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

Microservices architecture pattern has been applied and the system has been architected as a set of services. Each service is deployed as a set of instances for throughput and availability.

In which two ways are these services packaged and deployed? (Choose two.)

A. Service instances must be isolated from one another.

B. Service must be independently deployable and scalable.

C. Service are written using the same languages, frameworks, and framework versions.

D. Service must be dependent, deployable, and scalable.

E. Service instances do not need to be isolated from one another.

Correct Answer: AB

QUESTION 3

Which approach must be used to integrate DevOps practices into the team structure in an existing organization?

A. Create a team that can deliver all the stages with active cooperation between the team members

B. Create a team that can deliver all the stages with well-defined roles and a communication structure between team members

C. Create a team for each stage with structured communication channels

D. Create a team for each stage with active cooperation between the teams

Correct Answer: A

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

ConfigMap keys have been mapped to different file names using the volumes.configMap.items field. What is the result if a wrong ConfigMap key is specified?

A. The default path is not used.

B. The volume is not created.

C. The volume is created.

D. The volume is created with errors.

Correct Answer: B

If a wrong ConfigMap key is specified, the volume will not be created since the ConfigMap key must match the name of the item specified in the volumes.configMap.items field.

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