

## **Multi Answers**

Which of the following information can be used by Identity and Access Management (IAM) to identify a

- A. The password of the root user in Linux
- B. The password of the administrator in Windows
- C. The account name, IAM user name, and password for logging in to the Huawei Cloud console
- D. The AK/SK for accessing Huawei Cloud APIs

? Which of the following benefits can a distributed system provide .2

- A. A huge resource pool using cloud computing
- B. Balanced request pressure for stable performance
- C. Better fault recovery when an error occurs
- D. A loosely coupled system

? Which of the following image types are available on Huawei Cloud .3

- A. Public images
- B. User data center images
- C. Private images
- D. Shared images

Which of the following database engines are supported by Relational Database .4

? Service (RDS)

- A. MySQL
- B. MongoDB
- C. Postgre
- D. Oracle

? Which of the following statements about the benefits of cloud computing are false .5

- .A. There is no need to worry about security attacks
- .B. You can provide services in different geographical locations
- .C. Abundant resources are available for users
- D. You can quickly obtain the resources you need simply by making a phone call

.

What are the application scenarios of Data Warehouse Service (DWS) and Business .6

? Intelligence (BI) solutions

- .A. Log analysis: Detect security risks from logs before it causes harms
- B. E-commerce: Assist decision making and marketing design based on statistical analysis
- C. Transportation: Analyze and collect statistics on traffic flows, assisting traffic diversion and reducing congestion
- D. Transaction data flow analysis: Assist business owners in detecting abnormal transactions and locking credit cards to avoid further losses

Which of the following statements are true about Relational Database Service (RDS) .7

?

- .A. Automated backups use database binlogs
- .B. Manual backups use database binlogs
- C. Manual backups can be used to restore data to any point in time, but automated backups cannot
- D. Backups are stored in Object Storage Service (OBS) to ensure high data reliability

.

Which of the following methods can be used by ELB to check the health of a backend .8

? server

- .A. Ping the backend server
- .B. Establish a TCP connection with the specified port of the backend server
- .C. Send an HTTP request to the specified port of the backend server

D. Check the power supply and host status of the backend server

.  
Which of the following components are related to Huawei Cloud Virtual Private .9  
? Cloud (VPC)

- A. Subnet
- B. Router
- C. Security group
- D. Switch

? Which of the following statements are false about Cloud Trace Service (CTS) .10

- .A. It records access to Huawei Cloud APIs
- .B. It is used for security audit to trace operations
- .C. CTS is not free of charge and must be used with caution
- D. You can transfer traces to Object Storage Service (OBS) buckets for long-term storage of logs free of charge

## **SINGLE CHOICE QUESTIONS**

1. What use cases is Elastic Volume Service (EVS) best suited for?

- A) Only for data archiving
- B) Distributed file systems, high-performance computing, and data warehousing applications
- C) Email servers and small-scale databases
- D) Only for backup and archiving

2. When do EVS disks become accessible?

- A) When used on their own
- B) When connected to ECS or BMS servers and started
- C) When paired with other EVS disks
- D) When there is no internet connection

3. Which feature is not valid for EVS disks?

- A) Real-time monitoring
- B) Ability to reduce capacity
- C) Encryption
- D) Snapshot creation

4. Which model provides cost advantage with Object Storage Service (OBS)?

- A) Fixed monthly fee
- B) Pay-per-use
- C) Annual license fee
- D) Fixed fee based on data amount

5. Which tool is not used to access the OBS service?

- A) OBS Browser+
- B) OBS console
- C) obsutil
- D) EVS disk management panel

?For which type of workloads is Scalable File Service (SFS) ideal .6

- A) Small-scale database management
- B) Big data processing and distributed applications
- C) Only web hosting
- D) Only email servers

?Which of the following is a data protection feature provided by EVS disks .7

- A) Encryption
- B) Data compression
- C) Data copying
- D) Data analysis tools

?What is the most important feature of OBS .8

- A) Low-cost storage
- B) High availability
- C) Automatic data deletion
- D) Fast processing of small files

?Which type of disk can be accessed simultaneously by multiple ECS or BMS servers .9

- (A) Scalable File Service (SFS)
- (B) Elastic Volume Service (EVS)
- (C) Object Storage Service (OBS)
- (D) Elastic Cloud Server (ECS)

10. SFS is a part of which service?

- A) Compute Services
- B) Storage Services
- C) Network Services
- D) Security Services

?Which of the following statements about Virtual Private Cloud (VPC) is incorrect.11

- .A) VPC is located within a cloud region and subnets can be created
- .B) VPC is not connected to the internet by default
- .C) The CIDR block of subnets created in VPC can be changed after they are created
- D) Elastic IP (EIP) is used for services in VPC to access the internet

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Which of the following is used to control network traffic in a Virtual Private Cloud .12

? (VPC)

- A) Load Balancer
- B) Route Table
- (C) Elastic IP (EIP)
- D) Backend Server Group

?Which of the following is true about VPC peering .13

- .A) Peering can be done between multiple subnets within the same VPC
- .B) Peering can be done between VPCs in different regions
- .C) Peering can only be done between two VPCs in the same region
- D) After the peering is done, the CIDR blocks of the subnets must be changed

.  
Which of the following components is used by Elastic Load Balancer (ELB) in traffic .14  
?distribution

- A) NAT Gateway
- B) Listener
- C) VPC Peering
- D) VPN Gateway

?At which layers can ELB (Elastic Load Balancer) operate .15

- A) Layer 2 and Layer 3
- B) Layer 3 and Layer 4
- C) Layer 4 and Layer 7
- D) Layer 5 and Layer 6

?What is the method used by ELB to check the health of backend servers .16

- A) Health Check
- B) Listener Rule
- C) NAT Translation
- D) VPN Tunnel

?Which of the following statements is true about L2CG (Layer 2 Cloud Gateway) .17

- .A) Provides NAT service between VPCs
- .B) Establishes network connectivity between VPCs in different regions
- .C) Creates virtual tunnel between cloud and on-premises networks
- D) Connects subnets within VPCs

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?What is Network ACL used to protect .18

- A) All resources within a VPC
- B) Specific subnets

C) VPCs in different regions

D) Specific IP addresses

Which of the following statements about Network Address Translation (NAT) .19

?Gateway is incorrect

.A) NAT Gateway allows EIP sharing for servers in a VPC

.B) With NAT Gateway, separate IP assignments are required for all services

.C) NAT Gateway can be public or private

D) NAT Gateway is used to provide internet access

?In which case is Virtual Private Network (VPN) used .20

A) To route traffic between subnets within a VPC

B) To establish connectivity between different cloud regions

C) To provide encrypted communication between the on-premises data center and the VPC

D) For resources in the VPC to communicate with each other

What features should relational databases have?

A) Must be ACID-compliant

B) Data is stored in two-dimensional tables

C) SQL queries are used

D) All of the above

22. How is consistency ensured in non-relational databases?

A) With ACID principles

B) Storage space limit varies depending on the database engine

C) Consistency is not guaranteed

D) Using SQL queries

23. Which of the following advantages does the distributed architecture of GaussDB in Huawei Cloud offer?

A) Increases database performance

- B) Provides zero data loss between intra-AZs
- C) Reduces the complexity of SQL queries
- D) Keeps the number of database nodes constant

24. RDS MySQL's Cross-AZ HA feature provides which of the following?

- A) High database performance
- B) Automatic backup and restore
- C) Primary/backup migration in seconds
- D) Manage all nodes using a single IP address

25. Which of the following scenarios is most beneficial for RDS for MySQL in application scenarios?

- A) Small-scale websites
- B) Large database storage requirements
- C) Fast-growing startups
- D) High-performance analytical queries

26. RDS PostgreSQL's Multilayer Network Security feature optimizes which situation?

- A) Increases the speed of database queries
- B) Increases database storage
- C) Controls traffic to and from specific IP addresses
- D) Reduces database cost

27. Which situation does Database O&M services optimize on Huawei Cloud?

- A) Increase the speed of database queries
- B) Reduce database backup costs
- C) Ensure high efficiency and quality in database management
- D) Expand database storage

28. What type of monitoring service does Cloud Eye provide?

- A) Only storage monitoring
- B) Real-time monitoring and setting alarm rules
- C) Manual database backup
- D) Only CPU usage monitoring

29. Which of the following does CTS (Cloud Trace Service) in Huawei Cloud provide?

- A) Improves database performance

- B) Records operations on cloud resources in your account
- C) Optimizes backup and restore operations
- D) Improves the performance of SQL queries

30. In which scenario does Huawei's MySQL kernel (HWSQL) provide the greatest performance improvement?

- A) High concurrency scenarios
- B) Scenarios requiring low storage space
- C) For read-only queries
- D) Systems serving a single user

31. In which case should non-relational databases be preferred?

- A) Consistency of data must always be guaranteed
- B) There is a need to store large amounts of data and process concurrent requests
- C) ACID compliance is mandatory
- D) When SQL queries are simple

32. Log Tank Service (LTS) is designed to optimize which of the following situations?

- A) Increase database storage
- B) Reduce database backup time
- C) Collect and process system logs centrally
- D) Speed up SQL queries

33. What is the advantage of using “replica” in RDS MySQL?

- A) Reduces database performance
- B) Speeds up database backups
- C) Provides high performance by offloading read traffic
- D) Increases database nodes

34. In which scenarios is GaussDB's support for petabytes of storage advantageous?

- A) Small-scale data storage requirements
- B) Large-scale data storage and analysis requirements
- C) For read-only queries
- D) Cases where SQL queries are simple

35. What is a metric monitored by Cloud Eye in Huawei Cloud?

- A) SQL query execution time
- B) Database backup time

- C) ECS CPU utilization
- D) Number of database connections

36. When using the "Cross-AZ Active-Active" architecture, in what cases is data loss prevented?

- A) System failure in only one AZ
- B) When multiple servers are used in the same AZ
- C) When cross-AZ data replication is performed
- D) When database replication is not performed

37. What is the main advantage of using "Bare Metal Server (BMS)" in Huawei Cloud?

- A) Full physical hardware control
- B) Lower cost
- C) Faster data backup
- D) Virtual server support only

38. In "Auto Scaling" configurations, which factor triggers automatic scaling of resources?

- A) Manual triggering based on user demands
- B) Sudden increases in CPU, memory, and network traffic usage
- C) Scheduled operations at specific times
- D) Server temperature

39. In which cases should "Bare Metal Server (BMS)" be preferred over "Dedicated Host (DeH)"?

- A) When greater virtualization flexibility is required
- B) When direct access to physical resources is required
- C) When faster backup operations are required
- D) When costs need to be reduced

40. In which case does "Elastic Volume Service (EVS)" disks provide the highest performance in Huawei Cloud?

- A) In database backup operations
- B) In high-performance computing and distributed file systems
- C) In small-scale databases
- D) Only in archiving operations

41. In which cases is "FunctionGraph" used in cloud computing?
- A) In workloads that require full control of physical servers
  - B) In applications that require serverless architecture
  - C) In workloads that require only data storage
  - D) In jobs that require intensive GPU processing power
42. Which of the following statements is correct regarding Virtual Private Cloud (VPC)?
- A) All resources in a VPC are directly connected to the Internet
  - B) The CIDR blocks of subnets in a VPC can be changed after they are created
  - C) All subnets in a VPC use the same security group
  - D) VPC is not connected to the Internet by default
43. In a VPC, what operation is performed using the "Route Table"?
- A) Speeding up database queries
  - B) Directing network traffic to specific directions
  - C) Performing database replication
  - D) Restarting virtual servers
44. What is the difference between "Elastic Load Balancer (ELB)" and "Network ACL"?
- A) ELB manages connections between data centers; ACL controls only subnet traffic
  - B) ELB performs load balancing; ACL controls traffic within subnets
  - C) ELB only works at Layer 4; ACL operates at Layer 7
  - D) ELB is connected to physical servers; ACL is connected to virtual servers
45. What is the purpose of "Security Group" settings in Huawei Cloud?
- A) Accelerating user access to the database
  - B) Increasing data sharing between servers
  - C) Increasing security by filtering network traffic
  - D) Automating backup operations
46. In which situation is the "Geo-Redundant DR" strategy critical?
- A) When low-cost data storage is needed
  - B) When fast data transfer between data centers is needed
  - C) When data needs to be backed up in another region in case of disaster
  - D) When data needs to be transferred between physical servers
47. Which of the following features is not available on "Elastic Volume Service (EVS)"

disks?

- A) Real-time monitoring
- B) Capacity reduction
- C) Encryption
- D) Snapshot creation

48. What types of workloads is Scalable File Service (SFS) ideal for?

- A) Large data processing and distributed applications
- B) Small-scale databases
- C) Email servers only
- D) Web hosting operations

49. What is the cost model of Object Storage Service (OBS)?

- A) Fixed monthly fee
- B) Pay-per-use
- C) Annual license fee
- D) Fixed fee based on the amount of data

50. What is the major difference between "Bare Metal Server (BMS)" and "Elastic Cloud Server (ECS)"?

- A) ECS offers virtual servers; BMS offers physical servers
- B) BMS offers virtual server support; ECS provides physical hardware control
- C) ECS is used for data storage; BMS is used only for backup
- D) There is no functional difference between ECS and BMS

51. In which cases is VPN (Virtual Private Network) used?

- A) When data sharing is required only in the local network
- B) When secure data transfer is required between different cloud regions
- C) In data backup operations between servers
- D) Only to speed up the Internet connection

52. What is the purpose of "CTS (Cloud Trace Service)" in Huawei Cloud?

- A) Recording operations on cloud resources in the account
- B) Improving database performance
- C) Automating database backup operations
- D) Monitoring network traffic

53. In which cases should "Dedicated Host (DeH)" be preferred?

- A) When low-cost server solutions are required
- B) When full control over physical hardware is required
- C) When used only for storage
- D) For high-performance GPU operations

54. How are "Elastic Volume Service (EVS)" disks configured in Huawei Cloud?

- A) Used by themselves
- B) Only works when there is an internet connection
- C) Operated by connecting to ECS or BMS servers
- D) Becomes active when paired with other EVS disks

55. What kind of workloads is "FunctionGraph" best suited for?

- A) High-performance operations that require physical hardware
- B) Workloads that will work with a serverless architecture
- C) Operations that require only data storage
- D) Tasks that require GPU processing power

56. What advantage does Scalable File Service (SFS) offer?

- A) Can be used by only a single server
- B) Provides simultaneous file access to multiple users
- C) Speeds up data backup operations
- D) Optimized for small-scale data storage needs

57. What operation can be performed using "Elastic Cloud Server (ECS)"?

- A) To provide full control over the physical server
- B) To make flexible configurations on virtual servers
- C) To automate data backup operations
- D) To speed up database queries only

58. What is Network ACL used for?

- A) To increase database performance
- B) To control network traffic within the subnet
- C) To ensure virtual servers are restarted
- D) To automate backup operations

59. In which case should Object Storage Service (OBS) be preferred?

- A) When there are only small data storage needs
- B) For large-scale data storage and backup operations
- C) To increase database performance
- D) For jobs that require GPU processing power only

60. What kind of services does "Cloud Eye" provide?

- A) Storage monitoring only
- B) Real-time monitoring and setting alarm rules
- C) Physical server performance monitoring
- D) Automating backup operations on virtual servers

61. In which situation does RDS MySQL's "Cross-AZ HA" provide a critical advantage?

- A) During backup operations
- B) Ensuring uninterrupted operation of the database in the event of a data center failure
- C) Acceleration of database queries
- D) Only during backup operations

62. In which situation are "Database O&M" services used in Huawei Cloud?

- A) Database automate backup operations
- B) Provide high efficiency and quality in database management
- C) Provide full control over physical hardware
- D) Only to improve database performance

63. At which layers can "Elastic Load Balancer (ELB)" work?

- A) Layer 2 and Layer 3
- B) Layer 3 and Layer 4
- C) Layer 4 and Layer 7
- D) Layer 5 and Layer 6

64. What is "LTS (Log Tank Service)" used for in Huawei Cloud?

- A) For centralized management of system logs
- B) For speeding up database backup operations
- C) For improving database performance
- D) For enabling virtual servers to be restarted

65. In what cases is "VPC Peering" used in Huawei Cloud?

- A) For establishing network connection between VPCs in different regions
- B) For establishing network connection between two VPCs in the same region
- C) For accelerating database backup operations
- D) For transferring data between servers

66. In cloud computing infrastructure, when should the “Cross-AZ Active-Active” architecture be preferred?

- A) Only for data backup
- B) To provide high availability and uninterrupted service
- C) To minimize costs
- D) For regional data storage

67. What is the main difference between “Dedicated Host (DeH)” and “Bare Metal Server (BMS)” in Huawei Cloud?

- A) DeH is a shared server service, while BMS is unshared.
- B) BMS provides virtualization support, while DeH provides physical servers.
- C) DeH provides machines that can be virtualized; BMS offers fully physical servers.
- D) BMS offers only storage; DeH provides computing.

68.What is the basis for cloud storage services to provide cost advantage?

- A) Fixed pricing model
- B) Flexible usage-based pricing
- C) High initial costs
- D) Integration with physical data centers

69. What are the criteria for triggering “Auto Scaling” configurations in Huawei Cloud?

- A) Only based on processor load
- B) Based on resource usage such as processor, memory usage, and network traffic
- C) Based on manual intervention by users
- D) Based on specific time zones

70. Which infrastructure feature enables high availability while maintaining the independence of availability zones (AZs) in a region?

- A) Multiple data centers within the same physical facility
- B) Each availability zone has its own independent power and cooling systems
- C) Availability zones are interconnected

D) Data centers in all regions are combined into a single system

Explanation: Each availability zone (AZ) has its own independent power and cooling systems, allowing these areas to operate independently of each other. This is important for providing high availability, because a problem in one AZ does not affect the other.

71. What type of workloads is the “FunctionGraph” service ideal for?

- A) Workloads that require full control of physical servers
- B) Applications developed with serverless architecture
- C) Applications that require only storage
- D) Workloads that require intensive GPU processing power

72. What advantage does “Elastic Volume Service (EVS)” in Huawei Cloud provide?

- A) Only available on virtual servers
- B) Provides the ability to flexibly increase storage capacity
- C) Increases processor performance
- D) Only available for file storage

73. In cloud computing, when is the “Geo-Redundant DR” strategy most important?

- A) For workloads requiring high-performance computing
- B) In disaster scenarios, backup in different geographic regions to find backups
- C) To optimize costs
- D) In physical server management

74. What security measures does a user’s “Security Group” configuration in Huawei Cloud include?

- A) Direct data sharing between servers
- B) User access control and network traffic filtering
- C) Automatic update of servers
- D) Ensuring database replication

75. What is the most significant difference between “Elastic Cloud Server (ECS)” and “Bare Metal Server (BMS)”?

- A) ECS offers virtual servers, while BMS offers physical servers.
- B) BMS offers virtualization support, while ECS only offers physical servers.

- C) ECS is used only for data storage, while BMS provides processing power.
- D) There is no functional difference between ECS and BMS.

## **True-False Questions**

1. In Huawei Cloud, an availability zone (AZ) shares the same power source with other zones in the region.
2. In cloud computing, “FunctionGraph” is a service that supports serverless architecture.
3. The Cross-AZ Active-Active” architecture is used only for data backup.
4. An ECS server can exist in different regions at the same time.
5. Bare Metal Server (BMS) is a completely virtual server and does not have access to physical resources.
6. Auto Scaling can only be started manually, automatic scaling cannot be done.
7. In Huawei Cloud, “Security Group” settings are used only for data backup.
8. The number of availability zones (AZs) in a region can vary from 1 to 6.
9. In cloud computing The “Disaster Recovery (DR)” strategy can only be implemented in local data centers..
10. There is no cost difference between Elastic Cloud Server (ECS) and Bare Metal Server (BMS).
11. EVS disks can be used alone without being connected to servers.
12. EVS disks can be increased in capacity, but not decreased in capacity.

13. OBS is optimized for downloading and sharing data.
14. SFS provides simultaneous file access to multiple users.
15. EVS disks offer data protection features such as encryption and snapshot creation.
16. OBS is generally suitable for small data storage needs.
17. SFS can only be used by a single server.
18. EVS disks can be monitored in real time with Cloud Eye.
19. OBS service can only be accessed through APIs.
20. SFS provides a suitable storage solution for distributed applications.
21. Non-relational databases are fully compliant with ACID specifications.
22. RDS MySQL provides a single read/write partition address for applications and does not require application reconfiguration
23. O&M (Operation & Maintenance) services in Huawei Cloud only provide management of cloud servers
24. GaussDB supports inter-AZ distribution with zero data loss, thus providing high data security.
25. In RDS MySQL, read replicas can only be created for the primary database.
26. Consistency is not guaranteed in non-relational databases.
27. LTS (Log Tank Service) only provides log management in small-scale systems.
28. Cross-AZ HA ensures uninterrupted database operation in the event of a data center failure.
29. Huawei's MySQL kernel (HWSQL) provides increased performance in low-concurrency scenarios.

30. RDS PostgreSQL is a suitable database for geospatial application systems.
31. GaussDB supports only SQL-based applications.
32. Cloud Eye uses \*metrics\* to monitor the status of a resource at a specific point in time.
33. In Huawei Cloud, CTS manually records operations on cloud resources.
34. The Cross-AZ Active-Active architecture is used only for data backup.
35. Bare Metal Server (BMS) provides full physical hardware control.
36. Auto Scaling can only be triggered manually.
37. In Huawei Cloud, Elastic Volume Service (EVS) capacity can be increased, but capacity cannot be reduced.
38. Security Group settings enhance security by filtering network traffic.
39. FunctionGraph supports serverless architecture.
40. Elastic Load Balancer (ELB) only works at Layer 7 (HTTP/HTTPS).
41. Network ACLs control network traffic within subnets.
42. VPC peering connection (VPC Peering) can be established between two VPCs in different regions.
43. In Huawei Cloud, CTS (Cloud Trace Service) manually records operations on cloud resources.
44. In Huawei Cloud, Security Group is only used for data backup.

- .
- 45. SFS (Scalable File Service) is suitable for large data processing and distributed applications.
- 46. EVS disks can be used alone without connecting to ECS or BMS servers.
- 47. OBS is optimized for data downloading and sharing.
- 48. LTS (Log Tank Service) only provides log management in small-scale systems.
- 49. VPN creates an Internet-based encrypted communication tunnel between a VPC and an on-premises data center.
- 50. The performance of virtual servers can be monitored with Cloud Eye in Huawei Cloud.
- 51. GaussDB supports high data security by ensuring zero data loss between intra-city AZs.
- 52. In RDS MySQL, read replicas can only be created for the primary database.
- 53. It supports Dedicated Host (DeH) virtualization in Huawei Cloud.
- 54. Network ACLs are used to protect subnets within a VPC.

## Additional Questions

### SECTION 1(EASY MODE) — Single Choice Questions (40 Questions)

- 1. Which service is used to create a logically isolated virtual network on Huawei Cloud?**

- A. ELB
- B. VPC
- C. NAT Gateway
- D. ACL

**Correct Answer: B**

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**2. Which service distributes traffic across multiple ECSs?**

- A. VPC
- B. EIP
- C. ELB
- D. NAT

**Correct Answer: C**

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**3. Which statement about security groups is true?**

- A. They operate at the subnet level
- B. They are stateful
- C. They deny all traffic by default
- D. They are stateless

**Correct Answer: B**

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**4. A subnet without a route to 0.0.0.0/0 cannot:**

- A. Connect to other subnets
- B. Use an EIP
- C. Access the Internet
- D. Use internal DNS

**Correct Answer: C**

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**5. Network ACLs are applied at which level?**

- A. ECS
- B. VPC
- C. Subnet
- D. Region

**Correct Answer: C**

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**6. Which service enables ECSs in private subnets to access the Internet using one public IP?**

- A. ELB
- B. NAT Gateway (SNAT)
- C. VPC Peering
- D. EIP

**Correct Answer: B**

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**7. Which service allows communication between two VPCs in the same region?**

- A. ELB
- B. NAT
- C. VPN
- D. VPC Peering

**Correct Answer: D**

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**8. An EIP can be bound to:**

- A. Multiple ECSs at the same time
- B. Only one resource at a time
- C. Only NAT gateways
- D. Only ELB

**Correct Answer: B**

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**9. Which storage type is object storage?**

- A. EVS
- B. SFS
- C. RDS
- D. OBS

**Correct Answer: D**

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**10. A customer wants block-level storage for an ECS. Which service does he need?**

- A. OBS
  - B. RDS
  - C. EVS
  - D. NAT
- Correct Answer: C**

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- 11. Which statement is true about VPC route tables?**
- A. A subnet can have multiple route tables
  - B. A route table can belong to many VPCs
  - C. Each subnet is associated with exactly one route table
  - D. Route tables cannot be customized
- Correct Answer: C**
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- 12. Default route table allows:**
- A. Cross-VPC communication
  - B. Subnet-to-subnet communication inside a VPC
  - C. Internet communication
  - D. NAT communication
- Correct Answer: B**
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- 13. A DNS service provided by Huawei Cloud is called:**
- A. GaussDB
  - B. Cloud DNS
  - C. CCE
  - D. ServiceStage
- Correct Answer: B**
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- 14. Which service provides MySQL/PostgreSQL as a managed service?**
- A. RDS
  - B. GaussDB
  - C. DDS
  - D. OBS
- Correct Answer: A**
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- 15. ECS stands for:**
- A. Elastic Compute Server
  - B. Elastic Cloud Storage
  - C. Enhanced Cloud Security

**D. Edge Control Service**

**Correct Answer: A**

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**16. A snapshot in EVS is used for:**

- A. Adding more bandwidth**
- B. Backup and restore**
- C. Improving network latency**
- D. DNS resolution**

**Correct Answer: B**

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**17. OBS buckets are:**

- A. Region-specific**
- B. Global**
- C. AZ-specific**
- D. Subnet-specific**

**Correct Answer: A**

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**18. VPC Peering DOES NOT support:**

- A. Transitive routing**
- B. Private communication**
- C. Two-way traffic**
- D. Inter-subnet routing**

**Correct Answer: A**

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**19. A NAT Gateway DNAT rule is used when:**

- A. ECS wants to access Internet**
- B. Internet wants to access ECS**
- C. Two VPCs communicate**
- D. Need to block traffic**

**Correct Answer: B**

---

**20. Which is stateless?**

- A. Security Group**
- B. NAT**

C. ACL

D. ELB

**Correct Answer: C**

---

**21. Elastic Volume Service (EVS) is:**

A. Object storage

B. Block storage

C. File storage

D. Cache storage

**Correct Answer: B**

---

**22. Which service is used for large-scale distributed file storage?**

A. EVS

B. OBS

C. SFS

D. DDS

**Correct Answer: C**

---

**23. When deploying HA architecture, you should place ECSs in:**

A. Same subnet

B. Same AZ

C. Different AZs

D. Different regions

**Correct Answer: C**

---

**24. EIP bandwidth billing mode "95th percentile" is used for:**

A. Low latency

B. Cost optimization

C. Auto scaling

D. Snapshot scheduling

**Correct Answer: B**

---

**25. Which service is used to automatically scale ECSs based on traffic?**

- A. ELB
- B. AS (Auto Scaling)
- C. NAT
- D. SFS

**Correct Answer: B**

---

**26. A VPC CIDR block cannot overlap with:**

- A. An EIP
- B. Another VPC in same region for peering
- C. A NAT rule
- D. The Internet

**Correct Answer: B**

---

**27. OBS is ideal for:**

- A. Databases
- B. Big data & backup
- C. Real-time compute
- D. Low latency apps

**Correct Answer: B**

---

**28. VPN connections link:**

- A. Two subnets
- B. Two regions
- C. On-premises to cloud
- D. Two ECSs

**Correct Answer: C**

---

**29. Which service ensures controlled inbound/outbound rules?**

- A. EVS
- B. ACL
- C. RDS
- D. CCE

**Correct Answer: B**

---

**30. SG default outbound rule is:**

- A. Deny all
- B. Allow all
- C. Allow only port 80
- D. Allow only same SG

**Correct Answer: B**

---

**31. A NAT gateway is created inside which resource?**

- A. ECS
- B. Subnet
- C. VPC
- D. Region

**Correct Answer: C**

---

**32. After creating VPC peering you must:**

- A. Delete EIPs
- B. Add routes
- C. Recreate subnets
- D. Reboot ECS

**Correct Answer: B**

---

**33. OBS supports:**

- A. Block storage
- B. Object storage with unlimited capacity
- C. Stateless compute
- D. Auto scaling compute

**Correct Answer: B**

---

**34. CCE is Huawei's:**

- A. Database
- B. Kubernetes service
- C. DNS service
- D. Object store

**Correct Answer: B**

---

**35. IAM enables you to:**

- A. Monitor logs**
- B. Manage access permissions**
- C. Create subnets**
- D. Scale servers**

**Correct Answer: B**

---

**36. Which is true about ECS billing?**

- A. Always monthly**
- B. Can be pay-per-use**
- C. Requires 1-year contract**
- D. Not scalable**

**Correct Answer: B**

---

**37. ELB health checks ensure:**

- A. Billing accuracy**
- B. Only healthy ECSs receive traffic**
- C. Route propagation**
- D. DNS resolution**

**Correct Answer: B**

---

**38. Which helps reduce DDoS attack impact?**

- A. NAT**
- B. Anti-DDoS service**
- C. CCE**
- D. OBS**

**Correct Answer: B**

---

**39. If security groups block ICMP, you cannot:**

- A. SSH**
- B. Ping**
- C. Use HTTP**

**D. Use DNS**

**Correct Answer: B**

---

**40. Default ACL rule before adding rules is:**

- A. Allow all
- B. Allow inbound deny outbound
- C. Deny all
- D. Allow only same subnet

**Correct Answer: C**

---

 **SECTION 2 — True / False (10 Questions)**

**41. Two ECSs in the same VPC can communicate by default.**

 **True**

**42. A subnet can be associated with multiple route tables.**

 **False**

**43. ACLs are stateful.**

 **False**

**44. A VPC peering connection supports transitive routing.**

 **False**

**45. NAT Gateway supports both SNAT and DNAT.**

 **True**

**46. OBS buckets are global and not region-specific.**

 **False**

**47. EIP can be unbound from an ECS without downtime.**

 **True**

**48. ELB can distribute HTTPS traffic.**

 **True**

**49. Security groups deny inbound traffic by default.**

 **True**

**50. RDS supports automatic backups.**

✓ True

### **HCCDA Tech Essentials – Mock Exam (Hard Mode)**

**Total:** 50 questions

35 Single/Multiple Choice •

10 True/False •

5 Scenario Questions •

## **Answers at the bottom**

---

### **SECTION 1 – Multiple Choice / Single Choice (35 Questions)**

#### **1. What is the primary difference between General Purpose and Compute Optimized ECS types?**

- A. General Purpose balances CPU/RAM, Compute Optimized offers higher CPU
  - B. Compute Optimized provides larger storage
  - C. General Purpose is only for testing
  - D. Compute Optimized cannot use Auto Scaling
- 

#### **2. Why should application servers typically reside in private subnets?**

- A. To reduce bandwidth cost
  - B. To prevent direct access from the Internet
  - C. Private subnets provide faster performance
  - D. Public subnets cannot use ELB
- 

#### **3. What can NAT Gateway (SNAT) do?**

- A. Allow private ECS to access the Internet
  - B. Allow Internet traffic to reach ECS directly
  - C. Replace ELB
  - D. Encrypt outbound traffic
- 

#### **4. What determines the number of usable IP addresses inside a VPC?**

- 
- A. Number of ECS inside the VPC
  - B. CIDR block of the VPC
  - C. Number of subnets
  - D. Number of ACLs configured
- 

**5. Which of the following are correct High Availability (HA) practices? (Choose 2)**

- A. Deploy ECSs across multiple AZs
  - B. Create a NAT Gateway in every AZ
  - C. Attach ELB across multiple AZs
  - D. Put all servers in one subnet for simplicity
- 

**6. What happens if the default route table is deleted?**

- A. Subnets lose communication
  - B. You must create a new route table and re-associate
  - C. NAT Gateway stops functioning
  - D. ELB will not distribute traffic
- 

**7. What is the main difference between Network ACL and Security Group?**

- A. ACL is subnet-level, SG is instance-level
  - B. ACL is stateful, SG is stateless
  - C. ACL supports only inbound rules
  - D. SGs apply only to NAT Gateways
- 

**8. When Auto Scaling adds new ECS, how does ELB behave?**

- A. It ignores new ECS
  - B. It automatically adds healthy ECS after health checks
  - C. It must be manually updated
  - D. It disconnects unhealthy ECS only
- 

**9. How can you reduce long-term storage costs for large files in OBS?**

- A. Use Cold or Warm storage classes
- B. Make the bucket public
- C. Enable versioning
- D. Use EVS instead

---

**10. How can an ECS inside a private subnet securely access a private OBS bucket?**

- A. Make OBS public
  - B. Use IAM policies and private endpoint access
  - C. Use NAT Gateway DNAT
  - D. Bind an EIP
- 

**11. EVS snapshots are mainly used for:**

- A. Improving ECS performance
  - B. Backup and disaster recovery
  - C. Reducing bandwidth
  - D. DNS failover
- 

**12. VPC Peering limitation:**

- A. High latency
  - B. No transitive routing ( $A \rightarrow B \rightarrow C$  is blocked)
  - C. Only same CIDR allowed
  - D. Cannot connect different subnets
- 

**13. How should a database be secured inside a VPC?**

- A. Place DB in public subnet
  - B. Allow access ONLY from the application's SG
  - C. Allow access from all VPC subnets
  - D. Assign EIP to DB
- 

**14. What does IAM control?**

- A. Monitoring ECS performance
  - B. User access and permissions to cloud resources
  - C. Auto Scaling operations
  - D. Creation of NAT Gateways
- 

**15. In the Shared Responsibility Model, the customer is responsible for:**

- 
- A. Physical data center security
  - B. Application & data security
  - C. Power supply redundancy
  - D. Region-level network resilience
- 

#### **16. What does Cloud Eye provide?**

- A. File storage
  - B. Monitoring and alarms
  - C. Routing functions
  - D. Encryption services
- 

#### **17. What is a “cold start” in Auto Scaling?**

- A. The new ECS is instantly ready
  - B. The ECS boots and passes health check before becoming active
  - C. Scaling fails automatically
  - D. ELB ignores new ECS
- 

#### **18. How can ELB improve security in a web application?**

- A. By attaching EIP
  - B. Offloading SSL/TLS termination using HTTPS listeners
  - C. By replacing the firewall
  - D. By storing data
- 

#### **19. What action helps restore service during AZ failure? (Choose 2)**

- A. Start ECS in another AZ
  - B. Recreate the entire VPC
  - C. ELB shifts traffic automatically
  - D. Delete route tables
- 

#### **20. Burstable Bandwidth for EIP means:**

- A. Bandwidth is fixed
- B. Bandwidth can temporarily increase under load
- C. Bandwidth never drops
- D. No charges apply

---

**21. To allow only HTTP between two peered VPCs, what must you modify?**

- A. VPC CIDR blocks
  - B. Security Groups
  - C. NAT Gateway
  - D. OBS bucket policy
- 

**22. Which design gives a private ECS Internet access for updates — but prevents incoming traffic?**

- A. Assign EIP
  - B. Put ECS in public subnet
  - C. Put ECS in private subnet + SNAT via NAT Gateway
  - D. Create VPC Peering
- 

**23. ELB provides which benefits? (Choose 2)**

- A. Health checks
  - B. CPU monitoring
  - C. Auto Scaling integration
  - D. OBS replication
- 

**24. A “Private Subnet” means:**

- A. Cannot access Internet directly
  - B. Cannot use NAT
  - C. Only used for databases
  - D. Cannot attach ECS
- 

**25. How do you secure data in OBS? (Choose 2)**

- A. Encryption at rest
  - B. TLS encryption in transit
  - C. Set bucket to public
  - D. Use IAM bucket policies
- 

**26. To block a specific IP from accessing an entire subnet, you configure:**

- 
- A. SG rule
  - B. ACL rule
  - C. NAT rule
  - D. OBS policy
- 

**27. Key difference between OBS and EVS?**

- A. OBS = object storage, EVS = block storage
  - B. EVS cannot snapshot
  - C. OBS is for databases
  - D. OBS is low latency compute
- 

**28. The main purpose of Multi-AZ for RDS:**

- A. Reduce storage cost
  - B. Increase availability and failover
  - C. Improve CPU power
  - D. Enable public IP
- 

**29. Can ECS in a private subnet back up files to OBS?**

- A. No
  - B. Only with EIP
  - C. Yes, via NAT Gateway
  - D. Only via VPN
- 

**30. What does "Shared Security Responsibility" imply?**

- A. Customer handles all security
  - B. Cloud provider handles all security
  - C. Both provider and customer share security duties
  - D. Security is optional
- 

**31. Which network design is recommended for a web app + DB?**

- A. Everything in a public subnet
- B. Web in public subnet, DB in private subnet
- C. DB with EIP
- D. Everything in single ECS

---

**32. What is the risk of giving every ECS an EIP?**

- A. Increased latency
  - B. Increased attack surface
  - C. Reduced cost
  - D. ELB stops working
- 

**33. Which service gives the lowest latency between VPC networks in same region?**

- A. VPC Peering
  - B. NAT Gateway
  - C. ELB
  - D. VPN
- 

**34. How does Auto Scaling reduce cost during low usage?**

- A. Creates more ECS
  - B. Removes ECS when load decreases
  - C. Disables OBS
  - D. Deletes VPCs automatically
- 

**35. Before attaching ECS to ELB, what must be checked?**

- A. ECS must have EIP
  - B. ECS must be in same Region
  - C. ECS must disable firewall
  - D. ECS must be in private subnet only
- 
- 

**SECTION 2 – TRUE / FALSE (10 Questions)**

**36. VPC Peering supports cross-region communication.**

True / False

**37. Security Groups are stateful.**

True / False

**38. Network ACLs are stateful.**

True / False

**39. EIP can be unbound from ECS without downtime.**

True / False

**40. NAT Gateway supports both SNAT and DNAT.**

True / False

**41. OBS buckets are region-specific.**

True / False

**42. Auto Scaling supports both scale-out and scale-in.**

True / False

**43. ELB health checks are optional.**

True / False

**44. IAM can restrict access to OBS buckets.**

True / False

**45. EVS snapshots can be used to create new volumes.**

True / False

---

### **SECTION 3 – SCENARIO QUESTIONS (5)**

(Short Answer)

**46. Design a secure VPC network for a production web app that includes: Web tier + App tier + DB tier + OBS storage.**

**47. Explain how you would perform a zero-downtime upgrade with ELB + Auto Scaling.**

**48. How do you secure an OBS bucket so ONLY an ECS in a private subnet can access it?**

**49. Describe what happens during an AZ failure and how ELB + Multi-AZ ECS prevents downtime.**

**50. What is the best backup strategy for an environment using ECS + RDS + OBS?**

---

 **ANSWER KEY (All Questions)**

### **Multiple Choice**

- 1-A
  - 2-B
  - 3-A
  - 4-B
  - 5-A,C
  - 6-B
  - 7-A
  - 8-B
  - 9-A
  - 10-B
  - 11-B
  - 12-B
  - 13-B
  - 14-B
  - 15-B
  - 16-B
  - 17-B
  - 18-B
  - 19-A,C
  - 20-B
  - 21-B
  - 22-C
  - 23-A,C
  - 24-A
  - 25-A,B,D
  - 26-B
  - 27-A
  - 28-B
  - 29-C
  - 30-C
  - 31-B
  - 32-B
  - 33-A
  - 34-B
  - 35-B
- 

### **True / False**

36-False

37-True

38-False

39-True

40-True

41-True

42-True

43-False

44-True

45-True

## TIPS

you need to look at the following from the slides :

FOCUS On Cloud Native and it's Applications

Search About CodeArt

Focus on Relational DB And non-Relational

Focus on Trauss description

Focus on GaussDB

Focus on Securitygroup and ACL

Focus on power dependency for AZ

Focus on specific details for EVS AND OBS

Focus on ACL for OBS

Focus on SFS details

Focus on Cloud Eye and Cloud Trace

Focus on Security Considerations

Focus on Nat Specifications

Focus How to connect on permissis like VPN OR DIRECT

All Questions above is related to exam not typical that you will see  
you need to be understanding details and concepts

Please Please Read Slides At least once

Please Please Do each Lab which I contain in Repo at least 2 times you can use chatgpt to understand any step if you have a trouble  
You should test this labs before exam and take your time <3

Made By

**Eng: Muhammad Abdulghaffar**