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Exam : **300-910**

Title : Implementing DevOps Solutions and Practices using Cisco Platforms

Vendor : Cisco

Version : DEMO

NO.1 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

Answer: D

NO.2 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.

Answer: A,B

Explanation:

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.

NO.3 Refer to the exhibit.

```
<34>1 2020-10-11T22:14:15.003Z 161.20.30.44 su - ID47 - BOM'su root' failed for DevNetUser on /dev/pts/8
```

The text represents a syslog message sent from a Linux server to a centralized log system.

Based on the format of the log message, how must the functionality of the log parser be extended to improve search capabilities?

A. Reverse lookup the IP address to add a hostname field

B. Convert the date to the time zone of the system

C. Configure the Linux machine to add a UID field to messages

D. Filter out the text of the message to speed up searches

Answer: D

NO.4 Refer to the exhibit.

Build Command

```
#!/bin/bash
# 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
```

Part of Console Output

```
++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 ']'
+ 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
```

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

A. Verify what the responding file created.

B. Update pip.

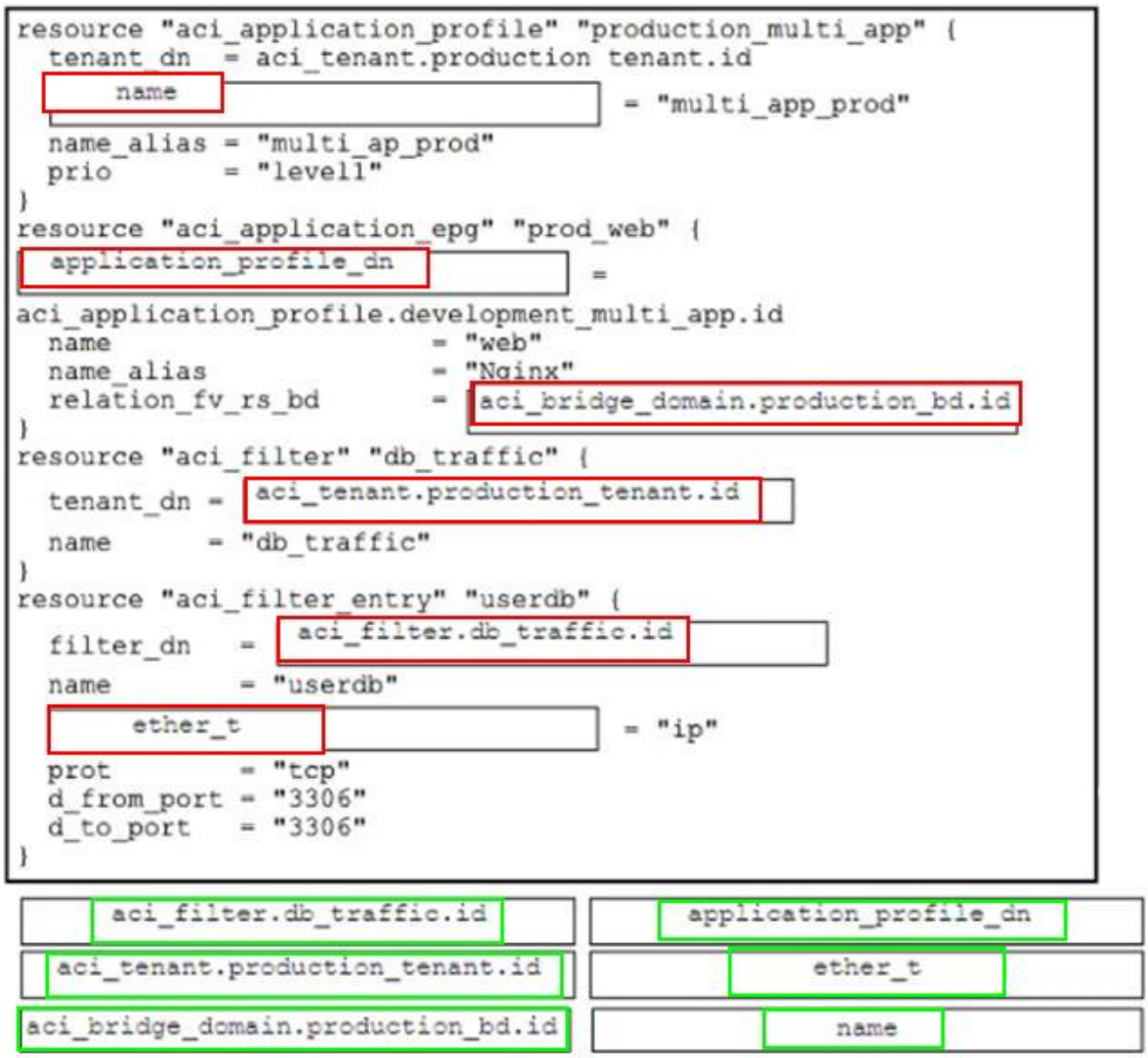
C. Install dependencies.

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

Answer: A

NO.5 Drag and drop the code from the bottom onto the box where the code is missing to create a Terraform configuration that builds the network environment for a multitier software application. More EPG, Contract, and Filter definitions have been removed from the code.

Answer:



NO.6 What is included in ansible playbook instructions?

A. component dependencies

B. end state of component

C. machine dependencies

D. beginning state of component

Answer: B

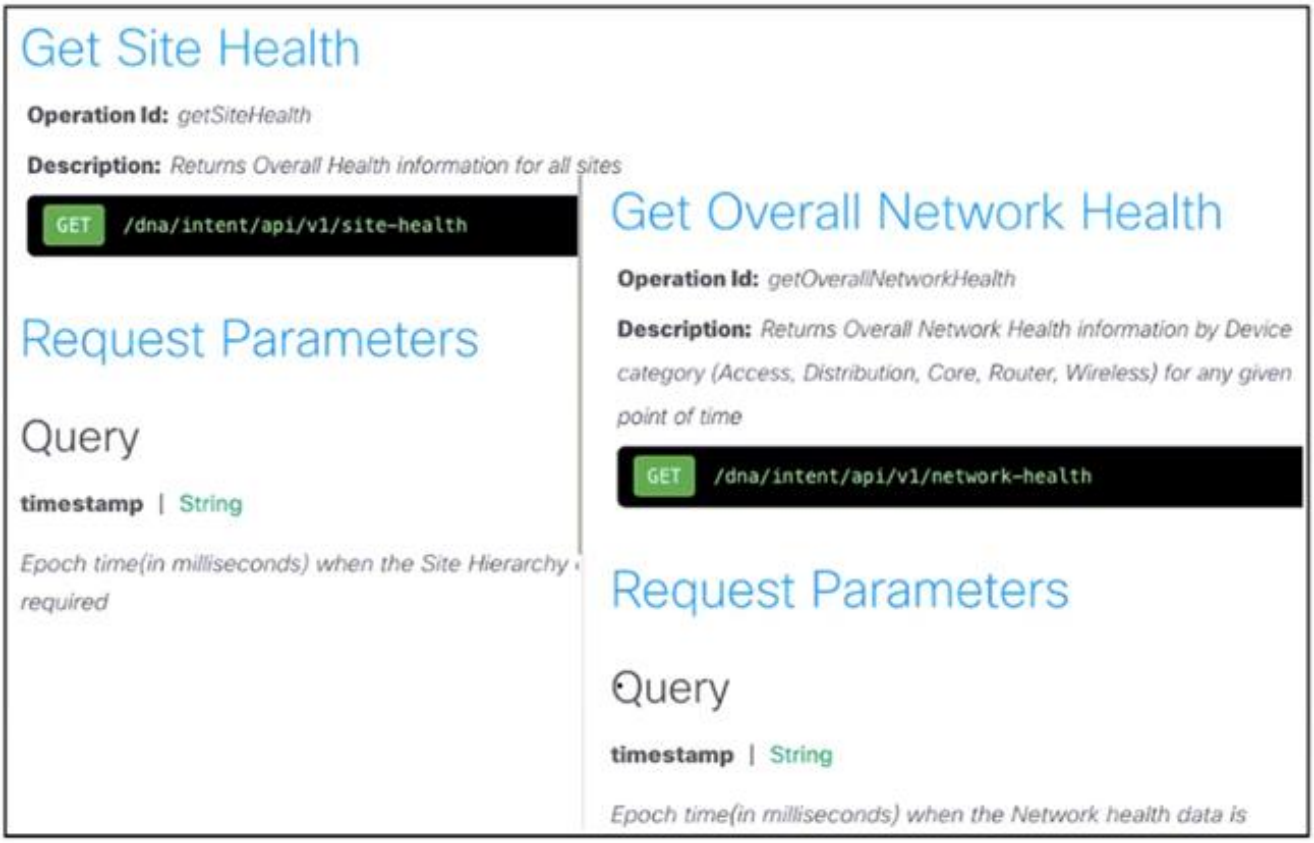
NO.7 A precheck validation is being designed for the network state in a CI/CD pipeline This design requires:

* the CI/CD pipeline to spin up test instances.
* instances must be used to validate changes.
* changes must be validated prior to a continuous deployment workflow, and
* then push the changes to production

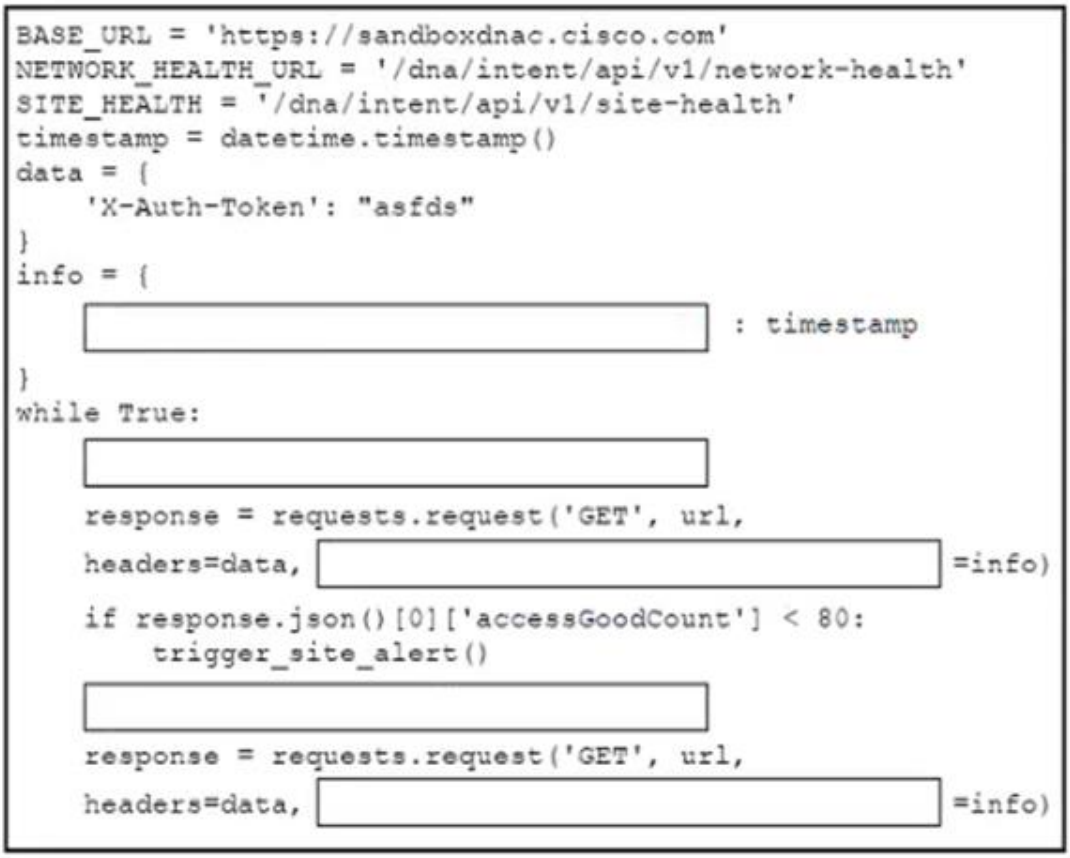
How should the pipeline target the required environment?

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
Answer: D

NO.8



Refer to the exhibit. A developer is creating a health check monitoring script that queries information from the Cisco DNA Center platform. The script must trigger an alert if a site health statistic named accessGoodCount drops below 80 and if a network statistic named latestHealthScore is 95 or less. Drag and drop the code snippets from the bottom onto the blanks in the code to monitor the site and network health on a Cisco DNA Center platform instance. Options may be used more than once. Not all options are used.



url = BASE_URL + SITE_HEALTH	params
url = BASE_URL + NETWORK_HEALTH_URL	'query'
"info"	'timestamp'

Answer:

NO.9 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

Answer: A

NO.10 Refer to the Exhibit.

Answer:

NO.11 When DevOps practices are integrated into an existing organization, which two characteristics are positive indicators of DevOps maturity? (Choose two.)

A. mean time between success

B. mean time to recover

C. cone testing

D. change lead time

E. age of codebase

Answer: B,D

Explanation:

Change lead time is the amount of time it takes for a proposed change to go from the idea phase to being fully deployed in production. This metric can be used to measure the speed and efficiency with which changes are implemented, which is often indicative of an organization's DevOps maturity. Mean time to recover (MTTR) is the average amount of time it takes to restore a service or application to its working state when an issue arises. MTTR is an important metric for measuring the resilience of an organization's infrastructure, and is another indicator of DevOps maturity. (Source: Cisco Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS) Study Manual Chapter 1, Understanding DevOps)

NO.12 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"
Answer: B
Explanation:
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.

NO.13 Fill in the blank to complete the statement.
A user wants a Kubernetes deployment to run three separate pods of a web application at one time. In the deployment YAML, the user must configure the_____field in the_____subsection.
A. replicasspec
Answer: A