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Architect Professional

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QUESTION 1

You are responsible for a web application deployed on a set of compute VM instances in Oracle Cloud Infrastructure (OCI). Your application stores data on block volumes.

In production, the business requirement is a Recovery Point Objective (RPO) of two hours and that data should be recoverable in case of a regional failure.

How would you meet the RPO requirement in the event of a failure?

- A. Create a user-defined storage backup policy and attach a schedule of type "Hourly" and automatically copy to another region. Apply this policy to a volume group containing the block volumes.
- B. Store hourly block volume backups to an NVMe device attached to a compute instance in a different Availability Domain (AD).
- C. Configure your application to use synchronous primary-secondary data replication between ADs.
- D. Set up cross-region volume replication to replicate the block volumes to a different OCI region.

Correct Answer: C

QUESTION 2

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

QUESTION 3

An online gaming application is deployed to multiple Availability Domains in the Oracle Cloud Infrastructure (OCI) us-ashburn-1 region. Considering the high volume of traffic that the gaming application handles, the company has hired you to ensure that the data stored by the application is scalable, highly available, and disaster resilient. In the event of failure, the Recovery Time Objective (RTO) and Recovery Point Objective (RPO) must be less than 2 hours.

Which Disaster Recovery strategy should be used to achieve the RTO and RPO requirements in the event of a system failure?

- A. Configure hourly block volumes backups using the OCI Command Line Interface (CLI).
- B. Create a user defined backup policy with a schedule of generating daily backups for block volumes.
- C. Configure hourly block volumes backups through the OCI Storage Gateway service.
- D. Create a user defined backup policy with a schedule of generating hourly backups for block volumes.

Correct Answer: A

QUESTION 4

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 more of 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 uk-london 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 5

You are helping a customer troubleshoot a problem. The customer has several Oracle Linux servers in a private subnet within a Virtual Cloud Network (VCN). The servers are configured to periodically communicate to the Internet to get security patches for applications installed on them.

The servers are unable to reach the Internet. An Internet Gateway has been deployed in the public subnet in the VCN and the appropriate routes are configured in the Route Table associated with the public subnet.

Based on cost considerations, which option will fix this issue?

- A. Create a Public Load Balancer in front of the servers and add the servers to the Backend Set of the Public Load Balancer.
- B. Create another Internet Gateway and configure it as route target for the private subnet.
- C. Implement a NAT instance in the public subnet of the VCN and configure the NAT instance as the route target for the private subnet.
- D. Create a NAT gateway in the VCN and configure the NAT gateway as the route target for the private subnet.

Correct Answer: D

QUESTION 6

A retail company runs their online shopping platform entirely on Oracle cloud Infrastructure (OCI). This is a 3-tier web application that includes a Mbps Load Balancer, Virtual Machine Instances for web and an Oracle DB Systems Virtual Machine. Due to unprecedented growth, they noticed an increase in the incoming traffic to their website and all users start getting 503 (Service Unavailable) errors.

What is the potential problem in this scenario?

- A. The Load Balancer health check status indicates critical situation for half of the backend web servers
- B. All the web servers are too busy and not able to answer any request from users.
- C. The Database is down hence users can not access the web site
- D. The Traffic Management Policy is not set to load balancer the traffic to the web servers.
- E. You did not configure a Service Gateway to allow connection between web servers and load balancer

Correct Answer: B

A 503 Service Unavailable Error is an HTTP response status code indicating that a server is temporarily unable to

handle the request. This may be due to the server being overloaded or down for maintenance.

QUESTION 7

A customer has a Virtual Machine instance running in their Oracle Cloud Infrastructure tenancy. They realized that they wrongly picked a smaller shape for their compute instance. They are reaching out to you to help them fix the issue. Which of the below options is best recommended to suggest to the customer?

- A. Delete the running instance and spin up a new instance with the desired shape.
- B. Change the shape of instance without reboot, but stop all the applications running on instance beforehand to prevent data corruption.
- C. Change the shape of the virtual machine instance using the Change Shape feature available in the console.
- D. OCI doesn't allow such an operation.

Correct Answer: C

You can change the shape of a virtual machine (VM) instance without having to rebuild your instances or redeploy your applications. This lets you scale up your Compute resources for increased performance, or scale down to reduce cost. When you change the shape of an instance, you select a different processor, number of cores, amount of memory, network bandwidth, and maximum number of VNICs for the instance. The instance's public and private IP addresses, volume attachments, and VNIC attachments remain the same.

QUESTION 8

You are part of a project team working in the development environment created in Oracle Cloud Infrastructure (OCI). You realize that the CIDR block specified for one of the subnets in a Virtual Cloud Network (VCN) is not correct and want to delete the subnet. While deleting you get an error indicating that there are still resources that you must delete first. The error includes the OCID of the VNIC that is in the subnet.

Which of the following action you will take to troubleshoot this issue?

- A. Use OCI CLI to call "network vnic" and "compute vnic-attachment" operations to find out the parent resource of the VNIC.
- B. Use OCI CLI to delete the VNIC first and then delete the subnet.
- C. Use OCI CLI to delete the subnet using -force option.
- D. Copy and paste OCID of the VNIC in the search box of the OCI Console to find out the parent resource of the VNIC.

Correct Answer: A

QUESTION 9

You are building a demo for a customer that showcases Oracle Cloud Infrastructure (OCI) Events service and Oracle Functions. You plan to create an event every time an image is uploaded to an OCI Object Storage bucket. You have also created a function that is listening to the event and processes the image for face recognition.

Choose the two actions from below that are NOT required to run the demo successfully.

- A. You must specify an action type while creating an Event service and specify the function you want to trigger.
- B. Creating an event rule is not permitted for OCI Object storage.
- C. The function must be deployed only to Oracle Kubernetes Engine (OKE).
- D. You have to enable Object Storage buckets to emit events for state changes.
- E. You must deploy the function that does facial recognition for the demo to work.

Correct Answer: BC

QUESTION 10

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 each step are given in the next section. 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

QUESTION 11

You are working with a customer who needs to attach an Oracle Cloud Infrastructure (OCI) block volume to a VM instance with read/write access type. The customer wants to know if the number of IOPS and throughput performance differs between the following two choices:

Option A: attach a single 1 TB block volume to the VM instance
Option B: attach two separate 500 GB block volumes in a RAID 0 array configuration to the VM instance

You can assume that the customer is using iSCSI attachment type to attach the volumes to the instance. In addition, you can assume 1 MB block size for throughput and 4 KB block size for IOPS consideration.

How should you respond to the customer?

- A. Option B provides higher level of throughput, but lower level of IOPS performance.
- B. Both options provide the same number of IOPS and throughput performance.
- C. Option A provides better IOPS, but lower throughput performance.
- D. Option B provides better IOPS and throughput performance.

Correct Answer: B

QUESTION 12

A company is running High Performance Computing workloads on Oracle Cloud Infrastructure and are using OCI bare metal compute shape. They have decided to create a custom image of the bare metal instance's boot disk and use it to launch other instances.

Which of the following is a NOT a true statement?

- A. Before you create a custom image of an instance, you must disconnect all iSCSI attachments and remove all iscsid node configurations from the instance.
- B. Editing custom Windows images is not supported due to hardware differences between shapes.
- C. Custom images do not include the data from any attached block volumes.
- D. You can create additional custom images of an instance while the instance is engaged in the image creation process.

Correct Answer: D