300-910 ^{Q&As}

Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS)

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QUESTION 1

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 2

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 3

What is a practice of infrastructure as code?

A. Use multiple version control systems

B. Document as much as possible

C. Configure the deployment consistently

D. Test, integrate, and deploy once a day

Correct Answer: C

QUESTION 4

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 5

A CI/CD pipeline that builds infrastructure components using Terraform must be designed. A step in the pipeline is needed that checks for errors in any of the .tf files in the working directory. It also checks the existing state of the defined infrastructure.

Which command does the pipeline run to accomplish this goal?

A. terraform plan

B. terraform check

C. terraform fmt

D. terraform validate

Correct Answer: A

https://www.terraform.io/docs/cli/commands/validate.html

"use the terraform plan command instead, which includes an implied validation check."

QUESTION 6

FILL BLANK

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.

Correct Answer: selector, container

QUESTION 7

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 8

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

QUESTION 9

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 10

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

A. It complies 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 11

A DevOps engineering wants to build an application implementation based on the CI/CD pipeline model. Which service should be used to provide hosted continuous service for open and private projects?

A. Ansible

B. pyATS

C. Genie CLI

D. Travis CI

Correct Answer: D

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 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

Correct Answer: BC

QUESTION 14

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 15

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. Calculate the difference between the two for review.

C. 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. Calculate the difference between the two checks for review.

D. 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.

Correct Answer: B

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