

Module 5 answer

1. With Amazon Virtual Private Cloud (Amazon VPC), what is the smallest size subnet you can have in a VPC? (Select the best answer.)

☐ /30

☐ /26

☐ /24

☒ /28

Correct

The smallest size subnet you can have in a VPC is /28.

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2. With Amazon Virtual Private Cloud (Amazon VPC), what is the maximum size IP address range you can have in a VPC? (Select the best answer.)

☐ /28

☒ /16

☐ /30

☐ /24

Correct

The maximum size IP address range you can have in a VPC is /16.

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3. You need to allow resources in a private subnet to access the internet. Which of the following must be present to enable this access? (Select the best answer.)

- ☐ Security groups
- ☒ NAT gateway
- ☐ Network access control lists
- ☐ Route tables

Correct

If you need to allow resources in a private subnet to access the internet, a NAT gateway must be present to enable this access.

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4. Which AWS networking service enables a company to create a virtual network within AWS? (Select the best answer.)

- ☐ AWS Config
- ☐ Amazon Route 53
- ☒ Amazon Virtual Private Cloud (Amazon VPC)
- ☐ AWS Direct Connect

Correct

Amazon Virtual Private Cloud enables a company to create a virtual network within AWS.

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5. True or False? Private subnets have direct access to the internet.

- ☐ True
- ☒ False

Correct

Private subnets do not have direct access to the internet.

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6. Which component of AWS Global Infrastructure does Amazon CloudFront use to ensure low-latency delivery? (Select the best answer.)

- ☒ AWS edge locations
- ☐ AWS Availability Zones
- ☐ AWS Regions
- ☐ Amazon Virtual Private Cloud (Amazon VPC)

Correct

To ensure low-latency delivery, Amazon CloudFront uses AWS edge locations.

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7. Which of the following is an optional security control that can be applied at the subnet layer of a VPC? (Select the best answer.)

- ☐ Firewall
- ☐ Web application firewall
- ☒ Network ACL
- ☐ Security group

Correct

A network ACL is an optional security control that can be applied at the subnet layer of a VPC.

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8. What happens when you use Amazon Virtual Private Cloud (Amazon VPC) to create a new VPC? (Select the best answer.)

- ☐ Three subnets are created by default in one Availability Zone.
- ☒ Three subnets are created by default: one for each Availability Zone.
- ☐ An internet gateway is created by default.
- ☒ A main route table is created by default.

Correct

When you create a VPC, a route table is created by default. You must manually create subnets and an internet gateway.

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9. Which of the following can be used to protect Amazon Elastic Compute Cloud (Amazon EC2) instances hosted in AWS? (Select the best answer.)

☐ Internet Gateway

☒ Security group

☐ AMI

☐ All of the above

Correct

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic

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10. You are a solutions architect who works at a large retail company that is migrating its existing infrastructure to AWS. You recommend that they use a custom VPC. When you create a VPC, you assign it to an IPv4 Classless Inter-Domain Routing (CIDR) block of 10.0.1.0/24 (which has 256 total IP addresses). How many IP addresses are available? (Select the best answer.)

☐ 250

☐ 246

☒ 251

☐ 256

Correct

The subnet has 256 IP addresses but only 251 are available because 5 are reserved.

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