



# Cisco

## Exam Questions 300-910

Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS)

#### NEW QUESTION 1

A DevOps engineer must validate the working state of the network before implementing a CI/CD pipeline model. Which configuration management tool is designed to accomplish this?

- A. Jenkins
- B. Genie CLI
- C. Travis CI
- D. Python YAML data libraries

**Answer:** A

#### NEW QUESTION 2

Configuration changes to the production network devices are performed by a CI/CD pipeline. The code repository and the CI tool are running on separate servers. Some configuration changes are pushed to the code repository, but the pipeline did not start. Why did the pipeline fail to start?

- A. The CI server was not configured as a Git remote for the repository.
- B. The webhook call from the code repository did not reach the CI server.
- C. Configuration changes must be sent to the pipeline, which then updates the repository.
- D. The pipeline must be started manually after the code repository is updated.

**Answer:** C

#### NEW QUESTION 3

A new version of an application is being released by creating a separate instance of the application that is running the new code. Only a small portion of the user base will be directed to the new instance until that version has been proven stable. Which deployment strategy is this example of?

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

**Answer:** D

#### NEW QUESTION 4

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

**Answer:** D

#### NEW QUESTION 5

A DevOps engineer has built a container to host a web-server and it must run as an executable. Which command must be configured in a Dockerfile to accomplish this goal?

- A. ENTRYPOINT <usr/sbin/apache2ctl>
- B. ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
- C. ENTRYPOINT ["BACKGROUND", "-D", "/usr/sbin/apache2ctl"]
- D. ENTRYPOINT {usr/sbin/apache2ctl}

**Answer:** B

#### NEW QUESTION 6

What are two reasons a Docker golden image should be updated? (Choose two.)

- A. when there is a change to a username or password in the Docker secrets
- B. when the application has a new release
- C. when a fix for a security vulnerability is released
- D. when a change is needed to an environment variable in the Dockerfile
- E. when the base image is nearing the end of life

**Answer:** BC

#### NEW QUESTION 7

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

**Answer:** BC

#### NEW QUESTION 8

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.

**Answer:** AB

#### NEW QUESTION 9

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.

**Answer:** A

#### NEW QUESTION 10

What are two benefits of Infrastructure as Code? (Choose two.)

- A. It enables continuous integration.
- B. It allows for management control.
- C. It ensures consistency.
- D. It improves application monitoring.
- E. It reduces risk.

**Answer:** CE

#### NEW QUESTION 10

An interface on a router as a Layer 3 link has been configured to another device by updating an Ansible playbook that is executed via a CI/CD pipeline. The Ansible playbook was written to push the configuration change using the ios\_config module. Which automated test validates that the interface is functioning as it should?

- A. Add a pipeline step that runs the playbook a second typ
- B. If it does not modify the device on the second run, then the interface is correctly configured.
- C. Automated testing is already built in because the playbook execution is successful only after Ansible validates that it applied the change.
- D. Add a pipeline step that captures and parses the packet flow for the interface.
- E. Add a pipeline step that captures and parses the show ip interface output so that the operational state can be referenced.

**Answer:** B

#### NEW QUESTION 13

When static routes are added to a router in a network using a CI/CD pipeline, an Ansible playbook is used to make these changes. Which steps must be added to the pipeline to validate that the changes have the intended effect on the traffic flow?

- A. Add a step to run the debug ip routing command before the change, and add a step after the change to issue the no debug ip routing command.
- B. Add a step to capture the routing table before the change, and add a step after the change to capture it again
- C. Calculate the difference between the two for review.
- D. Add a step to ping a host on each of the static routes before the change, and a step after to repeat the same check
- E. Calculate the difference between the two checks for review.
- F. Add a step to run the same playbook again with the debug option enabled and use grep on the log output to ensure that the commands are not applied again.

**Answer:** B

#### NEW QUESTION 17

A DevOps engineer is supporting a containerized application with multiple components running across the Kubernetes cluster. Metrics from the container (CPU and memory) and application (requests per second and heap size) are being collected by Prometheus and displayed with Grafana. Users report transaction timeout problems with the application, but the metric graphs all look within normal levels.

Which type of failure would prevent the engineer from seeing the problem using the captured metrics?

- A. Grafana has lost connectivity to Prometheus, which causes graphs to display only the cached data.
- B. CPU and memory metrics from Kubernetes nodes are not accurate due to the way that containers share resources.
- C. Some containers are crashing regularly and being restarted automatically by Kubernetes.
- D. The metricbeat agent has crashed and is no longer sending new data to Prometheus, so the metrics are not updating.

**Answer:** D

#### NEW QUESTION 22

A developer wants to deploy a highly available web server cluster and decides to put a load balancer in front of multiple clustered nodes that run the same web service. The goal is for the load balancer to take in users and distribute the load across the whole cluster. What kind of high-availability configuration is the developer running?

- A. active
- B. passive
- C. active-passive
- D. active-active

**Answer:** C

#### NEW QUESTION 25

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

**Answer:** A

#### NEW QUESTION 30

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

**Answer:** BC

#### NEW QUESTION 34

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

**Answer:** D

#### NEW QUESTION 37

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

**Answer:** AC

#### NEW QUESTION 42

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

- A. randomness
- B. SHA1
- C. triple AES
- D. rotation
- E. dictionary

**Answer:** AC

#### NEW QUESTION 46

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