



# 1Z0-997-22<sup>Q&As</sup>

Oracle Cloud Infrastructure 2022 Architect Professional

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### QUESTION 1

You want to automate the processing of new image files to generate thumbnails. The expected rate is 10 new files every hour. Which of the following is the most cost effective option to meet this requirement in Oracle Cloud Infrastructure (OCI)?

- A. Upload all files to an Oracle Streaming Service (OSS) stream. Setup a cron job to invoke a function in Oracle Functions to fetch data from the stream. Invoke another function to process the image files and generate thumbnails. Store thumbnails in another OSS stream.
- B. Upload files to an OCI Object storage bucket. Every time a file is uploaded, an event is emitted. Write a rule to filter these events with an action to trigger a function in Oracle Functions. The function processes the image in the file and stores the thumbnails back in an Object storage bucket.
- C. Build a web application to ingest the files and save them to a NoSQL Database. Configure OCI Events service to trigger a notification using Oracle Notification Service (ONS). ONS invokes a custom application to process the image files to generate thumbnails. Store thumbnails in a NoSQL Database table.
- D. Upload files to an OCI Object storage bucket. Every time a file is uploaded, trigger an event with an action to provision a compute instance with a cloud-init script to access the file, process it and store it back in an Object storage bucket.

Terminate the instance using Autoscaling policy after the processing is finished.

Correct Answer: B

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### QUESTION 2

An organization has its IT infrastructure in a hybrid setup with an on-premises environment and an Oracle Cloud Infrastructure (OCI) Virtual Cloud Network (VCN) in the us-phoenix-1 region. The on-premise applications communicate with compute instances inside the VCN over a hardware VPN connection. They are looking to implement an Intrusion detected and Prevention (IDS/IPS) system for their OCI environment. This platform should have the ability to scale to thousands of compute instances running inside the VCN. How should they architect their solution on OCI to achieve this goal?

- A. Set up an OCI Private Load Balance! and configure IDS/IPS related health checks at TCP and/or HTTP level to inspect traffic
- B. Configure each host with an agent that collects all network traffic and sends that traffic to the IDS/IPS platform to inspection
- C. There is no need to implement an IPS/IDS system as traffic coming over IPSec VPN tunnels is already encrypted
- D. Configure autoscaling on a compute Instance pool and set vNIC to promiscuous mode to capture traffic across the vcn and send it to IDS/IPS platform for inspection.

Correct Answer: B

In transit routing through a private IP in the VCN you set up an instance in the VCN to act as a firewall or intrusion detection system to filter or inspect the traffic between the on-premises network and Oracle Services Network.

The Networking service lets you implement network security functions such as intrusion detection,



application-level firewalls In fact, the IDS model can be host-based IDS (HIDS) or network-based IDS (NIDS). HIDS is installed at a host to periodically monitor specific system logs for patterns of intrusions. In contrast, an NIDS sniffs the traffic to analyze suspicious behaviors. A signature-based NIDS (SNIDS) examines the traffic for patterns of known intrusions. SNIDS can quickly and reliably diagnose the attacking techniques and security holes without generating an overwhelming number of false alarms because SNIDS relies on known signatures.

However, anomaly-based NIDS (ANIDS) detects unusual behaviors based on statistical methods. ANIDS could detect symptoms of attacks without specific knowledge of details. However, if the training data of the normal traffic are inadequate, ANIDS may generate a large number of false alarms.

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### QUESTION 3

A2Z corporation is into e-commerce business and is the choice of millions for the best offers it launches. It has a rich set of intelligent applications that runs 24x7 and are very critical to their business.

Continuous infrastructure management and maintenance, rise in customer base and workloads, have made them to think of migrating all workloads to cloud. They have selected Oracle Cloud Infrastructure for migrating both their application

and database workload.

You, as an oracle pre-sales consultant has been asked to provide complete migration strategy for their source database workloads which includes oracle and MSSQL. They are particularly concerned about their oracle databases which

cannot afford any downtime. They would be establishing fast connect from their data center to oracle data center to avoid any network impact. Their oracle database is around 90TB and MSSQL is around 10TB.

How would you propose the safe migration of customer database while meeting their availability requirement?

- A. Propose the use of zero-downtime migration tool for oracle database and use combination of SQL Developer and Oracle SQL Loader for MSSQL migration
- B. Propose the use of Oracle datapump for oracle databases and SQL Developer for MSSQL database
- C. Propose the use of zero-downtime migration tool for oracle database and use combination of SQL Developer and Oracle GoldenGate for MSSQL migration
- D. Propose the use of Oracle GoldenGate to perform zero downtime migration for both MSSQL and Oracle source databases

Correct Answer: C

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### QUESTION 4

A large financial company has a web application hosted in their on-premises data center. They are migrating their application to Oracle Cloud Infrastructure (OCI) and require no downtime while the migration is on-going. In order to achieve this, they have decided to divert only 30% of the application works fine, they divert all traffic to OCI.

As a solution architect working with this customer, which suggestion should you provide them?



- A. Use OCI Traffic management with failover steering policy and distribute the traffic between OC1 and on premises infrastructure.
- B. Use OCI Traffic management with Load Balancing steering policy and distribute the traffic between OCI and on premises infrastructure.
- C. Use an OCI load Balancer and distribute the traffic between OCI and on premises infrastructure.
- D. Use VPN connectivity between on premises Infrastructure and OCI, and create routing tables to distribute the traffic between them.

Correct Answer: B

Traffic Management Steering Policies can account for health of answers to provide failover capabilities, provide the ability to load balance traffic across multiple resources, and account for the location where the query was initiated to provide a simple, flexible and powerful mechanism to efficiently steer DNS traffic.

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### QUESTION 5

An online Stock trading application is deployed to multiple Availability Domains in the us phoenix-1 region. Considering the high volume of transactions that the trading application handles, the company has hired you to ensure that the data stored by the application available, and disaster resilient. In the event of failure, the Recovery time Objective (RTO) must be less than 2 hours to meet regulator requirements.

Which Disaster Recovery strategy should be used to achieve the RTO requirement In the event of system failure?

- A. Configure hourly block volumes backups through the Storage Gateway service.
- B. Configure hourly block volumes backups using the Oracle Cloud Infrastructure (OCI) Command Line Interface (CLI)
- C. Store hourly block volumes backup to NVMe device under a compute instance and generate a custom Image every 5 minutes.
- D. Configure your application to use synchronous master slave data replication between Availability Domains.

Correct Answer: B

You can use the CLI, REST APIs, or the SDKs to automate, script, and manage volume backups and their lifecycle. Planning Your Backup The primary use of backups is to support business continuity, disaster recovery, and long-term archiving requirements. When determining a backup schedule, your backup plan and goals should consider the following: Frequency: How often you want to back up your data. Recovery time: How long you can wait for a backup to be restored and accessible to the applications that use it. The time for a backup to complete varies on several factors, but it will generally take a few minutes or longer, depending on the size of the data being backed up and the amount of data that has changed since your last backup. Number of stored backups: How many backups you need to keep available and the deletion schedule for those you no longer need. You can only create one backup at a time, so if a backup is underway, it will need to complete before you can create another one. For details about the number of backups you can store

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