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Question 1

Question Type: MultipleChoice

Which of these steps should be pet formed when creating the infrastructure Tor Sunbird ED deployment?

I) Create NAT Gateway in the Virtual Cloud Network (VCN) to give those cloud resources that are without

II) public IP addresses access to (he Internet, without exposing those resources to incoming Internet connections.

III) Create Service Gateway in the VCN to enable private access lo specific Oracle service (for example. Object Storage. Container Registry, and so on) without exposing the data to the public Internet

IV) Create Network Security Group (NSG) to allow the Compute VMs lo access other subnets. Oracle services, and the Internet.

V) Create Reverse DNS (FTR) records to resolve all private IP addresses hack to fully qualified domain names

VI) IFODN).

Options:

A- (i), (ii), (iii) only

B- (i), (ii), (iii) and (iv)

C- (i), (ii), and (iv) only

D- (iii) and (iv) only

Answer:

A

Explanation:

When creating the infrastructure for Sunbird ED deployment, it is essential to create a NAT Gateway for enabling private resources to access the internet without direct exposure, a Service Gateway for private access to Oracle services without internet exposure, and Network Security Groups (NSGs) for defining security rules for VMs. Creating Reverse DNS records is not typically a required step in this context, making options (i), (ii), and (iii) the correct actions to perform.

Question 2

Question Type: MultipleChoice

You need lo store Sunbird ED ansible inventory in a repository that pros ides additional layer of security 10 control access. Which repository would you use?

Options:

A- OCI Object Storage

B- OCI Container Registry (Oracle Cloud Infrastructure Registry OCIR)

C- OCI DevOps Code Repositories

D- OCI DevOps Artifacts

Answer:

C

Explanation:

OCI DevOps Code Repositories is a service designed to provide a secure, scalable, and collaborative environment for storing and managing source code. It offers an additional layer of security to control access, making it an ideal choice for storing sensitive configurations like Sunbird ED ansible inventory, ensuring that access to these configurations is tightly controlled and monitored.

Question 3

Question Type: MultipleChoice

You need to create a load balancer for Sunbird ED Portal, the Player microservice. You use annotation (o control (he shapes of the load balancer where you need to put the annotation in the ansible inventory. What is the minimum bandwidth for a flexible load balancer in OCI?

Options:

A- 8000 Mbps

B- 10 Mbps

C- 400 Mbps

D- 100 Mbps

Answer:

B

Explanation:

The minimum bandwidth for a flexible load balancer in OCI is 10 Mbps. This allows for granular control over the load balancer's capacity, enabling it to be precisely tailored to the application's needs, such as the Player microservice in Sunbird ED Portal, ensuring efficient distribution of traffic and optimal resource utilization.

Question 4

Question Type: MultipleChoice

Oracle Cloud Agent is a lightweight proves that manages plug-ins running on compute instances for all Ubuntu platform images dated after Feb 2019. Plug-ins collect performance metrics that can be displayed in (XI Console Dashboards. Which is NOT a metric in compute instance?

Options:

A- Disk Read I/O

B- Memory Utilization

C- Disk Free Space

D- CPU Utilization

Answer:

C

Explanation:

Oracle Cloud Agent collects various performance metrics from compute instances, such as Disk Read I/O, Memory Utilization, and CPU Utilization, to help monitor and manage the performance of instances. However, Disk Free Space is typically not a metric directly provided by the Oracle Cloud Agent as it focuses more on performance metrics rather than storage capacity metrics.

Question 5

Question Type: MultipleChoice

Which three of the following Oracle Cloud Services can be used as the infrastructure requirements of Sunbird ED?

Container Engine for Kuberntes (OKE)

OCI Compute

OCI File Storage

Oracle Autonomous Database Severless

Oracle Cloud Infrastructure Registry (OCIR, Container Registry)

Options:

A- (i), (ii) and (v)

B- (i), (ii) and (iv)

C- (ii), (iii) and (iv)

D- (i), (iii) and (iii)

Answer:

A

Explanation:

For the infrastructure requirements of Sunbird ED, Container Engine for Kubernetes (OKE) for orchestrating containerized applications, OCI Compute for providing scalable virtual machines, and OCI Container Registry (OCIR) for storing and managing container images are essential services. These services collectively support a robust, scalable, and efficient cloud infrastructure for deploying and managing Sunbird ED.

Question 6

Question Type: MultipleChoice

You observe that during peak hours, the resources used in Sunbird ED are not enough for the deployed microservices. What should you do?

Options:

A- Create Instance Pools for the virtual machines (VMs) that run the non-containerized workload.

B- Use the Kubernetes Cluster Autoscaler in (XI Container Engine for Kubernetes.

C- Enable Auto-Tiering of the Object Storage bucket.

D- Create Volume Groups for the VMs.

Answer:

B

Explanation:

Using the Kubernetes Cluster Autoscaler with OCI Container Engine for Kubernetes (OKE) is an effective way to dynamically adjust the resources allocated for containerized workloads based on demand. This ensures that during peak hours, additional resources are automatically provisioned to accommodate the increased load, thereby maintaining performance and availability.

Question 7

Question Type: MultipleChoice

Which Oracle Cloud Service can be used as a Docker Hub equivalent as part of the Sunbird ED infrastructure requirements?

Options:

A- OCI Container Registry (Oracle Cloud Infrastructure Registry OCIR)

B- OCI Events

C- OCI Container Instances

D- OCI Streaming

Answer:

A

Explanation:

OCI Container Registry (OCIR) is a managed Docker registry service that provides a Docker Hub equivalent functionality within Oracle Cloud Infrastructure. It allows users to store, share, and manage container images securely, making it an essential part of the infrastructure for containerized applications like those in Sunbird ED.

Question 8

Question Type: MultipleChoice

Which Oracle Cloud Service can be used to integrate with Sunbird ED to provide video and audio streaming?

Options:

A- OCI Media Streams

B- OCI Notification

C- OCI Events

D- OCI Streaming

Answer:

D

Explanation:

OCI Streaming service is designed to provide real-time data streaming capabilities, which can be used for various purposes, including video and audio streaming. This makes it a suitable choice for integrating with Sunbird ED to support streaming functionalities, enhancing the platform's capabilities in delivering multimedia content.

Question 9

Question Type: MultipleChoice

Which feature of the OCX Resource Manager service would you use to differentiate between the real-world state of your infrastructure and the slack's last-executed configuration?

Options:

A- Dill Detection

B- Apply or Import State

C- View State

D- Drift Detection

Answer:

D

Explanation:

Drift Detection is a feature in OCI Resource Manager that helps users identify discrepancies between the real-world state of their infrastructure and the configuration defined in their Terraform state file. This feature is crucial for maintaining the integrity of infrastructure deployments, as it highlights unintended changes or drifts that might have occurred outside of Terraform's management.

Question 10

Question Type: MultipleChoice

What is the primary purpose of Oracle Cloud Infrastructure Resource Manager (ORM)?

Options:

A- To provision and manage Oracle Cloud Infrastructure resources through the 'infrastructure-as-code' model using Terraform

B- To create and manage container images

C- To automate software builds and deployments

D- To provide a managed repository for source code

Answer:

A

Explanation:

Oracle Cloud Infrastructure Resource Manager (ORM) is a managed service that enables the provisioning and managing of OCI resources through the infrastructure-as-code model. It uses Terraform by HashiCorp, allowing users to define and apply configurations using declarative code, thereby automating the setup and maintenance of cloud resources efficiently.

Question 11

Question Type: MultipleChoice

Which is a key feature of Oracle Cloud Infrastructure (OCI) Container Registry?

Options:

A- It is not Open Container Initiative-compliant, limiting the types of container images it can store.

B- It provides a managed registry for container images, ideal for storing and sharing virtual machine images.

C- It supports private access from Oracle Cloud Infrastructure resources using an Internet gateway.

D- It enables you to store container images that conform to Open Container Initiative specifications, manifest lists for multiple architectures, and Helm charts.

Answer:

D

Explanation:

Oracle Cloud Infrastructure Container Registry is a managed Docker registry service that supports storing, sharing, and managing development artifacts like Docker images. It is compliant with the Open Container Initiative (OCI) specifications, supporting a wide range of container images and configurations, including manifest lists for multiple architectures and Helm charts, making it ideal for modern containerized applications.