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Automating Cisco Data Center Networking Solutions



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Question: 1

Which two benefits of using network configuration tools such as Ansible and Puppet to automate data center platforms are valid? (Choose two)

- A. consistency of systems configuration
- B. automation of repetitive tasks
- C. ability to create device and interface groups
- D. ability to add VLANs and routes per device
- E. removal of network protocols such as Spanning Tree

Answer: A, B

Explanation:

Consistency of Systems Configuration: Network configuration tools like Ansible and Puppet ensure that configurations across multiple devices in a data center are uniform. This consistency reduces the risk of errors that can occur when configurations are applied manually, leading to a more stable and reliable network infrastructure¹².

Automation of Repetitive Tasks: These tools automate routine tasks such as deploying updates, applying configurations, and provisioning systems. By automating these tasks, data center operations become more efficient, reducing the time and effort required for manual configuration and increasing productivity

Question: 2

DRAGDROP

Drag and drop the code to complete an Ansible playbook that creates a new tenant. Not all options are used.

- name: Add a new tenant

host: apic

username: admin

password: SomeSecretPassword

description: MyCompany tenant

Tenant_name: MyCompany	state: absent
state: query	tenant: MyCompany
aci_tenant:	state: present
state: create	aci_tenant_name:

Answer:

- name: Add a new tenant

aci_tenant:

host: apic

username: admin

password: SomeSecretPassword

tenant: MyCompany

description: MyCompany tenant

state: absent

Tenant_name: MyCompany	state: absent
state: query	tenant: MyCompany
aci_tenant:	state: present
state: create	aci_tenant_name:

Question: 3

Refer to the exhibit:

```

switch(config)# telemetry
switch(config-telemetry)# sensor-group 100
switch(config-tm-sensor)# path sys/intf/phys-[eth1/1] depth 0
switch(config-tm-sensor)# destination-group 100
switch(config-tm-dest)# ip address 1.2.3.4 port 50004
switch(config-tm-sensor)# ip address 1.2.3.4 port 50005
switch(config-tm-sensor)# destination-group 200
switch(config-tm-dest)# ip address 5.6.7.8 port 50001 protocol HTTP encoding JSON
switch(config-tm-dest)# ip address 1.4.8.2 port 50003
switch(config-tm-dest)# subscription 100
switch(config-tm-sub)# snsr-grp 100 sample-interval 10000
switch(config-tm-sub)# dst-grp 100
switch(config-tm-sub)# dst-grp 200

```

Refer to the exhibit, Where and how often does the subscription stream data for Ethernet port 1/1?

- A. to four different destinations every 10000 microseconds
- B. to four different destinations every 100 milliseconds
- C. to four different destinations every 10 seconds

D. to four different destinations every 10000 seconds

Answer: B

Explanation:

The configuration snippet from a network device indicates that telemetry settings are being configured for Ethernet port 1/1. The data is collected and streamed to four different destinations, each with a unique port number. The sample-interval is set to '100000', which is typically in microseconds. Therefore, the data is streamed every 100 milliseconds, as 100,000 microseconds equals 100 milliseconds.

Implementing Automation for Cisco Data Center Solutions (DCAUI) course page.

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Question: 4

Refer to the exhibit

```
mo_dir = cobra.mit.access.MoDirectory(cobra.mit.session.LoginSession(apic_url, username, password))
mo_dir.login()
cq = cobra.mit.access.ClassQuery('fvCEp')
cq.subtree = 'full'
objlist = mo_dir.query(cq)
for mo in objlist:
    print "MAC: " + mo.mac + "|" + "IP: " + mo.ip
```

Which action does the execution of this ACI Cobra Python code perform?

- A. It prints all LLDP neighbor MAC and IP addresses
- B. It prints all Cisco Discovery Protocol neighbor MAC and IP addresses
- C. It prints all endpoint MAC and IP addresses
- D. It prints all APIC MAC and IP addresses

Answer: C

Explanation:

The ACI Cobra SDK is a Python library provided by Cisco for interacting with the Application Centric Infrastructure (ACI). The code in the image uses this SDK to log into an APIC controller, which is the central management entity for the ACI fabric. After logging in, it creates a class query for 'fvCEp', which stands for Fabric Endpoint. This class contains information about endpoints within the ACI fabric, including their MAC and IP addresses.

The 'subtree' property set to 'full' indicates that the query will return all objects within this class's subtree, meaning it will retrieve detailed information about each endpoint.

The mo_dir.query(cq) method executes this query against the APIC.

Finally, for each object returned by the query (each endpoint), it prints out two attributes: 'mac' and 'ip'. These attributes correspond to the MAC address and IP address of each endpoint in the ACI fabric. Therefore, option C is correct as this code prints all endpoint MAC and IP addresses.

Question: 5

What is a description of a Cisco UCS Director script module?

- A. function to convert internal workflow tasks into Python scripts
- B. place to store custom workflow scripts, jars, and custom lists of values for use in custom workflow
- C. place to store external scripts that are not related to Cisco UCS Director
- D. place to store imported scripts. Bash, and custom Python code for use in custom workflow tasks

Answer: B

Explanation:

The Cisco UCS Director script module serves as a centralized repository within the UCS Director platform. It allows users to store custom scripts, Java archives (jars), and customized lists of values, which are crucial for creating or modifying workflows to automate tasks in a data center environment. By utilizing the script module, administrators can enhance workflow functionality with their own scripts or existing ones, thereby streamlining operations.

Cisco UCS Director Scripting Guide

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