1Z0-997-22 Q&As

Oracle Cloud Infrastructure 2022 Architect Professional

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QUESTION 1

You are a cloud architect at a financial organization. The development team is tasked with creating a cloud native application to be hosted on Oracle Cloud Infrastructure (OCI). The development team has followed a microservices-based approach and created containerized images of the cloud-native application and pushed them to OCI Registry (OCIR).

How can you deploy a load balanced application to your OCI Container Engine for Kubernetes (OKE) cluster using these images?

A. Create a load balancer using the OCI load balancer service, add the load balancer service IP in the manifest file, add the location of the docker image to the manifest file, and deploy the manifest file.

B. Create a named secret, add the secret to the manifest file, add the location of the docker image to the manifest file, add the service of type LoadBalancer in the manifest file, and deploy the manifest file.

C. Create an auth token, add the auth token to the manifest file, add the location of the docker image to the manifest file, add the service of type LoadBalancer in the manifest file, and deploy the manifest file.

D. Add the location of the docker image to the manifest file, deploy the manifest file. All applications are load-balanced by default in OKE

Correct Answer: A

QUESTION 2

A company has an urgent requirement to migrate 300 TB of data to Oracle Cloud Infrastructure (OCI) In two weeks. Their data center has been recently struck by a massive hurricane and the building has been badly damaged, although still operational. They have a 100 Mbps Internet line but the connection is Intermittent due to the damages caused to the electrical grid.

In this scenario, what is the most effective service to use to migrate the data to OCI given the time constraints?

A. Setup a OCI Storage Gateway to connect your data center and your VCN. Once the connection has been established, upload all data to OCI using OCI Storage Gateway Cloud Sync tool.

B. Setup a hybrid network by launching aIGbpsFastConnect virtual circuit between your data center and OCI. Use OCI Object storage multipart upload tool to automate the migration of your data to OCI.

C. Use multiple OCI Data Transfer Appliances to transfer data to OCI.

D. Upload the data to OCI using OCI Object Storage multipart upload tool.

E. Storage Gateway to connect your data center and your VCN. Once the connection has been established, upload all data to OCI.

Correct Answer: C

Due to the network speed is not good enough and the connection is Intermittent due to the damages caused to the electrical grid Oracle offers offline data transfer solutions that let you migrate data to Oracle Cloud Infrastructure. You have 2 Options of Data Transfer DISK-BASED DATA TRANSFER You send your data as files on encrypted commodity disk to an Oracle transfer site. Operators at the Oracle transfer site upload the files into your designated Object Storage bucket in your tenancy. APPLIANCE-BASED DATA TRANSFER you send your data as files on secure, high-capacity,

Oracle-supplied storage appliances to an Oracle transfer site. Operators at the Oracle transfer site upload the data into your designated Object Storage bucket in your tenancy.

QUESTION 3

Which of the following is NOT a good use case for using the functionality available in the Oracle Cloud Infrastructure (OCI) Events service?

A. Publish all events in a specific compartment to Oracle Streaming service for later analysis.

B. Triggers Function using Oracle Functions when new files are uploaded in an OCI Object Storage bucket.

C. Publish a notification when long lived tasks complete, such as OCI Autonomous Database backup completion.

D. Capture Monitoring Alarms and invoke Autoscaling of compute instances.

E. Trigger a notification when a function completes its execution.

Correct Answer: D

QUESTION 4

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.

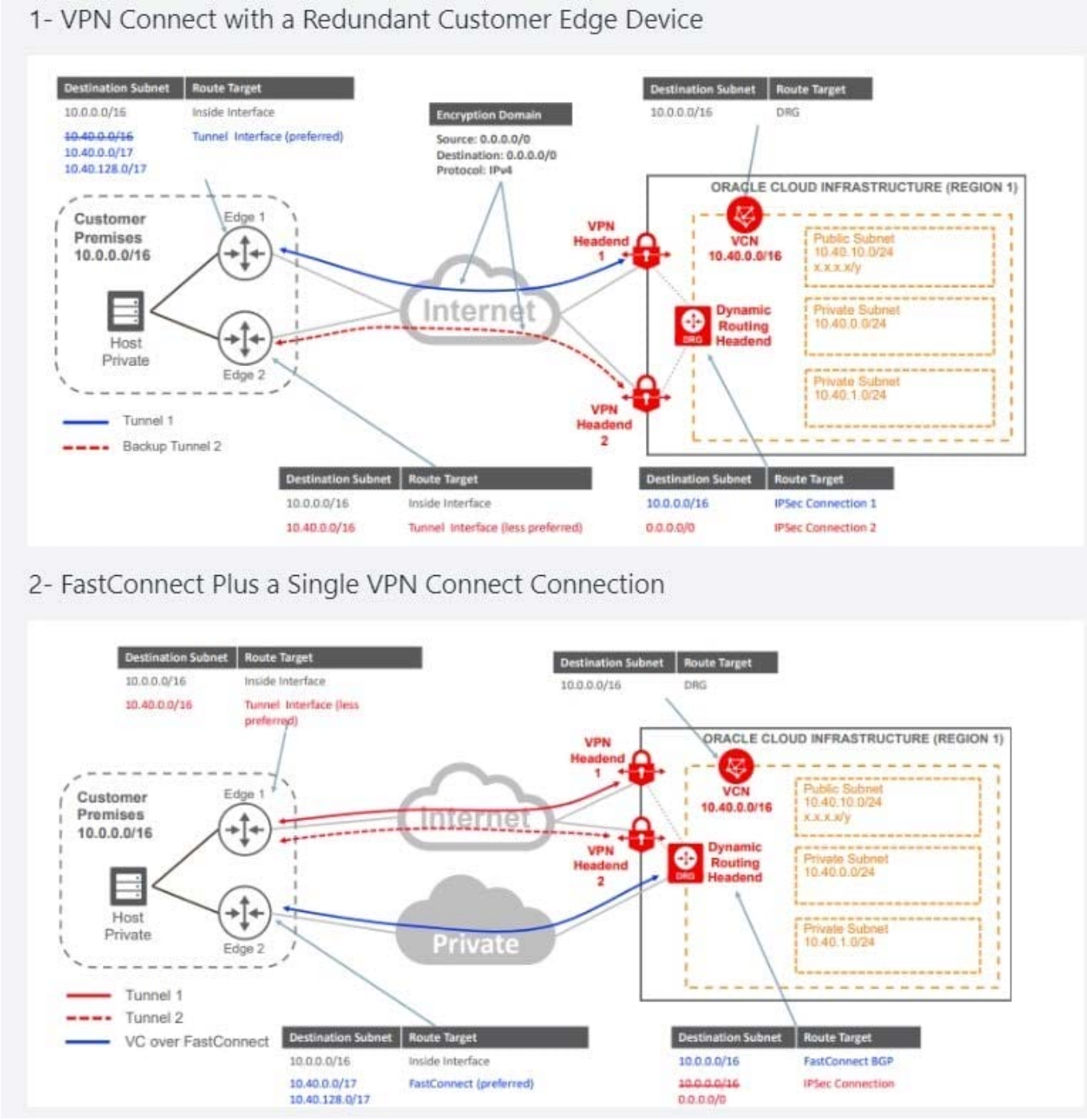
B. Setup FastConnect virtual circuit as your primary connection, and a second FastConnect virtual circuit as a backup connection. Use separate edge devices in your FastConnect physical connectivity is redundant Use a single edge device in your on premises data center for each connection From yc device,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

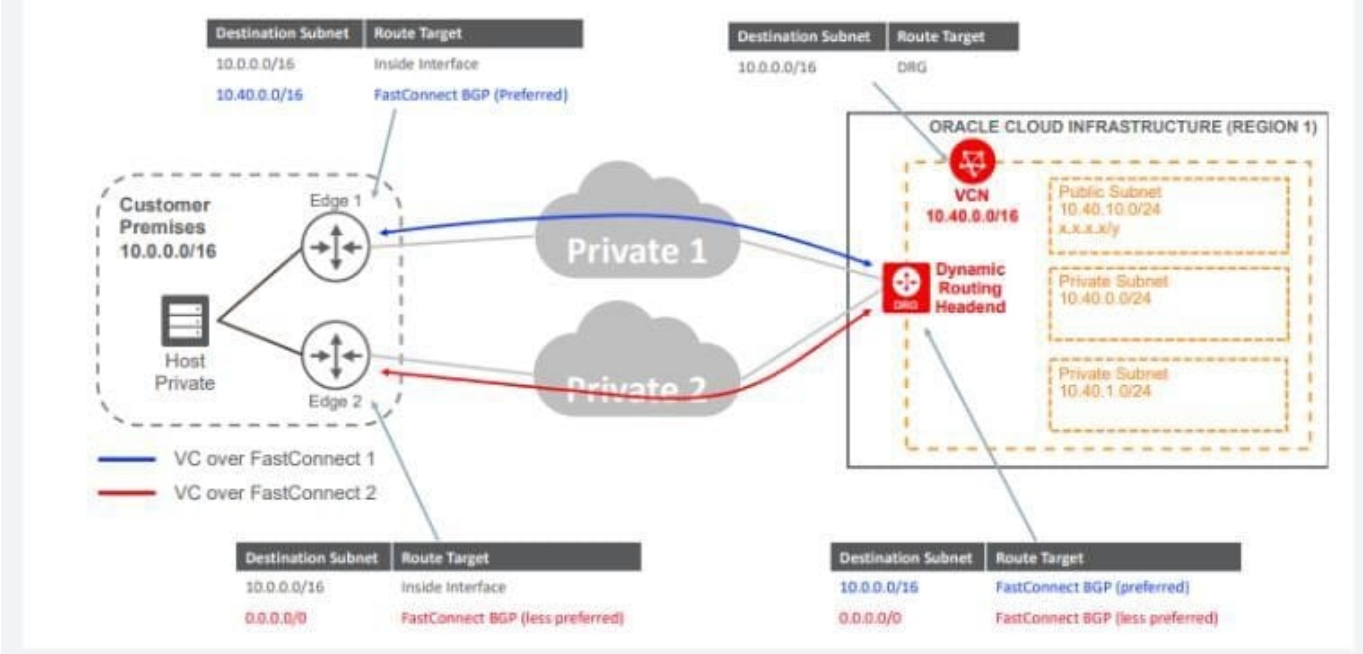
D. Setup IPSec VPN as your primary connection, and a second IPSec VPN as a backup connection. Use separate edge devices in your on p data center for each connection. From your edge devices, advertise more specific routes via primary IPSec VPN. and less specific rod the backup IPSec VPN.

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



3- Redundant FastConnect



QUESTION 5

You notice that a majority of your Oracle Cloud Infrastructure (OCI) resources like compute instances, block volumes, and load balancers are not tagged. You have received a mandate from your CIO to add a predefined set of tags to identify owners for respective OCI resources. E.g. if Chris and Larry each create compute instances in a compartment, the instances that Chris creates include tags that contain his name as the value, while the instances that Larry creates have his name.

Which option is the simplest way to implement this new tagging requirement?

A. Create a default tag for each compartment, which ensure that appropriate tags are applied at the time of resource creation.

B. Create an OCI Identity and Access Management policy requiring users to tag resources with their user name.

C. Create an OCI Identity and Access Management policy to automatically tag a resource with the user name.

D. Create tag variables to automatically tag a resource with the user name.

Correct Answer: D

QUESTION 6

You developed a microservices-based application that runs on Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE). It has multiple endpoints that needs to be exposed to the public internet.

What is the most cost-effective way to expose multiple application endpoints without adding complexity to the application?

A. Use NodePort service type in Kubernetes for each of your service endpoint and use node\\'s public IP address to access the applications.

B. Use separate load balancer instance for each service, but use the 100 Mbps load balancer option.

C. Deploy an Ingress Controller and use it to expose each endpoint with its own routing endpoint.

D. Use ClusterIP service type in Kubernetes for each of your service endpoint and use a load balancer to expose the endpoints.

Correct Answer: C

QUESTION 7

Multiple departments In your company use a shared Oracle Cloud Infrastructure (OCI) tenancy to Implement their projects. You are in charge of managing the cost of OCI resources in the tenancy and need to obtain better Insights Into department\\'s usage.

Which three options can you implement together to accomplish this?

A. Create a budget that matches your commitment amount and an alert at 100 percent of the forecast

B. Set up a consolidated budget tracking lags to analyze costs in ,1 granular manner

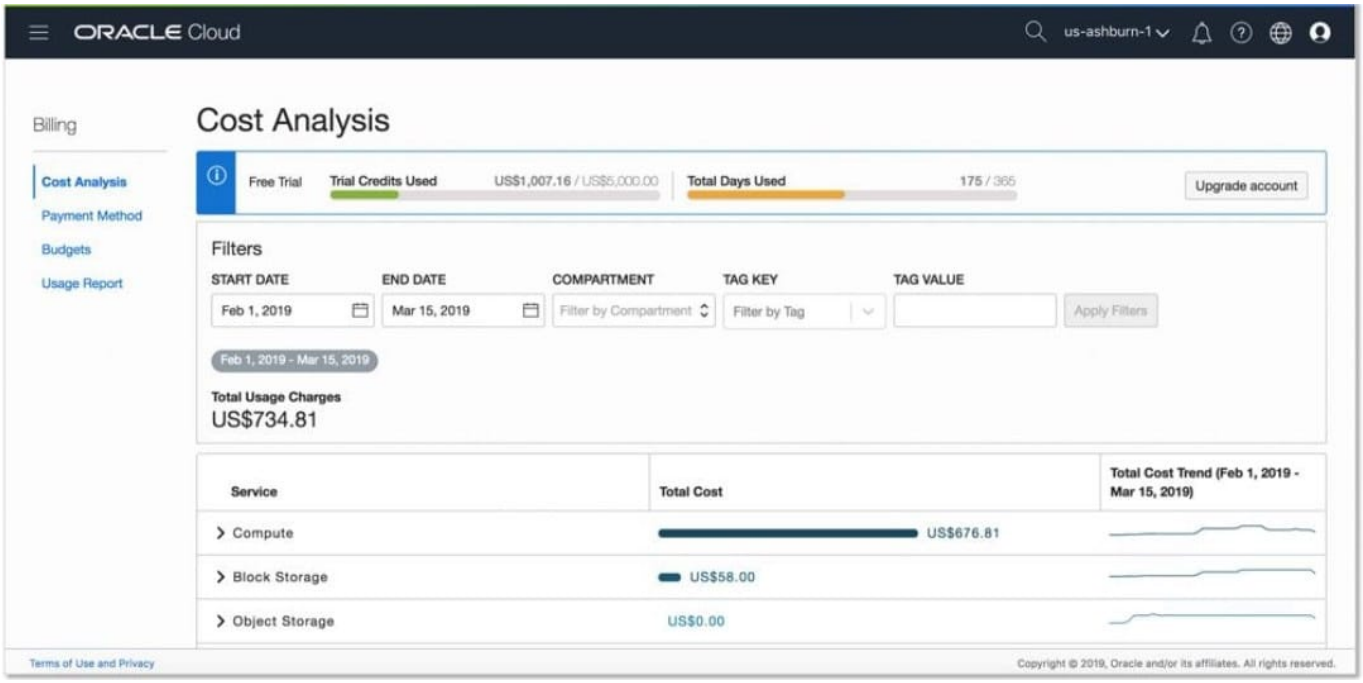
C. Set up different compartments for each department then track and analyze cost per compartment

D. Use the billing cost tracking report to analyze costs

E. Set up a tag default that automatically applies tags to all specified resources created In a compartment then use these tags for cost analysis.

Correct Answer: ACE

Explanation: budgets You can use budgets to track costs in your tenancy. After creating a budget for a compartment, you can set up alerts that will notify you if a budget is forecast to be exceeded or if spending surpasses a certain amount. OCI Cost Analysis Visualization tools Help understand spending patterns at a glance Filter costs by Date, Tags and Compartments Trend lines show how spending patterns are changing To use Cost Analysis you must be a member of the Administrators group



QUESTION 8

You have deployed a multi-tier application with multiple compute instances in Oracle Cloud Infrastructure. You want to back up these volumes and have decided to use Volume Group\\'s feature. The Block volume and Compute instances exist in different compartments within your tenancy.

Periodically. a few child compartments are moved under different parent compartments, and you notice that sometimes volume group backup fails.

What could be the cause?

A. You are exceeding your volume group backup quota configured.

B. You have the same block volume attached to multiple compute instances; if these compute instances are in different compartments then all concerned compartments must be moved at the same time.

C. Compute instance with multiple block volumes attached cannot move when a compartment is moved.

D. The Identity and Access Management policy allowing backup failed to move when the compartment was moved.

Correct Answer: D

You can move a compartment to a different parent compartment within the same tenancy. When you move a compartment, all its contents (subcompartments and resources) are moved with it. Moving a compartment has implications for the

contents. After you move a compartment to a new parent compartment, the access policies of the new parent take effect and the policies of the previous parent no longer apply. Before you move a compartment, ensure that:

You are aware of the policies that govern access to the compartment in its current position. You are aware of the polices in the new parent compartment that will take effect when you move the compartment.

In some cases, when moving nested compartments with policies that specify the hierarchy, the polices are automatically

updated to ensure consistency.

QUESTION 9

You are working as a cloud consultant for a major media company. In the US and your client requested to consolidate all of their log streams, access logs, application logs, and security logs into a single system.

The client wants to analyze all of their logs In real-time based on heuristics and the result should be validated as well. This validation process requires going back to data samples extracted from the last 8 hours.

What approach should you take for this scenario?

A. Create an auto scaling pool of syslog-enabled servers using compute instances which will store the logs In Object storage, then use map reduce jobs to extract logs from Object storage, and apply heuristics on the logs.

B. Create a bare-metal instance big enough to host a syslog enabled server to process the logs and store logs on the locally attached NVMe SSDs for rapid retrieval of logs when needed.

C. Set up an OCI Audit service and ingest all the API arils from Audit service pragmatically to a client side application to apply heuristics and save the result in an OCI Object storage.

D. Stream all the logs and cloud events of Events service to Oracle Streaming Service. Build a client process that will apply heuristics on the logs and store them in an Object Storage.

Correct Answer: D

The Oracle Cloud Infrastructure Streaming service provides a fully managed, scalable, and durable storage solution for ingesting continuous, high-volume streams of data that you can consume and process in real time. Streaming can be used for messaging, ingesting high- volume data such as application logs, operational telemetry, web click-stream data, or other use cases in which data is produced and processed continually and sequentially in a publish-subscribe messaging model. Streaming Usage Scenarios Here are some of the many possible uses for Streaming: Metric and log ingestion: Use the Streaming service as an alternative for traditional file- scraping approaches to help make critical operational data more quickly available for indexing, analysis, and visualization. Messaging: Use Streaming to decouple components of large systems. Streaming provides a pull/bufferbased communication model with sufficient capacity to flatten load spikes and the ability to feed multiple consumers with the same data independently. Key-scoped ordering and guaranteed durability provide reliable primitives to implement various messaging patterns, while high throughput potential allows for such a system to scale well. Web/Mobile activity data ingestion: Use Streaming for capturing activity from websites or mobile apps (such as page views, searches, or other actions users may take). This information can be used for realtime monitoring and analytics, as well as in data warehousing systems for offline processing and reporting. Infrastructure and apps event processing: Use Streaming as a unified entry point for cloud components to report their life cycle events for audit, accounting, and related activities.

QUESTION 10

A global media organization is working on a project which lets users upload their videos on their site. After upload is complete, the video should be automatically processed by an Al algorithm. The algorithm will try to recognize actions in the videos so that it can be used to show related advertisements in future. The development team wants to focus on writing Al code and don\\'t want to worry about underlying infrastructure for high-availability, scalability, security and monitoring.

Which OCI services should you recommend for this project?

A. Use OCI Events service for triggering automatic processing of video, Oracle Container Engine for Kubernetes (OKE)

and OCI Digital Assistant

B. Use Oracle Container Engine for Kubernetes (OKE) for deployment of Al Code, OCI Notifications and Object Storage

C. Use OCI Resource Manager to manage the underlying infrastructure, OCI Functions and OCI Events service.

D. Use Object Storage for storing videos, OCI Events service and OCI Functions

Correct Answer: D

Oracle Functions is a fully managed, multi-tenant, highly scalable, on-demand, Functions- as-a-Service platform. It is built on enterprise-grade Oracle Cloud Infrastructure and powered by the Fn Project open source engine. Use Oracle Functions (sometimes abbreviated to just Functions) when you want to focus on writing code to meet business needs. The serverless and elastic architecture of Oracle Functions means there\\'s no infrastructure administration or software administration for you to perform. You don\\'t provision or maintain compute instances, and operating system software patches and upgrades are applied automatically. Oracle Functions simply ensures your app is highly-available, scalable, secure, and monitored. With Oracle Functions, you can write code in Java, Python, Node, Go, and Ruby (and for advanced use cases, bring your own Dockerfile, and Graal VM). You can then deploy your code, call it directly or trigger it in response to events, and get billed only for the resources consumed during the execution.

You can create automation based on state changes for your Oracle Cloud Infrastructure resources by using event types, rules, and actions. When the function is executing inside the container, the function can read from and write to other resources and services running in the same subnet (for example, Database as a Service). The function can also read from and write to other shared resources (for example, Object Storage), and other Oracle Cloud Services.

QUESTION 11

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 12

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-phonix-1 region. The on-premise applications communications with compute instances inside the VPN 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 of 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 encrypt

D. Configure autoscaling on a compute Instance pool and set vNIC to promiscuous mode to called traffic across the vcn and send it 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.

QUESTION 13

A small business specializing in video processing wants to leverage cloud storage in order to lower its costs. They are looking to backup all video data generated, from an existing on- premises file server to Oracle Cloud Infrastructure (OCI). The requirement is to setup continuous data sync as changes are made to on-premises file server. What is the most cost effective solution for this scenario?

A. Set up a Fastconnect virtual Circuit and nightly back up all videos to OCI Archive Storage.

B. Set up file storage service on OCI and mount the file system to an instance running on- premises. Move all the data to this on-premises instance and then sync the videos to the shared file system.

C. Set up a VPN connect connection and back up all videos to Object storage standard bucket. Create a lifecycle policy to move files older than 30 days to Archive Storage.

D. Setup an on-premises OCI Storage Gateway Cloud Sync to back up videos to OCI Object Storage Archive tier.

Correct Answer: D

QUESTION 14

You work for a large bank where security and compliance are critical. As part of the security overview meeting, your company decided to minimize the installation of local tools on your laptop. You have been running Ansible and kubectl to spin up Oracle Container Engine for Kubernetes (OKE) clusters and deployed your application.

For authentication, you are using an Oracle Cloud Infrastructure (OCI) CLI config file that contains OCIDs, Fingerprint, and a locally stored PEM file. Your security team doesn\\'t want you to store any local API key and certificate, or any other local tools.

Which two actions should you perform to spin up the OKE cluster and interact with it? (Choose two.)

A. Create a developer workstation on OCI. Install Ansible and kubectl on it. Use resource principal to authenticate against OCI API and create the OKE Cluster.

B. Develop your own code using OCI SDK to deploy the OKE cluster.

C. Work on OCI Cloud Shell to use built-in Ansible and kubectl to deploy the OKE cluster. Use OCI_CLI_AUTH=instance_obo_user environment variable to authenticate using built- in token.

D. Work on OCI Cloud Shell to use built-in Ansible and kubectl to deploy the OKE cluster. Bring in your own config file and certificate to authenticate against OCI API.

E. Create a developer workstation on OCI. Install Ansible and kubectl on it. Use instance principal to authenticate against OCI API and create the OKE Cluster.

Correct Answer: CE

https://docs.cloud.oracle.com/en-us/iaas/tools/oci-cli/2.12.4/oci_cli_docs/oci.html

QUESTION 15

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 and 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 of 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.