



## **Cisco**

### **Exam Questions 300-910**

Implementing DevOps Solutions and Practices using Cisco Platforms (DEVOPS)

## About ExamBible

*[Your Partner of IT Exam](#)*

## Found in 1998

ExamBible is a company specialized on providing high quality IT exam practice study materials, especially Cisco CCNA, CCDA, CCNP, CCIE, Checkpoint CCSE, CompTIA A+, Network+ certification practice exams and so on. We guarantee that the candidates will not only pass any IT exam at the first attempt but also get profound understanding about the certificates they have got. There are so many alike companies in this industry, however, ExamBible has its unique advantages that other companies could not achieve.

## Our Advances

### \* 99.9% Uptime

All examinations will be up to date.

### \* 24/7 Quality Support

We will provide service round the clock.

### \* 100% Pass Rate

Our guarantee that you will pass the exam.

### \* Unique Gurantee

If you do not pass the exam at the first time, we will not only arrange FULL REFUND for you, but also provide you another exam of your claim, ABSOLUTELY FREE!

#### NEW QUESTION 1

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 2

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 3

```
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 4

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

**Answer: D**

#### NEW QUESTION 5

A DevOps engineer has built a container to host a web-server and it must run as an executable. Which command must be configured in a Dockerfile to accomplish this goal?

- A. ENTRYPOINT <usr/sbin/apache2ctl>
- B. ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
- C. ENTRYPOINT ["BACKGROUND", "-D", "/usr/sbin/apache2ctl"]
- D. ENTRYPOINT {usr/sbin/apache2ctl}

**Answer: B**

#### NEW QUESTION 6

```
Traceback (most recent call last):
  File "api-call.py", line 1, in <module>
    import requests
  File "/Users/devnet/venv/devops/lib/python3.7/site-packages/requests/_init_.py", line 43, in <module>
    import urllib3
ModuleNotFoundError: No Module named 'urllib3'
```

Refer to the exhibit. 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.

**Answer:** B

#### NEW QUESTION 7

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 8

```
---
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
```

Refer to the exhibit. What is the user doing with Drone in this automated test?

- A. testing Alpine Linux versus Ubuntu Linux
- B. testing a PostgreSQL DB against multiple architectures
- C. testing only the amd64 architecture
- D. testing PostgreSQL deployment in an Alpine Linux VM

**Answer:** D

#### NEW QUESTION 9

Which two characteristics of a build tool that is used in an automated build pipeline? (Choose two.)

- A. It runs unit tests against code that is committed.
- B. It builds your software on the production environment.
- C. It builds your software when changes are committed.
- D. It builds your software every 500 milliseconds.
- E. It must have a plug-in for Puppet and Maven.

**Answer:** AC

#### NEW QUESTION 10

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.

**Answer:** AD

#### NEW QUESTION 10

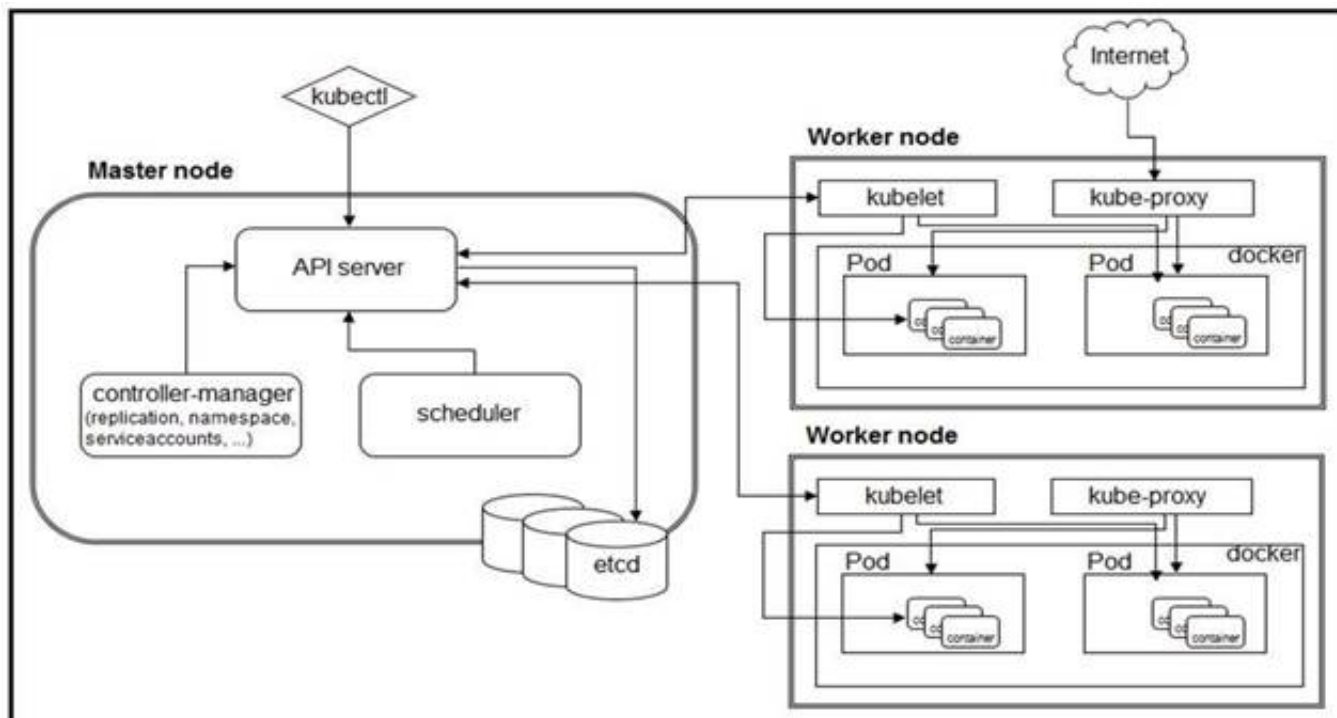
```
TASK [Print the contents of the "show_ip_int_brief" variable]
*****
ok: [ios-xe-mgmt.cisco.com] => {
  "show_ip_int_brief": {
    "changed": false,
    "failed": false,
    "stdout": [
      "Interface          IP-Address      OK?  Method Status
Protocol\nGigabitEthernet1  10.10.20.48    YES  NVRAM   up    up
\nGigabitEthernet2    10.10.10.18    YES  other   up    up  \nGigabitEthernet3
13.13.13.13      Yes other      up    up"
    ],
    "stdout_lines": [
      [
        "Interface          IP-Address      OK?  Method Status Protocol",
        "GigabitEthernet1  10.10.20.48    YES  NVRAM   up    up",
        "GigabitEthernet2  10.10.10.18    YES  other   up    up",
        "GigabitEthernet3  13.13.13.13    YES  other   up    up"
      ]
    ]
  }
}
```

Refer to the exhibit. The exhibit shows the output of an Ansible task that prints the contents of the show\_ip\_int\_brief variable that was registered in a different task in the playbook. Which expression is used to print the output of the command without its header row?

- A. show\_ip\_int\_brief['stdout\_lines'][0]
- B. show\_ip\_int\_brief['stdout\_lines'][1:]
- C. show\_ip\_int\_brief['stdout\_lines'][0][1:]
- D. show\_ip\_int\_brief['stdout\_lines']

**Answer:** B

#### NEW QUESTION 13



Refer to the exhibit. A developer needs to scale the existing pods within the worked nodes. Which object should be edited to achieve this goal?

- A. ReplicaSet
- B. PriorityClass
- C. Deployment
- D. Pod

**Answer:** A

#### NEW QUESTION 16

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
- C. Calculate the difference between the two for review.
- D. 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
- E. Calculate the difference between the two checks for review.
- F. 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.

**Answer:** B



#### NEW QUESTION 21

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 26

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

- A. service
- B. pod
- C. deployment
- D. loadbalancer

**Answer:** A

#### NEW QUESTION 29

A user wants to deploy a new service to a Kubernetes cluster. Which two commands accomplish this goal? (Choose two.)

- A. Apply
- B. Install
- C. Deploy
- D. Create
- E. Expose

**Answer:** AE

#### NEW QUESTION 34

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:** C

#### NEW QUESTION 37

To make logging searches more efficient and useful in Kibana, an Administrator wants to implement index patterns around the hostname of some software systems. Where should this be configured?

- A. Configure a new JSON object in Kibana.
- B. Create a search index in Logstash.
- C. Create an index pattern in Kibana.
- D. Create a time filter on Kibana to look at time only.

**Answer:** C

#### NEW QUESTION 38

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.

**Answer:** B

#### NEW QUESTION 39

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

**NEW QUESTION 44**

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 46**

How does eliminating hardcoded or default passwords help to secure an environment?

- A. helps by enforcing your password in a repository and storing it in a secure vault
- B. helps to manage passwords centrally
- C. helps penetration testing team to focus on other issues more efficiently
- D. helps by removing back doors in your environments

**Answer:** A

**NEW QUESTION 47**

.....

## Relate Links

**100% Pass Your 300-910 Exam with ExamBible Prep Materials**

<https://www.exambible.com/300-910-exam/>

## Contact us

We are proud of our high-quality customer service, which serves you around the clock 24/7.

Viste - <https://www.exambible.com/>