Started on	Tuesday, 26 August 2025, 10:00 AM
State	Finished
Completed on	Tuesday, 26 August 2025, 10:07 AM
Time taken	7 mins 15 secs
Marks	20.00/30.00
Grade	**66.67** 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. 1
- ○ b. 5
- ○ c. 10
- ○ d. 20

Question 2

Complete

Mark 0.00 out of 1.00

2. Which CIDR block is invalid for a VPC?

- ○ a. 192.168.0.0/16
- ○ b. 224.0.0.0/16
- ◉ c. 172.16.0.0/12
- ○ d. 10.0.0.0/16

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

Question 4

Complete

Mark 0.00 out of 1.00

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

○ a.   VPC Endpoint

◉ b.   NAT Gateway

○ c.   Direct Connect

○ d.   Transit Gateway

Question 5

Complete

Mark 1.00 out of 1.00

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

◉ a.   They require a route to an Internet Gateway

○ b.   They cannot have Security Groups

○ c.   They must be in different AZs

○ d.   They must use a NAT Gateway

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 1.00 out of 1.00

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

○ a.   Network address

◉ b.   DHCP address

○ c.   Router address

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

Question 11

Complete

Mark 1.00 out of 1.00

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

- ○ a. Unlimited
- ◉ b. 1
- ○ c. 2
- ○ d. 5

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

Question 13

Complete

Mark 1.00 out of 1.00

13. A NAT Gateway allows:

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

Question 14

Complete

Mark 1.00 out of 1.00

14. Which is NOT true about a NAT Gateway?

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

Question 15

Complete

Mark 1.00 out of 1.00

15. NAT Gateway must be deployed in:

- ○ a.   Any subnet
- ○ b.   A private subnet
- ◉ c.   A public subnet
- ○ d.   Separate VPC

Question 16

Complete

Mark 0.00 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.   0.0.0.0/0 → VPC Endpoint

◉ b.   0.0.0.0/0 → NAT Gateway

○ c.   0.0.0.0/0 → IGW

○ d.   10.0.0.0/16 → IGW

Question 18

Complete

Mark 1.00 out of 1.00

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

◉ a.   VPC CIDR → local

○ b.   0.0.0.0/0 → NAT Gateway

○ c.   0.0.0.0/0 → IGW

○ d.   VPC Peering → local

Question 19

Complete

Mark 1.00 out of 1.00

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

○ a.   Elastic IP

○ b.   Security Groups only

◉ c.   Route Tables and VPC Peering

○ d.   NAT Gateway

Question 20

Complete

Mark 1.00 out of 1.00

20. A custom route table can be associated with:

○ a.   One VPC only

◉ b.   Multiple subnets

○ c.   Multiple VPCs

○ d.   One subnet only

Question 21

Complete

Mark 0.00 out of 1.00

21. Which is true about Security Groups?

◉ a.   They allow both inbound and outbound by default

○ b.   They must be attached at the subnet level

○ c.   They are stateful

○ d.   They support DENY rules

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 0.0.0.0/0

○ b.   TCP 22, Source ::1/128

○ c.   TCP 22, Source 127.0.0.1/32

○ d.   TCP 22, Source VPC CIDR

Question 23

Complete

Mark 0.00 out of 1.00

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

○ a.   All traffic is allowed

○ b.   All inbound traffic is denied, outbound allowed

○ c.   All outbound traffic is denied, inbound allowed

◉ d.   Both inbound and outbound denied

Question 24

Complete

Mark 1.00 out of 1.00

24. Difference between Security Groups and NACLs?

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

Question 25

Complete

Mark 0.00 out of 1.00

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

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

Question 26

Complete

Mark 0.00 out of 1.00

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

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

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. VPC Peering
- d. Security Group

Question 28

Complete

Mark 0.00 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 is deleted
- ◯ c. It is moved to S3
- ◯ d. The root volume becomes read-only

Question 29

Complete

Mark 0.00 out of 1.00

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

- ⦿ a. Spread
- ◯ b. Dedicated
- ◯ c. Partition
- ◯ d. Cluster

Question 30

Complete

Mark 1.00 out of 1.00

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

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