

300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms
(DEVOPS)

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QUESTION 1

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 2

A new banking application is being developed as the main currency exchange resource for all the customers on a global scale. The application must comply with the security based on the deployed region. Therefore, the CI/CD pipeline must be created with the highest security possible.

Which approach accomplishes this goal?

- A. Give the accounts used in the CI/CD pipeline full administrative rights to all applications
- B. Use the same passwords across the entire CI/CD pipeline
- C. Ensure that secrets are not inadvertently passed on during builds for pull requests via CI/CD pipeline
- D. Never use one-time passwords in CI/CD pipeline

Correct Answer: C

QUESTION 3

A company has experienced serious growth and the hosted applications are getting more and more hits. Based on the increased work load, applications have started to show signs of reduced performance, which is affecting the user experience.

Which two server metrics should be tracked to ensure that the customer experience remains within acceptable limits? (Choose two.)

- A. application feature sprawl
- B. CPU peak usage
- C. CPU average usage
- D. microservices count
- E. CPU frequency

Correct Answer: BC

QUESTION 4

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 5

Which interface is most commonly used to integrate logging, monitoring, and alerting applications into your CI/CD pipeline?

- A. AMQP
- B. SNMP
- C. SSH
- D. REST

Correct Answer: D

The most commonly used interface to integrate logging, monitoring, and alerting applications into your CI/CD pipeline is

REST. Representational State Transfer (REST) is an architectural style that defines a set of constraints and properties based on HTTP. It enables developers to create APIs that are easy to use and access, and is well- suited for integrating logging, monitoring, and alerting applications into your CI/CD pipeline.

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