

# ❑ EASY (10 Questions)

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## **Q1. AWS is primarily a:**

- A. On-premises server solution
  - B. Cloud computing platform
  - C. Version control system
  - D. Virtual machine hypervisor
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## **Q2. Amazon EC2 provides:**

- A. Managed databases
  - B. Scalable virtual server instances
  - C. Object storage
  - D. Serverless function execution
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## **Q3. AWS Lambda is used for:**

- A. Launching virtual machines
  - B. Running serverless functions without managing servers
  - C. Hosting relational databases
  - D. Managing IAM roles
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## **Q4. Amazon S3 is primarily used for:**

- A. Virtual machine provisioning
  - B. Object storage in the cloud
  - C. Lambda function execution
  - D. Networking configuration
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**Q5. Which AWS service allows creation of isolated virtual networks?**

- A. VPC
  - B. EC2
  - C. Lambda
  - D. CloudFront
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**Q6. When launching an EC2 instance, you must choose:**

- A. A Lambda runtime
  - B. An AMI (Amazon Machine Image)
  - C. S3 bucket policies
  - D. VPC route tables only
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**Q7. By default, an S3 bucket:**

- A. Is private
  - B. Is publicly accessible
  - C. Cannot store objects larger than 1 MB
  - D. Does not require an AWS account
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**Q8. Public subnets in AWS VPC:**

- A. Can route traffic to the internet via an Internet Gateway
  - B. Cannot access the internet
  - C. Must contain Lambda functions only
  - D. Are automatically private
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**Q9. Private subnets in AWS VPC are typically used to host:**

- A. Public websites
  - B. Backend servers and databases
  - C. Internet gateways
  - D. S3 buckets
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**Q10. Which AWS component allows secure access between EC2 instances in different subnets?**

- A. Internet Gateway
  - B. Security Groups and Route Tables
  - C. Lambda
  - D. CloudWatch
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## MEDIUM (15 Questions)

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**Q11. To connect a public EC2 instance to the internet, you must attach:**

- A. Private IP
  - B. Elastic IP and Internet Gateway
  - C. NAT Gateway only
  - D. S3 bucket
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**Q12. Which of the following is a correct AWS Lambda use case?**

- A. Hosting a relational database
  - B. Event-driven image resizing
  - C. Launching EC2 VMs
  - D. Storing large objects
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**Q13. In AWS, the difference between public and private subnets is:**

- A. Only CIDR notation
  - B. Internet accessibility
  - C. S3 permissions
  - D. EC2 instance type
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**Q14. Which AWS service is best for storing logs, backups, and media files?**

- A. EC2
  - B. S3
  - C. Lambda
  - D. VPC
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**Q15. What is the default VPC CIDR block for AWS?**

- A. 10.0.0.0/16
  - B. 172.16.0.0/16
  - C. 192.168.0.0/16
  - D. 0.0.0.0/0
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**Q16. Scenario: You want to allow HTTP traffic to your private EC2 instance via a public EC2. What AWS feature is essential?**

- A. Security Groups and SSH only
  - B. NAT Gateway
  - C. Security Groups and curl from public instance
  - D. Direct Internet Gateway
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**Q17. Which AWS feature allows execution of code without provisioning servers?**

- A. EC2 Auto Scaling
  - B. Lambda functions
  - C. S3 bucket
  - D. VPC Peering
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**Q18. Elastic IP in AWS is used for:**

- A. Private IP addressing
  - B. Static public IP for EC2 instances
  - C. VPC subnet masking
  - D. Lambda execution
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**Q19. Security Groups in AWS:**

- A. Act as virtual firewalls for EC2 instances
  - B. Provide automatic scaling
  - C. Store objects securely
  - D. Create serverless functions
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**Q20. In AWS, a VPC route table is used to:**

- A. Encrypt S3 objects
  - B. Direct network traffic between subnets and gateways
  - C. Launch EC2 instances
  - D. Run Lambda functions
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**Q21. Which AWS EC2 instance type is best for compute-intensive workloads?**

- A. T2.micro
  - B. C5
  - C. S3 Standard
  - D. Lambda runtime
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**Q22. Scenario: You must allow a private EC2 instance to download updates from the internet. What is required?**

- A. Internet Gateway
  - B. NAT Gateway
  - C. Elastic IP
  - D. Public subnet
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**Q23. Amazon S3 buckets have global uniqueness because:**

- A. Each object has a unique ID
  - B. Bucket names are globally unique across AWS
  - C. Subnets ensure uniqueness
  - D. Lambda functions manage names
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**Q24. AWS EC2 user-data scripts are executed:**

- A. At every reboot
  - B. During initial instance launch
  - C. Only on private instances
  - D. Only on public instances
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**Q25. Scenario: You need secure communication between EC2 instances in public and private subnets. Which AWS services ensure this?**

- A. IAM and S3
  - B. Security Groups and Private IP routing
  - C. Lambda triggers
  - D. CloudWatch alarms
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## HARD (15 Questions)

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**Q26. Scenario: Create a VPC named `ditiss-lab` with CIDR `172.20.0.0/16`. Assign `172.20.5.0/24` to public subnet and `172.20.10.0/24` to private subnet. Which AWS component is required for the public subnet to access the internet?**

- A. NAT Gateway
  - B. Internet Gateway
  - C. S3 Endpoint
  - D. VPC Peering
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**Q27. During the EC2 setup, which step ensures that the private instance can respond to curl requests from the public instance?**

- A. Attach Internet Gateway to private subnet
  - B. Configure Security Groups to allow HTTP traffic between instances
  - C. Assign Elastic IP to private instance
  - D. Launch Lambda function
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**Q28. Scenario: You launched an EC2 instance in the private subnet. How can it access AWS S3 without internet?**

- A. NAT Gateway
  - B. VPC Endpoint for S3
  - C. Direct Internet Gateway
  - D. Elastic IP
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**Q29. Which AWS service allows event-driven execution of code when an S3 object is uploaded?**

- A. EC2
  - B. Lambda
  - C. VPC
  - D. CloudWatch
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**Q30. Which command sequence correctly tests HTTP access from public EC2 to private EC2?**

- A. ssh → curl private IP → check response
  - B. ping S3 bucket → HTTP test
  - C. curl public subnet → private subnet automatically
  - D. IAM role assignment → HTTP test
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**Q31. For high availability, which EC2 feature is recommended?**

- A. Single availability zone deployment
  - B. Multi-AZ deployment
  - C. Public subnet only
  - D. Lambda integration
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**Q32. Elastic Load Balancer in a VPC primarily helps to:**

- A. Launch EC2 instances
- B. Distribute traffic among multiple EC2 instances
- C. Manage Lambda executions
- D. Store objects in S3

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**Q33. Scenario: An HTTP request from public EC2 fails to private EC2. Which troubleshooting step is correct?**

- A. Check Security Group inbound rules
  - B. Recreate VPC
  - C. Delete EC2 instance
  - D. Modify IAM role only
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**Q34. Which AWS feature allows versioning and recovery of S3 objects?**

- A. Bucket policies
  - B. Versioning
  - C. Lifecycle rules
  - D. Route tables
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**Q35. AWS Lambda function memory and execution timeout are configured at:**

- A. VPC level
  - B. Function configuration
  - C. EC2 instance type
  - D. S3 bucket
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**Q36. Which AWS component defines network address allocation and subnetting?**

- A. IAM
  - B. VPC
  - C. Lambda
  - D. S3
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**Q37. Scenario: You want private EC2 instance to fetch updates from the internet, but do not want it directly exposed. Best practice:**

- A. Assign Elastic IP
  - B. Use NAT Gateway in public subnet
  - C. Attach Internet Gateway to private subnet
  - D. Create Lambda function only
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**Q38. Security best practice for AWS S3 buckets is:**

- A. Make all buckets public
  - B. Enable least-privilege IAM policies
  - C. Use Elastic IP
  - D. Attach EC2 instance
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**Q39. In AWS, a subnet is considered “private” if:**

- A. It has no route to the internet gateway
  - B. It has public IP addresses
  - C. It contains Lambda functions
  - D. It uses Elastic IP only
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**Q40. Scenario: After installing httpd on private EC2, curl from public EC2 fails. Most likely reason:**

- A. Security Group rules not allowing port 80
- B. Lambda configuration error
- C. S3 bucket permissions
- D. EC2 instance type mismatch