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Oracle 1Z0-1109-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Using Code and Templates for Provisioning and Configuring Infrastructure: This domain evaluates the expertise of DevOps Engineers and Infrastructure Architects in deploying infrastructure using Infrastructure as Code (IaC) tools like Terraform. It focuses on automating resource provisioning with OCI Resource Manager to ensure consistent and efficient infrastructure setups.
Topic 2	<ul style="list-style-type: none">Implementing Monitoring and Observability (O&M): This section evaluates the expertise of Site Reliability Engineers (SREs) and Monitoring Specialists in tracking system performance using OCI Monitoring, Logging, and Events services. It analyzes metrics, logs, and events to maintain system reliability and troubleshoot operational issues effectively.

Topic 3	<ul style="list-style-type: none"> • Enabling DevSecOps: This domain measures the skills of Security Engineers and DevSecOps Practitioners in integrating security into DevOps workflows. It includes managing encryption keys with OCI Vault, securing CI • CD pipelines, and ensuring container image security to align with DevSecOps best practices.
Topic 4	<ul style="list-style-type: none"> • Understand DevOps Principles and Effectively Work with Containerization Services: This section of the exam measures the skills of DevOps Engineers and Cloud Architects in applying DevOps methodologies and containerization practices. It covers implementing a microservices architecture, creating Docker containers, and managing Oracle Cloud Infrastructure Registry (OCIR) and Container Instances to streamline application deployment and scalability.
Topic 5	<ul style="list-style-type: none"> • Managing Containers Using Container Orchestration Engine: This part assesses the abilities of Kubernetes Administrators and Containerization Specialists in managing Oracle Container Engine for Kubernetes (OKE). It covers cluster creation, scaling, upgrades, networking, storage, and security configurations to optimize containerized applications in OCI environments.

Oracle Cloud Infrastructure 2025 DevOps Professional Sample Questions (Q27-Q32):

NEW QUESTION # 27

You're using Oracle Cloud Infrastructure (OCI) DevOps to deploy your application on an Oracle Container Engine for Kubernetes (OKE) environment. You push your code to the OCI Code Repository, add all the required stage and configure the build and deployment pipeline. When you run the build, you see "unable to clone the repository" error. What could the configuration error be?

- A. The OKE cluster is not configured to allow external access to the code repository.
- B. CA bundle for Transport Layer Security (TLS) verification to download the build source during the build run is missing.
- C. Dynamic Groups and OCI IAM policies to access the code repository are missing.
- D. The Docker image used in the pipeline is incompatible with the OKE environment.

Answer: C

Explanation:

The error "unable to clone the repository" typically indicates that there is an authentication or authorization issue preventing access to the OCI Code Repository. In OCI DevOps, the build pipeline must have the appropriate permissions to access the code repository. To allow the build pipeline to clone the repository, you need to set up Dynamic Groups and OCI IAM policies that provide the necessary permissions for the build runner to access the code repository.

NEW QUESTION # 28

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

- A. 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
- B. 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
- C. 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
- D. 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

Answer: D

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.

NEW QUESTION # 29

What are the two items required to create a rule for the Oracle Cloud Infrastructure Events Service? (Choose two.)

- **A. Actions**
- B. Management Agent Cloud Service
- **C. Rule Conditions**
- D. Service Connector
- E. Auth Token

Answer: A,C

Explanation:

Oracle Cloud Infrastructure (OCI) Events Service allows you to create rules to automatically respond to changes in your OCI environment. To create a rule, you need the following items:

Rule Conditions: Conditions define the events that will trigger the rule. This specifies what event (e.g., instance creation, object storage bucket modification) will trigger an action.

Actions: Actions define what should happen when a condition is met. For example, the action might be to trigger an OCI Function or send a notification.

NEW QUESTION # 30

In Kubernetes clusters created by Container Engine for Kubernetes, how is data in etcd encrypted at rest by default?

- A. No encryption applied
- **B. Using encryption keys managed by Oracle using a master encryption key**
- C. Using encryption keys managed by the user
- D. Encryption using TLS certificates

Answer: B

Explanation:

In Kubernetes clusters created by Oracle Container Engine for Kubernetes (OKE), data in etcd (the key-value store that holds cluster state and configuration data) is encrypted at rest by default using encryption keys managed by Oracle. Oracle manages the encryption using a master encryption key to protect sensitive data.

NEW QUESTION # 31

As a DevOps engineer working on an OCI project, you're setting up a deployment pipeline to automate your application deployments.

Which statement is false about deployment pipeline in OCI DevOps?

- **A. Using deployment pipeline, you can deploy helm charts in OCI Function.**
- B. You can add a Traffic Shift stage that routes the traffic between two environments.
- C. You can add a Wait stage that adds a specified duration of delay in the pipeline.
- D. You can add an Approval stage that pauses the deployment for a specified duration for manual decision from the approver.

Answer: A

Explanation:

Helm charts are used to manage Kubernetes deployments, not OCI Functions. Helm charts are deployed to Kubernetes clusters, such as OCI Container Engine for Kubernetes (OKE), to manage containerized applications. OCI Functions are serverless and do not use Helm charts for deployment.

NEW QUESTION # 32

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