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QUESTIONS & ANSWERS
DEMO VERSION
(LIMITED CONTENT)

Question 1

Question Type: MultipleChoice

You host your application on a stack in Oracle Cloud Infrastructure (OCI) Resource Manager. Because of recent growth in your user base, you decide to add a CIDR block to your VCN, add a subnet, and provision a compute instance in it.

Which statement is true?

Options:

- A- You need to provision a new stack because Terraform uses immutable infrastructure.
- B- You can make the changes to the Terraform code, run a Drift Detection job, and Resource Manager will provision the new resources.
- C- You need to provision the new resources in the OCI console first, then add them later to the Terraform configuration and state.
- D- You can make the changes to the Terraform code, run an Apply job, and Resource Manager will provision the new resources.

Answer:

D

Explanation:

Oracle Cloud Infrastructure (OCI) Resource Manager uses Terraform to manage infrastructure resources. If you need to add new resources (e.g., a new CIDR block, subnet, and compute instance), you can simply make the necessary changes to the Terraform code defining the stack.

After modifying the Terraform configuration to include the new resources, you can run an Apply job in Resource Manager. The Apply job will provision the new resources in your OCI environment according to the updated Terraform code.

Question 2

Question Type: MultipleChoice

An operations team is exploring the use of OCI Container Instances to run their container workloads without managing servers.

Which of the following statements is false regarding the use of Container Instances?

Options:

- A- The underlying infrastructure for Container Instances is fully managed and hardened by OCI, ensuring reliability and security.
- B- Billing for Container Instances is based on the allocated CPU and memory resources for each container instance.
- C- Container Instances require the team to perform provisioning, patching, and ongoing management of servers.
- D- Container Instances provide a serverless compute service for running containers, eliminating the need for server management.

Answer:

C

Explanation:

OCI Container Instances are a serverless compute service that allows you to run containerized workloads without managing the underlying infrastructure. Oracle Cloud Infrastructure (OCI) manages provisioning, patching, and all the ongoing server management tasks, providing a fully managed environment.

Question 3

Question Type: MultipleChoice

As a DevOps engineer at XYZ Corp, you are responsible for ensuring the smooth operation of high-traffic web applications hosted on Oracle Cloud Infrastructure (OCI). The web applications run on multiple OCI resources, including virtual machines, load balancers, and databases. Recently, users have reported failures while accessing one of the OCI-based web applications, and you suspect HTTP 5XX errors on the load balancer. You need to quickly identify and address this issue.

Which of the following statements can assist you in quickly identifying and monitoring the HTTP 5XX error rate on the load balancer and setting up notifications?

Options:

- A- Use Custom Metrics of the Monitoring service to collect HTTP 5XX error rates from the load balancer and set up Service Connectors with third-party services such as PagerDuty or Slack.

- B- Use Metrics and Alarms of the Monitoring service with Container Engine for Kubernetes (OKE) to monitor HTTP 5XX errors on Kubernetes resources and correlate them with other OCI resources.
- C- Use Event Rules to detect HTTP 5XX errors on the load balancer and trigger automated actions using OCI Functions or API Gateway.
- D- Use Metrics and Alarms of the Monitoring service to monitor the HTTP 5XX error rate on the load balancer and set up notifications with OCI Notifications.

Answer:

B

Explanation:

The Monitoring service in OCI can be used to track metrics for various OCI resources, including load balancers. You can monitor specific metrics, such as HTTP 5XX error rates, to identify issues.

By using Alarms, you can set up thresholds for the HTTP 5XX error rate and receive notifications when the threshold is breached. The notifications can be configured through OCI Notifications, which allows integration with email, PagerDuty, Slack, and other channels.

Question 4

Question Type: MultipleChoice

As an engineer building and deploying applications using an OCI DevOps project, which two capabilities can help ensure the security and reliability of the code in the build and deployment pipelines? (Choose two.)

Options:

- A- Using third-party tools like Ansible, Terraform, or OverOps to analyze code for security defects or bugs in code quality
- B- Using Application Dependency Management (ADM) to identify security weaknesses in software applications by checking their dependencies
- C- Using JIRA to track user stories and bug fixes in the development process
- D- Using version control tools like Git or SVN to track and manage changes in the codebase
- E- Using third-party tools like Sonatype, SonarQube, or OverOps to analyze code for security defects or bugs in code quality

Answer:

B, E

Explanation:

Application Dependency Management (ADM) is a tool used to identify security weaknesses in software applications by analyzing their dependencies. Dependencies can often introduce vulnerabilities, and managing them properly is a critical part of ensuring application security.

Third-party tools like Sonatype and SonarQube can be used to analyze code for security defects or bugs in code quality. These tools help in identifying vulnerabilities, code smells, and other issues, which can improve the overall security and reliability of the code during the build process.

Question 5

Question Type: MultipleChoice

As a DevOps engineer at XYZ Corp, you have been assigned the task of setting up a new OKE (Oracle Kubernetes Engine) cluster to manage the organization's Kubernetes applications hosted on Oracle Cloud Infrastructure (OCI). Your goal is to ensure a smooth and efficient process while preparing for the cluster creation.

Which of the following statements is false regarding the preparation process for setting up a new OKE cluster?

Options:

- A- Container Engine for Kubernetes cannot utilize existing network resources for the creation of the new cluster.
- B- Container Engine for Kubernetes automatically creates and configures new network resources for the new cluster.
- C- It is necessary to ensure sufficient quota on different resource types in your OCI tenancy for the cluster setup.
- D- Access to an Oracle Cloud Infrastructure tenancy is required to set up the new OKE cluster.

Answer:

A

Explanation:

This statement is false because Container Engine for Kubernetes (OKE) can utilize existing network resources such as Virtual Cloud Networks (VCNs), subnets, security lists, and route tables for the creation of a new cluster. You can either use pre-existing network resources or let OKE create new

network resources automatically.

Question 6

Question Type: MultipleChoice

How can you run applications on GPU worker nodes in clusters created using Container Engine for Kubernetes (OKE)?

Options:

- A- By selecting a managed node pool, a GPU shape, and a GPU image, and ensuring that the CUDA libraries for different GPUs are pre-installed on the worker nodes
- B- By selecting a virtual node pool, a GPU shape, and a GPU image, and ensuring that the CUDA libraries are included in the application container
- C- By selecting a managed node pool, a GPU shape, and a GPU image that has CUDA libraries pre-installed, and specifying the number of GPU resources required in the pod spec
- D- By selecting a managed node pool, a GPU shape, and a GPU image, and specifying the number of CPU resources required in the pod spec

Answer:

C

Explanation:

To run applications on GPU worker nodes in Oracle Kubernetes Engine (OKE), you need to:

Select a managed node pool and choose a GPU shape for the worker nodes.

Use a GPU image that has the necessary CUDA libraries pre-installed to ensure that GPU workloads can be executed properly.

In the pod specification, specify the number of GPU resources required for the container to utilize the GPU hardware during execution. This allows Kubernetes to schedule the pod on a node with an available GPU.

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