1. The data that is collected by Tracing Analysis is stored in SLS (Simple Log Service). You can write SQL statements to query data if needed. Which of the following is the project name format of Tracking Analysis data in SLS?

A proj-xtrade-\*\*\*-{regionId}

B proj-xtrade-{userID}-{regionId}

C proj-xtrade-{serviceName}-{regionId}

D proj-xtrade-{traceId}-{regionId}

***Explanation:***

* The data that is collected by Tracing Analysis is stored in Log Service.
* By default, the data that is collected by Tracing Analysis is stored in Log Service. Format of a Log Service project:
  + proj-xtrade-\*\*\*-{regionId}

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/194297.htm>

1. Which of the following is NOT a valid state for a scaling activity in Alibaba Cloud’s Elastic Scaling Service (ESS - also known as Auto Scaling) state of the scaling activity in the Alibaba Cloud elastic scaling group?

A Rejected

B Executing

C Failed

D Timeout

***Explanation:***

* A scaling activity can have the following states: Rejected, Executing, Successful, Warning, and Failed.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/25898.htm>

1. In the era of microservices, applications are becoming more and more complex. Traditional monitoring methods are no longer suitable for businesses using the microservice architecture. Which of the following is NOT a challenge associated with monitoring microservices?

A Application topology is complicated

B Implementation of link tracking is difficult

C There is a need to achieve code-level visibility

D Business modules need to be service-oriented

***Explanation:***

* Service-oriented architecture is the basis of creating business models in microservice architecture and it is not a challenging task when using microservice architecture.

***Documentation:***

* <https://www.alibabacloud.com/blog/utilize-microservices-architecture-to-optimize-your-application-performance_596291>

1. The core function of PolarDB’s Oracle SPL program is to interact with databases through various objects (such as procedures, functions, triggers, and so on) for data processing. Which of the following statements is NOT supported?

A SELECT INTO

B INSERT

C UPDATE

D COPY INTO

E DELETE

F RETURNING INTO

***Explanation:***

* A trigger is a named Structured Process Language (SPL) code block that is associated with a table and stored in the database.
* RETURNING INTO is not supported in PolarDB’s Oracle SPL program

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/149212.htm>

1. An Alibaba Cloud RDS database instance is used by many applications to look up historical data. The query rate is relatively constant. When the historical data is updated each day, the resulting write traffic slows the read query performance and affects all application users. What can be done to eliminate the performance impact on application users?

A Make sure RDS is Multi-AZ so it can better absorb increased traffic

B Create an RDS Read-Only instance and direct all read traffic to the replica

C Implement Redis in front of RDS to buffer the write traffic

D Implement Redis in front of RDS to buffer the read traffic

***Explanation:***

* The read/write splitting feature of ApsaraDB RDS allows ApsaraDB RDS to distribute read requests to read-only RDS instances based on the read weights of these instances. This is implemented by using a read-only routing endpoint.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/99000.htm>

1. Which of the following tools is suitable for importing excel file data into an RDS database?

A DMS (Data Management Service)

B DTS (Data Transmission Service)

C MySQLdump

D MySQLclient

***Explanation:***

* Using DMS (Data Management Service) we can import excel data into the RDS Database.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/178518.htm>

1. When a developer uses the LogGroup function to package multiple logs and writes data through the API/SDK of the Log Service, it receives error code 403 or 500 continuously. What are the possible reasons?

A The “Topic” data field is empty

B The log size written to log group is less than 5MB

C The target partition in the Logstore is not specified

D Insufficient space in the Logstore partition

***Explanation:***

* If an error occurs when you send an API request to Log Service, Log Service will return an HTTP status code and error details.
* 403 error message is displayed, if there is insufficient space and when log write quota is exceeded.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/29013.htm>

1. To meet data analytics requirements on large datasets, which of these databases can meet the demand for structured and semi-structured storage for almost all types of data, albeit with limited support for strong transactions?

A HBase

B OceanBase

C RDS MariaDB

D TSDB

***Explanation:***

* ApsaraDB for HBase provides capabilities such as real-time storage, high concurrency and throughput, Phoenix-based lightweight data analysis by executing SQL statements, SOLR-based full-text indexes for large amounts of **semi-structured or structured data**

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/49501.htm>

1. Alibaba Cloud RDS supports multi-dimensional access control. Which of these statements about RDS access control is NOT correct?

A Create an ordinary database account through the RDS console or API, and attach the database level read-only, read-write, DDL, and DML permissions

B Create a highly-privileged database account through the console or API, and then log in to the database to create a common database account. High-privilege (administrator) database accounts can set more fine-grained permissions compared with ordinary database accounts

C Add a whitelist on the data security page or API of the RDS console. Updating the whitelist does not require restarting the RDS instance, so there will be no effect on applications using the database

D When the TDE function is enabled on a RDS instance, the data written to RDS can be encrypted, but the database or table that participates in the encryption cannot be specified

***Explanation:***

* TDE is used to encrypt the data that is written to the disk and decrypt the data that is read from the disk to the memory
* TDE can be enabled or disabled in Database-level of the RDS Instance

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/95716.htm>

1. Which of the following statements describes AKs (Access Keys) incorrectly?

A “AK” can refer to both the AccessKey ID and the AccessKey secret

B You can use AK to construct an API request, and the corresponding resources can be manipulated if your request successfully authenticates

C An AccessKey ID and AccessKey secret cannot be used separately

D AccessKey secrets for RAM sub-accounts can be queried at any time on the Console interface after creation

***Explanation:***

* you cannot view the AccessKey secret in the RAM console after you create an AccessKey pair.
* The AccessKey secret is only displayed when you create an AccessKey pair, and is unavailable for subsequent queries.
* It is recommended that you save the AccessKey secret for subsequent use.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/134385.htm>

1. A developer was sending a request to Key Management Service (KMS) through the KMS API interface, and found that the key management service cannot be accessed. What is a possible reason?

A The HTTPS protocol is not enabled

B User key master key is in Disabled state

C The user key master key in is PendingDeletion state

D The user key master key is in PendingImport state

***Explanation:***

* To ensure your data security, KMS supports only HTTPS. Make sure that HTTPS is enabled when you use the SDK for access.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/43613.htm>

1. During the process of backing up an RDS database, a developer found that the backup failed. What might cause this to happen?

A The database instance is not stopped

B DDL operations were performed during the backup

C DML operations were performed during the backup

D DCL operations were performed during the backup

***Explanation:***

* Do not execute data definition language (DDL) statements during a backup. These statements trigger locks on tables, and the backup may fail as a result of the locks.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/98818.htm>

1. Alibaba Cloud’s ECS disk snapshotting tool can create crash-consistent snapshots for all types of Cloud Disks. It is a convenient and efficient disaster recovery method. It is often used for data backup, custom mirroring, application disaster recovery, etc. Which of the following is NOT a correct description of disk snapshots?

A A snapshot is a backup file of the cloud disk data state at a certain point in time. The first snapshot of the cloud disk is a full snapshot of the actual usage. Empty data blocks are not backed up. All subsequent snapshots are incremental snapshots, and only changed data blocks are stored

B Snapshots can be created manually through the web console or command line tools, or automatically according to a schedule

C In the event of a system failure, you can use a snapshot to roll back the Cloud Disk to an earlier point time

D Snapshot rollbacks can be performed while the ECS instance is running

***Explanation:***

* Before you roll back a disk by using an instance snapshot,The instance is in the Stopped state.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/209160.htm>

1. In Alibaba Cloud RocketMQ, messages are kept for up to \_\_\_\_\_ days. We recommend configuring a monitoring service to watch the consumption status, and to intervene manually when “not consumed but to be deleted” message alarms occur.

A 2

B 3

C 4

D 5

***Explanation:***

* Messages are retained for up to three days, and the system automatically deletes them after three days.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/85006.htm>

1. Assume that a company uses ApsaraDB for PolarDB. The company commonly queries users based on their basic information, including: addresses, company names, and ID numbers. In this scenario, what is the best practice for creating a database index (or indexes)?

A Create a b-tree index on each column to be searched

B Create a hash index on each column to be searched

C Create a fin index for multiple fields

D Create a gist index for multiple fields

***Explanation:***

* PolarDB-O provide the B-tree index method,which can be used for creating a database index (or indexes)

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/135264.htm>

1. If you have a Node.js based application and you plan to migrate it to Alibaba Cloud Function Compute, which of the following steps is unnecessary?

A Manually install the Node.js package in the Function Compute console

B Create a single web application and upload the corresponding code package via the Function Compute console (or fcli)

C Configure program startup commands and access ports in the Function Compute console

D Start and verify the application in the Function Compute console

***Explanation:***

* Alibaba Cloud Function Compute is a fully-managed event-driven computing service. With Function Compute, you can focus on writing and uploading code, without the need to procure and manage infrastructure resources such as servers
* There is no need of manually installing the Node.js package in the Function Compute console

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/52895.htm>

1. You want to deploy a LAMP development environment in Alibaba Cloud’s Singapore region, and you want to simultaneously bind a domain name and configure HTTPS. Which of these services can help you accomplish this quickly and easily?

A Elastic Compute Service (ECS)

B Elastic Container Instance (ECI)

C Simple Application Server (SAS)

D Alibaba Cloud Container Service for Kubernetes (ACK)

***Explanation:***

* Simple Application Server provides an all-in-one solution to deploy and manage applications, configure domain name resolution, and build, monitor, and maintain websites.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/58612.htm>

1. A Developer is asked to implement a caching layer in front of RDS. Cached content is expensive to regenerate in case of service failure. Which implementation below would work while maintaining maximum uptime?

A Implement ApsaraDB for Redis in Cluster Mode

B Install Redis on an ECS instance

C Implement ApsaraDB for Redis in Standard Mode

D Migrate the RDS database to HBase to save the cache layer

***Explanation:***

* Cluster instances run in a distributed architecture. Each node uses a high-availability master-replica structure to automatically perform the failover and disaster recovery.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/35371.htm>

1. In Alibaba Cloud, a developer finds that the ECS instance he created does not have public IP assigned. The API method used was ‘CreateInstance’. Which of the following is the most likely reason?

A The developer did not call AllocatePublicIPAddress (an additional API call), which is needed to assign a public IP

B The CreateSecurityGroup API call was not made

C The CreateDisk API call was not made

D The ECS was not restarted after being created

***Explanation:***

* We have to call the AllocatePublicIPAddress operation to assign a public IP address to an ECS instance.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/25544.htm>

1. Serverless Workflow allows you to orchestrate distributed tasks in sequence, branch, and parallel modes, and ensure that tasks are reliably coordinated according to your workflow logic. Which of the following service integration modes is not supported by Serverless Workflow?

A Request response mode

B Synchronization mode

C Asynchronous mode

D Waiting for callback mode

***Explanation:***

* Serverless Workflow supports the following integration modes
  + Request-response mode
  + Synchronous mode
  + Waiting for callback mode

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/149828.htm>

1. Which of the following options are correct for Multipart Upload and Resumable Upload in Object Storage Service (OSS)? (Number of correct answers: 3)

A Use Multipart Upload to upload multiple parts of a file in parallel to speed up the upload process

B Multipart Upload is usually used when the size of the file to be uploaded is large

C If the upload falls due to an accident during the uploading of fragments, you need to upload all the fragments again

D After an upload is interrupted, the portions of the file which have successfully uploaded prior to the interruption will be saved in the OSS bucket

***Explanation:***

* Alibaba Cloud OSS provides multipart upload for you to split an object you want to upload into multiple parts and upload the parts separately.
* After the parts are uploaded, you can call CompleteMultipartUpload to combine these parts into an object.
* If the upload fails due to network errors in the upload process, you can continue the upload from the last uploaded part to implement resumable upload.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/31850.htm>

1. Which of the following statements about migrating data into and out of Object Storage Service (OSS) are correct? (Number of correct answers: 3)

A You can migrate data between OSS buckets in any of the following conditions: Buckets are located within the same region, buckets are located across multiple regions and buckets belong to different Alibaba Cloud accounts

B A migration job occupies the network resources of the source and the destination. To ensure business continuity, we recommend that you specify a rate limit for a migration job or run the migration job during an off-peak period

C You cannot migrate data between OSS buckets. If the data at the source is stored in a bucket of the Archive type

D Online migration supports both migrating multiple buckets at a time, and migrating all the data under an Alibaba Cloud account at a single time

***Explanation:***

* Data Online Migration allows you only to migrate data of a single bucket at a time. You cannot migrate all data in your account at a time.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/95040.htm>
* <https://www.alibabacloud.com/help/doc-detail/95074.htm>

1. Which of the following web applications are suitable for deployment on Simple Application Server (SAS), as compared with ECS? (Number of correct answers: 3)

A Quickly build a personal blog website

B Quickly build a small e-commerce website

C Quickly build serverless site using Function Compute

D Set up a NoSQL database service

E Quickly build a personal, learning, or test environment

***Explanation:***

* Simple Application Server is suitable for the following scenarios
  + Quickly build a personal blog website
  + Quickly build a small e-commerce website
  + Quickly build a personal, learning, or test environment

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/58621.htm>

1. A developer recently discovered that their company’s application is beginning to suffer performance degradation as a result of increased user demand for the application. After some analysis, the major bottleneck is discovered to be the RDS database instance which hosts the company’s databases, “A” and “B”. The developer plans to use the DTS data migration solution to move one of the databases to a new RDS instance. Which of the following statements is correct? (Number of correct answers: 3)

A The code for the application will have to be rewritten once this migration is complete

B The database account used for data migration must have read and write permissions. To ensure database security, please delete the database account used for data migration or reclaim related write permissions after data migration is completed

C After disconnecting the connection between the source instance database B and the application, you need to log in to the source database B to check the session messages to ensure that no new sessions performed write operations

D Create a reverse data migration task and start it to migrate subsequent incremental data from target instance database B to source instance database B

***Explanation:***

* code for the application does not deal with data migration from one RDS instance to the other.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/26626.htm>

1. Which of these are suitable use cases for Alibaba Cloud’s ApsaraDB for Redis service? (Number of correct answers: 3)

A Online gaming user rankings (scoreboard)

B E-Commerce sales & promotions

C Live video chat system

D Enterprise OA system

***Explanation:***

* suitable use cases for Alibaba Cloud’s ApsaraDB for Redis service are
  + Online gaming user rankings (scoreboard)
  + E-Commerce sales & promotions
  + Live video chat system

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/43829.htm>

1. By default, Function Compute cannot access resources within a VPC network group. To enable Function Compute to access resources located in a VPC, which of the following parameters needs to be configured? (Number of correct answers: 3)

A vpcId

B vSwitchIds

C securityGroupId

D ENIID

E IntranetAccess

***Explanation:***

* vpcId, vSwitchIds, and securityGroupId are the parameters need to be configured

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/72959.htm>

1. When connecting to the Alibaba Cloud RDS database, in order to improve the completeness and integrity of the connection, you can enable SSL encryption and install an SSL CA certificate for the required application service. Which of the following statements are correct? (Number of correct answers: 3)

A Due to the way in which SSL encryption is implemented, enabling SSL encryption will significantly increase the CPU usage rate. Enable SSL encryption when there is an encryption requirement for the external network link. the intranet link is relatively safe, and generally no link encryption is required

B If the RDS instance is a multi-node instance, the system will trigger the active/standby switch after the SSL service is disabled

C When using read/write splitting, you can also enable SSL encryption to improve the security of the connection

D It is discovered that an Alibaba Cloud RDS SSL certificate is about to expire, and the validity period needs to be updated, requiring that the certificates be updated, then reinstalled. This will restart the RDS instance

***Explanation:***

* SSL encryption is not supported for the connection to the read/write splitting endpoint of your RDS instance.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/96120.htm>

1. Which of the following descriptions describes the STS (Security Token Service) service correctly? (Number of correct answers: 3)

A Through the STS service, RAM users or RAM roles can obtain a temporary token that allows then to call the Alibaba Cloud API or use the web console

B A STS request consists of an access address, communication protocol, request method, request parameters, and character encoding

C When calling the STS API, in order to ensure the safe calling of the API, Alibaba Cloud will authenticate each API request through a signature when each API call is made

D The STS service supports the use of both HTTP and HTTPS protocols

***Explanation:***

* To ensure communication security, STS only allows you to send requests over HTTPS.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/28758.htm>

1. You have an ECS instance that does not have a public IP address assigned (only a private IP). You want users on the Internet to be able to connect to a web application on this ECS instance. Which of these are reasonable solutions? (Number of correct answers: 3)

A Assign a public IP address when the ECS instance is first created

B Bind an Elastic IP (EIP) to the ECS instance

C Attach a NAT Gateway to the ECS instance’s VPC, and configure a DNAT rule

D Attach a VPN Gateway to the ECS instance’s VPC

E Place the ECS instance behind a private (Intranet) Server Load Balancer (SLB)

***Explanation:***

* DNAT maps the EIPs of a NAT gateway to ECS instances. This way, the ECS instances can receive requests from the Internet.
* ECS instances within VPCs support the following types of public IP addresses
* PublicIP addresses: the public IP addresses assigned by the ECS system.
* Elastic IP address (EIPs)

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/32322.htm>
* <https://www.alibabacloud.com/help/doc-detail/44441.htm>

1. By default, Function Compute creates an instance for each request. Function Compute allows you to create multiple instances concurrently to reduce costs and improve execution efficiency. Which of the following scenarios is NOT suitable for enabling the feature of handling multiple requests on a single instance? (Number of correct answers: 2)

A The function has a shared state and cannot be accessed concurrently

B Requests are waiting for responses from the downstream service for an extended period of time

C A request consumes a large amount of CPU and memory resources

D Functions processes independent data objects

***Explanation:***

* Functions can be accessed concurrently and the request does not wait for downstream service

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/52895.htm>

1. Which of the following descriptions of Alibaba Cloud’s SSL certificate service are correct? (Number of correct answers: 2)

A Alibaba Cloud SSL Certificate Service supports the purchase of three types of certificates: DV certificates, OV certificates, and EV certificates

B EV certificates are suitable for large enterprises, financial institutions, etc

C OV certificates are suitable for personal websites

D DV certificates are suitable for government organizations, enterprises, educational institutions, etc

***Explanation:***

* EV certificates are suitable for Websites of organizations such as large-sized enterprises and financial institutions
* Alibaba Cloud SSL Certificate Service supports the purchase of three types of certificates: DV certificates, OV certificates, and EV certificates

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/28535.htm>

1. You have an application with the following requirements:
   1. There will be a lot of video content that need to be uploaded
   2. Each uploaded video needs to be preprocessed to provide different video resolutions and quality levels to accommodate different devices and network conditions
   3. It should be possible to process video in parallel at scale, to ensure that videos are preprocessed in a reasonable amount of time

Which of the following Alibaba Cloud applications can be combined to provide a low operation and maintenance burden and relatively low operating costs? (Number of correct answers: 3)

A Serverless Workflow

B Function Compute

C Log Service

D Elastic Compute Service (ECS)

E Server Load Balancer (SLB)

***Explanation:***

* When you use Serverless workflow, you are charged based on the number of step transitions required to execute your application. After the execution, you will not be charged
* With Function Compute, you can quickly create any type of applications and services and only pay for the resources actually consumed when you run your code.
* ECS instances can be delivered within minutes. This enables rapid deployment and reduces time to market.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/114020.htm>
* <https://www.alibabacloud.com/help/doc-detail/52895.htm>
* <https://www.alibabacloud.com/help/doc-detail/25367.htm>

1. Which of the following cloud services can be integrated with Alibaba Cloud KMS (Key Managed Service)? (Number of correct answers: 3)

A Elastic Compute Service (ECS)

B Object Storage Service (OSS)

C Relational Database Service (RDS)

D Server Load Balancer (SLB)

***Explanation:***

* KMS is integrated with multiple Alibaba Cloud services such as ECS, ApsaraDB for RDS, and OSS.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/28938.htm>

1. For business scenarios with strong data reliability requirements or financial business scenarios with regulatory requirements related to data durability and availability, RDS MySQL provides a remote backup mechanism to improve reliability. Which of the following is correct, regarding RDS’s remote disaster recovery capabilities? (Number of correct answers: 3)

A The primary database (the one to be backed up) must have an Alibaba Cloud intranet address

B RDS realizes real-time synchronization between the master instance and the remote disaster recovery instance through Data Transmission Service (DTS)

C When an outage occurs in the area where the primary instance is located, and neither the primary instance (Master) nor the standby instance (Slave) can be connected to, the remote disaster recovery instance can be switched to the primary instance

D When the database deletion operation is performed on the master instance, the operation will also be synchronized to the disaster recovery instance

***Explanation:***

* You can use DTS to synchronize the data of a database in any user-created data center or an ECS-hosted database in one region to an RDS instance in another region in real time
* When a primary database instance is unavailable, its disaster recovery instance takes over the services.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/26106.html>
* <https://www.alibabacloud.com/product/apsaradb-for-rds-mysql>

1. Which of the following statements are correct, with regard to Alibaba Cloud Log Service? (Number of correct answers: 3)

A As an agent for collecting logs, Logtail can collect logs from existing system log files in a non-intrusive manner

B The Log Service frontend service adopts an LVS + NGINGX architecture

C The Logstore backend service is deployed on a single machine to complete the real-time persistence, indexing, query and delivery of Logstore data to MaxCompute

D Each log written to the Log Service backend will be saved in triplicate (across three separate physical servers)

***Explanation:***

* The backend service is a distributed process deployed on multiple servers. The service performs storage, indexing, and queries on Logstore data in real time as well as ships the data to MaxCompute

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/29003.htm>

1. In PolarDB, if an UPDATE SQL statement encounters an issue, you need to check the execution plan to figure out the root cause. However, in the production environment, to avoid affecting the production data, what statement should you use to view the execution plan? (Number of correct answers: 2)

A explain SQL

B explain analyze SQL

C explain verbose SQL

D explain analyze verbose SQL

***Explanation:***

* If the VERBOSE option is set to TRUE, the additional information about the query plan is returned.
* If the ANALYZE option is set to TRUE, the SQL statement is executed and the query plan is returned.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/181319.htm>

1. On which operating systems can you install Alibaba Cloud command line tools? (Number of correct answers: 3)

A Windows

B Linux

C macOS

D Android

***Explanation:***

* CLI supports the following operating systems
  + Windows
  + Linux
  + macOS

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/93539.html>

1. What are the required parameters for the Python SDK to create a client to access Alibaba Cloud’s API? (Number of correct answers: 3)

A access\_key\_id

B access\_key\_secret

C region\_id

D zone\_id

E vpc\_id

***Explanation:***

* The parameters need to create a client to access API are access\_key\_id,access\_key\_secret and region\_id

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/62197.htm>

1. Alibaba Cloud RabbitMQ is typically used in scenarios where message publishing and consumption performance requirements are high. Which of the following are supported message types in Alibaba Cloud RabbitMQ? (Number of correct answers: 3)

A Scheduled message

B Ordered message

C Batched message

D Transactional message

E Retried message

***Explanation:***

* Alibaba Cloud RabbitMQ supported message types are Scheduled message,Ordered message and Transactional message

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/155952.htm>

1. After the image is uploaded to OSS, a 403 error is returned when you use a browser to request the image via its object URL. Which of these are possible reasons? (Number of correct answers: 2)

A Server-side encryption is enable on OSS

B The ACL of the bucket in which the object is located is set to “Private”

C HTTPS is required

D The bucket the object is located in has Anti-leech protection enabled, and the Referer field is not allowed to be empty

***Explanation:***

* The possible reasons may be Server-side encryption is enable on OSS and ACL of the bucket is set private.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/185803.htm>

1. An Elastic Compute Service (ECS) instance (private IP only) needs to read data from a RDS MySQL database in another VPC through a private IP address, and at the same time, RDS’s public internet endpoint needs to be available for requests from some internet clients. Which steps must be taken to allow applications to access this RDS instance via both interfaces? (Number of correct answers: 2)

A Make sure that the security group of the ECS instance allows outbound access to the MySQL service port

B Add the private and public IP addresses of all applications to the RDS whitelist

C Connect the two VPCs through CEN

D Configure a NAT gateway for the VPC to which the ECS instance belongs

***Explanation:***

* To access RDS in the local data center, you need to use the cloud Enterprise Network.
* After your RDS instance is created, you must add the IP addresses of specific devices to an IP address whitelist of the instance. Then, these devices can access your RDS instance.

***Documentation:***

* <https://www.alibabacloud.com/help/faq-detail/41843.htm>
* <https://www.alibabacloud.com/help/doc-detail/43187.htm>

1. You can only connect to an ApsaraDB for Redis instance over the Alibaba Cloud internal network, if you have not yet applied for a public IP address. What is the prerequisite for connecting to an ApsaraDB for Redis instance by using an ECS instance over the internal network without leveraging other Alibaba Cloud network products? (Number of correct answers: 3)

A The ECS instance and the ApsaraDB for Redis instance are in the same Region

B The ECS instance and the ApsaraDB for Redis instance are in the same VPC

C The internal IP address of the ECS instance is included in the whitelist of the ApsaraDB for Redis instance

D The ECS instance is deployed with an EIP

E ECS instance is configured with a Redis Access RAM role

***Explanation:***

* To enable connections over an internal network, make sure that the ApsaraDB for Redis instance is deployed in the same region as an Elastic Compute Service (ECS) instance
* If only the VPC network type is used to enable connections, make sure that the ApsaraDB for Redis instance is connected to the same VPC as the ECS instance or ApsaraDB for RDS instance.
* Before you use an ApsaraDB for Redis instance, you must add IP addresses or CIDR blocks that are used to access the ApsaraDB for Redis instance to an IP address whitelist of the instance

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/26351.htm>
* <https://www.alibabacloud.com/help/doc-detail/107043.htm>

1. A developer creates a MySQL database service on a Linux ECS instance (ECS-A), and wants to access this database service from another instance (ECS-B) in the same VPC using the private IP address bound to the ECS instance, however, the connection can’t be established. What could cause this? (Number of correct answers: 3)

A The security group for ECS-A does not have the default MySQL service port open

B The built-in firewall on ECS-A has rules that prohibit external access to the MySQL service port

C No internet IP address is configured for ECS-A

D The bind-address parameter set in the my.ini configuration file of the MySQL service is commented out

***Explanation:***

* The cause may be
  + The security group for ECS-A does not have the default MySQL service port open.
  + The built-in firewall on ECS-A has rules that prohibit external access to the MySQL service port
  + No internet IP address is configured for ECS-A.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/188447.htm>
* <https://www.alibabacloud.com/help/doc-detail/53822.htm>

1. Alibaba Cloud Log Service is a Pay-As-You-Go service. The billing unit is 1 day, and the configuration can be adjusted at any time: fees are charged according to actual usage. Which of the following are the main charges for Log Service? (Number of correct answers: 3)

A Read and write traffic

B Storage capacity

C Index traffic after index configuration

D Query analysis

***Explanation:***

* The billable items will be Read and write traffic,Storage capacity and Index traffic after index configuration.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/107745.htm>

1. In order to deal with sudden spikes in traffic, Company A uses Alibaba Cloud Auto Scaling to set up an alarm trigger task (growing the Scaling Group when the average memory utilization on ECS instances exceeds 80%). During the test, it was found that the alarm task was not executed successfully. Which of these could be possible causes? (Number of correct answers: 3)

A The ECS instances in the Scaling Group have not yet installed the CloudMonitor monitoring agent

B Before triggering the alarm task, the number of instances in the group has reached the maximum number of instances allowed (MaxSize)

C The instance types chosen in the Scaling Configuration are out-of-stock in the Alibaba Cloud region where the Scaling Group is located

D The number of instances in the current group exceeds the “expected number of instances” for the Scaling Group

***Explanation:***

* The number of instances in the current group that exceeds the “expected number of instances” for the Scaling Group is not the possible cause for the unsuccessful working of an alarm task.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/101447.htm>
* <https://www.alibabacloud.com/help/doc-detail/74853.htm>

1. In order to have your application interact with Alibaba Cloud RabbitMQ, you need to create related MQ resources first. Which of the following resources must be created? (Number of correct answers: 3)

A Vhost

B Exchange

C Queue

D Broker

E Topic

***Explanation:***

* After you access Message Queue for RabbitMQ from an application, you must create resources, such as instances, a username/password pair, **vhosts, exchanges, queues**, bindings, and an AccessKey pair.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/101900.htm>

1. Which of the following options correctly describes CloudMonitor Custom Monitoring and Custom Events? (Number of correct answers: 2)

A Custom Events are used for collection of continuous event type data, queries, and alarms

B Custom Events is for periodic and continuous collection of time series monitoring data, queries, and alarms

C Custom Monitoring is used for periodic and continuous collection of time series monitoring data, queries, and alarms

D Custom Monitoring is used for collection of non-continuous event data, such as information about ECS instance restarts

***Explanation:***

* Custom monitoring focuses on periodically collected time series data.
* Allows you to report events, query events, and receive alerts about events. Event monitoring allows you to report exceptions or important changes in your business to CloudMonitor and receive alerts when exceptions occur.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/35178.htm>
* <https://www.alibabacloud.com/help/doc-detail/35170.htm>

1. Which of the following options describes the basic concepts of Alibaba Cloud Tracing Analysis correctly? (Number of correct answers: 3)

A Alibaba Cloud Tracing Analysis model relies on OpenTracing

B In the OpenTracing standard, a call chain can be regarded as a directed acyclic graph (DAG) composed of multiple Spans. The relationship between spans is named References

C In the OpenTracing standard, each Span represents a named and timed non-continuous execution segment in the call chain

D In some cases, timing diagrams based on the timeline are used to show the call chain

***Explanation:***

* .In the OpenTracing standard, a trace is a directed acyclic graph (DAG) that consists of multiple spans.
* Each span represents a named and timed segment that is continuously run in the trace.

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/90498.htm>

1. Which of the following statements describe the traceID and spanID in a service tracking system (such as Zipkin) correctly? (Number of correct answers: 3)

A When the user’s request enters the system, a globally unique traceId will be generated on the first layer of the calling network

B The traceId will be called with each layer and passed back continuously, so through traceId, the path of a user request in the system can be connected in series

C SpanId can locate the position of a request in the system call, and who its upstream and downstream dependencies are respectively

D TraceId is used to distinguish the sequence of calls between different services of the system, spanId is used to concatenate all the paths that a certain request transverses in the system

***Explanation:***

* traceId is used to concatenate all the paths that a request traverses in the system
* spanId is used to distinguish the sequence of calls between different services of the system

***Documentation:***

* <https://chowdera.com/2020/12/20201205075341530g.html>
* <https://www.programmersought.com/article/87874983813/>

1. A web application must trigger a callback function to complete some operations after each file is uploaded to Object Storage Service (OSS), which of the following services can developers use to automatically trigger this callback function? (Number of correct answers: 2)

A Configure event notifications in OSS to directly call the callback function

B Call the callback function when using the OSS SDK to perform PutObject

C Define a callback function in Function Compute and configure the OSS trigger

D Trigger the callback function when an OSS object is uploaded by using the OSS lifecycle management feature

***Explanation:***

* You can configure event notification rules in the OSS console for objects that you want to monitor. If the events that you specified in the rules occur on these objects, OSS immediately sends you a notification.
* Define a callback function in Function Compute and configure the OSS trigger

***Documentation:***

* <https://www.alibabacloud.com/help/doc-detail/52656.htm>