

300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms
(DEVOPS)

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QUESTION 1

An IT department needs to deploy a new application named `Entfin434772390\` across the entire enterprise. The deployment must gradually transfer user traffic from an on older and nearly identical version of the application named `Entfin02754932\`. Both versions of the application are running in the production environment.

Which release strategy should be used by the IT department?

- A. agile
- B. canary
- C. rollbacks
- D. blue/green

Correct Answer: B

QUESTION 2

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 3

Which method is a safe way to provide a username/password combination to an application running as a service in a Docker container?

- A. encode the value with base64 in a secure DNS CTEXT entry
- B. as an environment variable in the Dockerfile
- C. Docker environment variable
- D. Docker secrets

Correct Answer: D

a docker secret is a blob of data, such as a password, SSH private key, SSL certificate, or another piece of data that should not be transmitted over a network or stored unencrypted in a Dockerfile or in your application's source code

QUESTION 4

Which two practices help make the security of an application a more integral part of the software development lifecycle? (Choose two.)

- A. Add a step to the CI/CD pipeline that runs a dynamic code analysis tool during the pipeline execution.
- B. Add a step to the CI/CD pipeline that runs a static code analysis tool during the pipeline execution.
- C. Use only software modules that are written by the internal team.
- D. Add a step to the CI/CD pipeline to modify the release plan so that updated versions of the software are made available more often.
- E. Ensure that the code repository server has enabled drive encryption and stores the keys on a Trusted Platform Module or Hardware Security Module.

Correct Answer: AB

Adding a step to the CI/CD pipeline that runs a dynamic code analysis tool and a static code analysis tool during the pipeline execution helps make the security of an application a more integral part of the software development lifecycle. Dynamic code analysis tools search for coding errors and vulnerabilities while the application is running, while static code analysis tools scan the source code for potential errors and vulnerabilities. This ensures that any security issues are identified and addressed before the application is deployed. Additionally, using automated tools helps to reduce the amount of manual effort required for security testing and can reduce the risk of security flaws being introduced.

QUESTION 5

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 6

A DevOps engineer has built a new container and must open port 8080 for intercontainer communication. Which command must be added in a Dockerfile to accomplish this goal?

- A. EXPOSE 8080
- B. FIREWALL ADD-PORT 8080
- C. PORT 8080
- D. OPEN PORT 8080

Correct Answer: A

QUESTION 7

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 8

DRAG DROP

An application is being built to collect and display telemetry streaming data. Drag and drop the elements of this stack from the left onto the correct functions on the right.

Select and Place:

Answer Area

IOS-XE Device	visualization platform
Elasticsearch	data collector
Kibana	data generator
Python Application	datastore

Correct Answer:

Answer Area

	Kibana
	Python Application
	IOS-XE Device
	Elasticsearch

QUESTION 9

Which Kubernetes object is used to create a ClusterIP or NodePort?

- A. service
- B. pod
- C. deployment
- D. loadbalancer

Correct Answer: A

QUESTION 10

What is a benefit of monitoring the CI/CD pipeline?

- A. troubleshoots distributed systems performance
- B. proactively deploys new servers if needed
- C. analyzes network outages that affect the network and server infrastructure
- D. provides insight into how efficiently the development team is operating

Correct Answer: D

QUESTION 11

A company has a CI/CD pipeline implemented to automate application deployment. An urgent change is required in the production environment. A developer produces and tests the required change in the company's environment, but the pipeline fails when pushed.

Which action conforms to the rules of a CI/CD pipeline and enables the pipeline to pass?

- A. Remove the failing test.
- B. Manually deploy the change into the production environment
- C. Use a backup pipeline
- D. Replicate the production environment in the pipeline before applying

Correct Answer: D

This ensures that the change is applied in the same environment that it was tested in, and that the pipeline will pass. This is in accordance with the rule of a CI/CD pipeline that states that the same environment should be used for testing and deploying code into production. As stated in the Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, "the same environment should be used for testing and deploying code into production, or the pipeline will fail."

QUESTION 12

A development team uses Kubernetes for application development. Any changes on ConfigMap are performed manually for each development, test, and production environment. The edits are performed to deploy applications. This approach causes inconsistent deployments across all environments.

Which practice improves the consistency of the deployments?

- A. Implement environment variables within the ConfigMaps and store the variable definitions separately from the master branch where the ConfigMaps are stored
- B. Generate the ConfigMaps specific to the environment by using a templating language such as Jinja2 and store the ConfigMaps in unique branches of a repository
- C. In the master branch where the ConfigMaps are stored, create a branch for each environment that contains an

environment-specific ConfigMap.

D. Create a unique repository for each environment that contains ConfigMaps for that environment to ensure that each environment can be deployed independently

Correct Answer: A

QUESTION 13

Which description of a canary deployment is true?

- A. deployment by accident
- B. deployment that is rolled back automatically after a configurable amount of minutes
- C. deployment relating to data mining development
- D. deployment to a limited set of servers or users

Correct Answer: D

QUESTION 14

DRAG DROP

The IaC configuration for an application is being deployed using a CI/CD pipeline. Drag and drop the steps for this pipeline from the left into the correct order that they would be executed on the right. Not all options are used.

Select and Place:

Answer Area

Integration test of the most recent configurations is performed.	step 1
The CI tool is notified of an update.	step 2
The code repository is updated by a user.	step 3
The pipeline notifies the repository to run tests.	step 4
The configuration changes are pushed to devices.	

Correct Answer:

Answer Area

Integration test of the most recent configurations is performed.	The code repository is updated by a user.
	The CI tool is notified of an update.
	The pipeline notifies the repository to run tests.
	The configuration changes are pushed to devices.

QUESTION 15

Which two characteristics of a build tool that is used in an automated build pipeline? (Choose two.)

- A. It runs unit tests against code that is committed.
- B. It builds your software on the production environment.
- C. It builds your software when changes are committed.
- D. It builds your software every 500 milliseconds.
- E. It must have a plug-in for Puppet and Maven.

Correct Answer: BC

The two characteristics of a build tool that is used in an automated build pipeline are A) it builds your software when changes are committed and B) it runs unit tests against code that is committed. Automated build tools are used to detect changes to source code and then build the software that resulted from the change. Additionally, these tools can be configured to run unit tests against the code to ensure that it works as expected.

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