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Oracle 1Z0-1084-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 4	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

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

NEW QUESTION # 27

Your team has chosen to use master encryption key (MEK) within an Oracle Cloud Infrastructure (OCI) Vault for encrypting Kubernetes secrets associated with your microservice deployments in OCI Container Engine for Kubernetes (OKE) clusters so that you can easily manage key rotation. Which of the following is NOT valid about rotating keys in the OCI Vault service?

- A. Both software and HSM-protected MEKS can be rotated.
- B. Each key version is tracked internally with separate unique OCIDS.
- C. When you rotate an MEK, a new key version is automatically generated.
- D. Once rotated, older key versions can be used for encryption until they are deleted.

Answer: D

Explanation:

The correct answer is: "Once rotated, older key versions can be used for encryption until they are deleted." The statement that is NOT valid about rotating keys in the OCI Vault service is: "Once rotated, older key versions can be used for encryption until they are deleted." In the OCI Vault service, when you rotate a master encryption key (MEK), a new key version is automatically generated. However, once a key is rotated and a new version is created, the older key versions are no longer usable for encryption. The purpose of key rotation is to ensure that the encryption keys are regularly updated and that older keys are no longer used to protect sensitive data. This enhances security by minimizing the impact of potential key compromises. The other statements mentioned are valid: Both software and hardware security module (HSM)-protected MEKS can be rotated. This provides flexibility in choosing the type of MEK and ensures that key rotation can be performed regardless of the encryption method used. Each key version is tracked internally with separate unique OCIDs (Oracle Cloud Identifiers). This allows for easy management and tracking of different key versions within the OCI Vault service. In summary, the statement that is NOT valid is the one suggesting that older key versions can still be used for encryption until they are deleted. Key rotation is designed to ensure the use of the latest key version and to retire older key versions to enhance security.

NEW QUESTION # 28

A developer has created another version of a microservice and wants 10% of the traffic to flow towards it for testing purposes. The application is already configured using OCI (Oracle Cloud Infrastructure) Service Mesh. Which of the following steps is the right approach to achieve this goal?

- A. Create a new entry in the routeRules field of the virtual service route table manifest to configure traffic splitting between the old and new versions of the microservice and set the percentage to 10%.
- B. Create a new Kubernetes deployment for the new version of the microservice and set the traffic splitting percentage to

10% in the Kubernetes service manifest.

- C. Use Kubernetes HPA (Horizontal Pod Autoscaler) to scale the new version of the microservice to handle 10% of the traffic automatically.
- D. Create a new entry in the routeRules field of the ingress gateway route table manifest to configure traffic splitting between the old and new versions of the microservice and set the percentage to 10%.

Answer: A

NEW QUESTION # 29

You are developing a microservices application that will be a consumer of the Oracle Cloud Infrastructure (OCI) Streaming service. Which API method should you use to read and process a stream?

- A. ReadStream
- B. ProcessStream
- C. GetStream
- D. GetMessages
- E. ReadMessages

Answer: D

Explanation:

The correct API method to read and process a stream in the Oracle Cloud Infrastructure (OCI) Streaming service is "GetMessages". When consuming messages from a stream in OCI Streaming, you use the "GetMessages" API method. This method allows you to retrieve a batch of messages from the stream for processing. You can specify parameters such as the number of messages to retrieve, the maximum size of the messages, and the timeout for the request. By using the "GetMessages" API method, you can retrieve messages from the stream and then process them in your microservices application. This allows you to consume and handle the data in real-time as it becomes available in the stream. The "GetMessages" method provides flexibility in how you consume and process the messages, enabling you to implement custom logic and workflows based on your specific application requirements.

NEW QUESTION # 30

You need to push a new Docker container image to a repository in the Oracle Cloud Infrastructure (OCI) Registry. Which mechanism must you use to provide authentication?

- A. Generate an API signing key to complete the authentication via the OCI CLI.
- B. Generate an Auth Token to complete the authentication via the Docker CLI.
- C. Generate an API signing key to complete the authentication via the Docker CLI.
- D. Generate an Auth Token to complete the authentication via the OCI CLI.

Answer: B

Explanation:

To push a new Docker container image to a repository in OCI Registry, you need to use an Auth Token to complete the authentication via the Docker CLI¹. An Auth Token is a secure, auto-generated password that you can use to authenticate with OCI services such as OCI Registry¹. You can generate an Auth Token in the Console by following these steps¹:

In the top-right corner of the Console, open the Profile menu and then click User settings to view the details.

On the Auth Tokens page, click Generate Token.

Enter a friendly description for the auth token. Avoid entering confidential information.

Click Generate Token. The new auth token is displayed.

Copy the auth token immediately to a secure location from where you can retrieve it later, because you won't see the auth token again in the Console.

Close the Generate Token dialog. After generating an Auth Token, you need to log in to OCI Registry by entering docker login <region-key>.ocir.io in a terminal window on the client machine running Docker, where <region-key> corresponds to the key for the OCI Registry region you're using¹. When prompted for a username, enter your username in the format <tenancy-namespace>/<username>, where <tenancy-namespace> is the auto-generated Object Storage namespace string of your tenancy¹. When prompted for a password, enter the Auth Token you copied earlier¹.

NEW QUESTION # 31

(CHK_1>3) You have an e-commerce application that loads customers' transactional data into the Oracle Cloud Infrastructure (OCI) Streaming service. The data must now be extracted and transformed before sending it to a third-party REST endpoint. You have been directed to leverage the OCI Service Connector Hub to automate this process. Which configuration option would address this requirement?

- A. Configure a new service connector as follows: * Source: Streaming * Task: Functions * Target: API Gateway
- B. Configure a new service connector as follows: * Source: Streaming * Task: API Gateway * Target: Functions
- C. Configure a new service connector as follows: * Source: Streaming * Task: Functions * Target: Functions
- **D. Configure a new service connector as follows: * Source: Streaming * Task: None * Target: Notifications**
- E. Configure a new service connector as follows: * Source: Streaming * Task: API Gateway * Target: Notifications

Answer: D

Explanation:

To address the requirement of extracting and transforming data from the Oracle Cloud Infrastructure (OCI) Streaming service and sending it to a third-party REST endpoint using the OCI Service Connector Hub, the best configuration option is: Configure a new service connector as follows: * Source: Streaming * Task: None * Target: Notifications By selecting the Streaming service as the source, you can capture the transactional data from the stream. Since there is a need to transform and send the data to a third-party REST endpoint, you don't need to specify any specific task in the connector. The target is set to Notifications, which allows you to send the transformed data to an endpoint outside of the OCI environment. Notifications can be configured to deliver the data to various supported destinations, including HTTP endpoints, email addresses, and more. This configuration enables you to automate the process of extracting data from the streaming service and sending it to the desired third-party REST endpoint, fulfilling the requirement of extracting, transforming, and forwarding the data.

NEW QUESTION # 32

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