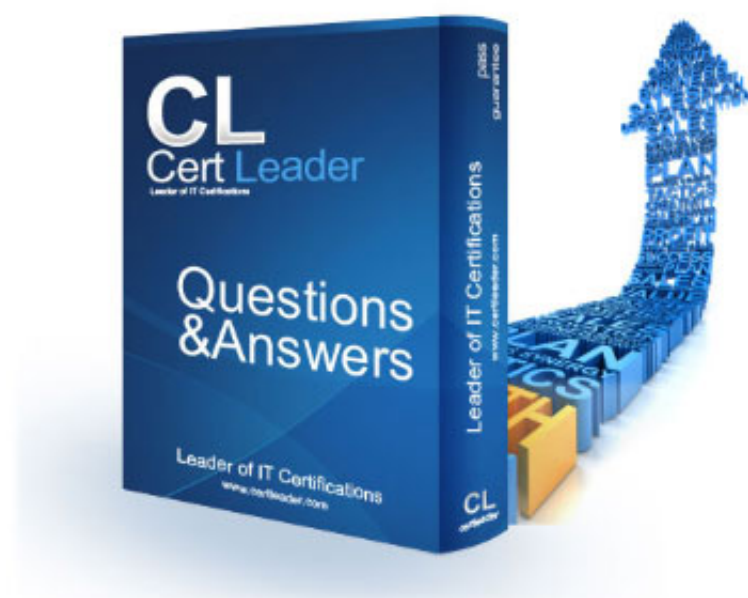


300-910 Dumps

Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS)

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NEW QUESTION 1

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

Answer: D

NEW QUESTION 2

Which type of testing should be integrated into a CI/CD pipeline to ensure the correct behavior of all of the modules in the source code that were developed using TDD?

- A. soak testing
- B. unit testing
- C. load testing
- D. volume testing

Answer: B

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

```
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
```

Refer to the exhibit. What is causing the requests code to fail?

- A. Rython3 is not compatible with requests.
- B. The requests library is not imported.
- C. The requests library is not installed.
- D. The requests coming into stdin fail because device_ip cannot be parsed.

Answer: B

NEW QUESTION 6

A DevOps engineer has built a new container and must open port 8080 for intercontainer communication. Which command must be added in a Dockerfile to accomplish this goal?

- A. EXPOSE 8080
- B. FIREWALL ADD-PORT 8080
- C. PORT 8080
- D. OPEN PORT 8080

Answer: A

NEW QUESTION 7

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 8

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 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 time
- 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 11

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 13

Which Kubernetes object is used to create a ClusterIP or NodePort?

- A. service
- B. pod

- C. deployment
- D. loadbalancer

Answer: A

NEW QUESTION 16

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 17

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 19

Which method is a safe way to provide a username/password combination to an application running as a service in a Docker container?

- A. encode the value with base64 in a secure DNS CTEXT entry
- B. as an environment variable in the Dockerfile
- C. Docker environment variable
- D. Docker secrets

Answer: D

NEW QUESTION 22

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