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Oracle Cloud Infrastructure 2019 Architect Professional

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QUESTION 1

You are working as a solutions architect for an online retail store in Frankfurt which uses multiple compute instance VMs spread among three availability domains in the eu-frankfurt-1 region.

You noticed the website is having very high traffic, so you enabled autoscaling to support your application but, you observed that one of the availability domains is not receiving any traffic. What could be wrong in this situation?

- A. Autoscaling only works with single availability domains.
- B. You have to manually add all three availability domains to your load balancer configuration.
- C. Autoscaling can be enabled for multiple availability domains only in us-east-1 region.
- D. Autoscaling is using an Instance Pool configured to create instances in two availability domains.
- E. You forgot to attach a load balancer to your instance pool configuration.

Correct Answer: D

Autoscaling lets you automatically adjust the number of Compute instances in an instance pool based on performance metrics such as CPU utilization. This helps you provide consistent performance for your end users during periods of high demand, and helps you reduce your costs during periods of low demand. You can associate a load balancer with an instance pool. If you do this, when you add an instance to the instance pool, the instance is automatically added to the load balancer's backend set. After the instance reaches a healthy state (the instance is listening on the configured port number), incoming traffic is automatically routed to the new instance. Instance pools let you provision and create multiple Compute instances based off the same configuration, within the same region. By default, the instances in a pool are distributed across all fault domains in a best-effort manner based on capacity. If capacity isn't available in one fault domain, the instances are placed in other fault domains to allow the instance pool to launch successfully. In a high availability scenario, you can require that the instances in a pool are evenly distributed across each of the fault domains that you specify. When sufficient capacity isn't available in one of the fault domains, the instance pool will not launch or scale successfully, and a work request for the instance pool will return an "out of capacity" error. To fix the capacity error, either wait for capacity to become available, or use the UpdateInstancePool operation to update the placement configuration (the availability domain and fault domain) for the instance pool. During create the instance pool you can select the location where you want to place the instances. In the Availability Domain list, select the availability domain to launch the instances in. If you want the instances in the pool to be placed evenly in one or more fault domains, select the Distribute instances evenly across selected fault domains check box. Then, select the fault domains to place the instances in.

QUESTION 2

As a part of migration exercise for an existing on-premises application to Oracle Cloud Infrastructure (OCI), you are required to transfer a 7 TB file to OCI Object Storage. You have decided to upload functionality of Object Storage.

Which two statements are true?

- A. Active multipart upload can be checked by listing all parts that have been uploaded, however it is not possible to list information for individual object part in an active multipart upload.
- B. It is possible to split this file into multiple parts using the APIs provided by Object Storage.



- C. It is possible to split this file into multiple parts using rclone tool provided by Object Storage.
- D. After initiating a multipart upload by making a CreateMultiPartUpload RESI API Call, the upload remains active until you explicitly commit it or abort.
- E. Contiguous numbers need to be assigned for each part so that Object Storage constructs the object by ordering, part numbers in ascending order

Correct Answer: AD

You can check on an active multipart upload by listing all parts that have been uploaded. (You cannot list information for an individual object part in an active multipart upload.) After you finish creating object parts, initiate a multipart upload by making a CreateMultipartUpload REST API call. Provide the object name and any object metadata. Object Storage responds with a unique upload ID that you must include in any requests related to this multipart upload. Object Storage also marks the upload as active. The upload remains active until you explicitly commit it or abort it.

QUESTION 3

A cost conscious fashions design company which sells bags, clothes, and other luxury items has recently decided to move all of their on-premises infrastructure Oracle Cloud Infrastructure (OCI), One of their on-premises application is running on an NGINX server and the Oracle Database is running in a 2 node Oracle Real Application Clusters (RAC) configuration. Based on cost considerations, what is an effective mechanism to migrate the customer application to OCI and set up regular automated backups?

- A. Launch a compute Instance and run a NGINX server to host the application. Deploy a 2 node VM DB Systems with oracle RAC enabled import the on premises database to OCI VM DB Systems using oracle Data Pump and then enable automatic backups.
- B. Launch a compute Instance and run an NGINX server to host the application. Deploy Exadata Quarter Rack, enable automatic backups and import the database using Oracle Data Pump.
- C. Launch a compute Instance for both the NGINX application server and the database server. Attach block volumes on the database server compute instance and enable backup policy to backup the block volumes.
- D. Launch a Compute instance and run a NGINX Server to host the application. Deploy a 2 node VM DB Systems with Oracle RAC enabled Import the on premises database to OCI VM DB Systems using data pump and then enable automatic backup- Also, enable Oracle Data Guard on the database server

Correct Answer: A

Based on cost considerations will exclude the Exadata. and there's no need for Data Guard Cost Estimator
<https://www.oracle.com/cloud/cost-estimator.html>



Configuration Options	Pay As You Go	Monthly Flex	
Database Cloud Service - OCI	\$7,190	\$11,460	
> Database - OCI	\$17,190	\$11,460	
Oracle Database Exadata Cloud Service	\$120,000	\$80,000	
> Exadata	\$120,000	\$80,000	

QUESTION 4

A large financial services company has used 2 types of Oracle DB Systems. In Oracle Cloud Infrastructure (OCI) to store user data.

One is running on a VM.Standard2.8 shape and the other on a VM.Standard 2.4 shape.

As business grows, data is growing rapidly on both the databases and performance is also degrading.

The company wants to address this problem with a viable and economical solution.

As the solution architect for that company you have suggested that they move their databases to

Autonomous Transaction Processing Serverless (ATP-S) database.

Which two factors should you consider before you arrived at that recommendation?

- A. You verified that ATP S supports the database features and options currently being used by the 2 databases.
- B. Validate that ATP-S will support the storage and processing requirements for the 2 databases over the life cycle of the business applications.
- C. Confirm that ATP-S allows customers to compress tablespaces to reduce storage costs
- D. Upon provisioning, ATP-S automatically scales up CPU to meet the application's processing requirements.

Correct Answer: AB

Not all features present in Oracle Database Enterprise Edition are available in ATP, and some Oracle Database features are restricted, for example, database features designed for administration are not available. so you need to validate it first, You can find a complete list of the features that are not supported, <https://docs.oracle.com/en/cloud/paas/atp-cloud/atpug/experienced-database-users.html#GUID58EE6599-6DB4-4F8E-816D-0422377857E5> Also, you must specify the initial storage required for your database but ADB is elastic, so it is possible to grow or shrink your database as needed.

QUESTION 5

An upcoming e-commerce company has deployed their online shopping application on OCI. The application was



deployed on compute instances with autoscaling configuration for application servers fronted by a load balancer and OCI Autonomous Transaction Processing (ATP) in the backend. In order to promote their e-commerce platform 50% discount was announced on all the products for a limited period. During the day 1 of promotional period it was observed that the application is running slow and company's hotline is flooded with complaints. What could be two possible reasons for this situation?

- A. The health check on some of the backend servers has failed and the load balancer has taken those servers temporarily out of rotation
- B. As part of autoscaling, the load balancer shape has dynamically changed to a larger shape to handle more incoming traffic and the system was slow for a short time during this change
- C. The health check on some of the backend servers has failed and the load balancer was rebooting these servers.
- D. The autoscaling has already scaled to the maximum number of instances specified in the configuration and there is no room of scaling

Correct Answer: AD

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