

Free PDF 300-435 - Automating and Programming Cisco Enterprise Solutions Perfect Free Download Pdf



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 Automating and Programming Cisco Enterprise Solutions Sample Questions (Q86-Q91):

NEW QUESTION # 86

The automation engineer must replace device configuration using RESTCONF. How is this configured using the Python library Requests?

- A. patch()
- B. delete()
- C. post()
- D. put()

Answer: D

Explanation:

Reference:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.html

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.html

NEW QUESTION # 87

When accessing the /device-detail endpoint in Cisco DNA Center, what is an acceptable SearchBy parameter value?

- A. platform type
- B. IP address
- C. software version
- D. MAC address

Answer: D

NEW QUESTION # 88

Refer to the exhibit.



`"https://vmanage-ip-address:8443/dataservice/template/policy/vsmart/activate/{policyId}"`

A Python script must be created to deactivate vSmart Policy Cisco SD-WAN vManage Configuration APIs.

The documentation states the URL is as shown in the exhibit for this REST call using POST, and that

"policyId" is a required request parameter. Which line of Python code makes this call, assuming the variable

"s" is a valid Requests session object and the variable "policy-id" is the policyId?

- A. `s.port('https://vmanage:8443/dataservice/template/policy/vsmart/activate?policyId=%s' % policy_id)`
- B. `s.port('https://vmanage:8443/dataservice/template/policy/vsmart/activate/%s' % policy_id)`
- C. `s.port('https://vmanage:8443/dataservice/template/policy/vsmart/activate/', data = {'policyId': policy_id})`
- D. `s.port('https://vmanage:8443/dataservice/template/policy/vsmart/activate&policyId=%s' % policy_id)`

Answer: B

NEW QUESTION # 89

Which action allows for creating a Python script to pull inventory for Cisco SD-WAN Viptela devices using the Viptela library in the code?

- A. `from viptela.library import Viptela`
- B. `from viptela.viptela import Viptela`
- C. `from viptela.devices import Viptela`

- D. from urllib.request import Viptela

Answer: B

Explanation:

:

The viptela.devices import viptela can be used to put inventory from Cisco SD WAN viptela devices.

NEW QUESTION # 90

```
neighbors = ['s1', 's2', 's3']  
switch = {'hostname': 'nexus', 'os': '7.0.3', 'neighbors': neighbors}  
print(switch['neighbors'][1])
```

Refer to the exhibit. What is the result when running the Python scripts?

- A. s2
- B. s1
- C. s1, s2, s3
- D. s3

Answer: A

Explanation:

Section: Network Programmability Foundation

Explanation:



NEW QUESTION # 91

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