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Cisco 200-901 Exam Topics:

Section	Weight	Objectives

Infrastructure and Automation	20%	1.Describe the value of model driven programmability for infrastructure automation 2.Compare controller-level to device-level management 3.Describe the use and roles of network simulation and test tools (such as VIRL and pyATS) 4.Describe the components and benefits of CI/CD pipeline in infrastructure automation 5.Describe principles of infrastructure as code 6.Describe the capabilities of automation tools such as Ansible, Puppet, Chef, and Cisco NSO 7.Identify the workflow being automated by a Python script that uses Cisco APIs including ACI, Meraki, Cisco DNA Center, or RESTCONF 8.Identify the workflow being automated by an Ansible playbook (management packages, user management related to services, basic service configuration, and start/stop) 9.Identify the workflow being automated by a bash script (such as file management, app install, user management, directory navigation) 10.Interpret the results of a RESTCONF or NETCONF query 11.Interpret basic YANG models 12.Interpret a unified diff 13.Describe the principles and benefits of a code review process 14.Interpret sequence diagram that includes API calls
Understanding and Using APIs	20%	1.Construct a REST API request to accomplish a task given API documentation 2.Describe common usage patterns related to webhooks 3.Identify the constraints when consuming APIs 4.Explain common HTTP response codes associated with REST APIs 5.Troubleshoot a problem given the HTTP response code, request and API documentation 6.Identify the parts of an HTTP response (response code, headers, body) 7.Utilize common API authentication mechanisms: basic, custom token, and API keys 8.Compare common API styles (REST, RPC, synchronous, and asynchronous) 9.Construct a Python script that calls a REST API using the requests library
Cisco Platforms and Development	15%	1.Construct a Python script that uses a Cisco SDK given SDK documentation 2.Describe the capabilities of Cisco network management platforms and APIs (Meraki, Cisco DNA Center, ACI, Cisco SD-WAN, and NSO) 3.Describe the capabilities of Cisco compute management platforms and APIs (UCS Manager, UCS Director, and Intersight) 4.Describe the capabilities of Cisco collaboration platforms and APIs (Webex Teams, Webex devices, Cisco Unified Communication Manager including AXL and UDS interfaces, and Finesse) 5.Describe the capabilities of Cisco security platforms and APIs (Firepower, Umbrella, AMP, ISE, and ThreatGrid) 6.Describe the device level APIs and dynamic interfaces for IOS XE and NX-OS 7.Identify the appropriate DevNet resource for a given scenario (Sandbox, Code Exchange, support, forums, Learning Labs, and API documentation) 8.Apply concepts of model driven programmability (YANG, RESTCONF, and NETCONF) in a Cisco environment 9.Construct code to perform a specific operation based on a set of requirements and given API reference documentation such as these: • Obtain a list of network devices by using Meraki, Cisco DNA Center, ACI, Cisco SD-WAN, or NSO • Manage spaces, participants, and messages in Webex Teams • Obtain a list of clients / hosts seen on a network using Meraki or Cisco DNA Center

Network Fundamentals	15%	1.Describe the purpose and usage of MAC addresses and VLANs 2.Describe the purpose and usage of IP addresses, routes, subnet mask / prefix, and gateways 3.Describe the function of common networking components (such as switches, routers, firewalls, and load balancers) 4.Interpret a basic network topology diagram with elements such as switches, routers, firewalls, load balancers, and port values 5.Describe the function of management, data, and control planes in a network device 6.Describe the functionality of these IP Services: DHCP, DNS, NAT, SNMP, NTP 7.Recognize common protocol port values (such as, SSH, Telnet, HTTP, HTTPS, and NETCONF) 8.Identify cause of application connectivity issues (NAT problem, Transport Port blocked, proxy, and VPN) 9.Explain the impacts of network constraints on applications

Application Deployment and Security	15%	1.Describe benefits of edge computing
		2.Identify attributes of different application deployment models (private cloud, public cloud, hybrid cloud, and edge)
		3.Identify the attributes of these application deployment types
		
		   • Virtual machines
		   • Bare metal
		   • Containers
		
		4.Describe components for a CI/CD pipeline in application deployments
		5.Construct a Python unit test
		6.Interpret contents of a Dockerfile
		7.Utilize Docker images in local developer environment
		8.Identify application security issues related to secret protection, encryption (storage and transport), and data handling
		9.Explain how firewall, DNS, load balancers, and reverse proxy in application deployment
		10.Describe top OWASP threats (such as XSS, SQL injections, and CSRF)
		11.Utilize Bash commands (file management, directory navigation, and environmental variables)
		12.Identify the principles of DevOps practices

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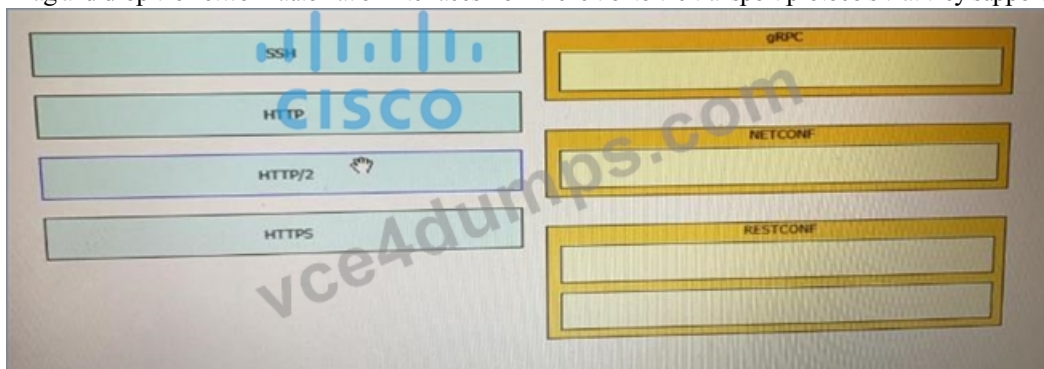
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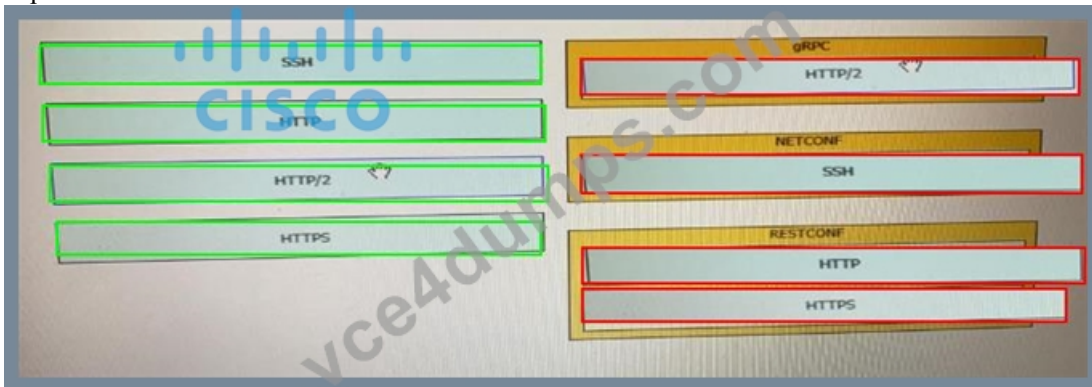
Cisco DevNet Associate Exam Sample Questions (Q71-Q76):

NEW QUESTION # 71
Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right.

Answer:

Explanation:

NEW QUESTION # 72

Refer to the exhibit. A network engineer executes the bash script shown. Which two things are achieved by running the script? (Choose two.)

```
#! /bin/bash
apt-get update
apt-get -y install git
cd Code/Network_Config
mkdir PRODUCTION
cd PRODUCTION
touch state.yml
vi state.yml
```

- A. A YAML file is removed.
- B. A directory called PRODUCTION is created.
- C. The engineer changes to the parent directory.
- D. A directory called state.yml is created.
- E. A YAML file is created.

Answer: B,E

NEW QUESTION # 73

Refer to the exhibit.

```
---
- hosts: switch2960cx
  gather_facts: no

  tasks:
    - ios_l2_interface:
        name: GigabitEthernet0/1
        state: unconfigured

    - ios_l2_interface:
```

```
        name: GigabitEthernet0/1
        mode: trunk
        native_vlan: 1
        trunk_allowed_vlans: 6-8
        state: present

  - ios_vlan:
        vlan_id: 6
        name: guest-vlan
        interfaces:
            - GigabitEthernet0/2
            - GigabitEthernet0/3

  - ios_vlan:
        vlan_id: 7
        name: corporate-vlan
        interfaces:
            - GigabitEthernet0/4

  - ios_vlan:
        vlan_id: 8
        name: iot-vlan
        interfaces:
            - GigabitEthernet0/5
```

Which two statement describe the configuration of the Ansible script is run? (Choose two.)

- A. GigabitEthernet0/2 and GigabitEthernet0/3 are access ports for VLAN 6.
- B. Traffic from ports 0/2 to 0/5 can flow on port 0/1 due to the trunk.
- C. Traffic can flow between ports 0/2 to 0/5 due to the trunk on port 0/1.
- D. Traffic on port 0/2 and 0/3 is connected to port 0/6.
- E. GiabitEthernet0/1 is left unconfigured.

Answer: A,B

Explanation:
The Ansible script provided configures the following:
GigabitEthernet0/1 is set as a trunk port with VLANs 6-8 allowed.
GigabitEthernet0/2 and GigabitEthernet0/3 are access ports assigned to VLAN 6.
GigabitEthernet0/4 is an access port for VLAN 7.
GigabitEthernet0/5 is an access port for VLAN 8.
Thus, the correct interpretations are: B. Traffic from ports 0/2 to 0/5 can flow on port 0/1 due to the trunk. D. GigabitEthernet0/2

and GigabitEthernet0/3 are access ports for VLAN 6.

NEW QUESTION # 74

What is the function of IP address in networking?

- A. specifies resource's location and the mechanism to retrieve it
- B. specifies the type of traffic that is allowed to roam on a network
- C. represents a network connection on specific devices
- D. represents the unique ID that is assigned to one host on a network

Answer: D

Explanation:
An IP (Internet Protocol) address is a unique identifier assigned to each device connected to a network that uses the IP for communication. It serves two main functions: identifying the host or network interface and providing the location of the host in the network. This unique ID allows devices to locate and communicate with each other over an IP-based network, ensuring that data sent across the network reaches the correct destination.
References:
* Cisco DevNet Associate Study Guide: IP Addressing (Chapter 4, Section: IP Addressing and Subnetting).

NEW QUESTION # 75

Drag and Drop Question
Drag and drop the code from the bottom onto the box where the code is missing to obtain an authorization token by using the Cisco DNA Center API. Not all options are used.

```
def dnac_login(host, username, password):

    url = "https://{}/api/system/v1/                    ".format(host)

    response = requests.request("                ", url,
                    auth=                    (username, password),
                    headers=headers, verify=False)

    return                    .json()["Token"]
```

```
   token         auth/token        response        request

HTTPBasicAuth    HTTPTokenAuth          POST
```

Answer:

Explanation:

```
def dnac_login(host, username, password):

    url = "https://{}/api/system/v1/   auth/token   ".format(host)

    response = requests.request("   POST   ", url,
              auth=   HTTPBasicAuth   (username, password),
              headers=headers, verify=False)

    return   response   .json()["Token"]
```

token		request

HTTPTokenAuth

NEW QUESTION # 76

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myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, www.stes.tyc.edu.tw, Disposable vapes

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