

# **Cloud Computing AWS Theory Guess Paper**

**1. Which AWS feature helps detect and protect against DDoS attacks?**

- (a) AWS Shield
- (b) AWS IAM
- (c) AWS EC2
- (d) AWS S3

**2. What is the primary use of AWS Regions?**

- (a) To manage AWS billing
- (b) To isolate network traffic geographically
- (c) To monitor EC2 instances
- (d) To compress S3 data

**3. Which AWS service helps classify and protect sensitive data?**

- (a) AWS Macie
- (b) AWS EC2
- (c) AWS Lambda
- (d) AWS SNS

**4. What is the function of AWS IAM?**

- (a) Manage access to AWS resources
- (b) Encrypt data in transit
- (c) Monitor network traffic
- (d) Launch EC2 instances

**5. What is the purpose of versioning in Amazon S3?**

- (a) Data encryption
- (b) Manage multiple versions of objects
- (c) Reduce storage size
- (d) Control access to VPC

**6. Which cloud model offers services over the internet to multiple tenants?**

- (a) Private Cloud
- (b) Hybrid Cloud
- (c) Public Cloud
- (d) Dedicated Cloud

**7. What is the primary use case of AWS Snow Family?**

- (a) Real-time data analytics
- (b) Physical data migration
- (c) Database auditing
- (d) Billing optimization

**8. What is Amazon EC2 used for?**

- (a) Launching virtual servers
- (b) Managing user permissions

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- (c) Storing S3 data
- (d) Encrypting cloud traffic

**9. Which of these is a valid private IPv4 address?**

- (a) 172.16.0.1
- (b) 192.256.1.1
- (c) 8.8.8.8
- (d) 300.100.1.1

**10. Which pricing model is based on bidding for unused capacity?**

- (a) On-demand
- (b) Reserved
- (c) Spot
- (d) Fixed

**11. What is the role of AWS VPC?**

- (a) Monitor billing
- (b) Isolate network resources
- (c) Manage EC2 keys
- (d) Encrypt database connections

**12. In OSI, which layer routes packets across networks?**

- (a) Network layer
- (b) Data link layer
- (c) Physical layer
- (d) Application layer

**13. What does CIDR stand for?**

- (a) Cloud Integrated Device Routing
- (b) Classless Inter-Domain Routing
- (c) Cloud Instance Deployment Range
- (d) Circuit Identity for Datacenters

**14. What is the default loopback address in IPv4?**

- (a) 127.0.0.1
- (b) 192.0.2.1
- (c) 10.0.0.1
- (d) 255.255.255.0

**15. What does AWS CloudHSM do?**

- (a) Host websites
- (b) Manage hardware security modules
- (c) Encrypt EC2
- (d) Automate backups

**16. What is an Amazon Machine Image (AMI)?**

- (a) A template to launch EC2 instances
- (b) A VPC subnet

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- (c) A private S3 bucket
- (d) A billing calculator

**17. Which AWS service is best for managing relational databases?**

- (a) Amazon RDS
- (b) DynamoDB
- (c) Lambda
- (d) S3

**18. What AWS service offers managed NoSQL databases?**

- (a) DynamoDB
- (b) RDS
- (c) Redshift
- (d) Athena

**19. Which AWS service uses physical devices for data migration?**

- (a) Snowball
- (b) Lambda
- (c) S3
- (d) EC2

**20. What is the maximum object size in Amazon S3?**

- (a) 5 TB
- (b) 100 GB
- (c) 10 TB
- (d) 2 TB

**21. Which protocol is BGP?**

- (a) Path-vector
- (b) Link-state
- (c) Distance-vector
- (d) Shortest path

**22. What is the function of Amazon S3 Transfer Acceleration?**

- (a) Improve upload speed over long distances
- (b) Compress S3 objects
- (c) Encrypt all S3 data
- (d) Automate billing reports

**23. What is AWS Storage Gateway used for?**

- (a) Hybrid cloud storage integration
- (b) Server monitoring
- (c) Email delivery
- (d) Resource tagging

**24. Which routing protocol uses autonomous systems?**

- (a) BGP
- (b) OSPF

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- (c) RIP
- (d) EIGRP

## 25. What does the OSPF Hello packet do?

- (a) Discover neighboring routers
- (b) Configure EC2
- (c) Create firewall rules
- (d) Encrypt VPC

## 26. What is the main use of IAM policies?

- (a) Grant or restrict AWS resource access
- (b) Launch EC2
- (c) Encrypt database
- (d) Migrate storage

## 27. What is the administrative distance of BGP?

- (a) 20
- (b) 90
- (c) 100
- (d) 110

## 28. What layer of OSI defines physical specs of connections?

- (a) Physical layer
- (b) Application layer
- (c) Network layer
- (d) Session layer

## 29. Which AWS service helps migrate databases with minimal downtime?

- (a) AWS DMS
- (b) AWS SNS
- (c) CloudHSM
- (d) ECS

## 30. What is the primary purpose of Amazon DynamoDB?

- (a) NoSQL database
- (b) Data warehouse
- (c) CDN
- (d) File storage

## 31. What component of VPC routes public internet traffic?

- (a) Internet Gateway
- (b) NAT Gateway
- (c) VPC Peering
- (d) Subnet

## 32. Which AWS tool estimates service cost?

- (a) Pricing Calculator
- (b) Trusted Advisor

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- (c) CloudWatch
- (d) Inspector

**33. What type of IP address is fe80::/10?**

- (a) Link-local
- (b) Loopback
- (c) Multicast
- (d) Reserved

**34. Which OSI layer ensures end-to-end communication?**

- (a) Transport
- (b) Network
- (c) Physical
- (d) Session

**35. Which cloud model combines private and public cloud?**

- (a) Hybrid
- (b) Community
- (c) Public
- (d) Edge

**36. How many bits does an IPv6 address have?**

- (a) 128
- (b) 64
- (c) 32
- (d) 256

**37. What is EC2 Reserved Instance?**

- (a) Long-term discounted instance
- (b) EC2 with no root access
- (c) Spot Instance replacement
- (d) Backup-only instance

**38. What is the default loopback address for IPv6?**

- (a) ::1/128
- (b) fe80::1
- (c) 2001::1
- (d) ff00::1

**39. What is AWS Lambda used for?**

- (a) Serverless compute
- (b) VPN tunneling
- (c) Monitoring instances
- (d) Static IP assignments

**40. What AWS service manages AMI versioning?**

- (a) Systems Manager
- (b) Lambda

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- (c) S3
- (d) EC2 Auto Scaling

## **41. Which tool monitors AWS services?**

- (a) CloudWatch
- (b) GuardDuty
- (c) VPC Flow Logs
- (d) WAF

## **42. What does NAT Gateway do?**

- (a) Enable private instances to access internet
- (b) Assign public IPs
- (c) Encrypt data
- (d) Isolate subnets

## **43. What AWS service is best for large-scale analytics?**

- (a) Redshift
- (b) DynamoDB
- (c) S3
- (d) EC2

## **44. What is the max IPv4 octet value?**

- (a) 255
- (b) 256
- (c) 254
- (d) 512

## **45. What defines a group of AWS resources under same control?**

- (a) VPC
- (b) Region
- (c) Availability Zone
- (d) Subnet

## **46. What is the benefit of AWS CloudFront?**

- (a) Global content delivery
- (b) Email service
- (c) Backup archive
- (d) Key encryption

## **47. Which AWS database is used for analytics & data warehousing?**

- (a) Redshift
- (b) Aurora
- (c) DynamoDB
- (d) Neptune

## **48. What is S3 Glacier used for?**

- (a) Long-term archival
- (b) Fast compute

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- (c) Content delivery
- (d) Load balancing

## **49. What OSI layer defines routing and addressing?**

- (a) Network
- (b) Transport
- (c) Session
- (d) Application

## **50. What is the purpose of a Security Group in AWS?**

- (a) Firewall for EC2
- (b) Encrypt S3
- (c) Define billing alerts
- (d) Isolate Regions

## **51. What pricing model offers fixed monthly rates for EC2?**

- (a) Reserved
- (b) Spot
- (c) On-demand
- (d) Free Tier

## **52. What is the default administrative distance of OSPF?**

- (a) 110
- (b) 100
- (c) 120
- (d) 90

## **53. What does Amazon VPC Peering do?**

- (a) Connects two VPCs
- (b) Encrypts subnet traffic
- (c) Launches EC2
- (d) Compresses packets

## **54. What is the Amazon Route 53 used for?**

- (a) DNS and domain management
- (b) Database monitoring
- (c) Load balancing EC2
- (d) Replicating S3

## **55. What tool helps automate AMI creation?**

- (a) Systems Manager
- (b) CloudWatch
- (c) EC2 Image Builder
- (d) S3 Lifecycle

## **56. What is the function of AWS Trusted Advisor?**

- (a) Provides cost and security recommendations
- (b) Encrypts volumes

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- (c) Blocks unwanted traffic
- (d) Automates migration

## **57. What AWS service manages VPNs?**

- (a) AWS VPN
- (b) Direct Connect
- (c) Shield
- (d) Batch

## **58. What type of storage is EBS?**

- (a) Block
- (b) Object
- (c) File
- (d) Archive

## **59. What component allows subnets to access each other within a VPC?**

- (a) Route Table
- (b) NAT
- (c) IAM
- (d) S3 Bucket

## **60. What is AWS Elastic Beanstalk used for?**

- (a) Web app deployment
- (b) Video streaming
- (c) EC2 snapshots
- (d) S3 analytics

## **61. What defines a range of IPs in a VPC?**

- (a) CIDR block
- (b) Subnet mask
- (c) Public IP
- (d) Availability Zone

## **62. What is the purpose of BGP in AWS networking?**

- (a) External routing
- (b) Internal load balancing
- (c) EC2 backup
- (d) EBS encryption

## **63. What is EC2 Auto Scaling used for?**

- (a) Add/remove instances based on demand
- (b) Create AMIs
- (c) Tagging resources
- (d) Manage DNS

## **64. Which service provides insights into AWS spend?**

- (a) AWS Cost Explorer
- (b) CloudTrail

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- (c) Systems Manager
- (d) Redshift

**65. What feature replicates S3 data to other regions?**

- (a) Cross-Region Replication
- (b) Glacier Sync
- (c) CloudFront Push
- (d) EC2 Mirroring

**66. What service provides serverless containers?**

- (a) AWS Fargate
- (b) ECS Classic
- (c) Batch
- (d) EC2

**67. What is the use of a Launch Template?**

- (a) Standardize EC2 configurations
- (b) Encrypt Lambda
- (c) Monitor billing
- (d) Route subnets

**68. What AWS service helps build CI/CD pipelines?**

- (a) CodePipeline
- (b) CloudFormation
- (c) Macie
- (d) KMS

**69. What OSI layer is responsible for encryption and decryption?**

- (a) Presentation
- (b) Network
- (c) Transport
- (d) Physical

**70. Which AWS service scans containers for vulnerabilities?**

- (a) Amazon Inspector
- (b) CodeDeploy
- (c) Trusted Advisor
- (d) GuardDuty