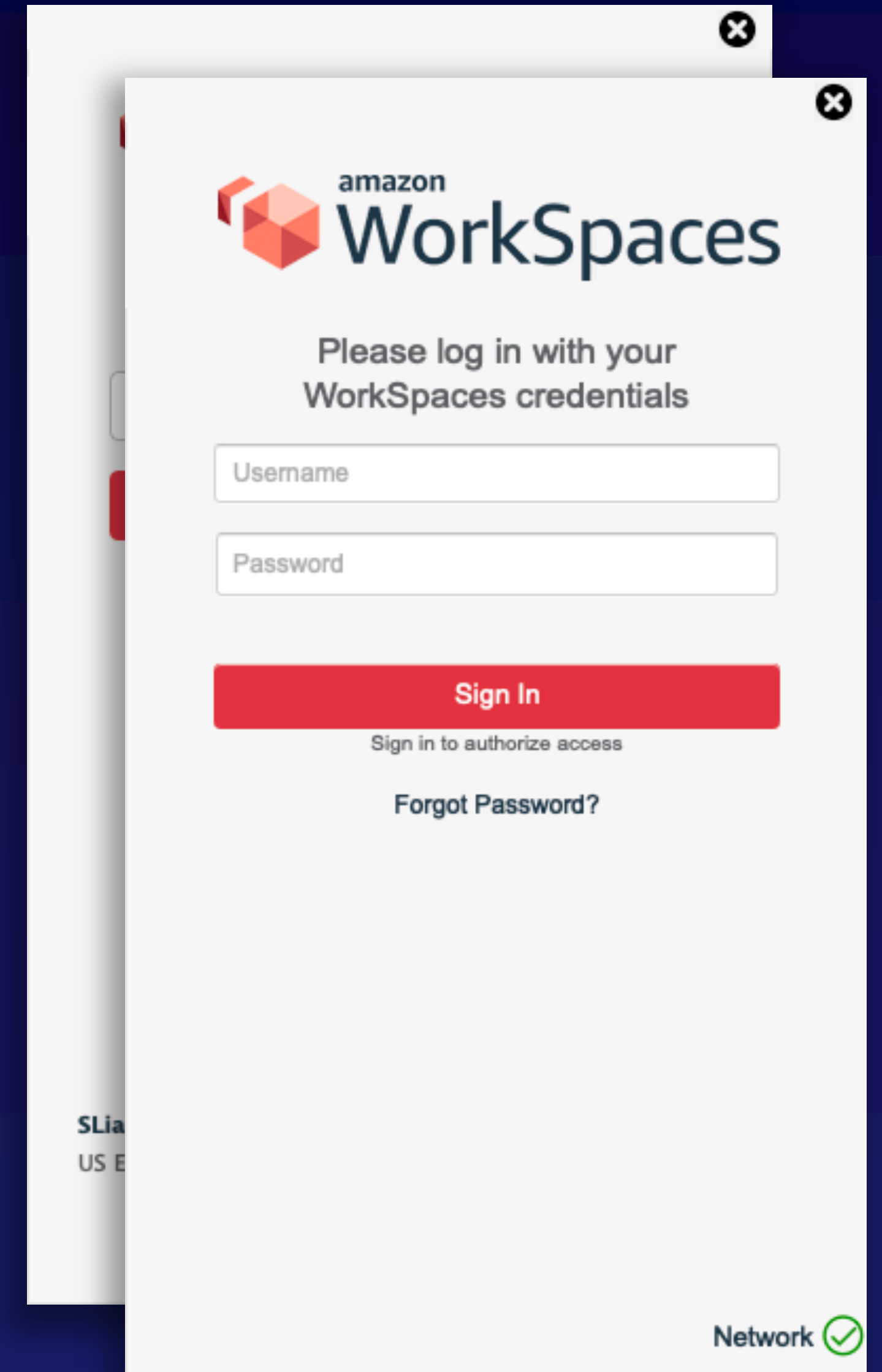
Virtual desktops have never been easier... or faster.

Amazon WorkSpaces plays nice with everyone. Access your personal Windows environment on **Android, iOS, Fire, Mac, PC, Chromebook,** and **Linux** devices.

 WATCH THE VIDEO

Windows iPad MacOS X Android Tablet Chromebook Fire Tablet **Web Access** Launch

aws WorkSpaces Console Privacy Documentation © 2008- 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved.



amazon WorkSpaces

Please log in with your WorkSpaces credentials


Username

Password

Sign In

Sign in to authorize access

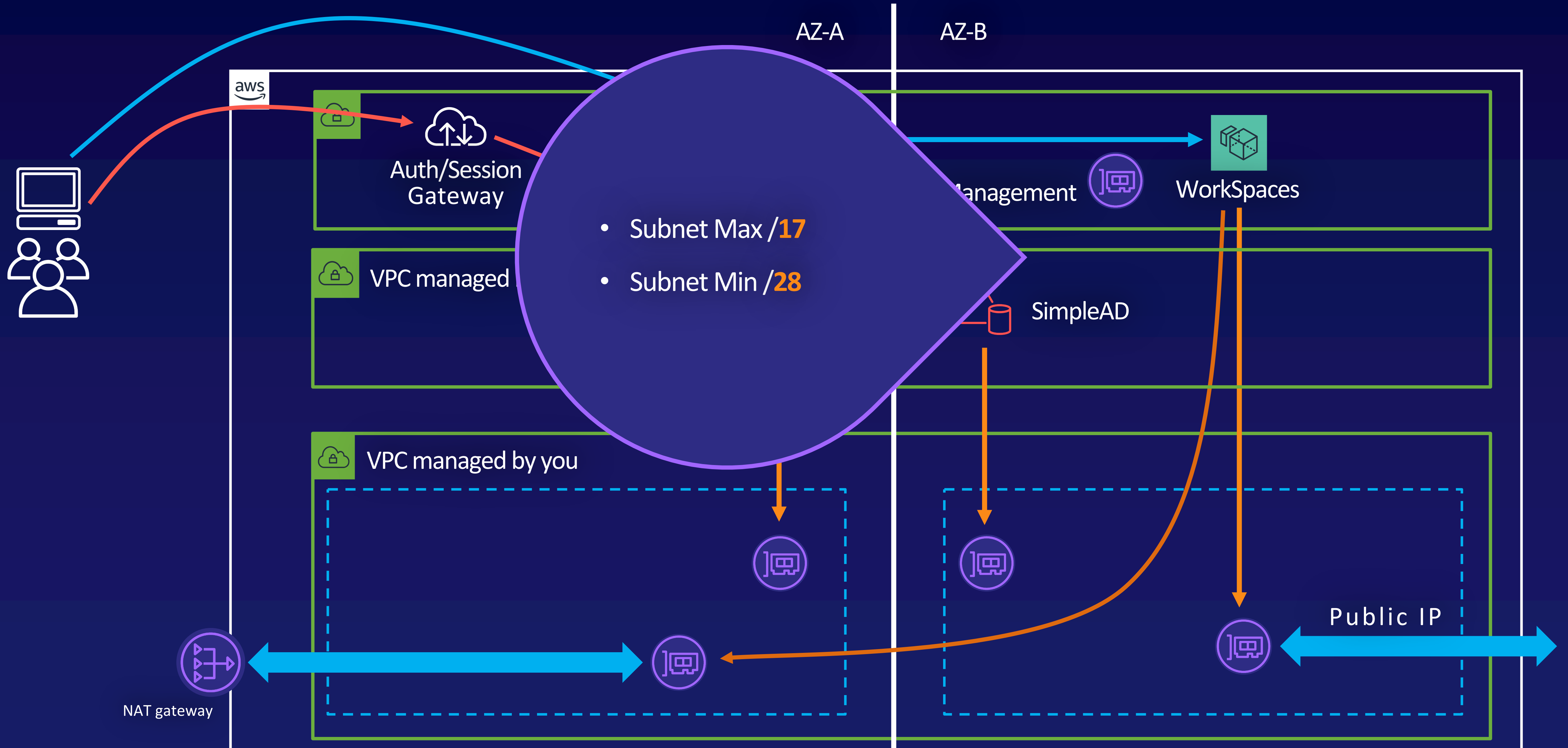
[Forgot Password?](#)

Network 

End Users and WorkSpaces



Amazon WorkSpaces Architecture



3 Exam Tips

1

Reserved IP Addresses

Remember that AWS reserves 5 IP addresses in each subnet and the **directory service will reserve 1 address** in each subnet.

2

Understand Product Specific Limits

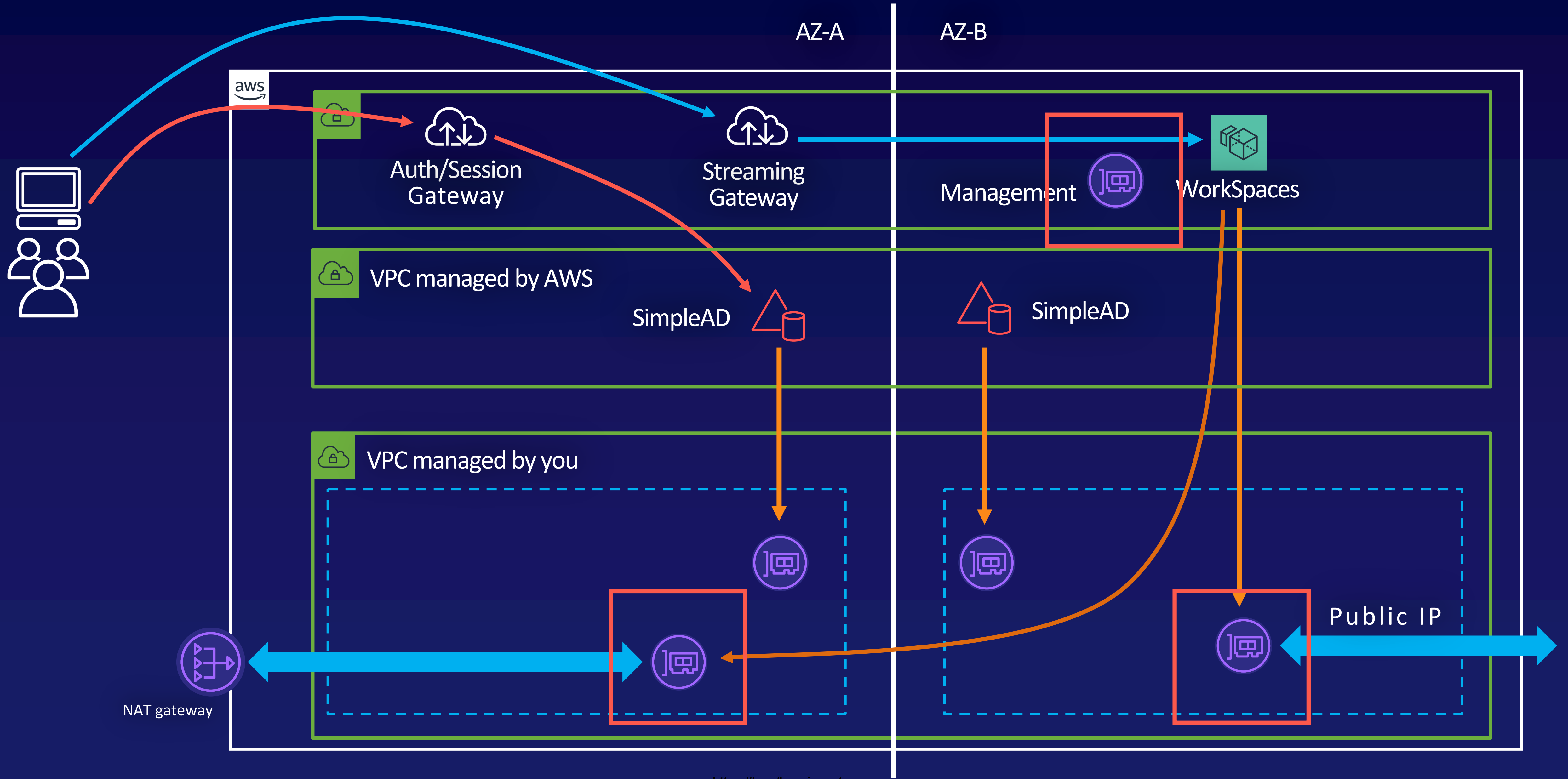
You'll be asked to determine a subnet size or subnet mask needed. Be aware of the product specific limitations.

3

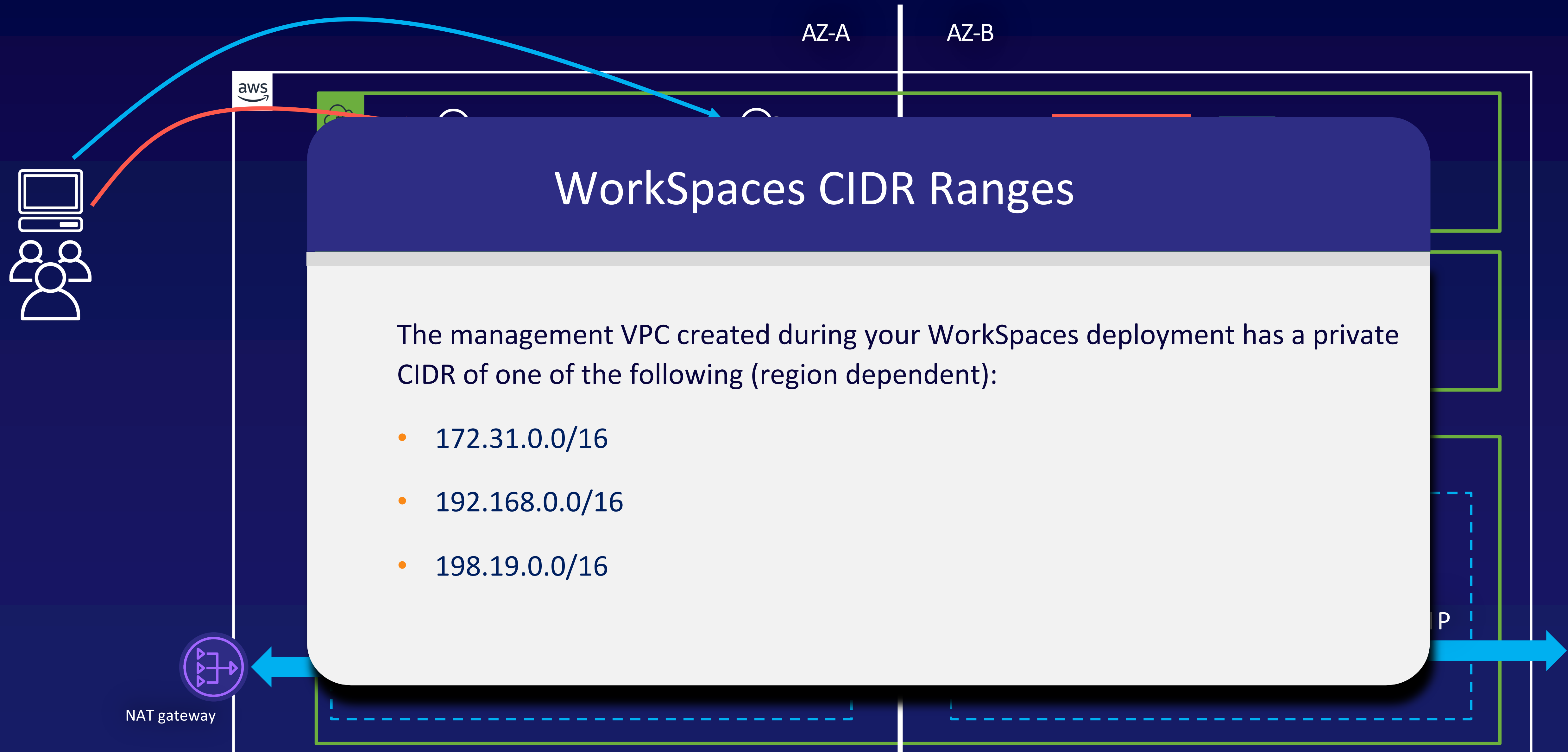
Diagnose WorkSpaces Issues

Be aware of the number of WorkSpaces needed and whether or not you'll be using a public IP address or using NAT.

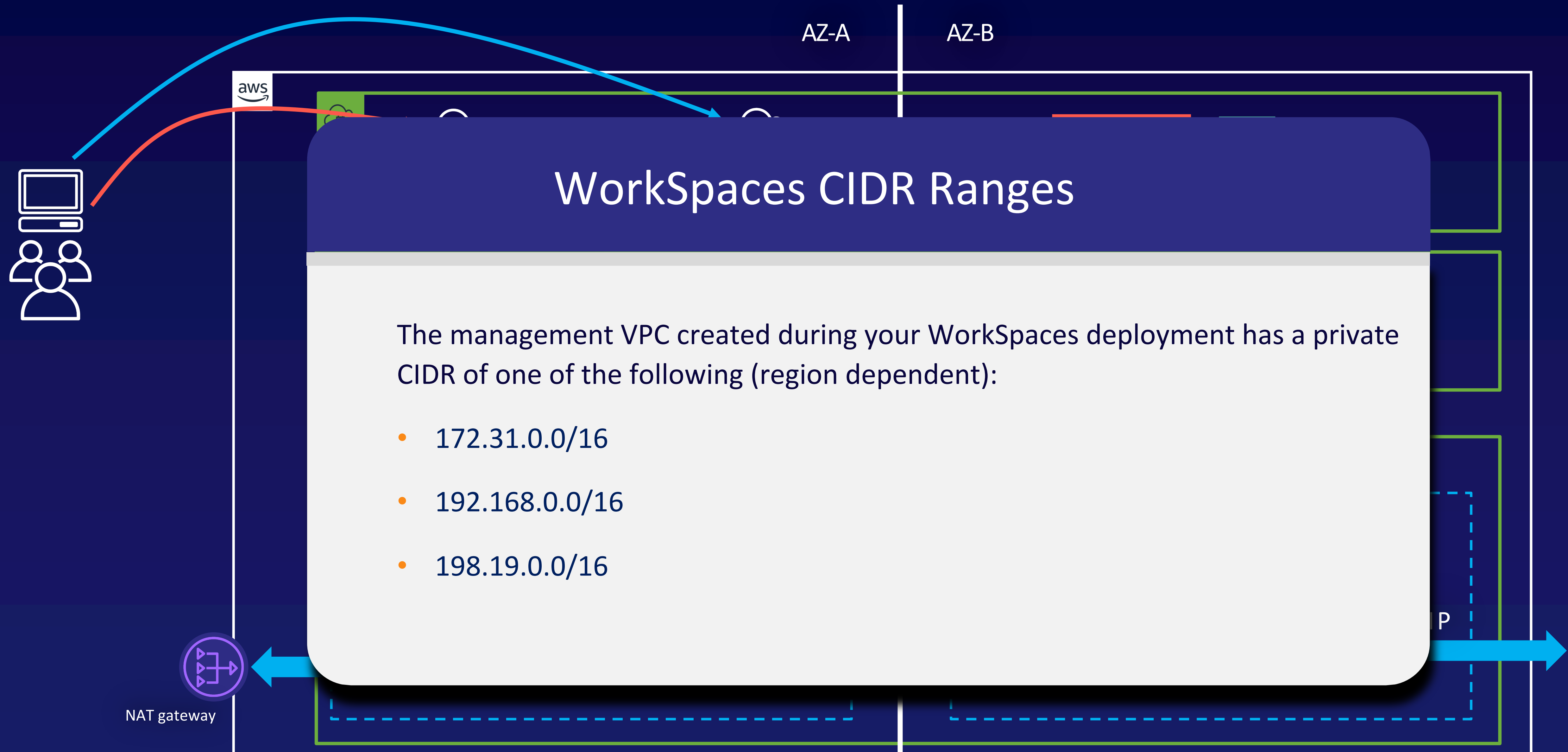
Amazon WorkSpaces Architecture



Amazon WorkSpaces Architecture



Amazon WorkSpaces Architecture



Requirements for Amazon WorkSpaces

1

Client Application

You'll need a supported client device.

2

You'll Need A VPC

To deploy WorkSpaces, a minimum of two subnets with a multi-AZ setup is required. Each WorkSpace will have a network interface in one of the subnets.

3

Directory Service

You can use AWS Directory Service or Active Directory to manage users. On-premise Active Directory can also be used.

4

Security Groups

Network access to and from WorkSpaces can be controlled using security groups.

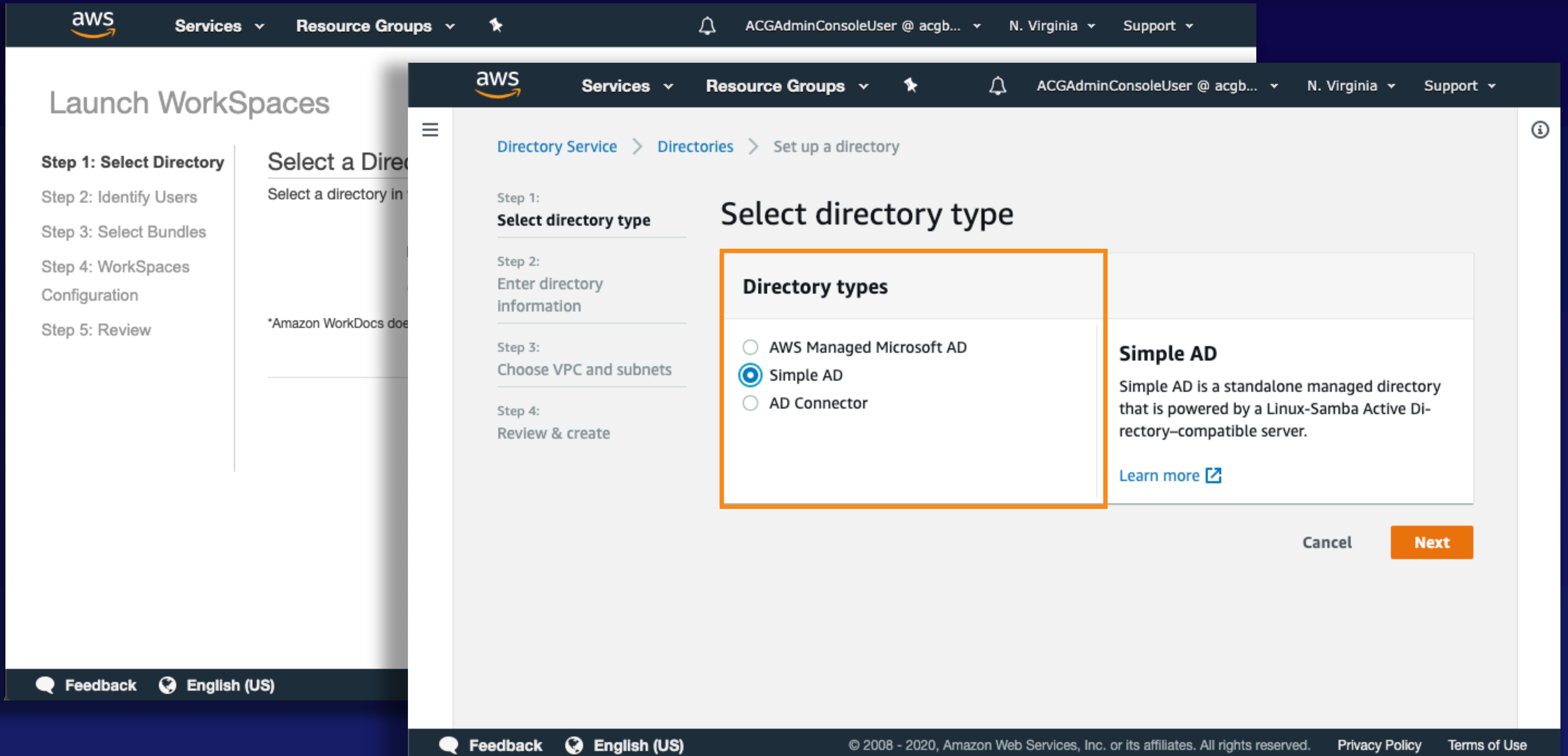
Directory Type	Description
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Directory Type	Description
AWS Managed Microsoft AD	Easily use your Active Directory aware workloads to use managed Microsoft Active Directory.

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Directory Type	Description
AWS Managed Microsoft AD	Easily use your Active Directory aware workloads to use managed Microsoft Active Directory.
Simple AD	Small – 500 users, 2,000 objects. Large – 5,000 users, 20,000 objects.
AD Connector	A proxy for redirecting requests to existing Microsoft Active Directory without caching information.

Launching a Workspace



The screenshot displays the AWS Management Console interface for launching a workspace. The main navigation bar at the top shows the AWS logo, 'Services', 'Resource Groups', a notification bell, the user 'ACGAdminConsoleUser @ acgb...', the region 'N. Virginia', and 'Support'. The left sidebar contains a 'Launch WorkSpaces' section with a list of steps: Step 1: Select Directory (highlighted), Step 2: Identify Users, Step 3: Select Bundles, Step 4: WorkSpaces Configuration, and Step 5: Review. The main content area shows the 'Set up a directory' wizard with the following steps: Step 1: Select directory type (current step), Step 2: Enter directory information, Step 3: Choose VPC and subnets, and Step 4: Review & create. The 'Select directory type' step is expanded to show three options: 'AWS Managed Microsoft AD', 'Simple AD' (selected with a blue radio button), and 'AD Connector'. The 'Simple AD' option is highlighted with an orange border. A detailed description for 'Simple AD' is provided: 'Simple AD is a standalone managed directory that is powered by a Linux-Samba Active Directory-compatible server.' Below this description is a 'Learn more' link with an external icon. At the bottom right of the wizard, there are 'Cancel' and 'Next' buttons.

Launch WorkSpaces

Step 1: Select Directory

Step 2: Identify Users

Step 3: Select Bundles

Step 4: WorkSpaces Configuration

Step 5: Review

Select a Directory

Select a directory in

*Amazon WorkDocs doc

Directory Service > Directories > Set up a directory

Step 1:
Select directory type

Step 2:
Enter directory information

Step 3:
Choose VPC and subnets

Step 4:
Review & create

Select directory type

Directory types

- AWS Managed Microsoft AD
- Simple AD
- AD Connector

Simple AD

Simple AD is a standalone managed directory that is powered by a Linux-Samba Active Directory-compatible server.

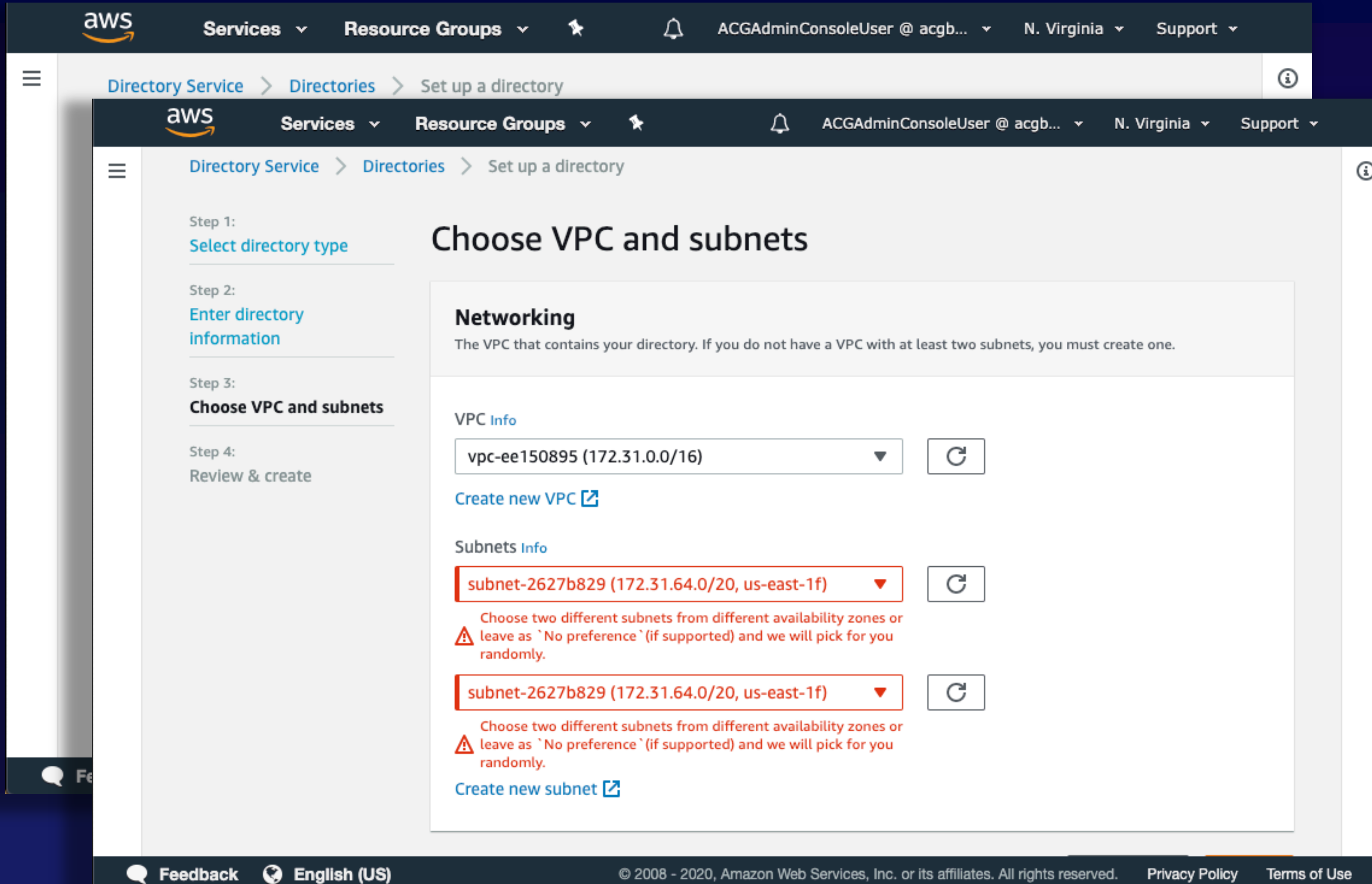
[Learn more](#)

Cancel **Next**

Feedback English (US)

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Launching a Workspace



The screenshot shows the AWS Directory Service console during the 'Set up a directory' process. The interface is divided into four steps: Step 1: Select directory type, Step 2: Enter directory information, Step 3: Choose VPC and subnets (currently active), and Step 4: Review & create. The 'Networking' section is highlighted, indicating that a VPC and two subnets must be selected. The VPC dropdown is set to 'vpc-ee150895 (172.31.0.0/16)'. Two subnets are selected, both set to 'subnet-2627b829 (172.31.64.0/20, us-east-1f)'. A warning message is displayed below the subnets, stating: 'Choose two different subnets from different availability zones or leave as `No preference` (if supported) and we will pick for you randomly.' The console also shows the user's account information (ACGAdminConsoleUser @ acgb...), the region (N. Virginia), and the support link.



Directory Service is associated with **two** subnets – in **two** AZs.



Multiple directories can be associated with each subnet pair.

Launching a Workspace

Directory details Reset user password ↻

aws Services Resource Groups ACGAdminConsoleUser @ acgb... N. Virginia Support

New EC2 Experience Tell us what you think

Create Network Interface Attach Detach Delete Actions

Filter by tags and attributes or search by keyword 1 to 2 of 2

Name	Network interface ID	Subnet ID	VPC ID	Zone	Security groups
<input checked="" type="checkbox"/>	eni-01f2c54385be09ab0	subnet-d1c113b6	vpc-ee150895	us-east-1d	d-90670a7f9c_cont...
<input type="checkbox"/>	eni-0c185ced730f1556d	subnet-f4781cbe	vpc-ee150895	us-east-1b	d-90670a7f9c_cont...

Network Interface: eni-01f2c54385be09ab0

Details Flow Logs Tags

Network interface ID	eni-01f2c54385be09ab0	Subnet ID	subnet-d1c113b6
VPC ID	vpc-ee150895	Availability Zone	us-east-1d
MAC address	02:43:28:f0:29:43	Description	AWS created network interface for directory d-90670a7f9c
Security groups	d-90670a7f9c_controllers. view inbound rules. view outbound rules	Network interface owner	442771530490

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Launching a Workspace

Identify Users

To create a Workspace for existing users in this directory, search and select from the search results below.

Select Bundle

Select a Linux bundle or a Windows bundle which includes the application you want to use.

The screenshot shows the AWS Management Console interface for a Network Interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The main content area is titled 'WorkSpaces' and shows a search for 'eni-007ccd530a098f651'. A table lists the search results, with one entry highlighted: 'eni-007ccd530a098f651' in subnet 'subnet-f4781cbe' of VPC 'vpc-ee150895' in 'us-east-1b' zone, with security groups 'd-90670a7f9c_workspacesMembers'. Below the table, the 'Details' tab for this Network Interface is expanded, showing various attributes. An orange arrow points to the 'Security groups' field, which lists 'd-90670a7f9c_workspacesMembers'. Another orange arrow points to the 'IPv4 Public IP' field, which shows '34.206.83.142'.

Name	Network interface ID	Subnet ID	VPC ID	Zone	Security groups	Description
	eni-007ccd530a098f651	subnet-f4781cbe	vpc-ee150895	us-east-1b	d-90670a7f9c_work...	Created By Am...

Network Interface: eni-007ccd530a098f651			
Details			
Network interface ID	eni-007ccd530a098f651	Subnet ID	subnet-f4781cbe
VPC ID	vpc-ee150895	Availability Zone	us-east-1b
MAC address	0a:b6:c4:21:a0:21	Description	Created By Amazon Workspaces for AWS Account ID 442771530490
Security groups	d-90670a7f9c_workspacesMembers.	Network interface owner	442771530490
Status	in-use	Primary private IPv4 IP	172.31.28.135
Private DNS (IPv4)	ip-172-31-28-135.ec2.internal	IPv4 Public IP	34.206.83.142*
Secondary private IPv4 IPs	-	IPv6 IPs	-

✓ A Workspace is linked to **one** directory.

✓ One IP address per subnet.

✓ A Workspace is in one subnet/AZ.

End Users WorkSpace

The screenshot shows a web browser window with the URL `clients.amazonworkspaces.com`. The page features the Amazon WorkSpaces logo, navigation links for "Connection Status Check" and "Terms", and a language selector set to "En". A main banner reads "Virtual desktops have never been easier... or faster." and includes a "WATCH THE VIDEO" button. Below the banner is a row of device icons: Windows, iPad, MacOS X, Android Tablet, Chromebook, Fire Tablet, and Web Access. The "Web Access" icon is highlighted with a grey background and a red "Launch" button. The footer contains the AWS logo, links to "WorkSpaces Console", "Privacy", and "Documentation", and a copyright notice: "© 2008- 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved."

The screenshot shows a login modal window with the Amazon WorkSpaces logo. The text "Please log in with your WorkSpaces credentials" is displayed above two input fields for "Username" and "Password". A prominent red "Sign In" button is centered below the fields. Underneath the button, it says "Sign in to authorize access" and provides a "Forgot Password?" link. A "Network" status indicator with a green checkmark is visible in the bottom right corner of the modal.

