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Oracle Cloud Infrastructure 2022 Architect Professional

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QUESTION 1

You are tasked with building a highly available, fault tolerant web application for your current employer. The security team is concerned about an increase in malicious web- based attacks across the internet and asked what you can do to add a higher level of security to the website.

How should you architect the solution on Oracle Cloud Infrastructure (OCI) to meet all requirements defined by your organization? (Choose the best answer.)

A. Deploy at least 3 web application servers, each in a different fault domain, using a regional private subnet. Place a public load balancer in a regional public subnet and create a backend set for all of the web application servers. Deploy a Web Application Firewall (WAF) and configure the load balancer public IP address as the origin.

B. Deploy at least 3 web application servers, each in a different fault domain, using a regional private subnet. Place a public load balancer in a regional public subnet and create a backend set for all of the web application servers. Create a Geolocation steering policy in Traffic Management and add an answer pool that directs to the public IP address of the load balancer. Configure a global catch-all rule to use this answer pool.

C. Deploy at least 3 web application servers, each in a different fault domain, using a regional public subnet. Ensure that each web application server is assigned a public IP address. Deploy a Web Application Firewall (WAF) and configure one Origin for each public IP address.

D. Deploy at least 3 web application servers, each in a different fault domain, using a regional public subnet. Use the OCI Traffic Management service to create a load balancing policy that will resolve DNS evenly between all web servers.

Correct Answer: A

QUESTION 2

An E-Commerce company wants to deploy their web application for Oracle Database on Oracle Cloud Infrastructure (OCIJ DB Systems. In compliance with the business continuity program of the business, they need to provide a Recovery Point Objective (RPO) of 1 hour and a Recovery Time Objective (RTO) of 5 minutes. The web application should be highly available within the region and meet the RTO and RPO requirements in case of a region outage.

Which approach is the most suitable and cost effective configuration for this scenario?

A. Deploy a 1 node VM Oracle database in one region and replicate the database to a 1 node VM Oracle database in another region using a manual setup and configuration of Oracle Data Guard.

B. Deploy a 2 node Virtual Machine (VM) Oracle RAC database in one region and replicate the database to a 2 node VM Oracle RAC database in another region using a manual setup and configuration of Oracle Data Guard.

C. Deploy an Autonomous Transaction Processing (Serverless) database in one region and replicate it to an Autonomous Transaction Processing (Serverless) database in another region using Oracle GoldenGate.

D. Deploy a 1 node VM Oracle database in one region. Manually Configure a Recovery Manager (RMAN) database backup schedule to take hourly database backups. Asynchronously copy the database backups to object storage in another OCI region. If the primary OCI region is unavailable, launch a new 1 node VM Database in the other OCI region and restore the production database from the backup.

Correct Answer: B

QUESTION 3

You work for a retail company and they developed a Microservices based shopping application that needs to access Oracle Autonomous Database from the application. As an Architect, you have been tasked to treat all of the application

components as Kubernetes native objects, such as the microservices, Oracle

Autonomous database, Kubernetes services, etc.

What should you do to make sure that you can use Kubernetes constructs to manage the life cycle of the application components, including Oracle Autonomous Database? (Choose the best answer.)

A. Create an Oracle Cloud Infrastructure (OCI) Service Gateway and connect to the Oracle Autonomous Database using the private IP address from the microservice.

B. Provision an Oracle Autonomous Database and then use OCI Service Broker to access the database as a native component to your Kubernetes cluster.

C. Create a service from the Kubernetes cluster and point to the Oracle Autonomous Database using its FQDN.

D. Install and secure the OCI Service Broker for Kubernetes. Then provision and bind to the required Oracle Cloud Infrastructure services.

Correct Answer: D

OCI Service Broker for Kubernetes is an implementation of the Open Service Broker API. OCI Service Broker for Kubernetes is specifically for interacting with Oracle Cloud Infrastructure services from Kubernetes clusters. It includes three service broker adapters to bind to the following Oracle Cloud Infrastructure services: Object Storage Autonomous Transaction Processing Autonomous Data Warehouse

QUESTION 4

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 5

You have an application running in Microsoft Azure and want to use Oracle Autonomous Data warehouse (ADW) instance for running business analytics.

How can you build a secure solution for such a use-case?

A. Connect the Oracle ADW in your VCN to the Microsoft Azure VNet over the internet.

B. Create a software VPN connection between Oracle Cloud Infrastructure (OCI) Virtual Cloud Network (VCN) and Microsoft Azure Virtual Network (VNet) and connect the application with Oracle ADW instance.

C. Setup an interconnect between OCI and Microsoft Azure using FastConnect and ExpressRoute. Use a Service Gateway in OCI Virtual Cloud Network to provide connectivity to the Oracle ADW instance for the application in Microsoft Azure VNet.

D. Create a software Remote Peering Connection between Oracle Cloud Infrastructure (OCI) Virtual Cloud Network (VCN) and Microsoft Azure Virtual Network (VNet) and connect the application with Oracle ADW instance.

Correct Answer: C