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300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS)

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QUESTION 1

Which two statements about Infrastructure as Code are true? (Choose two.)

A. Test-driven development practices make use of Infrastructure as Code.

B. Infrastructure as Code refers to automated testing libraries.

C. DevOps builds upon Infrastructure as Code.

D. Infrastructure as Code is based on practices from software development.

E. Infrastructure as Code must use the same programming language as the application.

Correct Answer: CD

(IaC) is a practice that allows for the automation of infrastructure configuration and deployment, allowing DevOps teams to deploy and manage infrastructure with the same release pipelines and versioning as source code [1]. IaC is based on practices from software development, and promotes the use of automation and repeatable processes to ensure consistency of deployments.

QUESTION 2

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/applicatio n-monitoring/install-app-server-agents#InstallAppServerAgents-tier-node-namingTierandNodeNamingGuidelines

QUESTION 3

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 4

A security team is running vulnerability scans against a CI/CD pipeline. The reports show that RDBMS secrets were found hardcoded in Ansible scripts. The RDBMS resides in the internal network but is accessible from a jump server that resides in a public network.

If an attacker gains access to the scripts, what is the risk exposure?

A. The Automation server is at risk of being compromised.

B. The Ansible scripts run through encrypted SSH connections.

C. The internal network is at risk of being compromised.

D. The entire CI/CD-related infrastructure is at risk.

Correct Answer: C

The internal network is at risk of being compromised if an attacker gains access to the Ansible scripts, as the scripts contain hardcoded secrets for the RDBMS which is accessible from a jump server in a public network. This presents a risk as the secrets can be used to gain access to the RDBMS, and from there, the attacker could potentially gain access to the internal network. Additionally, the entire CI/CD-related infrastructure could be at risk if the attacker is able to gain access to the RDBMS, as they could potentially manipulate the data or scripts in order to cause disruption or damage.

QUESTION 5

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 6

![Pass2Lead](https://Pass2Lead.com)
What is chaos engineering?

A. designing an application with fuzzy logic that makes it hard to predict

B. a product engineering approach that lacks a formal methodology

C. splitting a project between teams that do not communicate with each other

D. introducing problems into a system to study behavior and improve reliability

Correct Answer: D

QUESTION 7

An organization is developing an application using Git. Each team member is assigned to work on specific parts of the application. At the end of each task, individual code parts are merged in the main build.

Which two requirements should be implemented to increase the likelihood of continuous integration? (Choose two.)

A. Changes must be scheduled to deploy at a specific time that has minimal traffic

B. Changes must include automated tests

C. Changes must be validated during deployment to the production environment

D. Smaller, individually testable changes must be merged first

E. Team members must be responsible for the code committed by any team member

Correct Answer: BC

QUESTION 8

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 9

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 10

What is the purpose of using sysprep when developing a Microsoft Windows-based golden image process?

A. prepares a new host to accept a hard drive image built on another machine

B. removes all host-specific information and components from the local machine

C. installs all the latest security patches and OS updates to the local machine

D. writes the local hard drive image to an ISO file that can be deployed to another machine

Correct Answer: B

QUESTION 11

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 12

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.

QUESTION 13

An application is being developed to be used by the HR department of a company on a global scale. The application will be used as a central repository for employee contracts. For user access, a RADIUS server will be used with authorized user groups.

Which action must be used to prevent developers from accidentally committing secrets in the code?

A. Add a unit test to block the secrets

B. Add a precommit Git hook to block the secrets

C. Add dast to the repository to block the secrets

D. Add a job in the CI build to block the secrets

Correct Answer: A

QUESTION 14

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

A. service

B. pod

C. deployment

D. loadbalancer

Correct Answer: A

QUESTION 15

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

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