

300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms
(DEVOPS)

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QUESTION 1

A DevOps engineer must build a Docker image to containerize an application. Then the image must be pushed to a repository on Docker Hub in a CI/CD pipeline using GitHub Actions.

Which approach securely encrypts the Docker Hub access token as an environment variable within the CI/CD pipeline?

- A. Store the access token with GitHub environment variables
- B. Store the access token with GitHub encrypted secrets
- C. Store the access token in an environment file in the repository
- D. Hard code the access token in the repository with Base64 encoding

Correct Answer: B

QUESTION 2

A team must roll out updates on the production instance of an application. To avoid any service down time, the new version must be released alongside the old version. After the team ensures that the new version operates as it should, traffic will be redirected to the new version. Then the old version will be shut down.

Which deployment strategy must be used?

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

Correct Answer: B

The new version of the application is deployed to one of the environments, and then traffic is gradually shifted to the updated environment. This strategy allows the team to test the new version before releasing it to the public, ensuring that it is operating as expected. After the new version is tested and approved, traffic is fully shifted to the new environment and the old environment is shut down.

QUESTION 3

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 4

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 5

A developer is nearing the end of a software development cycle and is ready to deploy the software. The customer wants to continue using a secure software development lifecycle methodology and must plan for postproduction components. Which two areas should be the developer address? (Choose two.)

- A. performing code reviews
- B. requirement gathering
- C. change management process
- D. new code scanning
- E. rollback plans

Correct Answer: AD