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Oracle 1Z0-1084-25 Exam Syllabus Topics:

Topic	Details

Topic 1	<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.
Topic 2	<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 3	<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 4	<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 5	<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.

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Oracle Cloud Infrastructure 2025 Developer Professional Sample Questions (Q36-Q41):

NEW QUESTION # 36

What is the open source engine for Oracle Functions?

- A. OpenFaaS
- B. Fn Project**
- C. Apache OpenWhisk
- D. Knative

Answer: B

Explanation:

The Fn Project is an open source serverless computing platform that serves as the engine for Oracle Functions. It provides a runtime environment for executing functions in a serverless architecture. The Fn Project enables developers to build and deploy functions using different programming languages, including Java, Python, Node.js, and more. The Fn Project is designed to be flexible and extensible, allowing developers to define functions as small units of code and execute them in response to events or triggers. It

supports event-driven execution, allowing functions to be triggered by various events such as HTTP requests, messages from messaging systems, or changes in data. Oracle Functions leverages the Fn Project as its underlying engine, providing a managed serverless platform within the Oracle Cloud Infrastructure. It allows developers to easily develop, deploy, and manage functions using the familiar Fn Project framework and tooling. With Oracle Functions, developers can focus on writing their function code while leaving the infrastructure management, scaling, and operational tasks to the platform.

NEW QUESTION # 37

Which of these is NOT a valid authentication method for accessing an OCI API Gateway deployment?

- A. HTTP Basic
- **B. SAML Token**
- C. API Key
- D. OAuth

Answer: B

Explanation:

OCI API Gateway supports the following authentication methods for accessing an API deployment³:

HTTP Basic: The client sends a username and password with each request. The credentials are validated against a user database in Oracle Identity Cloud Service (IDCS).

API Key: The client sends an API key with each request. The API key is validated against a list of keys stored in IDCS or OCI Vault.

OAuth: The client obtains an access token from an authorization server (such as IDCS) and sends it with each request. The access token is validated against the authorization server and optionally checked for required scopes.

JWT Token: The client obtains a JSON Web Token (JWT) from an identity provider (such as IDCS or OCI IAM) and sends it with each request. The JWT is validated against the identity provider's public key and optionally checked for required claims. SAML Token is not a valid authentication method for accessing an OCI API Gateway deployment. SAML is an XML-based standard for exchanging authentication and authorization data between different parties, such as a service provider and an identity provider⁴.

SAML tokens are typically used for web browser single sign-on (SSO) scenarios, not for API access⁴.

NEW QUESTION # 38

With the volume of communication that can happen between different components in cloud-native applications, it is vital to not only test functionality, but also service resiliency. Which statement is true regarding service resiliency?

- A. Resiliency testing can be done only in a test environment.
- **B. Resiliency is about recovering from failures without downtime or data loss.**
- C. Resiliency is about avoiding failures.
- D. Resiliency is about not bringing a service to a functioning state after a failure.

Answer: B

Explanation:

The correct answer is: "Resiliency is about recovering from failures without downtime or data loss." Service resiliency, in the context of cloud-native applications, is the ability of a service or system to recover from failures and continue functioning without downtime or data loss. It involves designing and implementing mechanisms to handle failures, such as network outages, hardware failures, or software errors, in a way that minimizes the impact on the overall system. The goal of resiliency is to ensure that the application or service can continue to operate and provide a certain level of functionality, even in the face of failures. This typically involves techniques such as redundancy, fault tolerance, and graceful degradation. By implementing resiliency measures, a cloud-native application can recover and adapt to failures, maintain availability, and preserve data integrity. The other statements are not accurate regarding service resiliency: Resiliency is not about not bringing a service to a functioning state after a failure. Instead, it is about recovering from failures and ensuring continued functionality. Resiliency is not about avoiding failures entirely. While it is desirable to prevent failures, resiliency focuses on the ability to handle and recover from failures when they do occur. Resiliency testing is not limited to a test environment. It is important to test and validate the resiliency measures in both test environments and production environments to ensure the application can effectively handle failures in real-world scenarios.

NEW QUESTION # 39

A company is developing a new application that needs to process transactions in real time. The company wants to ensure that all

transactions are processed in order and that no transaction is lost. Which of these is a correct strategy for leveraging OCI Queue in this scenario?

- A. Use a separate queue for each type of transaction.
- B. Use a separate queue for each application instance.
- C. Use a priority queue to prioritize requests.
- D. Use a single queue to process all transactions.

Answer: D

Explanation:

OCI Queue is a service for enabling asynchronous (decoupled) communication in a serverless manner. Queue handles high-volume transactional data that requires independent processing without loss or duplication. Queue supports ordering of messages within a queue by using the FIFO (first-in-first-out) delivery option. Therefore, using a single queue to process all transactions ensures that all transactions are processed in order and that no transaction is lost. Verified Reference: Overview of Queue

NEW QUESTION # 40

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 includes service B. Which approach should you take to test service A?

- A. Test using a previous test version of service B.
- B. Test using an API mock of service B.
- C. Test using the current production version of service B.
- D. This is not possible because service B is a dependency.

Answer: B

Explanation:

The correct answer is: Test using an API mock of service B. To test service A without deploying all of its dependencies, including service B, you can use an API mock of service B. An API mock is a simulated version of the API that mimics the behavior of the actual service. By using an API mock, you can isolate the testing of service A and simulate the responses and behavior of service B's APIs. With an API mock, you can define the expected responses and behavior of service B's APIs, allowing you to test the integration between service A and the mocked version of service B. This approach enables you to verify the functionality of service A without relying on the availability or changes in the actual service B. By decoupling the dependencies and using an API mock, you can perform independent testing of service A, ensuring its functionality in isolation.

NEW QUESTION # 41

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