300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS)

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QUESTION 1

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 2

The E-commerce application is being monitored using AppDynamics. AppDynamics has noticed that the application response has degraded and has identified some thread contention that might be the cause of the delays. Where in the interface does AppDynamics bring this to your attention?

A. Potential Issues section of an individual transaction

B. Transaction Score graph of a business transaction

C. Code Deadlock section of the Event List

D. Slow Calls and Errors tab of the application

Correct Answer: A

https://docs.appdynamics.com/display/PRO43/Thread+Contention

QUESTION 3

AppDynamics is being used to monitor your distributed Python application. Each individual container of the application is instrumented with an AppD agent. Which two configuration variables uniquely determine the module being monitored? (Choose two.)

A. node

B. app

C. agent

D. tier

E. event

Correct Answer: AD

Appdynamics Agents Install Wizard Step 2 Enter the configuration values...

https://docs.appdynamics.com/appd/4.5.x/en/application-monitoring/install-app-server- agents#InstallAppServerAgents-UsetheGettingStartedWizard Tier and Node Naming Guidelines https://docs.appdynamics.com/appd/4.5.x/en/application-monitoring/install-app-server-agents#InstallAppServerAgents-tier-node-namingTierandNodeNamingGuidelines

QUESTION 4

An application has been designed based on microservices. The application is deployed on Kubernetes using multiple pods that share the same IP address. Each pod is responsible for a service in the application.

Which command validates the success of the application deployment?

A. kubectl get pods -o wide -w

B. kubectl rollout status deployment

C. kubectl describe pods/

D. kubectl rollout history deployment

Correct Answer: B

QUESTION 5

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

QUESTION 6

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 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

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 9

What are two testing scenarios of the chaos engineering principle? (Choose two.)

A. maxing out CPU cores on an Elasticsearch cluster

B. removing all users from a version control system

C. executing routine in driver code to emulate I/O errors

D. blocking developers\\' building access

E. unplugging a core switch device

Correct Answer: AE

QUESTION 10

What is a benefit of Infrastructure as Code for the cloud?

A. It groups system downtime across the infrastructure

B. It enables the user to automate deployments

C. It does not require configuration.

D. It is a cost effective solution for services

Correct Answer: B

QUESTION 11

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

A. ramdomness

B. SHA1

C. triple AES

D. rotation

E. dictionary

Correct Answer: AC

QUESTION 12

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 13

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.

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