



300-910^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms
(DEVOPS)

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**QUESTION 1**

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.

Correct Answer: B

A webhook is basically a callback URL that is triggered when certain events occur, such as a code commit. If the webhook call from the code repository does not reach the CI server, then the pipeline will not start. According to the Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, "A webhook is a web-based feature that enables a remote service to communicate with a local service, usually through a web server. Webhooks are used to trigger an action when a specific event occurs, usually in a remote service or application."

QUESTION 2

DRAG DROP

Drag and drop the commands from the bottom onto the correct Terraform code in the exhibit to push a network object to a Cisco ASA Firewall device.

Select and Place:



Answer Area

```
 "ciscoasa" {  
  api_url      = "https://10.1.1.1"  
  username     = "admin"  
  password     = "cisco"  
  ssl_no_verify = false  
}  
  
 "ciscoasa_network_object" "ipv4host" {  
  name = "devops_host"  
  value = "10.2.3.4"  
}
```

task

role

provider

module

firewall

resource

Correct Answer:



Answer Area

```
provider      "ciscoasa" {
```

```
  api_url      = "https://10.1.1.1"
```

```
  username     = "admin"
```

```
  password     = "cisco"
```

```
  ssl_no_verify = false
```

```
}
```

```
resource      "ciscoasa_network_object" "ipv4host" {
```

```
  name = "devops_host"
```

```
  value = "10.2.3.4"
```

```
}
```

task

role

module

firewall

QUESTION 3

An IT department needs to deploy a new application named `Entfin434772390\` across the entire enterprise. The deployment must gradually transfer user traffic from an on older and nearly identical version of the application named `Entfin02754932\`. Both versions of the application are running in the production environment.

Which release strategy should be used by the IT department?

A. agile



- B. canary
- C. rollbacks
- D. blue/green

Correct Answer: B

QUESTION 4

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 5

FILL BLANK Fill in the blanks to describe the concepts of extending DevOps practices to the network for NetDevOps. NetDevOps builds and manages networks as a system that enables network services to be consumed in a DevOps approach. Organizations practicing NetDevOps see changes in the _____ as routine and expected activities, with a well-

defined and practiced process for _____, testing, and _____ network changes. By making them routine, network changes can be small and simple.

Correct Answer: network, designing, deploying

Reference: <https://blogs.cisco.com/developer/embrace-netdevops-part-1>

QUESTION 6

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 7

Which Docker command is used to start an interactive Bash shell in a running container named "test"?

- A. docker attach -it test /bin/bash
- B. docker run -it test /bin/bash
- C. docker exec -it test /bin/bash
- D. docker run test /bin/bash

Correct Answer: C

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 is the purpose of using a build tool in software development?

- A. It compiles source code into binaries and executables.
- B. It provides a way to edit source code using a graphical interface.
- C. It is a manual process that is followed to build software.
- D. It tracks bugs and incidents in a built application.

Correct Answer: A

QUESTION 10

Which type of security testing should be performed as a part of a CI/CD pipeline by analyzing the source code itself without compiling the code into a running executable?

- A. Dynamic Application Security Testing
- B. Runtime Application Health-Protection
- C. Continuous Application Security Testing
- D. Static Analysis Security Testing

Correct Answer: D

QUESTION 11

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

Correct Answer: D

Adding a pipeline step that captures and parses the `show ip interface` output so that the operational state can be



referenced is the best way to validate that the interface is functioning as it should. This can be done by using the `ioscommand` module to capture the output of the `show ip interface` command, and then using the `iosparse` module to parse the output and extract the relevant interface information. The `ios_parse` module allows you to validate the interface state, to ensure that it is up and running as expected.

Reference:

Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, Chapter 6, Section 6.3.6.

QUESTION 12

An end user is seeing long web page load times on the internal business application that they are trying to view. The user is seeing this issue across multiple web browsers, and other users encounter the same issue. Which action should the system administrator take to start looking for the cause of this issue?

- A. Check to make sure Nginx is running.
- B. Check for response times in Nginx logs.
- C. Check to make sure the web API response is coming back in JSON.
- D. Check the size of the database that the application is using.

Correct Answer: B

QUESTION 13

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.

Correct Answer: D

QUESTION 14

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 15

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

Correct Answer: AD

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