

<b>Started on</b>	Tuesday, 26 August 2025, 9:59 AM
<b>State</b>	Finished
<b>Completed on</b>	Tuesday, 26 August 2025, 10:38 AM
<b>Time taken</b>	38 mins 16 secs
<b>Marks</b>	26.00/30.00
<b>Grade</b>	<b>86.67</b> out of 100.00

**Question 1**

Complete

Mark 0.00 out of 1.00

1. In AWS, what is the maximum number of VPCs per region (by default)?

- ☐ a. 20
- ☐ b. 5
- ☐ c. 10
- ☒ d. 1

**Question 2**

Complete

Mark 0.00 out of 1.00

2. Which CIDR block is invalid for a VPC?

- ☐ a. 224.0.0.0/16
- ☐ b. 192.168.0.0/16
- ☐ c. 10.0.0.0/16
- ☒ d. 172.16.0.0/12

**Question 3**

Complete

Mark 1.00 out of 1.00

3. What happens if you do not associate a custom route table with a subnet in a VPC?

- ☒ a. It automatically uses the main route table
- ☐ b. The subnet is assigned a default IGW
- ☐ c. Traffic is blocked
- ☐ d. The subnet cannot be used

**Question 4**

Complete

Mark 1.00 out of 1.00

4. Which AWS service is used to connect on-premises data centers securely to a VPC?

- ☐ a. Transit Gateway
- ☐ b. NAT Gateway
- ☐ c. VPC Endpoint
- ☒ d. Direct Connect

**Question 5**

Complete

Mark 1.00 out of 1.00

5. Which of the following is true about public subnets?

- ☐ a. They must be in different AZs
- ☐ b. They must use a NAT Gateway
- ☒ c. They require a route to an Internet Gateway
- ☐ d. They cannot have Security Groups

**Question 6**

Complete

Mark 1.00 out of 1.00

6. You create a subnet with CIDR block 10.0.1.0/24 inside a VPC with CIDR 10.0.0.0/16. Which of the following IP addresses can be assigned to an EC2 in that subnet?

- ☐ a. 10.0.1.0
- ☐ b. 10.0.1.255
- ☒ c. 10.0.1.1
- ☐ d. 10.0.2.5

**Question 7**

Complete

Mark 0.00 out of 1.00

7. Reserved IP addresses in each subnet include all except:

- ☐ a. Broadcast address
- ☐ b. DHCP address
- ☒ c. Network address
- ☐ d. Router address

**Question 8**

Complete

Mark 1.00 out of 1.00

8. If you want to host a web application across multiple AZs, what should you create?

- ☐ a. One subnet across multiple AZs
- ☒ b. Multiple subnets in different AZs
- ☐ c. NAT subnet per AZ
- ☐ d. Subnet groups within one AZ

**Question 9**

Complete

Mark 1.00 out of 1.00

9. An Internet Gateway is used to:

- ☒ a. Enable VPC communication with the internet
- ☐ b. Encrypt traffic in transit
- ☐ c. Connect EC2 instances to EBS volumes
- ☐ d. Connect two private VPCs

**Question 10**

Complete

Mark 1.00 out of 1.00

10. What is required to make an EC2 instance in a public subnet accessible from the internet?

- ☐ a. Only enable Source/Destination Check
- ☐ b. Associate a Security Group only
- ☐ c. Attach a NAT Gateway
- ☒ d. Attach an Internet Gateway + Route Table entry + Elastic IP/Auto-assigned public IP

**Question 11**

Complete

Mark 1.00 out of 1.00

11. How many IGWs can you attach to a VPC at a time?

- ☐ a. 5
- ☒ b. 1
- ☐ c. 2
- ☐ d. Unlimited

**Question 12**

Complete

Mark 1.00 out of 1.00

12. If you delete the Internet Gateway of a VPC, what happens to the instances in its public subnets?

- ☐ a. They are migrated to private subnets
- ☐ b. Nothing changes
- ☐ c. They stop running
- ☒ d. They lose internet access

**Question 13**

Complete

Mark 1.00 out of 1.00

13. A NAT Gateway allows:

- ☐ a. Public subnets to connect to the internet
- ☐ b. VPC peering
- ☐ c. VPN connections
- ☒ d. Private subnets to initiate outbound internet traffic

**Question 14**

Complete

Mark 1.00 out of 1.00

14. Which is NOT true about a NAT Gateway?

- ☐ a. It scales automatically
- ☐ b. It is managed by AWS
- ☒ c. It allows inbound connections from the internet
- ☐ d. It requires an Elastic IP

**Question 15**

Complete

Mark 1.00 out of 1.00

15. NAT Gateway must be deployed in:

- ☐ a. A private subnet
- ☒ b. A public subnet
- ☐ c. Any subnet
- ☐ d. Separate VPC

**Question 16**

Complete

Mark 1.00 out of 1.00

16. What is the alternative to NAT Gateway for cost saving?

- ☒ a. NAT Instance
- ☐ b. IGW
- ☐ c. VPC Peering
- ☐ d. Transit Gateway

**Question 17**

Complete

Mark 1.00 out of 1.00

17. If you want to connect a private subnet to the internet via a NAT Gateway, which entry must be in the private subnet's route table?

- ☐ a. 10.0.0.0/16 → IGW
- ☐ b. 0.0.0.0/0 → VPC Endpoint
- ☐ c. 0.0.0.0/0 → IGW
- ☒ d. 0.0.0.0/0 → NAT Gateway

**Question 18**

Complete

Mark 1.00 out of 1.00

18. Which route is automatically created in every route table?

- ☐ a. VPC Peering → local
- ☒ b. VPC CIDR → local
- ☐ c. 0.0.0.0/0 → IGW
- ☐ d. 0.0.0.0/0 → NAT Gateway

**Question 19**

Complete

Mark 1.00 out of 1.00

19. If you want two VPCs to communicate, what must be updated?

- ☒ a. Route Tables and VPC Peering
- ☐ b. Security Groups only
- ☐ c. NAT Gateway
- ☐ d. Elastic IP

**Question 20**

Complete

Mark 0.00 out of 1.00

20. A custom route table can be associated with:

- ☐ a. One VPC only
- ☐ b. Multiple subnets
- ☐ c. One subnet only
- ☒ d. Multiple VPCs

**Question 21**

Complete

Mark 1.00 out of 1.00

21. Which is true about Security Groups?

- ☐ a. They allow both inbound and outbound by default
- ☐ b. They support DENY rules
- ☐ c. They must be attached at the subnet level
- ☒ d. They are stateful

**Question 22**

Complete

Mark 1.00 out of 1.00

22. Which rule allows SSH access to an EC2 instance from anywhere?

- ☐ a. TCP 22, Source VPC CIDR
- ☐ b. TCP 22, Source 127.0.0.1/32
- ☐ c. TCP 22, Source ::1/128
- ☒ d. TCP 22, Source 0.0.0.0/0

**Question 23**

Complete

Mark 1.00 out of 1.00

23. You associate a new Security Group to an EC2 instance without rules. What happens?

- ☐ a. Both inbound and outbound denied
- ☐ b. All outbound traffic is denied, inbound allowed
- ☒ c. All inbound traffic is denied, outbound allowed
- ☐ d. All traffic is allowed

**Question 24**

Complete

Mark 1.00 out of 1.00

24. Difference between Security Groups and NACLs?

- ☒ a. SGs are applied at instance level, NACLs at subnet level
- ☐ b. SGs are stateless, NACLs are stateful
- ☐ c. SGs support DENY rules, NACLs don't
- ☐ d. Both SGs and NACLs work only at the VPC level

**Question 25**

Complete

Mark 1.00 out of 1.00

25. Which EC2 purchasing option provides the biggest discount but requires a long-term contract?

- ☐ a. On-Demand Instances
- ☐ b. Dedicated Hosts
- ☒ c. Reserved Instances
- ☐ d. Spot Instances

**Question 26**

Complete

Mark 1.00 out of 1.00

26. Which option ensures EC2 instances maintain the same private IP even after stop/start?

- ☒ a. ENI (Elastic Network Interface)
- ☐ b. Auto Scaling
- ☐ c. Placement Group
- ☐ d. Elastic IP

**Question 27**

Complete

Mark 1.00 out of 1.00

27. Which feature allows attaching multiple network interfaces to a single EC2?

- ☒ a. Elastic Network Interface (ENI)
- ☐ b. Route Table
- ☐ c. Security Group
- ☐ d. VPC Peering

**Question 28**

Complete

Mark 1.00 out of 1.00

28. What is the default behavior when you terminate an EC2 instance with an attached EBS root volume?

- ☐ a. The root volume is preserved
- ☐ b. The root volume becomes read-only
- ☐ c. It is moved to S3
- ☒ d. The root volume is deleted

**Question 29**

Complete

Mark 1.00 out of 1.00

29. Which placement group is best for low-latency, high-throughput applications?

- ☒ a. Cluster
- ☐ b. Partition
- ☐ c. Dedicated
- ☐ d. Spread

**Question 30**

Complete

Mark 1.00 out of 1.00

30. To scale EC2 instances automatically based on CPU usage, you use:

- ☐ a. Placement Groups
- ☐ b. Elastic Beanstalk
- ☒ c. Auto Scaling Group + CloudWatch Alarm
- ☐ d. EC2 Image Builder