Vendor: Cisco

Exam Code:300-910

Exam Name: Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS)

Version: Demo

QUESTION 1

DRAG DROP

The IaC configuration for an application is being deployed using a CI/CD pipeline. Drag and drop the steps for this pipeline from the left into the correct order that they would be executed on the right. Not all options are used.

Select and Place:

Answer Area

Integration test of the most recent configurations is performed.	step 1
The CI tool is notified of an update.	step 2
The code repository is updated by a user.	step 3
The pipeline notifies the repository to run tests.	step 4
The configuration changes are pushed to devices.	

Correct Answer:

Answer Area

Integration test of the most recent configurations is performed.	The code repository is updated by a user.
	The CI tool is notified of an update.
	The pipeline notifies the repository to run tests.
	The configuration changes are pushed to devices.

QUESTION 2

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 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 `Entfin02754932l\\'. 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

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 5

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 6

A precheck validation is being designed for the network state in a CI/CD pipeline This design requires:

1.

 the CI/CD pipeline to spin up test instances.

2.

 instances must be used to validate changes.

3.

 changes must be validated prior to a continuous deployment workflow, and

4.

 then push the changes to production

How should the pipeline target the required environment?

A. Use separate CI servers for each environment

B. Use different pipelines for each environment

C. Use separate Git repositories for each environment

D. Use different inventory files for each environment

Correct Answer: D

QUESTION 7

What is a capability of node-level logging in Kubernetes?

A. Using the Kubernetes JSON logging driver enables log persistence

B. Output that is written to stdin is retrieved by using kubectl

C. Output that is written to stderr is not logged or retrievable by using kubectl

D. Using the local logging driver of Docker enables log persistence

Correct Answer: D

QUESTION 8

A developer has created a deployment that should launch a pod to run their database service. The pod should launch with a metadata name of "Cisco-DB," and the developer has added it to the "Cisco" namespace in their deployment.

Which Kubernetes command confirms that the service is running and usable?

A. kubectl -n Cisco get services | grep "Cisco-DB"

B. kubectl -n Cisco get pods | grep "Cisco-DB"

C. kubectl get pods | grep "Cisco-DB"

D. kubectl -n Cisco get service | grep "Cisco-DB"

Correct Answer: B

The correct answer is B. kubectl -n Cisco get pods | grep "Cisco-DB". This command allows you to view the pods in the Cisco namespace and filter the list for the pod named "Cisco-DB". This will confirm that the pod is running and usable. References: Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual, Chapter 6, Section 6.3: Kubernetes Commands, Page 113.

QUESTION 9

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 10

An IT team plans to deploy a new service built on top of an existing service. The capacity needed for the new service is difficult to estimate because the demand for the new service is undetermined. The team has these deployment requirements:

1.

 A subset of the users of the original service must be migrated to the new service based on their profile

2.

 The new service must be rolled back easily if capacity exceeds estimates

Which deployment strategy must be used?

A. rolling

B. blue/green

C. geolocation

D. canary

Correct Answer: D

QUESTION 11

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

QUESTION 12

Refer to the exhibit.

```bash
#!/bin/bash                                                    Build Command
# apt-get -y install python3-pip
# pip install --upgrade pip
rm -rf automationSandboxTest || true
git clone https://github.com/oborys/automationSanboxTest.git
export SEARCHPATH="$PWD/automationSanboxTest/"
for k in $(cat $SEARCHPATH/requriements.txt | cut -d '>' -f 1 | cut -d '<' -f 1
                                                         | cut -d '=' -f 1
do
     python -m pip install $k
done
echo
for k in $(find $SEARCHPATH -name *.py)
do
     echo > msg.txt
     python $k > /dev/null 2> msg.txt || true
     export CODE=$(grep -c ^ msg.txt)
     if [ $CODE != 0 ]
     then
         echo "File: $k" >> error.message.txt
         cat msg.txt >> error_message.txt
         echo >> error.message.txt
     fi
done
rm -rf msg.txt || true
cat error_message.txt
if [ $(cat error_message.txt| wc -1) != 0 ]
then
     exit 1
fi
```

```
++find /data/bms/webapps/jenkins/workspace/team_team_devnet-learning-labs-
automatiom/Always_On_Sandbox_testing/automationSandboxTest/ -name '*.py'
+ for k in '$(find $SEARCHPATH -name *.py)'
+ echo
+ python /data/bms/webapps/jenkins/workspace/team_team_devnet-learning-labs-
automatiom/Always_On_Sandbox_testing/automationSandboxTest/alwaysOnSandboxCh
eck.py
++ grep -c '^' msg.txt
+ export CODE=0
+ CODE=0
+ '[' 0 ' != ' 0 ']'                                    Part of Console Output
+ rm -rf msg.txt
+ cat error_message.txt
cat: error_message.txt: No such file or directory
Build step 'Virtualenv Builder' marked build as failure
Notifying upstream projects of job completion
Finished: FAILURE
```

```
1 ...
2 >>> response = requests.get(
3 ...     f'http://mydnacenter.local/dna/intent/api/v1/network-device/ip-address/{device_ip}',
4 ...     headers = {
5 ...         'Content-type' = 'application/json'
6 ...     }
7 ... )
8
9 Traceback (most recent call last):
10   File "<stdin>", line 1, in <module>
11 NameError: name 'requests' is not defined
```

How should the Jenkins job be troubleshooted based on the error provided?

A. Verify what the responding file created.

B. Update pip.

C. Install dependencies.

D. Place the code in a container and run the job again.

Correct Answer: A