Vendor: Cisco

Exam Code: 300-910

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

Version: DEMO

QUESTION 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
Explanation:
Static Analysis and Unit Tests run checks without executing the code.

QUESTION 2
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: A
Explanation:
Use the terraform plan command instead, which includes an implied validation check.
https://www.terraform.io/docs/cli/commands/validate.html
Validate runs checks that verify whether a configuration is syntactically valid and internally consistent, regardless of any provided variables or existing stat.

QUESTION 3
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.

```
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",
               ]
          ]
     }
}
```

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: C
Explanation:
"stdout_lines" is a list and there here is another list under that.

QUESTION 4
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
Explanation:
A docker secret is a blob of data, such as a password, SSH private key, SSL certificate, or another piece of data that should not be transmitted over a network or stored unencrypted in a Dockerfile or in your application's source code.

QUESTION 5
What is as responsibility for teams running private cloud servers that is less of a concern when running in the public cloud?

A. cost
B. metrics and monitoring
C. hardware maintenance
D. credentials management

Answer: C
Explanation:
In private on-prem Cloud you are in charge of maintaining hardware.

QUESTION 6
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.

Answer: network, designing, deploying
Explanation:

https://blogs.cisco.com/developer/embrace-netdevops-part-1

QUESTION 7
Refer to the exhibit. What is causing the requests code to fail?

```
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
```

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
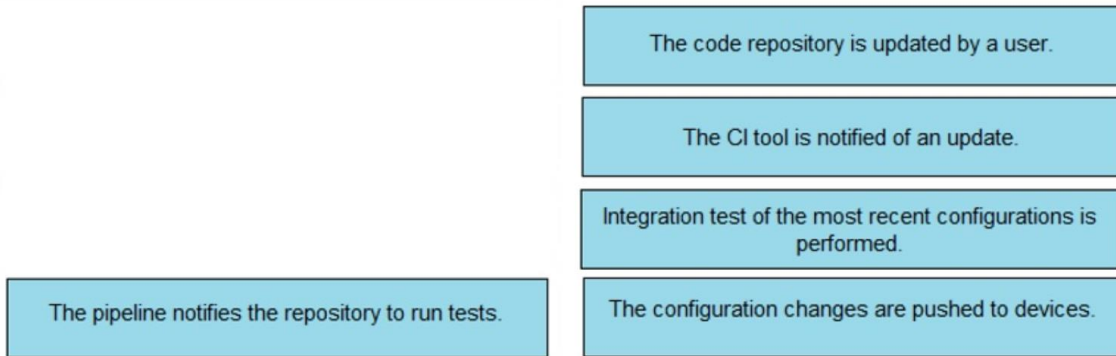

QUESTION 8
Drag and Drop Question

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.

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.	

Answer:

Answer Area

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

| The pipeline notifies the repository to run tests. |

QUESTION 9
Which options lists cloud deployment modes?

A. Private, public, hydrid, community
B. Private, public, hydrid, shared
C. IaaS, PaaS, SaaS
D. Private, public, hydrid

Answer: A

QUESTION 10
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: D

QUESTION 11
A company has a CI/CD pipeline implemented to automate application deployment. An urgent change is required in the production environment. A developer produces and tests the required change in the company's environment, but the pipeline fails when pushed.
Which action conforms to the rules of a CI/CD pipeline and enables the pipeline to pass?

A. Remove the failing test.
B. Manually deploy the change into the production environment
C. Use a backup pipeline
D. Replicate the production environment in the pipeline before applying

Answer: D

QUESTION 12
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

QUESTION 13
Refer to the exhibit. A distributed application contains data services that connect to databases via JDBC and to other remote services via HTTP. The overall response time is too long, and AppDynamics is used to investigate the root cause. From the application flow map, a specific data service running on Docker has been identified whose response time is over 10 seconds.
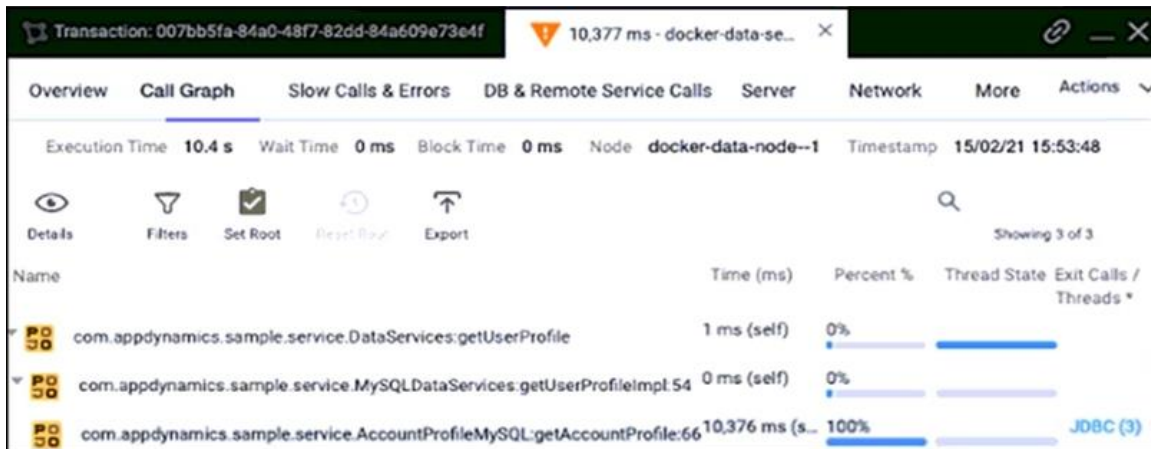
Which action resolves the issue?

A. Change from a JDBC call to a HTTP call to retrieve data faster
B. Run the AccountProfileMySQL service in Kubernetes
C. Explore the JDBC queries looking for optimization opportunities
D. Verify if the Docker container running MySQL is limiting CPU utilization

Answer: D

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