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Oracle Cloud Infrastructure 2022 Developer Professional

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QUESTION 1

You encounter an unexpected error when invoking the Oracle Function named "myfunction" in application "myapp". Which can you use to get more information on the error?

- A. `fn --debug invoke myapp myfunction`
- B. `DEBOG=1 fn invoke myapp myfunction`
- C. `fn --verbose invoke myapp myfunction`
- D. Call Oracle support with your error message

Correct Answer: B

Troubleshooting Oracle Functions

If you encounter an unexpected error when using an Fn Project CLI command, you can find out more about the problem by starting the command with the string `DEBUG=1` and running the command again. For example:

```
$ DEBUG=1 fn invoke helloworld-app helloworld-func
```

Note that `DEBUG=1` must appear before the command, and that `DEBUG` must be in upper case.

QUESTION 2

A leading insurance firm is hosting its customer portal in Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes with an OCI Autonomous Database. Their support team discovered a lot of SQL injection attempts and cross-site

scripting attacks to the portal, which is starting to affect the production environment.

What should they implement to mitigate this attack?

- A. Network Security Lists
- B. Network Security Groups
- C. Network Security Firewall
- D. Web Application Firewall

Correct Answer: D

Oracle Cloud Infrastructure Web Application Firewall (WAF) is a cloud-based, Payment Card Industry (PCI) compliant, global security service that protects applications from malicious and unwanted internet traffic. WAF can protect any

internet facing endpoint, providing consistent rule enforcement across a customer's applications.

WAF provides you with the ability to create and manage rules for internet threats including Cross- Site Scripting (XSS), SQL Injection and other OWASP-defined vulnerabilities. Unwanted bots can be mitigated while tactically allowed

desirable

bots to enter. Access rules can limit based on geography or the signature of the request.

QUESTION 3

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 with regards to service resiliency?

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

Correct Answer: D

Resiliency and Availability

Resiliency and availability refers to the ability of a system to continue operating, despite the failure or sub-optimal performance of some of its components.

In the case of Oracle Functions:

The control plane is a set of components that manages function definitions. The data plane is a set of components that executes functions in response to invocation requests. For resiliency and high availability, both the control plane and data plane components are distributed across different availability domains and fault domains in a region. If one of the domains ceases to be available, the components in the remaining domains take over to ensure that function definition management and execution are not disrupted. When functions are invoked, they run in the subnets specified for the application to which the functions belong. For resiliency and high availability, best practice is to specify a regional subnet for an application (or alternatively, multiple AD-specific subnets in different availability domains). If an availability domain specified for an application ceases to be available, Oracle Functions runs functions in an alternative availability domain.

QUESTION 4

Which is NOT a supported SDK on Oracle Cloud Infrastructure (OCI)?

- A. Ruby SDK
- B. Java SDK
- C. Python SDK
- D. Go SDK
- E. .NET SDK

Correct Answer: E

<https://docs.cloud.oracle.com/en-us/iaas/Content/API/Concepts/sdks.htm>

QUESTION 5

Who is responsible for patching, upgrading and maintaining the worker nodes in Oracle Cloud Infrastructure Container Engine for Kubernetes (OKE)?

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

Correct Answer: D

After a new version of Kubernetes has been released and when Container Engine for Kubernetes supports the new version, you can use Container Engine for Kubernetes to upgrade master nodes running older versions of Kubernetes. Because Container Engine for Kubernetes distributes the Kubernetes Control Plane on multiple Oracle-managed master nodes (distributed across different availability domains in a region where supported) to ensure high availability, you're able to upgrade the Kubernetes version running on master nodes with zero downtime. Having upgraded master nodes to a new version of Kubernetes, you can subsequently create new node pools running the newer version. Alternatively, you can continue to create new node pools that will run older versions of Kubernetes (providing those older versions are compatible with the Kubernetes version running on the master nodes). Note that you upgrade master nodes by performing an `in-place` upgrade, but you upgrade worker nodes by performing an `out-of-place` upgrade. To upgrade the version of Kubernetes running on worker nodes in a node pool, you replace the original node pool with a new node pool that has new worker nodes running the appropriate Kubernetes version. Having `drained` existing worker nodes in the original node pool to prevent new pods starting and to delete existing pods, you can then delete the original node pool.

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