1Z0-997-22 Q&As

Oracle Cloud Infrastructure 2022 Architect Professional

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QUESTION 1

A company has an urgent requirement to migrate 100 TB of data to Oracle Cloud Infrastructure (OCI) in two weeks. They have a 100 Mbps Internet line but the connection is intermittent due to problems with their internet provider. In this scenario, what is the most time-efficient mechanism to migrate data to OCI?

A. Set up an IPSec VPN tunnel between your data center and OCI. Upload all data to OCI using OCI Storage Gateway.

B. Set up an OCI Storage Gateway to connect your data center to your Virtual Cloud Network and upload data.

C. Upload data using OCI Object Storage multipart upload capability.

D. Set up hybrid network by launching a 1 Gbps FastConnect virtual circuit between your data center and OCI. Use OCI Object Storage multipart upload capability to automate the migration of your data to OCI.

E. Use OCI File Storage Service to copy data from your data center to OCI.

Correct Answer: D

QUESTION 2

An automobile company wants to deploy their CRM application for Oracle Database on Oracle Cloud Infrastructure (OC1) DB Systems for one of major clients. In compliance with the Business Continuity Program of the client, they need to provide a Recovery Point objective (RPO) of 24 hours and a Recovery time objective (RTO) of 24 hours and Recovery Time Objective (RTO) of 1 hour.

The CRM application should be available oven in me event that an entire on Region is down.

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 a 1 node VM Oracle database in one region. Manual 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 new VM Database in the other OCI region restore the production database from the backup.

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

Correct Answer: A

You can configure the Autonomous Database instance as a target database for Oracle GoldenGate. But You can\\'t set up Oracle Autonomous Database as a source database for Oracle GoldenGate. Recovery Point objective (RPO) of 24 hours and Recovery Time Objective (RTO) of 1 hour

-To provision new VM and restore the production database from the backup on object storage, will exceed the RTO 1 hour

- You can create the standby DB system in a different availability domain from the primary DB system for availability and disaster recovery purposes. With Data Guard and switchover/failover can meet RTO 1 hour.

-RAC Database is not required in this solution. Standalone will be most suitable and cost effective

QUESTION 3

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 troubleshooting action can you perform to determine the cause of the backup failure?

A. Ensure that the database is not active and running while the backup is in progress.

B. Ensure that your database host can connect to OCI Object Storage.

C. Ensure that the dcsagent program is not restarted in case of a stop/waiting status.

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

Correct Answer: B

QUESTION 4

You are the security architect for a medium sized e-commerce company that runs all of their applications in Oracle Cloud Infrastructure (OCI). Currently, there are 14 unique applications, each deployed and secured in their own compartment. The Operations team has procured a new monitoring tool that will be deployed throughout the OCI ecosystem. Their requirement is to deploy one management node into each compartment.

Currently, the Operations team Identity and Access Management (IAM) group has the following policy: allow group OpsTeam to READ all-resources in tenancy

Once the new monitoring nodes are deployed, the Operations team may need to stop, start, or reboot them occasionally.

What is the most efficient solution to allow the Operations team to fully manage the monitoring nodes, without allowing them to alter other resources across the tenancy?

A. In each of the 14 compartments, create a new policy with the following statement: allow group OpsTeam to manage instance-family in compartment XXX where XXX is the name of the compartment where you are creating the policy.

B. Create a new policy in the root compartment with the following policy statement: allow group OpsTeam to manage instance-family in tenancy where ANY (request.operation ?`UpdateInstance\\', request.operation ?`InstanceAction\\')

C. Tag all the monitoring nodes with the defined tag AllPolicy:AllowAccess:OpsTeam and write the following IAM policy: allow group OpsTeam to manage instance-family in tenancy where target.resource.tag.AllPolicy.AllowAccess ? `OpsTeam\\'

D. Tag all the monitoring nodes with the free-form tag AllowAccess:OpsTeam and write the following IAM policy: allow group OpsTeam to manage instance-family in tenancy where target.resource.tag.AllowAccess = `OpsTeam\\'

Correct Answer: A

QUESTION 5

You have an Oracle database system in a virtual cloud network (VCN) that needs to be accessible on port 1521 from your on-premises network CIDR 172.17.0.0/24.

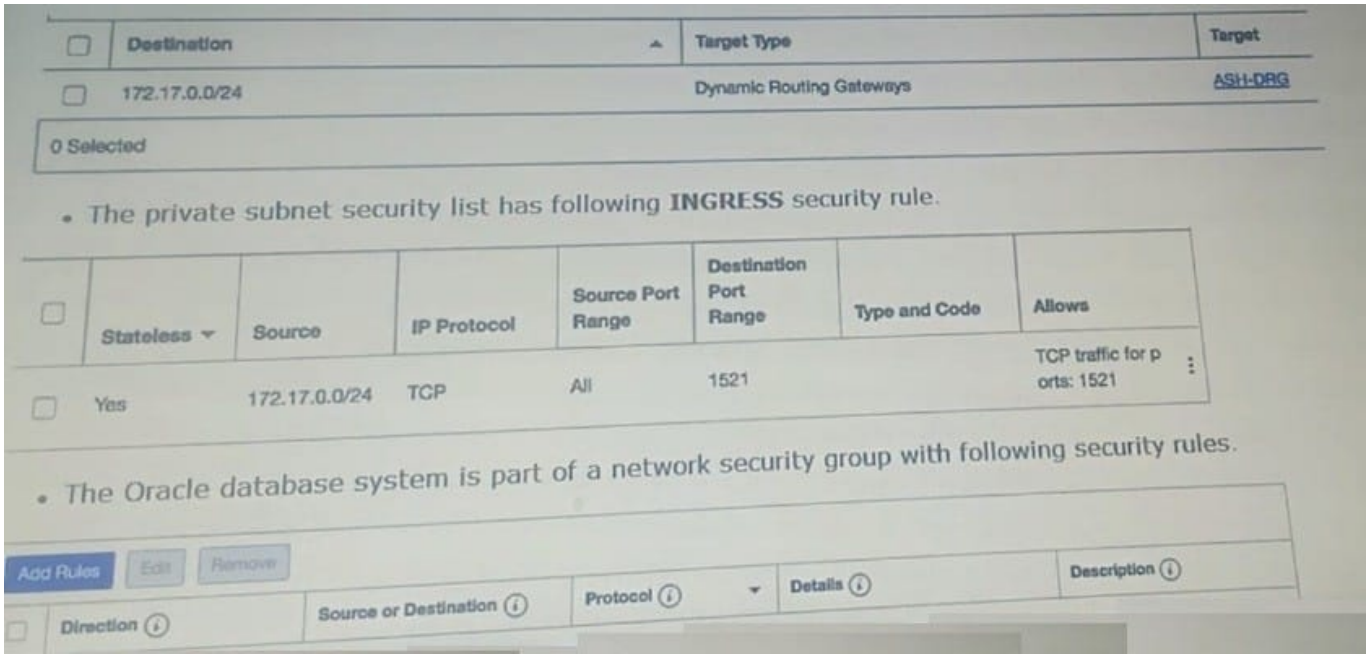
You have the following configuration currently.

Virtual cloud network (VCD) is associated with a Dynamic Routing Gateway (DRG), and DRG has an active IPSec connection with your on-premises data center.

Oracle database system is hosted in a private subnet

The private subnet route table has the following configuration

The private subnet route table has following configuration.



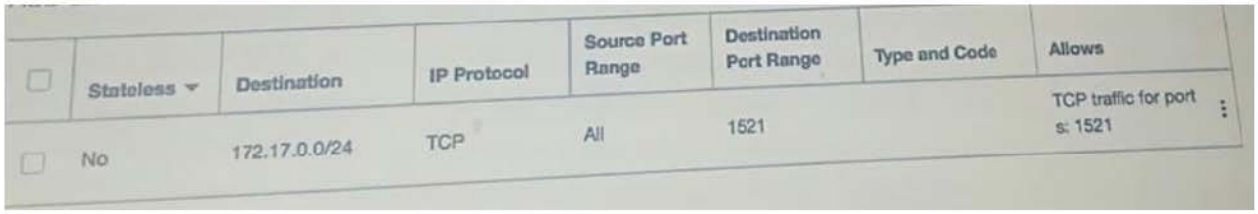
However, you are still unable to connect to the Oracle Database system. Which action will resolve this issue?

A. Add an EGRESS rule in network security group as following.

B. Add a route rule in the private subnet route table as following.

C. Add an EGRESS rule in private subnet scurity list as following.

D. Add an EGRESS rule in private subnet security list as following.



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 6

An OCI Architect is working on a solution consisting of analysis of data from clinical trials of a pharmaceutical company. The data is being stored in OCI Autonomous Data Warehouse (ADW) having 8 CPU Cores and 70 TB of storage. The architect is planning to setup autoscaling to respond to dynamic changes in the workload.

Which of the following needs to be considered while configuring auto scaling? Choose two

A. Enabling auto scaling does not change the concurrency and parallelism settings

B. Auto scaling also scales IO throughput linearly along with CPU

C. The database memory SGA and PGA will not get affected by the changes in the number of CPUs during auto scaling

D. The maximum CPU cores that will be automatically allocated for this database is 16 CPUs

Correct Answer: AB

Auto scaling is enabled by default when you create an Autonomous Database instance or you can use Scale Up/Down on the Oracle Cloud Infrastructure console to enable or disable auto scaling. With auto scaling enabled the database can

use up to three times more CPU and IO resources than specified by the number of OCPUs currently shown in the Scale Up/Down dialog. When auto scaling is enabled, if your workload requires additional CPU and IO resources the database

automatically uses the resources without any manual intervention required.

Enabling auto scaling does not change the concurrency and parallelism settings for the predefined services IO throughput depends on the number of CPUs you provision and scales linearly with the number of CPUs.

QUESTION 7

A retail company has recently adopted a hybrid architecture. They have the following requirements for their end-to-end Connectivity model between their on-premises data center and Oracle Cloud Infrastructure (OC1) region

*

Highly available connection with service level redundancy

*

Dedicated network bandwidth with low latency

Which connectivity setup is the most cost effective solution for this scenario?

A. Setup IPsec VPN as your primary connection, and a FastConnect virtual circuit as a backup connection. Use separate edge devices in your on-premises data canter for each connection from your edge devices, advertise more specific routes IPSec VPN, and specific routes through the backup FastConnect virtual circuit.

B. Setup FastConnect virtual circuit as your primary connection, and a second FastConnect virtual circuit as a backup connection. Use separate edge devices in your FastConnect physical connectivity is redundant Use a single edge device in your on premises data center for each connection From yc device, advertise more specific routes via primary FastConnect virtual circuit, and less specific routes through t backup FastConnect circuit.

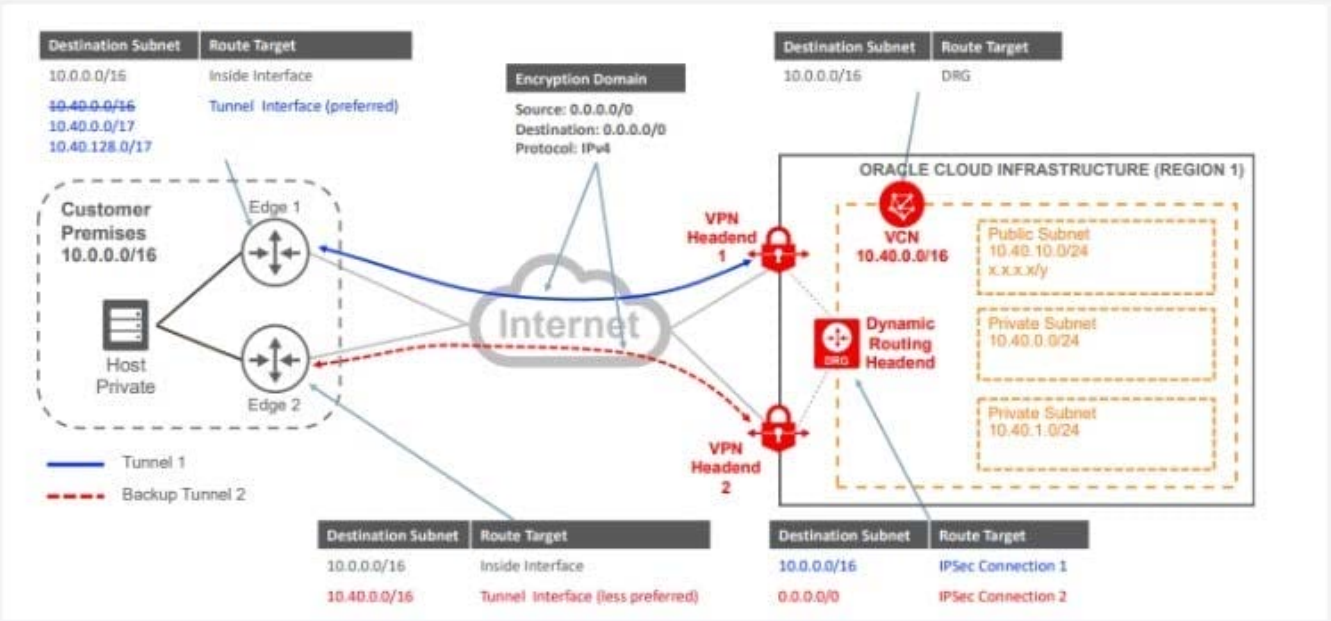
C. Setup FastConnect virtual circuit as your primary connection, and an IPSec VPN as a backup connection. Use separate edge devices in your on-premises data center for each connection. From your edge devices, advertise more specific routes through FastConnect virtual circuit, and more specific routes through the backup IPSec VPN path.

D. Setup IPSec VPN as your primary connection, and a second IPSec VPN as a backup connection. Use separate edge devices in your on p data center for each connection. From your edge devices, advertise more specific routes via primary IPSec VPN. and less specific rod the backup IPSec VPN.

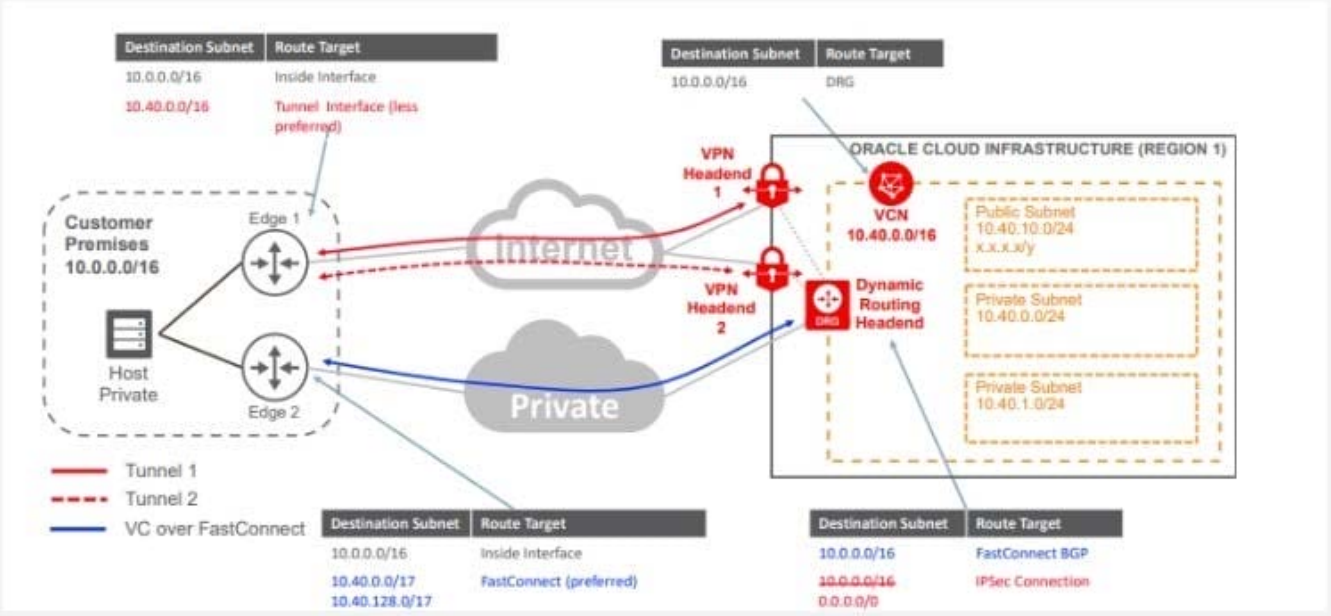
Correct Answer: D

Explanation: there are two main requirements for this Customer First Highly available connection with service level redundancy and that can achieve by

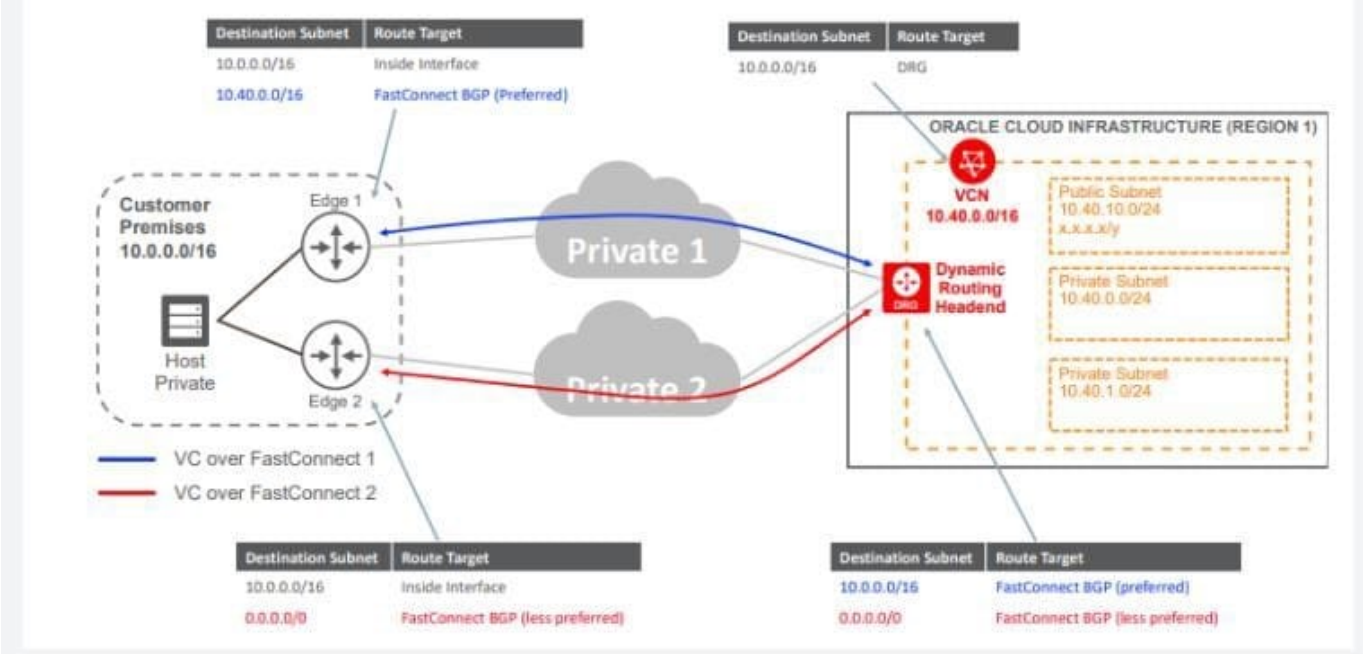
1- VPN Connect with a Redundant Customer Edge Device



2- FastConnect Plus a Single VPN Connect Connection



3- Redundant FastConnect



QUESTION 8

You work for a bank as the lead Oracle Cloud Infrastructure architect. You designed a highly scalable solution for your company\\'s banking application. The architecture includes a load balancer, application servers with autoscaling

configuration based on CPU utilization, and an Autonomous Database with Transaction Processing workload type running in a Virtual Cloud Network (VCN).

During the peak utilization period, the application users complain that the application runs slow.

What are two possible reasons for the application running slow at times? (Choose two.)

A. The VCN does not have a Network Security Group configured to allow traffic from the load balancer to all the application servers in the backend set.

B. Instance pool in autoscaling configuration for the application servers did not scale out due to compartment quota breach of the VM shapes used by the application servers.

C. The load balancer is not configured correctly to send traffic to all the listeners of the application servers in the backend set.

D. Instance pool in autoscaling configuration for the Autonomous Database did not scale out due to misconfigured scaling policy.

E. Instance pool in autoscaling configuration for the application servers did not scale out due to service limit breach of the VM shapes used by the application servers.

Correct Answer: BE

QUESTION 9

Your organization is planning on using Oracle Cloud Infrastructure (OCI) File Storage Service (FSS). You will be deploying multiple compute instance in Oracle Cloud Infrastructure (OCI) and mounting the file system to these compute instances. The file system will hold payment data processed by a Database instance and utilized by compute instances to create a overall inventory report. You need to restrict access to this data for specific compute instances and must be allowed/blocked per compute instance\\'s CIDR block.

Which option can you use to secure access?

A. Use stateless Security List rule to restrict access from known IP addresses only.

B. Create a new VCN security list, choose SOURCE TYPE as Service and SOURCE SERVICE as FSS. Add stateless ingress and egress rules for specific P address and CIDR blocks.

C. Use \\'Export option\\' feature of FSS to restrict access to the mounted file systems.

D. Create and configure OCI Web Application Firewall service with built in DNS based intelligent routing.

Correct Answer: C

NFS export options enable you to create more granular access control than is possible using just security list rules to limit VCN access. You can use NFS export options to specify access levels for IP addresses or CIDR blocks connecting to file systems through exports in a mount target. Access can be restricted so that each client\\'s file system is inaccessible and invisible to the other, providing better security controls in multi-tenant environments. Using NFS export option access controls, you can limit clients\\' ability to connect to the file system and view or write data. For example, if you want to allow clients to consume but not update resources in your file system, you can set access to Read Only. You can also reduce client root access to your file systems and map specified User IDs (UIDs) and Group IDs (GIDs) to an anonymous UID/GID of your choice. For more information about how NFS export options work with other security layers

QUESTION 10

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.

QUESTION 11

You are currently working for a public health care company based in the United Stats. Their existing patient records runs in an on-premises data center and the customer is sending tape backups offsite as part of their recovery planning.

You have developed an alternative archival solution using Oracle Cloud Infrastructure (OCI) that will save the company a significant amount of mom on a yearly basis. The solution involves storing data in an OCI Object Storage bucket After reviewing your solution with the customer global Compliance (GRC) team they have highlighted the following security requirements:

All data less than 1 year old must be accessible within 2 hour. All data must be retained for at least 10 years and be accessible within 48 hours AH data must be encrypted at rest No data may be transmitted across the public Internet

Which two options meet the requirements outlined by the customer GRC team?

A. Provision a FastConnect link to the closest OCI region and configure a private peering virtual circuit.

B. Create an OCI Object Storage Standard tier bucket Configure a lifecycle policy to archive any object that Is older than 365 days

C. Create a VPN connection between your on premises data center and OCI. Create a Virtual Cloud Network (VCN) along with an OCI Service Gateway for OCI Object Storage.

D. Provision a FastConnect link to the closest OCI region and configure a public peering virtual circuit

E. Create an OCI Object Storage Standard tier bucket. Configure a lifecycle policy to delete any object that is older than 7 years

Correct Answer: BD

The Oracle Services Network is a conceptual network in Oracle Cloud Infrastructure that is reserved for Oracle services. These services have public IP addresses that you typically reach over the internet. However, you can access the Oracle

Services Network without the traffic going over the internet. There are different ways, depending on which of your hosts need the access:

Hosts in your on-premises network:

-Private access through a VCN with FastConnect private peering or VPN Connect: The on- premises hosts use private IP addresses and reach the Oracle Services Network by way of the VCN and the VCN\\'s service gateway.

-Public access with FastConnect public peering: The on-premises hosts use public IP addresses. regarding which Fastconnect Public peering: To access public services in Oracle Cloud Infrastructure without using the internet. For example, Object Storage, the Oracle Cloud Infrastructure Console and APIs, or public load balancers in your VCN. Communication across the connection is with IPv4 public IP addresses. Without FastConnect, the traffic destined for public IP addresses would be routed over the internet. With FastConnect, that traffic goes over your private physical connection. so Answer 4 will be the best answer that meets the customer requirement A service gateway lets your virtual cloud network (VCN) privately access specific Oracle services without exposing the data to the public internet. No internet gateway or NAT is required to reach those specific services. The resources in the VCN can be in a private subnet and use only private IP addresses. The traffic from the VCN to the Oracle service travels over the Oracle network fabric and never traverses the internet. Object Lifecycle Management lets you automatically manage the archiving and deletion of objects. By using Object Lifecycle Management to manage your Object Storage and Archive Storage data, you can reduce your storage costs and the amount of time you spend managing data.

QUESTION 12

Which three scenarios are suitable for the Oracle Infrastructure (OCI) Autonomous transaction Processing Server less (ATP-S) deployment?

A. well established, online auction marketplace is running an application where there is database usage 24? but also has peaks of activity that the hard to predict when the peaks happen, the total activities may reach 3 times the normal activity level

B. A small startup is deploying a new application fen eCommerce and it requires database to store customers\\' transactions the team b of what the load will look like since it is a new application.

C. A midsize company is considering migrating its legacy on premises MongoDB database to Oracle Cloud Infrastructure (OCI). The database has significantly higher workloads on weekends than weekdays

D. A developer working on an Internal project needs to use a database during work hours but doesn\\'t need It during nights or weekends. the project budget requires her to keep costs low.

E. A manufacturing company is running Oracle E-Business Suite application on premises. They are looking to move this application to OCI and they want to use a managed database offering for their database tier.

Correct Answer: ABD

MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schema, so the best to be migrated to Oracle NoSQL Database. https://blogs.oracle.com/nosql/migrate-mongodb-data-to-oracle-nosql-database Autonomous transaction Processing Serverless (ATP-S) isn\\'t supported yet for EBS database

QUESTION 13

You developed a microservices based application that runs on Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE). Your security team wants to use SSL termination for this application. What should you do to create a secure SSL termination for this application using fewest steps?

A. Create a self-signed certificate and it\\'s corresponding key. Create a Kubernetes secret using the certificate and the key. Then add these an notations to the Kubernetes service: annotations: service.beta.kubernetes.io/oci-load-balancer-ssl-ports: "443" service.beta.kubernetes.io/oci-load-balancer-security-list-management-mode:"Frontend"

B. Generate a self-signed certificate using Let\\'s Encrypt. Use that certificate on OCI Load Balancer. Create the Kubernetes service usingthis load balancer.

C. Add these annotationsto the Kubernetes service: annotations: service.beta.kubernetes.io/oci-load-balancer-ssl-ports: "443" service.beta.kubernetes.io/oci-load-balancer-ssl-secret-key: ssl-secret-key

D. Create a self-signed certificate and it\\'s corresponding key. Create a Kubernetes secret using then add these annotationsto the Kubernetes service. Service.beta.kubernete.io/oci-load-balancer-ssl-ports: "443" Service.beta.kubernete.io/oci-load-balancer-tls-secret:SSL-CERTIFICATE-SECRET

Correct Answer: D

QUESTION 14

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 toad Balancer, Compute Instances distributed across multiple Availability Domains and/or Vault domains. Exadata Cloud Service with Data Guard, Oracle FastConnect, Object Storage, Database cloud backup module

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

QUESTION 15

You are advising the database administrator responsible for managing non-production environment for Oracle Autonomous Database running on Oracle Cloud Infrastructure. You need to help the database administrator ensure that the non-production environments have a copy of the current data from the production environment in a manner that is most time-efficient.

Which method should you recommend? (Choose the best answer.)

A. Take a full database backup of the production Autonomous database and create the non-production database from it.

B. Create a metadata clone of the production Autonomous Database and create the non- production database from it.

C. Create a full clone of the production Autonomous Database and create the non- production database from it.

D. Take a Data Pump export of the production Autonomous database and import into the non-production database.

Correct Answer: C

Explanation: https://www.oracle.com/database/technologies/datawarehouse-bigdata/adb- faqs.html

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