



Cisco 200-901 Mock Exam

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Question 1

Question Type: MultipleChoice

What is a benefit of test-driven development?

Options:

- A- early customer involvement
- B- increased code quality
- C- faster releases that have minimal features
- D- strict adherence to product requirements

Answer:

B

Explanation:

One of the primary benefits of test-driven development (TDD) is increased code quality. By writing tests before coding and continuously testing during development, developers ensure that the code meets the specified requirements and behaves as expected. This approach leads to more reliable, maintainable, and bug-free code.

Question 2

Question Type: MultipleChoice

Refer to the exhibit.

```
git clone [--template=<template directory>]
[-l] [-s] [--no-hardlinks] [-q] [-n] [--bare] [--mirror]
[-o <name>] [-b <name>] [-u <upload-pack>] [--reference <repository>]
[--dissociate] [--separate-git-dir <git dir>]
[--depth <depth>] [--[no-]single-branch] [--no-tags]
[--recurse-submodules[=<pathspec>]] [--[no-]shallow-submodules]
[--[no-]remote-submodules] [--jobs <n>] [--sparse]
[--filter=<filter>] [--] <repository>
[<directory>]
```

A network engineer must improve the fabric discovery process in a data center. The engineer wants to check current ACI scripts in the myproject repository and clone them to a folder named aci. The engineer will optimize the scripts from the new folder. Which command performs this

task on the Git repository?

A)

```
git clone git@github.com:myproject -f aci
```

B)

```
git clone git@github.com:myproject:aci
```

C)

```
git clone git@github.com:myproject -dr aci
```

D)

```
git clone git@github.com:myproject aci
```

Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

D

Explanation:

To clone the 'myproject' repository from GitHub into a new folder named 'aci' for optimization, the correct command is:

```
git clone git@github.com:myproject aci
```

This command specifies the SSH URL of the repository ([git@github.com](https://github.com))

) and sets the target directory to 'aci.' The git clone command copies the repository to the local machine, creating a new directory named 'aci' where the repository's contents will be placed.

[Git Clone Documentation](#)

Question 3

Question Type: MultipleChoice

Which principle is a value from the manifesto for Agile software development?

Options:

- A- adhering to a plan over responding to requirements
- B- detailed documentation over working software
- C- processes and tools over teams and inter actions
- D- customer collaboration over contract negotiation

Answer:

D

Explanation:

The Agile Manifesto emphasizes 'customer collaboration over contract negotiation' as one of its core values. This principle stresses the importance of engaging with customers to understand their needs and respond to changes, rather than strictly adhering to contract terms. The focus is on building a cooperative relationship with customers to deliver valuable software. This value is part of the Agile Manifesto, which outlines four key values and twelve principles for agile software development.

Question 4

Question Type: MultipleChoice

Which network component enables communication between broadcast domains?

Options:

- A- load balancer
- B- switch

- C- router
- D- firewall

Answer:

C

Explanation:

A router is a network component that enables communication between different broadcast domains by forwarding data packets between them based on their IP addresses.

Broadcast Domains: A broadcast domain is a network segment where a broadcast frame is forwarded to all devices.

Router Function: Routers separate broadcast domains, allowing communication between them by routing packets based on their destination IP addresses.

Network Components: Routers and Broadcast Domains

Question 5

Question Type: MultipleChoice

Which platform has an API that be used to obtain a list of vulnerable software on user devices?

Options:

- A- Cisco Umbrella
- B- Cisco Firepower
- C- Cisco Identity Services Engine
- D- Cisco Advanced Malware Protection

Answer:

D

Explanation:

Cisco Advanced Malware Protection (AMP) provides APIs that can be used to obtain a list of vulnerable software on user devices. AMP for Endpoints offers extensive capabilities for threat

detection and response, including the ability to query for vulnerabilities. These APIs allow developers to integrate vulnerability information into their applications, enabling proactive security measures. Detailed information on using AMP APIs can be found in the Cisco AMP for Endpoints API documentation.

Top of Form

Bottom of Form

Question 6

Question Type: MultipleChoice

Which API must an engineer use to change a netmask on a Cisco IOS XE device?

Options:

- A- Meraki
- B- RESTCONF/YANG
- C- SD-WAN
- D- DNAC

Answer:

B

Explanation:

RESTCONF and YANG are used for network configuration and management on Cisco IOS XE devices. RESTCONF provides a REST-like interface for accessing YANG-defined data models, allowing engineers to change configurations such as netmasks through programmable interfaces.

Cisco DevNet Associate Study Guide: Network Programmability and Automation (Chapter 6, Section: Using RESTCONF and YANG).

Question 7

Question Type: MultipleChoice

Which IP service is responsible for automatically assigning an IP address to a device?

Options:

- A- DNS
- B- DHCP
- C- SNMP
- D- NAT

Answer:

B

Explanation:

The Dynamic Host Configuration Protocol (DHCP) is responsible for automatically assigning IP addresses to devices on a network. When a device connects to the network, it sends a broadcast request for an IP address, and a DHCP server responds with an IP address, subnet mask, default gateway, and DNS server information. This process simplifies network administration by automating IP address assignment and ensuring that devices have unique IP addresses without manual configuration.

Cisco DHCP Overview

RFC 2131: DHCP

Question 8

Question Type: MultipleChoice

Which is an advantage of using network programmability?

Options:

- A- It removes CLI access for devices.
- B- It provides for more scalable and replicable network provisioning.
- C- Manual configuration is faster.
- D- No cloud abstraction occurs.

Answer:

B

Explanation:

Network programmability allows for automated, scalable, and replicable network provisioning and management. This reduces the need for manual configuration, minimizes human errors, and enables the implementation of consistent network policies across multiple devices and environments. By leveraging APIs and automation tools, network operations become more efficient and can easily adapt to changes in the network.

Cisco DevNet Associate Certification Guide: Chapter on Network Automation and Programmability.

Cisco Whitepapers on the benefits of Network Programmability and Automation.

Question 9

Question Type: MultipleChoice

An engineer prepares a set of Python scripts to interact with network devices. To avoid network performance issues, the engineer wants to run them in a test environment. Which resource must be used to monitor the

live execution of code in an always-available environment?

Options:

- A- packet tracer
- B- learning labs
- C- sandbox
- D- code exchange

Answer:

C

Explanation:

Comprehensive Detailed Step by Step Explanation with Reference A sandbox environment is an

isolated testing environment that mimics a live network. It allows engineers and developers to run scripts and test code without affecting the production network. Cisco provides sandboxes through the DevNet portal, which are always available for testing and experimentation with network automation and programmability. Using a sandbox helps monitor the live execution of code in a controlled and safe manner, ensuring that any potential issues do not impact the actual network.

Cisco DevNet Sandboxes

Cisco DevNet Associate Certification Guide

Question 10

Question Type: MultipleChoice

Refer to the exhibit.

```
#!/bin/bash
read ndir
while [ -d "$ndir" ]
do
cd $ndir
done
mkdir $ndir
```

What is the action of the Bash script that is shown?

Options:

- A- The script waits until input is entered. If the directory exists, the script goes into it until there is no directory with the same name, then it creates a new directory.
- B- The script goes into the directory called "\$ndir" and makes a new directory called "\$ndir"
- C- The script waits until input is entered, then it goes into the directory entered and creates a new directory with the same name.
- D- For all directories in the current folder. The script goes into directory and makes a new directory.

Answer:

A

Explanation:

The Bash script shown performs the following actions:

It reads a directory name into the variable ndir.

It enters a loop that continues as long as the directory specified by ndir exists (-d '\$ndir' checks if a directory exists).

Inside the loop, it changes the current directory to ndir.

Once the loop exits (when a directory with the name ndir no longer exists), it creates a new directory with the name stored in ndir.

Thus, the script ensures that it continues to navigate into directories with the given name until it finds one that does not exist, and then creates it.

Question 11

Question Type: MultipleChoice

A developer creates a program in which an object maintains a list of classes based on the observer pattern. The classes are dependent on the object. Whenever the state of the object changes, it notifies the dependent classes directly through callbacks. Which advantage of the observer pattern offers minimum dependencies and maximum flexibility between dependent objects or classes?

Options:

- A- tight coupling
- B- cohesion
- C- mediation
- D- loose coupling

Answer:

D

Explanation:

The observer pattern is designed to create a relationship where an object (subject) maintains a list of its dependents (observers) and notifies them of any state changes. This pattern achieves

loose coupling between the subject and its observers, allowing them to interact without being tightly bound to each other. This flexibility ensures that changes in the subject do not heavily impact the observers, and vice versa.

Question 12

Question Type: MultipleChoice

An engineer must investigate the problems on a web application and address them to related teams. The engineer verifies the application reachability from the single public IP

address with port and discovers that HTTPS access works to three servers of a network farm with IP 172.16.50.1 .2 and .4. but HTTPS access to the server with IP 172.16.50.3 does not work. Which problem type must be addressed as the cause for the case?

Options:

- A- VPN connectivity
- B- NAT
- C- blocked transport port
- D- proxy

Answer:

C

Explanation:

The issue described indicates that HTTPS (port 443) access is not working for one specific server (172.16.50.3) in the network farm, while it works for the others. This suggests that the transport port (port 443) might be blocked or filtered for this particular server.

Transport Port Blocking: Network firewalls or security groups might block specific ports for certain IP addresses.

Server Configuration: The server might not have the necessary configuration to accept HTTPS connections on port 443.

Troubleshooting: Verifying firewall rules, security group settings, and server configurations can help identify and resolve the issue.

Network Troubleshooting Guide: Troubleshooting Network Issues



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