

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

Oracle Cloud Infrastructure 2019 Architect Professional

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### QUESTION 1

An online registration system is currently hosted on one large Oracle Cloud Infrastructure (OCI) Bare metal compute Instance with attached block volume to store of the users' data. The registration system accepts the information from the user, including documents and photos then performs automated verification and processing to check if the user is eligible for registration. The registration system becomes unavailable at times when there is a surge of users using the system the existing architecture needs improvement as it takes a long time for the system to complete the processing and the attached block volumes are not large enough to use data being uploaded by the users. Which is the most effective option to achieve a highly scalable solution?

A. Attach more Block volumes as the data volume increase, use Oracle Notification Service (ONS) to distribute tasks to a pool of compute instances working in parallel, and Auto Scaling to dynamically size the pool of instances depending on the number of notifications received from the Notification Service. Use Resource Manager stacks to replicate your architecture to another region.

B. Change your architecture to use an OCI Object Storage standard tier bucket, replace the single bare metal instance with a Oracle Streaming Service (OSS) to ingest the incoming requests and distribute

the tasks to a group of compute instances with Auto Scaling

C. Upgrade your architecture to use a pool of Bare metal servers and configure them to use their local SSDs for faster data access Set up Oracle Streaming Service (OSS) to distribute the tasks to the pool of Bare metal instances with Auto Scaling to dynamically increase or decrease the pool of compute instances depending on the length of the Streaming queue.

D. Upgrade your architecture to use more Block volumes as the data volume increases. Replace the single bare metal instance with a group of compute instances with Auto Scaling to dynamically increase or decrease the compute instance pools depending on the traffic.

Correct Answer: D

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### QUESTION 2

A retailer bank is currently hosting their mission critical customer application on-premises. The application has a standard 3 tier architecture - 4 application servers process the incoming traffic and store application data in an Oracle Exadata Database Server. The bank has recently has service disruption to other inter applications to they are looking to avoid this issue for their mission critical Customer Application. Which Oracle Cloud Infrastructure services should you recommend as part of the DR solution?

A. OCI DNS Service, Public Load Balancer, Oracle Database Cloud Backup Service, Object Storage Service, Oracle Bare Metal Cloud Service, Oracle Bare Metal Cloud Service with GoldenGate, OCI Container Engines for Kubernetes, Oracle IPSec VPN

B. OCI Traffic Management, Private Load Balancer, Compute instances distributed across multiple Availability Domains and/or Fault Domains, Exadata Cloud Service with Data Guard, Oracle FastConnect, Object Storage, Database Cloud backup module

C. OCI Traffic Management, Public Load Balancer, Compute instances distributed across multiple

D. OCI DNS Service, Load Balancer as a service using Public Load Balancer distributing traffic Compute Instance across multiple regions, Oracle RAC Database using Virtual Machines, Remote Peering connecting two VCNs in different regions. Exadata Cloud Service with GoldenGate FastConnect, Object Storage, Database Cloud backup module.

Correct Answer: C

OCI 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. Public Load Balancer Accepts traffic from the internet using a public IP address that serves as the entry point for incoming traffic. Load balancing service creates a primary load balancer and a standby load balancer, each in a different availability domain

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### QUESTION 3

You are working as a security consultant with a global insurance organization which is using Microsoft Azure Active Directory (AD) as identity provided to manager user login/passwords. When a user logs in to Oracle Cloud infrastructure (OCI) console, it should get authenticated by Azure AD. Which set of steps are required to configure at OCI side in order to get it enabled

- A. Setup Azure AD as an Enterprise Application, map Azure AD users and groups and policies to OCI groups and users
- B. Setup Azure AD as an Identity Provider, Import users and groups from Azure AD to OCI, set up IAM policies to govern access to Azure AD groups
- C. Setup Azure AD as an Enterprise Application, configure OCI for single sign-on, map Azure AD groups to OCI groups, set up the IAM policies to govern access to Azure AD groups
- D. Setup Azure AD as an Identity Provider, map Azure AD groups to OCI groups, set up the IAM policies to govern access to Azure AD groups

Correct Answer: D

Federating with Microsoft Azure Active Directory To federate with Azure AD, you set up Oracle Cloud Infrastructure as a basic SAML single sign-on application in Azure AD. To set up this application, you perform some steps in the Oracle Cloud Infrastructure Console and some steps in Azure AD. Following is the general process an administrator goes through to set up the federation. Details for In Oracle Cloud Infrastructure, download the federation metadata document. In Azure AD, set up Oracle Cloud Infrastructure Console as an enterprise application. In Azure AD, configure the Oracle Cloud

Infrastructure enterprise application for single sign-on.

In Azure AD, set up the user attributes and claims.

In Azure AD, download the Azure AD SAML metadata document.

In Azure AD, assign user groups to the application.

In Oracle Cloud Infrastructure, set up Azure AD as an identity provider. In Oracle Cloud Infrastructure, map your Azure AD groups to Oracle Cloud Infrastructure groups. In Oracle Cloud Infrastructure, set up the IAM policies to govern access for your Azure AD groups. Share the Oracle Cloud Infrastructure sign-in URL with your user

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### QUESTION 4

You are working as a solution architect with a global automotive provider who is looking to create a multi-cloud solution. They want to run their application tier in Microsoft Azure while utilizing the Oracle DB Systems in the Oracle Cloud Infrastructure (OCI). What is the most fault tolerant and secure solution for this customer?

- A. Create an Oracle database in OCI Virtual Cloud Network (VCN) and connect to the application tier running in Microsoft Azure over the Internet.
- B. Create a FastConnect virtual circuit and choose Microsoft Azure from the list of providers available to setup Network connectivity between application tier running in Microsoft Azure Virtual Network and Oracle Databases running in OCI Virtual Cloud (VCN)
- C. Use OCI Virtual Cloud Network remote peering connection to create connectivity among application tier running in Microsoft Azure Virtual Network and Oracle Databases running in OCI Virtual Cloud Network (VCN).
- D. Create a VPN connection between the application tier, running in Azure Virtual Network and Oracle Databases running in OCI Virtual Cloud Network (VCN).

Correct Answer: C

Oracle and Microsoft have created a cross-cloud connection between Oracle Cloud Infrastructure and Microsoft Azure in certain regions. This connection lets you set up cross-cloud workloads without the traffic between the clouds going over the internet. You can connect your VNet and VCN so that traffic that uses private IP addresses goes over the cross-cloud connection. For example, the following diagram shows a VNet that is connected to a VCN. Resources in the VNet are running a .NET application that access an Oracle database that runs on Database service resources in the VCN. The traffic between the application and database uses a logical circuit that runs on the cross-cloud connection between Azure and Oracle Cloud Infrastructure. The two virtual networks must belong to the same company and not have overlapping CIDRs. The connection requires you to create an Azure ExpressRoute circuit and an Oracle Cloud Infrastructure FastConnect virtual circuit.

## QUESTION 5

A FinTech startup is developing a new blockchain based application to provide Smart Contracts using micro-services architecture. The development team is planning to deploy the application using containers and looking for a reliable way to build, deploy and manage their cloud-native application. Additionally, they need an easy way to store, share and manage their application artifacts. Which option should you recommend for this application?

- A. Install and manage a Kubernetes cluster on OCI Compute Instances and use OCI Resource Manager for management of application artifacts
- B. Use OCI Resource Manager to manage cloud-native application and make the application artifacts available using OCI Functions
- C. Use Oracle Container Engine for Kubernetes (OKE) to manage cloud-native applications and OCI Registry for application artifacts
- D. Use Oracle Container Engine for Kubernetes (OKE) to manage the deployment environment and OCI Functions for application artifacts

Correct Answer: C

Oracle Cloud Infrastructure Container Engine for Kubernetes is a fully-managed, scalable, and highly available service that you can use to deploy your containerized applications to the cloud. Use Container Engine for Kubernetes (sometimes abbreviated to just OKE) when your development team wants to reliably build, deploy, and manage cloud-native applications. You specify the compute resources that your applications require, and Container Engine for Kubernetes provisions them on Oracle Cloud Infrastructure in an existing OCI tenancy. Oracle Cloud Infrastructure

Registry is an Oracle-managed registry that enables you to simplify your development to production workflow. Oracle Cloud Infrastructure Registry makes it easy for you as a developer to store, share, and manage development artifacts like Docker images. And the highly available and scalable architecture of Oracle Cloud Infrastructure ensures you can reliably deploy your applications. So you don't have to worry about operational issues, or scaling the underlying infrastructure.

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