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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 Certification Exam is a part of the Cisco Certified DevNet Professional certification program. Automating and Programming Cisco Enterprise Solutions certification is focused on validating the skills and knowledge required for developing and maintaining applications built on Cisco platforms. Automating and Programming Cisco Enterprise Solutions certification exam validates the ability to create and implement automation solutions, including those related to network infrastructure, security, collaboration, and compute.

Cisco Automating and Programming Cisco Enterprise Solutions Sample Questions (Q178-Q183):

NEW QUESTION # 178

Which function is available in NETCONF and unavailable in RESTCONF?

- A. Uses the YANG data models to communicate.
- B. Support JSON and data encoding.
- C. Validates the content of a candidate datastore.
- D. Configuration changes are automatically activated.

Answer: A

NEW QUESTION # 179

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:

To create a Python script that pulls inventory for Cisco SD-WAN Viptela devices using the Viptela library, the correct action is:

* C: from viptela.viptela import Viptela. This import statement is used to import the Viptela class from the viptela.viptela module, which is part of the Python SDK for Cisco Viptela vManage. This SDK allows for interaction with Cisco SD-WAN Viptela devices through various API calls, enabling the automation of tasks such as pulling inventory data.

References:

* CiscoDevNet/python-viptela: Cisco Viptela vManage Python CLI/SDK on GitHub

NEW QUESTION # 180

Which two types of solution are built with the Meraki Location Scanning API? (Choose two.)

- A. Sense
- B. guest Wi-Fi
- C. networking automation
- D. wayfinder
- E. mapping

Answer: D,E

Explanation:

The Meraki Location Scanning API is designed to provide location-based services. Mapping and wayfinding solutions are built using this API to help users navigate physical spaces, making options B and E the correct answers. References := (Automating Cisco Enterprise Solutions Official Cert Guide)

NEW QUESTION # 181

A Cisco DNA Center script must be written to retrieve a list of interfaces on a switch. Drag and drop the API calls that are needed to return the list of interfaces using the Command Running APIs from the left into the correct sequence on the right.

Get task by ID.	run 1
Get file by ID.	run 2
Run read-only commands on devices.	run 3
Get device list.	run 4

Answer:

Explanation:

Get task by ID.	Run read-only commands on devices.
Get file by ID.	Get device list.
Run read-only commands on devices.	Get file by ID.
Get device list.	Get task by ID.

NEW QUESTION # 182

Which two features are characteristics of software-defined networks when compared to traditional infrastructure? (Choose two.)

- A. changed manually
- B. use overlay networks
- C. require software development experience to manage
- D. designed to change
- E. configured box-by-box

Answer: B,D

Explanation:

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/VMDC/SDN/SDN.html

NEW QUESTION # 183

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