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Automating and Programming Cisco Enterprise Solutions v1.0 (300-435)

Exam Description: Automating and Programming Cisco Enterprise Solutions v1.0 (ENAUTO 300-435) is a 90-minute exam associated with the CCNP Enterprise Certification and DevNet Professional Certification. This exam tests a candidate's knowledge of implementing Enterprise automated solutions, including programming concepts, Python programming, APIs, controllers and automation tools. The course, Implementing Cisco Enterprise Automation Solutions, helps candidates to prepare for this exam.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 10%
 - 1.0 Network Programmability Foundation
 - 1.1 Utilize common version control operations with git (add, clone, push, commit, diff, branching, merging conflict)
 - 1.2 Describe characteristics of API styles (REST and RPC)
 - 1.3 Describe the challenges encountered and patterns used when consuming APIs synchronously and asynchronously
 - 1.4 Interpret Python scripts containing data types, functions, classes, conditions, and looping
 - 1.5 Describe the benefits of Python virtual environments
 - 1.6 Explain the benefits of using network configuration tools such as Ansible and Puppet for automating IOS XE platforms
- 10%
 - 2.0 Automate APIs and Protocols
 - 2.1 Identify the JSON instance based on a YANG model
 - 2.2 Identify the XML instance based on a YANG model
 - 2.3 Interpret a YANG module tree generated per RFC8340
 - 2.4 Compare functionality, benefits, and uses of OpenConfig, IETF, and native YANG models
 - 2.5 Compare functionality, benefits, and uses of NETCONF and RESTCONF
- 20%
 - 3.0 Network Device Programmability
 - 3.1 Implement device management and monitoring using NetMiko
 - 3.2 Construct a Python script using ncclient that uses NETCONF to manage and monitor an IOS XE device
 - 3.3 Configure device using RESTCONF API utilizing Python requests library
 - 3.4 Utilize Ansible to configure an IOS XE device
 - 3.5 Configure a subscription for model driven telemetry on an IOS XE device (CLI, NETCONF, and RESTCONF)
 - 3.6 Compare publication and subscription telemetry models
 - 3.6.a Periodic / cadence
 - 3.6.b On-change

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Cisco 300-435 examination is an essential certification exam for professionals who want to demonstrate their skills and knowledge in network automation and programming using Cisco technologies. 300-435 exam is comprehensive, challenging, and covers a wide range of topics related to network automation and programming. Passing this certification exam will not only enhance the candidate's career prospects but will also demonstrate their commitment to their profession and their willingness to keep up with the latest industry trends and technologies.

>> 300-435 Paper <<

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Cisco Automating and Programming Cisco Enterprise Solutions Sample Questions (Q99-Q104):

NEW QUESTION # 99

```
GET: https://dnacsrv/api/v1/network-device
{
  "response": [
    {
      "type": "Cisco Catalyst 9300 switch",
      "errorCode": null,
      "family": "Switches and Hubs",
      "location": "DC1",
      "role": "ACCESS",
      "macAddress": "a1:2b:30:40:41:50",
      "hostname": "cat_9k_1",
      "serialNumber": "FCW2136L0AK",
      "softwareVersion": "16.6.1",
      "locationName": null,
      "upTime": "13 days, 18:30:33.81",
      "softwareType": "IOS-XE",
      "collectionStatus": "Managed",
      "managementIpAddress": "10.10.22.66",
      "platformId": "C9300-24UX",
      "reachabilityStatus": "Reachable",
      "series": "Cisco Catalyst 9300 Series Switches",
      "snmpContact": "",
      "snmpLocation": ""
    }
  ]
}
```

Refer to the exhibit. A GET request is issued to the Cisco DNA Center REST API. Drag and drop the GET request URL subpaths from the left onto the objectives on the right. Not all options are used.

/api/v1/network-device?softwareType=IOS-XE&softwareVersion=16.4.2

List devices that are configured by using SNMP to be in the DC2 location

/api/v1/network-device?location=DC2

List device types

/api/v1/network-device?(softwareType=IOS-XE) AND (softwareVersion=16.4.2)

List the device that has an IP address of 10.222.10.35

/api/v1/network-device?family=Switches and Hubs

Display Cisco IOS XE devices that have IOS version 16.4.2

/api/v1/network-device?ipAddress=10.222.10.35

/api/v1/network-device?snmpLocation=DC2

/api/v1/network-device?managementIpAddress=10.222.10.35

/api/v1/network-device?family=cat_9k_1

Answer:

Explanation:

```
/api/v1/network-device?softwareType=IOS-XE&softwareVersion=16.4.2
```

```
/api/v1/network-device?location=DC2
```

```
/api/v1/network-device?(softwareType=IOS-XE) AND (softwareVersion=16.4.2)
```

```
/api/v1/network-device?family=Switches and Hubs
```

```
/api/v1/network-device?ipAddress=10.222.10.35
```

```
/api/v1/network-device?snmpLocation=DC2
```

```
/api/v1/network-device?managementIpAddress=10.222.10.35
```

```
/api/v1/network-device?family=cat_9k_1
```

```
/api/v1/network-device?softwareType=IOS-XE&softwareVersion=16.4.2
```

```
/api/v1/network-device?location=DC2
```

```
/api/v1/network-device?(softwareType=IOS-XE) AND (softwareVersion=16.4.2)
```

```
/api/v1/network-device?family=Switches and Hubs
```

Reference:

https://meraki.cisco.com/lib/pdf/meraki_whitepaper_captive_portal.pdf

NEW QUESTION # 100

Which field must be completed in Cisco DNA Center when a network discovery is initiated?

- A. Discovery type
- B. Enable password
- C. NETCONF port
- D. SNMP read community string

Answer: A

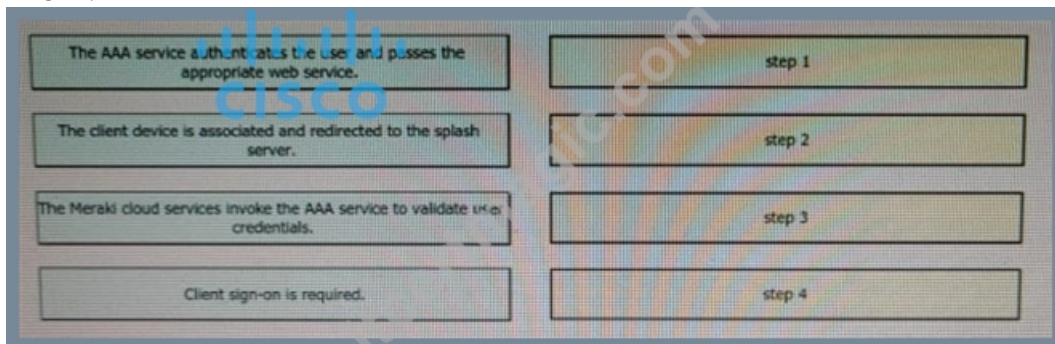
Explanation:

Section: Cisco DNA Center

Explanation/Reference: https://www.cisco.com/c/dam/en_us/training-events/product-training/dnac-13/DNAC13_AddingDevicesByUsingDiscovery.pdf (p.26)

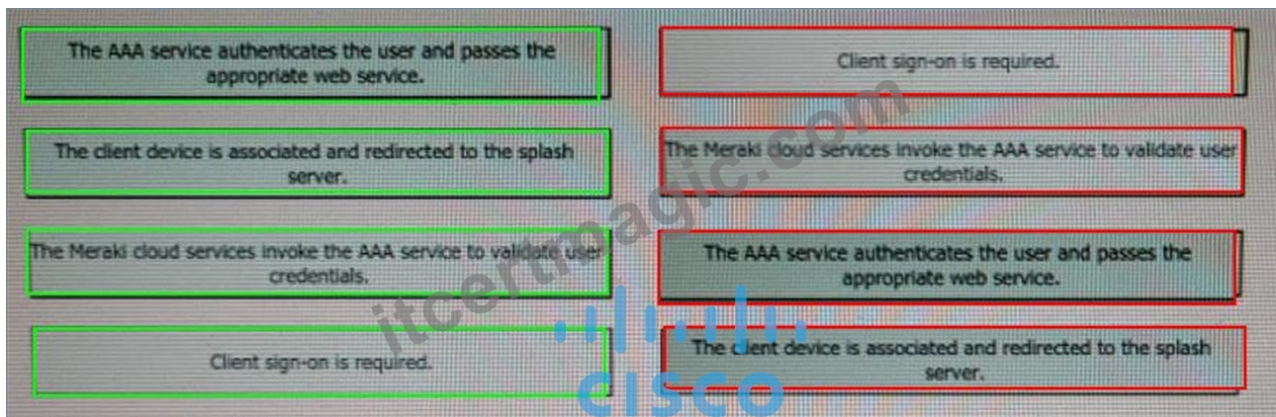
NEW QUESTION # 101

Drag and drop the steps from the left into the order on the right to create an end-to-end flow for Meraki Splash Screen using EXCAP.



Answer:

Explanation:



NEW QUESTION # 102

Information about a rebooted device needs to be displayed with an ID of 260faff9-2d31-4312-cf96-143b46db0211 using the Cisco SD-WAN vManage Administration APIs. The API documentation states that deviceId is a required request parameter. Fill in the blank to create the REST call.

<https://vmanage-ip-address:8443/dataservice/device/action/reboot> 260faff9-2d31-4312-cf96-143b46db0211

Answer:

Explanation:
?deviceId=

NEW QUESTION # 103

What is an advantage of software-defined networks as compared to traditional networks?

- A. They reduce complexity by coupling the control and the data plane.
- **B. They deliver a distributed management architecture that provides better resilience to errors.**
- C. They enable older hardware to be repurposed without an investment in new infrastructure.
- D. They simplify operations by creating a concrete copy of the network.

Answer: B

NEW QUESTION # 104

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