# 1Z0-1072-22<sup>Q&As</sup>

Oracle Cloud Infrastructure 2022 Architect Associate

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**QUESTION 1**

You have an application running on Oracle Cloud Infrastructure. You Identified that the read and write operations are slowing your application down enough to impair user access. The application is currently using a VM.Standard2.1 compute without any block storage attached to it. Which two options allow you to increase disk IOPS performance?

A. Terminate the compute instance preserving the boot volume. Create a new compute instance using the VM.DenseI02.8 shape using the boot volume preserved and use the NVMe devices to host your application.

B. Terminate the compute instance preserving the boot volume. Create a new compute instance using the VM.Standard2.2 shape using the boot volume preserved and attach a new block volume to host your application.

C. Terminate the compute instance preserving the boot volume. Create a new compute instance using the VM.Standard2.2 shape using the boot volume preserved, but no block volume attached.

D. Terminate the compute instance preserving the boot volume. Create a new compute instance using the BM.GPU2.2 shape using the boot volume preserved, but no block volume attached.

Correct Answer: AD

**QUESTION 2**

You have an AI/ML application running on Oracle Cloud Infrastructure. You identified that the application

needs GPU and at least 20Gbps Network throughput. The application is currently using a VM.Standard2.1

compute without any block storage attached to it.

Which two options allow you to get your required performance for your application? (Choose two.)

A. Terminate the compute instance preserving the boot volume. Create a new compute instance using the BM.GPU2.2 shape using the boot volume preserved, but no block volume attached.

B. Terminate the compute instance preserving the boot volume. Create a new compute instance using the VM.Standard2.2 shape using the boot volume preserved, but no block volume attached.

C. Terminate the compute instance preserving the boot volume. Create a new compute instance using the VM.GPU3.4 shape using the boot volume preserved and use the NVMe devices to host your application.

D. Terminate the compute instance preserving the boot volume. Create a new compute instance using the BM.HPC2.36 shape using the boot volume preserved and use the NVMe devices to host your application.

E. Terminate the compute instance preserving the boot volume. Create a new compute instance using the BM.GPU2.2 shape using the boot volume preserved and attach a new block volume to host your application.

Correct Answer: DE

**QUESTION 3**

You are an administrator with an application running in Oracle Cloud Infrastructure (OCI). The company has a fleet of OCI compute virtual instances behind an load balancer. The load balancer backend set health check API is providing a

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\\'Critical\\' level warning. You have confirmed that your application Is running healthy on the backend servers. What Is the possible reason for this \\'Critical\\' warning?

A. The load balancer listener is not configured correctly.

B. The security list associated with the subnet In which the backend server is provisioned does not include the IP range for the source of the health check requests.

C. A user does not have correct Identity and Access Management (IAM) credentials on the backend servers.

D. The route table associated with the subnet in which the backend server is provisioned does not include the route for the OCI load balancer.

Correct Answer: B

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**QUESTION 4**

Within your tenancy you have a compute instance with a boot volume and a block volume attached. The boot volume contains the OS and the attached block volume contains the instance\\'s important dat

A. Logs on the boot volume have filled the boot volume and are causing issues with the OS. What should you do to resolve this situation?

B. Stop the instance that is full. Create a manual backup of the block storage before making changes. Detach the block volume, create a new instance of the same shape with a larger custom boot volume and attach the block volume to the new instance. Configure the OS and any related application(s) to access the block volume under the same mount point as before.

C. Create a new instance with a larger boot volume size as well a new block volume which is the same size or larger than the one attached to the full instance. rsync the state of the boot volume and the state of the block volume between the two instances.

D. Detach the block volume from the full instance. Create a new instance of the same shape with a larger boot volume and rsync the state of the boot volume between the instances. Attach the block volume to the new instance.

E. Create a manual backup of the block storage instance. Create a custom image of the full instance. Once that completes deploy the custom image to a new instance.

Correct Answer: A

https://docs.cloud.oracle.com/en-us/iaas/Content/Block/Tasks/resizingavolume.htm

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**QUESTION 5**

Which two statements are true about restoring a volume from a block volume backup in Oracle Cloud Infrastructure Block Volume service?

A. You can restore a volume from any full volume backup but not from an Incremental backup.

B. You can only restore a volume to the same availability domain in which the original block volume resides.

C. You can restore a block volume backup to a larger volume size.

D. You can restore a volume to any availability domain within the same region where the backup is stored.

E. You can restore only one volume from a manual block volume backup.

Correct Answer: CD

Reference https://docs.cloud.oracle.com/enus/iaas/Content/Block/Tasks/restoringavolumefromabackup.htm

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**QUESTION 6**

You are running a mission-critical database application in Oracle Cloud Infrastructure (OCI). You take

regular backups of your DB system to OCI object storage. Recently, you notice a failed database backup

status in the console.

What step can you take to determine the cause of the backup failure?

A. Ensure that your database host can connect to OCI object storage.

B. Ensure the database archiving mode is set to NOARCHIVELOG.

C. Make sure that the database is not active and running while the backup is in progress.

D. Don\\'t restart the dcsagent program even if it has a status of stop/waiting.

Correct Answer: A

Database backups can fail for various reasons. Typically, a backup fails because either the database host cannot access the object store, or there are problems on the host or with the database configuration. First need to determining the Problem In the Console, a failed database backup either displays a status of Failed or hangs in the Backup in Progress or Creating state. If the error message does not contain enough information to point you to a solution, you can use the database CLI and log files to gather more data. Then, refer to the applicable section in this topic for a solution. Database Service Agent Issues Your Oracle Cloud Infrastructure Database makes use of an agent framework to allow you to manage your database through the cloud platform. Occasionally you might need to restart the dcsagent program if it has the status of stop/waiting to resolve a backup failure. Object Store Connectivity Issues Backing up your database to Oracle Cloud Infrastructure Object Storage requires that the host can connect to the applicable Swift endpoint. You can test this connectivity by using a Swift user. Host Issues One or more of the following conditions on the database host can cause backups to fail:

-Interactive Commands in the Oracle Profile

-The File System Is Full

-Incorrect Version of the Oracle Database Cloud Backup Module

-Changes to the Site Profile File (glogin.sql)

Database Issues

An improper database state or configuration can lead to failed backups.

-Database Not Running During Backup

-Archiving Mode Set to NOARCHIVELOG (When you provision a new database, the archiving mode is set

to ARCHIVELOG by default. This is the required archiving mode for backup operations)

-Stuck Database Archiver Process and Backup Failures

-Temporary Tablespace Errors

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RMAN Configuration and Backup Failures

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RMAN Retention Policy and Backup Failures

-Loss of Objectstore Wallet File and Backup Failures

TDE Wallet and Backup Failures

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Incorrect TDE Wallet Location Specification

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Incorrect State of the TDE Wallet

-

Incorrect Configuration Related to the TDE Wallet

-Missing TDE Wallet File

As this is not new provisioned database and already in the ARCHIVELOG , regular backups of DB system

to OCI object storage in places, so the best answers are,

-Ensure that your database host can connect to the OCI object storage

-Restart the database service agent

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**QUESTION 7**

Which two resources reside exclusively in a single Oracle Cloud Infrastructure Availability Domain?

A. Identity and Access Management Groups

B. Web Application Firewall policy

C. Block volume

D. Compute Instance

E. Object Storage

Correct Answer: CD

https://docs.cloud.oracle.com/iaas/Content/General/Concepts/regions.htm#one

## QUESTION 8

Which two are Regional resources in Oracle Cloud Infrastructure? (Choose two.)

A. Ephemeral public IPs

B. Compartments

C. Compute images

D. Dynamic groups

E. Block volume backups

Correct Answer: BD

Reference: https://docs.cloud.oracle.com/en-us/iaas/Content/General/Concepts/regions.htm

## QUESTION 9

Which two statements are true about an Oracle Cloud Infrastructure (OCI) virtual cloud network (VCN)? (Choose two.)

A. To delete a VCN, its subnets must contain no resources.

B. A VCN can have multiple CIDR blocks associated with it.

C. In regions with multiple Availability Domains (AD), each AD should have their own VCN assigned to it.

D. If you own a block of public IPs, you can assign it to one of your VCNs.

E. A VCN covers a single, contiguous IPv4 CIDR block of your choice.

Correct Answer: AE

Reference: https://docs.cloud.oracle.com/en-us/iaas/Content/Network/Tasks/managingVCNs.htm

## QUESTION 10

You have multiple applications installed on a compute instance and these applications generate a large amount of log files. These log files must reside on the boot volume for a minimum of 15 days and must be retained for at least 60 days. The 60-day retention requirement is causing an issue with available disk space. What are the two recommended methods to provide additional boot volume space for this compute instance? (Choose two.)

A. Terminate the instance while preserving the boot volume. Create a new instance from the boot volume and select a DenseIO shape to take advantage of local NVMe storage.

B. Create an object storage bucket and use a script that runs daily to move log files older than 15 days to the bucket.

C. Create and attach a block volume to the compute instance and copy the log files.

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D. Create a custom image and launch a new compute instance with a larger boot volume size.

E. Write a custom script to remove the log files on a daily basis and free up the space on the boot volume.

Correct Answer: BD

These log files must reside on the boot volume for a minimum of 15 days so you have to increase the boot Volume

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**QUESTION 11**

Your company has decided to move a few applications to Oracle Cloud and you have been asked to design it for both High Availability (HA) and Disaster Recovery (DR). Which two should you consider while designing your Oracle Cloud Infrastructure architecture? (Choose two.)

A. Region

B. Instance Shape

C. Compartments

D. Availability Domain

Correct Answer: AD

References: https://blogs.oracle.com/cloud-infrastructure/migration-and-disaster-recovery-in-the-oracle-cloud-withrackware

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**QUESTION 12**

A company currently uses Microsoft Active Directory as its identity provider. The company recently subscribed to Oracle Cloud Infrastructure (OCI) to leverage the cloud platform for test and development. As the administrator, you configured the OCI tenancy to be federated with Microsoft Active Directory. Now you need to give access to developers so that they can start creating resources in their OCI accounts. Which step will you perform to make sure you are not duplicating user creation inside of OCI tenancy?

A. Create a group for developers on OCI and map the group to a similar group in Microsoft Active Directory during the federation process.

B. Create a new user account in OCI for each user, and then create policies to provide access to developers.

C. Create a group for developers on OCI, export all the developers from Microsoft Active Directory, and then import them into the Identity and Access Management (IAM) group.

D. Create a single user account in OCI, and then create policies to provide access to developers to this single account.

Correct Answer: A

When working with your IdP, your administrator defines groups and assigns each user to one or more groups according to the type of access the user needs. Oracle Cloud Infrastructure also uses the concept of groups (in conjunction with IAM policies) to define the type of access a user has. As part of setting up the relationship with the IdP, your administrator can map each IdP group to a similarly defined IAM group, so that your company can re-use the IdP group definitions when authorizing user access to Oracle Cloud Infrastructure resources.

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**QUESTION 13**

You need to set up instance principals so that an application running on an instance can call Oracle Cloud Infrastructure (OCI) public services, without the need to configure user credentials. A developer in your team has already configured the application built using an OCI SDK to authenticate using the instance principals provider. Which is NOT a necessary step to complete this set up?

A. Create a dynamic group with matching rules to specify which instances you want to allow to make API calls against services.

B. Generate Auth Tokens to enable instances in the dynamic group to authenticate with APIs.

C. Create a policy granting permissions to the dynamic group to access services in your compartment or tenancy.

D. Deploy the application and the SDK to all the instances that belong to the dynamic group.

Correct Answer: D

Reference: https://blogs.oracle.com/cloud-infrastructure/announcing-instance-principals-for-identity-andaccessmanagement

**QUESTION 14**

You are designing a shared storage solution for your company in Oracle Cloud Infrastructure. The proposed storage solution should allow users to create a hierarchical structure (similar to the directory structure in Linux or Windows based systems). The solution should provide data encryption and a large amount of storage space. Which would be the best implementation strategy?

A. Use block storage. Create and attach a large block storage volume to one compute instance. Assign a public IP to the compute instance. Store data on the block storage and access it by connecting to the compute instance.

B. Use object storage. Create a single namespace and multiple buckets to create the hierarchical directory structure.

C. Use object storage. Create multiple namespaces with one bucket each. Make the buckets publicly accessible.

D. Use file storage service. Create a file system and a mount target. Share the private IP of the mount target.

Correct Answer: D

**QUESTION 15**

Which statement is true about interconnecting Virtual Cloud Network (VCN)?

A. VCNs support transitive peering.

B. Peering VCNs should not have overlapping CIDR blocks.

C. VCNs must be in the same tenancy to be peered.

D. The only way to interconnect VCNs is through peering.

Correct Answer: B

Reference: https://docs.cloud.oracle.com/en-us/iaas/Content/Network/Tasks/remoteVCNpeering.htm (note)

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