## 07.5.5 AWS: Live Lab: Deploying and Managing Cloud Networks

*Cloud+ (Exam CV0-004)*

*Duration: 1 hour, 3 minutes*

**20/20**

Congratulations, you passed!

☑ Which of the following describes the function of the CIDR block when creating a VPC?    *Score: 1*

- ◉ It specifies the number of IP addresses assigned to the VPC
- ○ The Class-specific Inter-Domain Routing scheme the VPC will use
- ○ It indicates that the VPC will use both IPv4 and IPv6 addresses
- ○ It specifies the Classless Inter-Domain Reporting scheme the VPC will use

Great. Recall that the minimum number of IP addresses for a VPC is 16, and the maximum number is 65,536.

☑ Which of the following statements about VPC addressing is true? (Select Two)    *Score: 1*

- ☐ A VPC can use either IPv4 or IPv6 addressing but not both at the same time
- ☑ A VPC can use both IPv4 and IPv6 addressing at the same time
- ☐ An IPv4-based VPC must contain at least 1 block of IPv6 addresses
- ☑ An IPv6-based VPC must contain at least 1 block of IPv4 addresses

Correct. A VPC must be defined with at least one IPv4 CIDR block, and can optionally also be allocated one or more additional IPv4 or IPv6 CIDR blocks.

☑ **Check for VPC**    *Score: 1*
Verify that your VPC has been created.

☑ What is the function of the Internet Gateway?    *Score: 1*

- ◉ Provides for the flow of network traffic to/from the VPC
- ○ Provides for the flow of network traffic to the VPC but not from it
- ○ To provide internet access for private subnets.
- ○ Provides for the flow of network traffic from the VPC but not to it

☑ **Check for IGW**    *Score: 1*
Verify that an internet gateway has been created.
`Your Internet Gateway was detected!`

☑ True or False: AWS requires that all subnets within a VPC be in the same Availability Zone.    *Score: 1*

- ○ True
- ◉ <u>False</u>

Correct. Subnets can be created in any of the Availability Zones within a given region.

☑ A subnet created with a CIDR block of 10.0.0.0/28 has how many IP addresses?    *Score: 1*

- ○ 8
- ◉ <u>16</u>
- ○ 32
- ○ 64

Correct. The mask of /28 specifies the the subnet will have 16 IP address

☑ **Check for subnets**    *Score: 1*
Verify that public subnets have been created.
`Found 2 public subnets in different Availability Zones!`

☑ Which of the following statements are true about NAT gateways? (Choose all that apply)    *Score: 3*

- ☑ <u>NAT stands for Network Address Translation</u>
- ☑ <u>A NAT gateway can be deployed to either a public or private subnet</u>
- ☑ <u>A NAT gateway requires a public IP address</u>
- ☑ <u>A NAT gateway is used to allow resources in a private subnet to access the Internet if needed.</u>
- ☐ A NAT gateway permits both inbound and outbound traffic to flow to a subnet

Excellent.

☑ **Verify NAT gateway**    *Score: 1*
Verify that the NAT gateway has been created.
`Your NAT Gateway was detected!`

☑ True or False: a subnet can be associated with multiple route tables simultaneously.    *Score: 1*

- ○ True
- ◉ <u>False</u>

☑ What, generally, distinguishes a default route table from a custom one?    *Score: 1*

- ○ A default route table has no routes.
- ◉ <u>The 'Main' parameter for the default route table is set to "yes"</u>
- ○ The default route table has no explicit subnet associations.

○ A VPC can have more than one default route table.

**Verify public route table**                                                          *Score: 1*
Verify that a public route table has been created.
`Your Public Route was correctly configured!`

**Verify private route table**                                                         *Score: 1*
Verify that a private route table has been created.
`Your Private Route was correctly configured!`

☑ What is the maximum number of IPv4 addresses can a VPC have?                          *Score: 1*

○ As many as needed

○ 24K

◉ 65,536

○ There is no limit

☑ Which of the following must be added to a VPC configuration to enable internet hosts to    *Score: 1*
establish connections with hosts within a subnet? (Select Two)

☐ Domain Name System (DNS) server
☐ Classless Interdomain Routing (CIDR) network prefix
☑ Internet Gateway (IGW)
☐ Dynamic Host Configuration (DHCP) server
☑ Route table

☑ Which VPC resource requires an EIP?                                                  *Score: 1*

○ IGW

◉ NAT

○ A public subnet

○ A route table

Correct. Remember that an EIP is an Elastic IP address and gets assigned to the NAT Gateway so that
it is reachable from the Internet.

☑ Can an Internet gateway be associated with more than one VPC at the same time?       *Score: 1*

◉ Yes

○ No

Correct.