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## Oracle 1Z0-1109-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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</li><li>CD pipelines, and ensuring container image security to align with DevSecOps best practices.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Configuring and Managing Continuous Integration and Continuous Delivery (CI CD): This section tests the knowledge of CI</li><li>CD Engineers and Automation Specialists in automating the software lifecycle using OCI DevOps Service. It includes managing source code repositories, configuring build</li><li>deployment pipelines, and creating artifacts for automated deployments across environments.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
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### **Oracle Cloud Infrastructure 2025 DevOps Professional Sample Questions (Q15-Q20):**

#### **NEW QUESTION # 15**

Your team is responsible for deploying a new version of an application that is being used by your company's finance department. The application is critical to the department's operations, and any downtime could have serious consequences. What is the recommended approach in OCI for creating environments for this scenario?

- A. Use a single OCI region and create two separate Virtual Cloud Networks (VCNs), one for the blue environment and one for the green environment.
- B. Configure two OKE clusters, selecting the blue-green traffic shift strategy using a load balancer.
- C. Deploy the application to two separate OCI tenancies to ensure complete isolation between environments.
- D. **Use a single Kubernetes cluster with two node pools, one for the blue-green environment and one for the canary environment.**

#### **Answer: D**

Explanation:

For critical applications, such as the one used by the finance department, a blue-green deployment strategy is recommended to ensure minimal or zero downtime during upgrades. The blue-green strategy involves running two separate environments: blue (current version) and green (new version).

#### **NEW QUESTION # 16**

You are a DevOps project administrator. You are creating Oracle Cloud Infrastructure (OCI) Identity and Access Management (IAM) policies that will be used in a DevOps CI/CD pipeline for deployment to an Oracle Container Engine for Kubernetes (OKE) environment.

Which OCI IAM policy can be used?

- A. Allow dynamic-group <deployment pipeline> to manage all-resources in compartment <compartment name>
- B. Allow group <build pipeline> to manage all-resources in compartment <compartment name>
- C. Allow dynamic-group <code repository> to manage devops-family in compartment <compartment name>
- D. **Allow group <deployment pipeline> to manage devops-family in compartment <compartment name>**

#### **Answer: D**

Explanation:

Choosen policy specifies an IAM policy allowing the group (in this case, the deployment pipeline) to manage devops-family resources within a specific compartment. The devops-family is a group of services that includes the OCI DevOps service, which is suitable for managing CI/CD pipelines, deployments, and related operations for an OKE environment.

#### **NEW QUESTION # 17**

As a cloud engineer, you are responsible for managing a Kubernetes cluster on the Oracle Cloud Infrastructure (OCI) platform for your organization. You are looking for ways to ensure reliable operations of Kubernetes at scale while minimizing the operational overhead of managing the worker node infrastructure.

Which cluster option is the best fit for your requirement?

- A. Using OCI OKE virtual nodes to eliminate worker node infrastructure management
- B. Using Kubernetes cluster add-ons to automate worker node management
- C. Using OCI OKE managed nodes with cluster autoscalers to eliminate worker node infrastructure management
- D. Creating and managing worker nodes using OCI compute instances

**Answer: A**

Explanation:

Step 1: Understanding the Requirement

The goal is to ensure reliable operations of Kubernetes at scale while minimizing the operational overhead of managing worker node infrastructure. In this context, a solution is needed that abstracts away the complexity of managing, scaling, and maintaining worker nodes.

Step 2: Explanation of the Options

A . Using OCI OKE managed nodes with cluster autoscalers

While this option provides managed node pools and uses cluster autoscalers to adjust resources based on demand, it still requires some level of management for the underlying worker nodes (e.g., patching, upgrading, monitoring).

Operational overhead: Moderate.

B . Using OCI OKE virtual nodes

Virtual nodes in OCI OKE are a serverless option for running Kubernetes pods. They remove the need to manage underlying worker nodes entirely.

OCI provisions resources dynamically, allowing scaling based purely on pod demand.

There's no need for node management, patching, or infrastructure planning, which perfectly aligns with the requirement to minimize operational overhead.

Operational overhead: Minimal.

Best Fit for This Scenario: Since the requirement emphasizes minimizing operational overhead, this is the ideal solution.

C . Using Kubernetes cluster add-ons to automate worker node management Kubernetes add-ons like Cluster Autoscaler or Node Problem Detector help in automating some aspects of worker node management. However, this still requires managing worker node infrastructure at the core level.

Operational overhead: Moderate to high.

D . Creating and managing worker nodes using OCI compute instances

This involves manually provisioning and managing compute instances for worker nodes, including scaling, patching, and troubleshooting.

Operational overhead: High.

Not Suitable for the Requirement: This option contradicts the goal of minimizing operational overhead.

Step 3: Why Virtual Nodes Are the Best Fit

Virtual Nodes in OCI OKE:

Virtual nodes provide serverless compute for Kubernetes pods, allowing users to run workloads without provisioning or managing worker node infrastructure.

Scaling: Pods are automatically scheduled, and the required infrastructure is dynamically provisioned behind the scenes.

Cost Efficiency: You only pay for the resources consumed by the running workloads.

Use Case Alignment: Eliminating the burden of worker node infrastructure management while ensuring Kubernetes reliability at scale.

Step 4: References and OCI Resources

OCI Documentation:

OCI Kubernetes Virtual Nodes

OCI Container Engine for Kubernetes Overview

Best Practices for Kubernetes on OCI:

Best Practices for OCI Kubernetes Clusters

## NEW QUESTION # 18

You're using Oracle Cloud Infrastructure (OCI) DevOps to automate your application deployment for frequent releases. In one of your automation steps, you'll create a deployment pipeline.

What does this deployment pipeline do in OCI DevOps?

- A. It takes a commit ID from your source code repositories and uses that source code to run your build instructions.
- B. It is a sequence of steps for delivering and deploying your artifacts to a target environment.

- C. It is a set of stages for your build process for building, testing and compiling software artifacts.
- D. It is used to store, manage, develop source code with OCI DevOps Code Repositories.

**Answer: B**

Explanation:

A deployment pipeline in OCI DevOps is used to automate the deployment of application artifacts to a target environment. It is a sequence of stages that includes steps such as approvals, traffic shifts, manual interventions, and the actual deployment of the artifacts to environments like Kubernetes clusters or compute instances.

**NEW QUESTION # 19**

An operations team wants to leverage the advanced features of Container Engine for Kubernetes (OKE) and requires granular control over cluster add-ons, workload identity, and improved worker node management. They also prioritize strong security measures and require a financially-backed service level agreement (SLA) for Kubernetes API server uptime.

Which type of cluster should they choose to meet their requirements?

- A. Enhanced clusters
- B. Virtual clusters
- C. Federated clusters
- D. Specialized clusters

**Answer: A**

Explanation:

Enhanced clusters in Oracle Container Engine for Kubernetes (OKE) provide advanced features such as granular control over cluster add-ons, workload identity, and improved worker node management. They also offer strong security measures and come with a financially-backed service level agreement (SLA) for Kubernetes API server uptime, ensuring higher reliability and support for production workloads.

**NEW QUESTION # 20**

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