Started on	Tuesday, 26 August 2025, 10:00 AM
State	Finished
Completed on	Tuesday, 26 August 2025, 10:11 AM
Time taken	11 mins 2 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.　10
- ○ c.　20
- ○ d.　5

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

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.   Transit Gateway
- ◯ c.   Direct Connect
- ◯ d.   NAT 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 must use a NAT Gateway
- ◯ c.   They cannot have Security Groups
- ◯ d.   They must be in different AZs

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.   Router address
- ◯ c.   Broadcast address
- ⦿ d.   DHCP 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.   Subnet groups within one AZ
- ○ b.   NAT subnet per AZ
- ○ c.   One subnet across multiple AZs
- ◉ d.   Multiple subnets in different AZs

Question 9

Complete

Mark 1.00 out of 1.00

9. An Internet Gateway is used to:

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

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

Question 11

Complete

Mark 0.00 out of 1.00

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

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

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.   Nothing changes
- ○ c.   They are migrated to private subnets
- ○ d.   They stop running

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.   VPN connections
- ○ d.   VPC peering

Question 14

Complete

Mark 1.00 out of 1.00

14. Which is NOT true about a NAT Gateway?

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

Question 15

Complete

Mark 1.00 out of 1.00

15. NAT Gateway must be deployed in:

- ● a.   A public subnet
- ○ b.   Any subnet
- ○ c.   A private 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 → NAT Gateway
- ○ b.   10.0.0.0/16 → IGW
- ○ c.   0.0.0.0/0 → IGW
- ○ d.   0.0.0.0/0 → VPC Endpoint

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 → IGW
- ○ c.   VPC Peering → local
- ○ 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.   NAT Gateway
- ○ b.   Security Groups only
- ◉ c.   Route Tables and VPC Peering
- ○ d.   Elastic IP

Question 20

Complete

Mark 0.00 out of 1.00

20. A custom route table can be associated with:

○ a.   Multiple subnets

○ b.   One VPC only

◉ c.   One subnet only

○ d.   Multiple VPCs

Question 21

Complete

Mark 0.00 out of 1.00

21. Which is true about Security Groups?

○ a.   They are stateful

○ b.   They allow both inbound and outbound by default

◉ c.   They support DENY rules

○ d.   They must be attached at the subnet level

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 VPC CIDR

○ d.   TCP 22, Source 127.0.0.1/32

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 outbound traffic is denied, inbound allowed

◉ b.   Both inbound and outbound denied

○ c.   All traffic is allowed

○ d.   All inbound traffic is denied, outbound allowed

Question 24

Complete

Mark 1.00 out of 1.00

24. Difference between Security Groups and NACLs?

○ a.   SGs are stateless, NACLs are stateful

○ b.   SGs support DENY rules, NACLs don't

○ c.   Both SGs and NACLs work only at the VPC level

◉ d.   SGs are applied at instance level, NACLs at subnet 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.   Reserved Instances

○ b.   Dedicated Hosts

○ c.   On-Demand Instances

○ 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.   Security Group

○ b.   Route Table

○ c.   VPC Peering

◉ d.   Elastic Network Interface (ENI)

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 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. Dedicated
- ○ b. Spread
- ○ c. Cluster
- ○ d. Partition

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. EC2 Image Builder
- ◉ c. Auto Scaling Group + CloudWatch Alarm
- ○ d. Elastic Beanstalk