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## Oracle 1Z0-1084-25 Exam Syllabus Topics:

| Topic | Details |
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| Topic 1 | • Cloud Native Applications and Containerization: This section of the exam covers containerization technologies for cloud-native applications. It explains Docker architecture, its components, and the process of pulling and pushing container images using Oracle Cloud Infrastructure Registry (OCIR). It also explores container orchestration, deploying applications on Oracle Kubernetes Engine (OKE), and using OCI Service Mesh for Kubernetes deployments. |
| Topic 2 | • Monitoring & Troubleshooting Cloud-Native Applications: This section of the exam focuses on monitoring and troubleshooting cloud-native applications. It covers using OCI Monitoring to track metrics, OCI Logging for managing logs and performing tasks related to monitoring, logging, and tracing for better observability and issue resolution. |
| Topic 3 | • Leveraging Serverless Technologies for Cloud Native Development: This section of the exam measures the skills of professionals in serverless development within OCI. It covers creating serverless applications using Oracle Functions, building API gateways for routing traffic, and integrating systems through OCI Streaming Service. Additionally, it explores event-driven architectures using OCI Event Service and how OCI Queue enables asynchronous messaging between microservices. |
| Topic 4 | • Testing and Securing Cloud-Native Applications: This section focuses on testing strategies and security for cloud-native applications. It discusses different testing methodologies, securing sensitive information using OCI Vault, and implementing security measures to address cloud-native development challenges. |
| Topic 5 | • Cloud Native Fundamentals: This section of the exam measures the skills of target audience and covers the essential principles of cloud-native development. It explains the core concepts, key pillars, and advantages of cloud-native applications. The section also focuses on microservices architecture, including its design methodology and how it supports scalable, distributed applications. |

## Oracle Cloud Infrastructure 2025 Developer Professional Sample Questions (Q51-Q56):

**NEW QUESTION # 51**
Who is responsible for patching, upgrading, and maintaining the worker nodes in Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE)? (Choose the best answer.)

- A. It is automated
- B. Oracle Support
- C. Independent Software Vendors
- D. The user

**Answer: D**

Explanation:
The user is responsible for patching, upgrading, and maintaining the worker nodes in Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE). In OKE, the user has control over the worker nodes, which are the compute instances that run the Kubernetes worker components. As the user, you are responsible for managing and maintaining these worker nodes, including tasks such as patching the underlying operating system, upgrading Kubernetes versions, and performing any necessary maintenance activities. While Oracle provides the underlying infrastructure and support services, including managing the control plane and ensuring the availability of the OKE service, the responsibility for managing the worker nodes lies with the user. This allows you to have control and flexibility in managing your Kubernetes environment according to your specific needs and requirements.

**NEW QUESTION # 52**
Assuming that your function does NOT have the --provisioned-concurrency option enabled, which parameter is used to configure the time period during which an idle function will remain in memory before Oracle Functions removes its container image from memory?

- A. None, as this time is not configurable.
- B. timeout
- C. access-timeout

- D. idle-timeout

**Answer: D**

Explanation:
Idle-timeout is the parameter that is used to configure the time period during which an idle function will remain in memory before Oracle Functions removes its container image from memory2. The idle-timeout parameter is specified in seconds and can be set when creating or updating a function2. The default value for idle-timeout is 30 seconds and the maximum value is 900 seconds (15 minutes)2. If a function has the --provisioned-concurrency option enabled, the idle-timeout parameter is ignored and the function instances are always kept in memory3. Verified Reference: Creating Functions, Provisioned Concurrency

**NEW QUESTION # 53**
Your organization has mandated that all deployed container images used for microservices must be signed by a specified master encryption key (MEK). You have appropriately signed the container images as part of your build process, but must now ensure that they are automatically verified when they are deployed to Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE) clusters. Which option should be used to mandate image verification when deploying to OKE clusters, assuming that MEK is already stored in an available OCI Vault? (Choose the best answer.)

- A. Enable image verification policies separately for each OKE cluster because this is enforced at the cluster level. (Correct)
- B. Enable image verification policies separately for each Kubernetes pod deployment because this is enforced at the pod level.
- C. Enable Image verification policies for your OKE service control plane which will enforce this for all OKE clusters.
- D. Enable image verification policies separately for each node pool within each OKE cluster because this is enforced at the node pool level.

**Answer: A**

Explanation:
To mandate image verification when deploying container images to Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE) clusters, you should enable image verification policies separately for each OKE cluster. This is enforced at the cluster level. Enabling image verification policies at the cluster level ensures that all container images deployed to the OKE cluster are automatically verified against the specified master encryption key (MEK). This helps maintain the security and integrity of the deployed microservices by ensuring that only signed and trusted container images are used. Enabling image verification policies at the cluster level allows for consistent and centralized enforcement of the verification process across all nodes and node pools within the cluster. It provides a standardized approach to image verification for the entire cluster, simplifying management and ensuring compliance with the organization's mandate. Enabling image verification policies separately for each node pool or at the pod level would introduce complexity and potential inconsistencies in the verification process. Therefore, enforcing image verification at the cluster level is the recommended approach.

**NEW QUESTION # 54**
Which command is used to get a Docker image from Oracle Cloud Infrastructure Registry (OCIR) to the client machine?

- A. docker pull <tenancy-namespace>/<region-key>.ocir.io/<repo-name>: <tag>
- B. docker fetch <region-key>.ocir.io/<tenancy-namespace>/<repo-name>:<tag>
- C. docker fetch <tenancy-namespace>/<region-key>.ocir.io/<repo-name>:<tag>
- D. docker pull <region-key>.ocir.io/<tenancy-namespace>/<repo-name>: <tag>

**Answer: D**

Explanation:
To pull a Docker image from OCI Registry to the client machine, you need to use the docker pull command with the following syntax1: docker pull <region-key>.ocir.io/<tenancy-namespace>/<repo-name>:<tag> where:
<region-key> is the key for the OCI Registry region you're using. For example, iad. See Availability by Region1.
ocir.io is the OCI Registry name.
<tenancy-namespace> is the auto-generated Object Storage namespace string of the tenancy that owns the repository from which you want to pull the image (as shown on the Tenancy Information page)1.
<repo-name> is the name of the repository that contains the image you want to pull.
<tag> is the tag of the image you want to pull.

**NEW QUESTION # 55**
As a developer, you have been tasked with implementing a microservices-based application. Which THREE technologies are best suited to accomplish the task? (Choose three.)

- A. Service Mesh
- B. Kubemetes
- C. Terraform
- D. Big Data
- E. Docker
- F. Anomaly Detection

**Answer: A,B,E**

Explanation:
The three technologies best suited for implementing a microservices-based application are: Service Mesh: A service mesh is a dedicated infrastructure layer that provides features like service discovery, load balancing, encryption, authentication, and observability for microservices. It helps in managing the communication and interactions between microservices in a scalable and secure manner. Kubernetes: Kubernetes is an open-source container orchestration platform that enables the deployment, scaling, and management of containerized applications. It provides features like automated scaling, service discovery, load balancing, and self-healing capabilities, which are essential for managing microservices in a distributed environment. Docker: Docker is a popular containerization platform that allows packaging applications and their dependencies into lightweight containers. It provides a consistent and portable environment for running microservices, enabling easy deployment and scalability. Docker also facilitates isolation and resource efficiency, making it an ideal choice for deploying microservices. While Big Data, Anomaly Detection, and Terraform are valuable technologies, they are not specifically focused on enabling the implementation of microservices-based applications.

**NEW QUESTION # 56**
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