

300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms
(DEVOPS)

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QUESTION 1

A developer is creating an application based on microservices. The application will be used as a central repository for all company's documents. One of the microservices in the application will perform image processing. This microservice must autoscale to meet the current load and avoid down time.

Which metric must be used to trigger autoscaling events?

- A. network
- B. CPU/GPU
- C. disk I/O
- D. memory

Correct Answer: B

QUESTION 2

An application is being developed to be used by the HR department of a company on a global scale. The application will be used as a central repository for employee contracts. For user access, a RADIUS server will be used with authorized user groups.

Which action must be used to prevent developers from accidentally committing secrets in the code?

- A. Add a unit test to block the secrets
- B. Add a precommit Git hook to block the secrets
- C. Add dast to the repository to block the secrets
- D. Add a job in the CI build to block the secrets

Correct Answer: A

QUESTION 3

Configuration changes to the production network devices are performed by a CI/CD pipeline. The code repository and the CI tool are running on separate servers. Some configuration changes are pushed to the code repository, but the pipeline did not start.

Why did the pipeline fail to start?

- A. The CI server was not configured as a Git remote for the repository.
- B. The webhook call from the code repository did not reach the CI server.
- C. Configuration changes must be sent to the pipeline, which then updates the repository.
- D. The pipeline must be started manually after the code repository is updated.

Correct Answer: B

A webhook is basically a callback URL that is triggered when certain events occur, such as a code commit. If the webhook call from the code repository does not reach the CI server, then the pipeline will not start. According to the Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, "A webhook is a web-based feature that enables a remote service to communicate with a local service, usually through a web server. Webhooks are used to trigger an action when a specific event occurs, usually in a remote service or application."

QUESTION 4

What is a capability of node-level logging in Kubernetes?

- A. Using the Kubernetes JSON logging driver enables log persistence
- B. Output that is written to stdin is retrieved by using kubectI
- C. Output that is written to stderr is not logged or retrievable by using kubectI
- D. Using the local logging driver of Docker enables log persistence

Correct Answer: D

QUESTION 5

An IT team plans to deploy a new service built on top of an existing service. The capacity needed for the new service is difficult to estimate because the demand for the new service is undetermined. The team has these deployment requirements:

1.
A subset of the users of the original service must be migrated to the new service based on their profile
2.
The new service must be rolled back easily if capacity exceeds estimates

Which deployment strategy must be used?

- A. rolling
- B. blue/green
- C. geolocation
- D. canary

Correct Answer: D

QUESTION 6

What is as responsibility for teams running private cloud servers that is less of a concern when running in the public

cloud?

- A. cost
- B. metrics and monitoring
- C. hardware maintenance
- D. credentials management

Correct Answer: D

The responsibility of credentials management is less of a concern when running in the public cloud. This is because the public cloud provider typically manages the credentials and handles authentication and authorization for the cloud services. In a private cloud environment, the organization must manage the credentials themselves, as well as authentication and authorization for the cloud services. References: Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, Chapter 2, Section 2.1: Cloud Computing Models, Page 14-15.

QUESTION 7

What are two advantages of using Configuration Management Tools? (Choose two.)

- A. reduction in policy violations caused by human errors
- B. reduction in administration costs
- C. reduction in network changes already performed automatically
- D. reduction of on-premises networking equipment
- E. reduction in networking team skills

Correct Answer: AB

Configuration Management Tools allow for automated configuration of networking equipment, which helps to reduce human errors and the time and money needed to manage and configure the equipment. For example, Cisco Configuration Professional (CCP) is a configuration management tool that provides automated configuration, validation, and troubleshooting of network infrastructure devices. CCP enables administrators to configure and deploy network changes quickly and efficiently, while also reducing the costs associated with manual configuration and troubleshooting.

QUESTION 8

A DevOps engineering wants to build an application implementation based on the CI/CD pipeline model. Which service should be used to provide hosted continuous service for open and private projects?

- A. Ansible
- B. pyATS
- C. Genie CLI
- D. Travis CI

Correct Answer: D

QUESTION 9

Which type of security testing should be performed as a part of a CI/CD pipeline by analyzing the source code itself without compiling the code into a running executable?

- A. Dynamic Application Security Testing
- B. Runtime Application Health-Protection
- C. Continuous Application Security Testing
- D. Static Analysis Security Testing

Correct Answer: D

QUESTION 10

Refer to the exhibit.

```
---
kind: pipeline
name: test1
platform:
  os: linux
  arch: amd64
steps:
- name: test
  image: postgres:9-alpine
  commands:
  - sleep 10
  - psql -U postgres -d test -h database -c "SELECT version();"
services:
- name: database
  image: postgres
  environment:
    POSTGRES_DB: test
    POSTGRES_USER: postgres
---
kind: pipeline
name: test2
platform:
  os: linux
  arch: amd64
steps:
- name: test
  image: postgres:9-alpine
  commands:
  - sleep 10
  - psql -U postgres -d test -h database -c "SELECT version();"
services:
- name: database
  image: postgres
  environment:
    POSTGRES_DB: test
    POSTGRES_USER: postgres
```

What is the reason for this error message?

- A. The required dependencies for the urllib3 module are not installed.
- B. The requests module is not installed.
- C. The required dependencies for the requests module are not installed.
- D. The site-packages directory has been corrupted.

Correct Answer: C

QUESTION 11

What is the purpose of using a build tool in software development?

- A. It compiles source code into binaries and executables.
- B. It provides a way to edit source code using a graphical interface.
- C. It is a manual process that is followed to build software.
- D. It tracks bugs and incidents in a built application.

Correct Answer: A

QUESTION 12

What is the effective way to manage computing costs in a public cloud?

- A. Monitor data transfers to minimize cost.
- B. Use dedicated hardware for all instances.
- C. Select the largest instance option available in order to pay for only one instance.
- D. Make use of elastic services and scale on demand.

Correct Answer: D

QUESTION 13

Which two elements help to secure your API keys? (Choose two.)

- A. randomness
- B. SHA1
- C. triple AES
- D. rotation
- E. dictionary

Correct Answer: AC

QUESTION 14

When DevOps practices are integrated into an existing organization, which two characteristics are positive indicators of

DevOps maturity? (Choose two.)

- A. mean time between success
- B. mean time to recover
- C. cone testing
- D. change lead time
- E. age of codebase

Correct Answer: BD

Change lead time is the amount of time it takes for a proposed change to go from the idea phase to being fully deployed in production. This metric can be used to measure the speed and efficiency with which changes are implemented, which is often indicative of an organization's DevOps maturity. Mean time to recover (MTTR) is the average amount of time it takes to restore a service or application to its working state when an issue arises. MTTR is an important metric for measuring the resilience of an organization's infrastructure, and is another indicator of DevOps maturity. (Source: Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual Chapter 1, Understanding DevOps)

QUESTION 15

FILL BLANK

Fill in the blanks to complete the statement.

When creating multiple containers, in order to allow communication with each other, you must create a _____ of type _____ .

Correct Answer: pod, volume

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