

Oracle 1Z0-1084-25 Valid Exam Guide: Oracle Cloud Infrastructure 2025 Developer Professional - Exam4Tests Easy to Pass



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The content of our 1Z0-1084-25 exam questions emphasizes the focus and seizes the key to use refined 1Z0-1084-25 questions and answers to let the learners master the most important information by using the least amount of them. And we provide varied functions to help the learners learn our 1Z0-1084-25 Study Materials and prepare for the exam. The 1Z0-1084-25 self-learning and self-evaluation functions help the learners find their weak links and improve them promptly.

Oracle 1Z0-1084-25 Exam Syllabus Topics:

Topic	Details
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	• 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 3	• 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 4	• 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.
Topic 5	• 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.

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Oracle Cloud Infrastructure 2025 Developer Professional Sample Questions (Q17-Q22):

NEW QUESTION # 17

You developed a microservices-based application that runs in an Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE) cluster. It has multiple endpoints that need to be exposed to the public internet. What is the most cost-effective way to expose multiple application endpoints without adding unnecessary complexity to the application?

- A. Use a NodePort service type in Kubernetes for each of your service endpoints using the node's public IP address to access the applications.
- B. Use a ClusterIP service type in Kubernetes for each of your service endpoints using a load balancer to expose the endpoints.
- **C. Deploy an Ingress Controller and use it to expose each endpoint with its own routing endpoint.**
- D. Create a separate load balancer instance for each service using the lowest 100 Mbps option.

Answer: C

Explanation:

An Ingress Controller is a Kubernetes resource that provides advanced routing and load balancing for your applications running on a Kubernetes cluster¹. An Ingress Controller allows you to define rules that specify how to route traffic to different services in your cluster based on the host name or path of the incoming request¹. By deploying an Ingress Controller and using it to expose multiple application endpoints, you can achieve the following benefits¹:

Cost-effectiveness: You only need to create one load balancer instance per cluster, instead of one per service, which reduces the cost of exposing your applications.

Simplicity: You only need to manage one set of routing rules for all your services, instead of configuring each service separately, which simplifies the application deployment and maintenance.

Flexibility: You can use different types of Ingress Controllers, such as NGINX or Traefik, that offer various features and customization options for your routing needs.

NEW QUESTION # 18

You are using Oracle Cloud Infrastructure (OCI) Resource Manager to manage your infrastructure lifecycle and wish to receive an email each time a Terraform action begins. How should you use the OCI Events service to do this without writing any code?

- A. Create a rule in OCI Events service matching the "Resource Manager Stack - Update" condition. Then select "Action Type: Email" and provide the destination email address.
- **B. Create an OCI Notification topic and email subscription with the destination email address. Then create an OCI Events rule matching "Resource Manager Job - Create" condition, and select the notification topic for the corresponding action.**
- C. Create an OCI Notifications topic and email subscription with the destination email address. Then create an OCI Events rule matching "Resource Manager Stack - Update" condition, and select the notification topic for the corresponding action.
- D. Create an OCI Email Delivery configuration with the destination email address. Then create an OCI Events rule matching "Resource Manager Job - Create" condition, and select the email configuration for the corresponding action.

Answer: B

Explanation:

The correct approach to receive an email each time a Terraform action begins in Oracle Cloud Infrastructure (OCI) Resource Manager without writing any code is as follows: Create an OCI Notification topic and email subscription with the destination email

address. This will define the email delivery configuration. Create an OCI Events rule that matches the "Resource Manager Job - Create" condition. This rule will be triggered when a Resource Manager job is created. In the OCI Events rule, select the notification topic that was created in step 1 as the action for the corresponding event. This will ensure that the notification is sent to the specified email address. By following these steps, you can configure the OCI Events service to send an email notification whenever a Resource Manager job is created in OCI Resource Manager.

NEW QUESTION # 19

You have two microservices, A and B, running in production. Service A relies on APIs from service B. You want to test changes to service A without deploying all of its dependencies, which include service B. Which approach should you take to test service A?

- A. Test the APIs in private environments.
- B. There is no need to explicitly test APIs.
- **C. Test using API mocks.**
- D. Test against production APIs.

Answer: C

Explanation:

API mocking is a technique that simulates the behavior of real APIs without requiring the actual implementation or deployment of the dependent services¹. API mocking allows you to test changes to service A without deploying all of its dependencies, such as service B, by creating mock responses for the APIs that service A relies on¹. API mocking has several benefits, such as¹:

Faster testing: You can test your service A without waiting for service B to be ready or available, which reduces the testing time and feedback loop.

Isolated testing: You can test your service A in isolation from service B, which eliminates the possibility of external factors affecting the test results or causing errors.

Controlled testing: You can test your service A with different scenarios and edge cases by creating mock responses that mimic various situations, such as success, failure, timeout, etc.

NEW QUESTION # 20

A service you are deploying to Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE) uses a docker image from a private repository in OCI Registry (OCIR). Which configuration is necessary to provide access to this repository from OKE?

- A. Create a docker-registry secret for OCIR with API key credentials on the cluster, and specify the `imagePullSecret` property in the application deployment manifest.
- **B. Create a docker-registry secret for OCIR with identity Auth Token on the cluster, and specify the `imagePullSecret` property in the application deployment manifest.**
- C. Add a generic secret on the cluster containing your identity credentials. Then specify a `registryCredentials` property in the deployment manifest.
- D. Create a dynamic group for nodes in the cluster, and a policy that allows the dynamic group to read repositories in the same compartment.

Answer: B

Explanation:

The necessary configuration to provide access to a private repository in OCI Registry (OCIR) from OCI Container Engine for Kubernetes (OKE) is to create a docker-registry secret for OCIR with an identity Auth Token on the cluster and specify the `imagePullSecret` property in the application deployment manifest. Here's the breakdown of the steps: Create a docker-registry secret for OCIR with an identity Auth Token: In order to authenticate with the private repository in OCIR, you need to create a secret in your OKE cluster that contains the necessary credentials. This can be done by generating an identity Auth Token from the OCI Console and creating a secret in the cluster using the `kubectl` command. Specify the `imagePullSecret` property in the application deployment manifest: In your application's deployment manifest (such as a Kubernetes Deployment or StatefulSet YAML file), you need to include the `imagePullSecret` property and specify the name of the secret you created in the previous step. This allows the OKE cluster to use the credentials from the secret to pull the docker image from the private repository in OCIR during deployment. By following these steps, you can ensure that your OKE cluster has the necessary access to the private repository in OCIR, and your application can successfully pull the required docker image during deployment.

NEW QUESTION # 21

You deployed a Python application to an Oracle Container Engine for Kubernetes (OKE) cluster. However, while testing you found a bug, which you rectified and then created a new Docker image. You now need to ensure that if this new image does not work once deployed, you should be able to roll back to the previous version. Using `kubectl`, which strategy should you use?

- A. Rolling Update
- B. A/B Testing
- C. Canary Deployment
- D. Blue/Green Deployment

Answer: A

Explanation:

A rolling update is a deployment strategy that gradually replaces the old version of an application with the new version without any downtime⁴. OKE supports rolling updates by using the `kubectl rollout` command⁴. A rolling update allows you to roll back to the previous version if something goes wrong with the new version⁴. Therefore, using a rolling update strategy with `kubectl` ensures that you can roll back to the previous version of your Python application if the new image does not work once deployed. Verified Reference: Deploy Oracle Container Engine for Kubernetes

NEW QUESTION # 22

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