Cisco

300-435 Exam

Automating and Programming Cisco Enterprise Solutions

Questions & Answers
Demo

Version: 10.0

Question: 1

What are two characteristics of RPC API calls? (Choose two.)

A. They can be used only on network devices.
B. They use only UDP for communications.
C. Parameters can be passed to the calls.
D. They must use SSL/TLS.
E. They call a single function or service.

Answer: CD

Reference: https://pubs.opengroup.org/onlinepubs/9629399/chap6.htm

Question: 2

Which two actions do Python virtual environments allow users to perform? (Choose two.)

A. Simplify the CI/CD pipeline when checking a project into a version control system, such as Git.
B. Efficiently port code between different languages, such as JavaScript and Python.
C. Run and simulate other operating systems within a development environment.
D. Quickly create any Python environment for testing and debugging purposes.
E. Quickly create an isolated Python environment with module dependencies.

Answer: DE

Reference: https://realpython.com/python-virtual-environments-a-primer/

Question: 3

What are two benefits of leveraging Ansible for automation of Cisco IOS XE Software? (Choose two.)

A. Ansible playbooks are packaged and installed on IOS XE devices for automatic execution when an IOS device reboots.
B. All IOS XE operating systems include Ansible playbooks for basic system administration tasks.
C. It is a device-independent method for automation and can be used with any type of device or operating system.
D. Ansible playbooks can be written from the IOS XE EXEC command line to configure the device itself.
E. It does not require any modules of software except SSH to be loaded on the network device.

Answer: CE

Reference:
https://developer.cisco.com/learning/modules/intro-ansible-iosxe/ansible-overview/step/4

Question: 4

Refer to the exhibit.

```
return_val=
{
  "alertId": "643451796765672516",
  "alertType": "appliances went down",
  "deviceMac": "e0:55:3d:6c:c1:7a",
  "deviceName: "MX65 c1:7a",
  "deviceSerial": "Q2QN-58EA-XXXX",
  "deviceUrl": "https://n143.meraki.com/Branch-1/n/.../manage/nodes/new_wired_status",
  "networkId": "L_1234567890",
  "networkName": "Branch 1",
  "networkUrl": "https://n143.meraki.com/Branch-1/n/.../manage/nodes/wired_status",
  "occuredAt": "2018-11-10T18:45:20.000000Z",
  "organizationId": "1234567",
  "organizationName": "Meraki Demo",
  "organizationUrl": "https://n143.meraki.com/o/.../manage/organization/overview",
  "sentAt: "2018-11-10T18:50:30.479982Z",
  "SharedSecret": "asdf1234",
  "version": "0.1"
}
```

The task is to create a Python script to display an alert message when a Meraki MX Security Appliance goes down. The exhibit shows sample data that is received. Which Python snippet displays the device name and the time at which the switch went down?

A.
```
with return_val:
   print("The Switch: "+deviceName+ ",
   went down at: "+occurredAt)
```

B.
```
print("The Switch: "+return_val.deviceName+ ", \
went down at: "+return_val.occurredAt)
```

C.
```
print("The Switch: "+return_val['deviceName']+ ", \
went down at: "+return_val['occurredAt']")
```

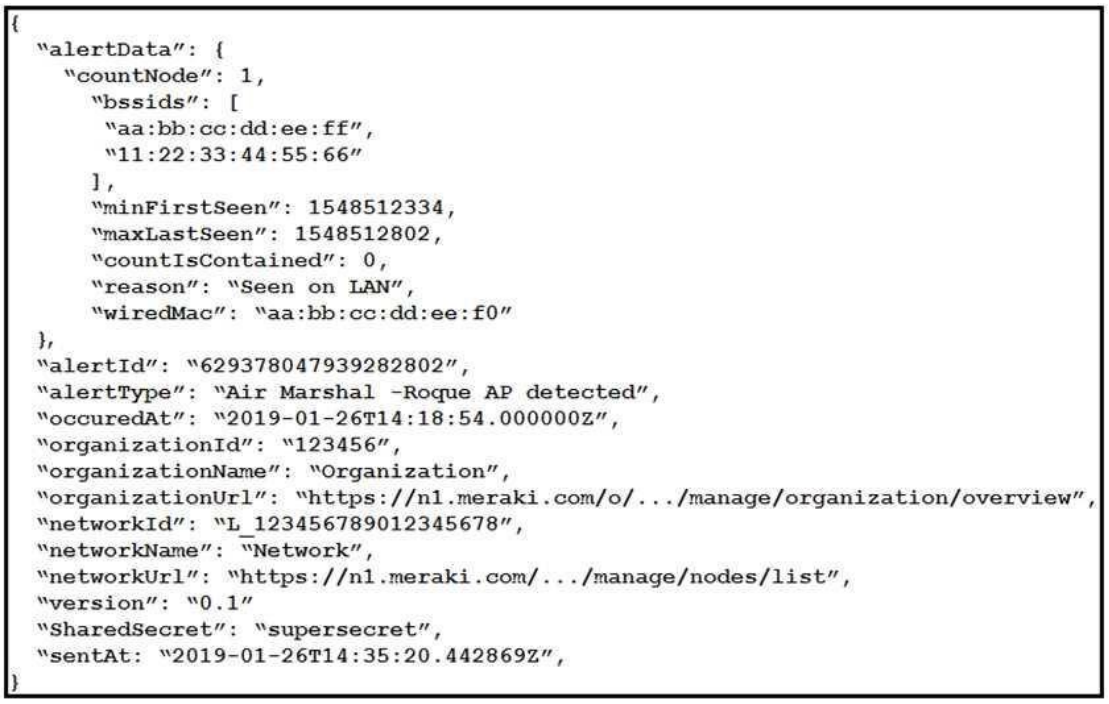
D.
```
with items as return_val:
   print("The Switch: "+items.deviceName+ ",
   went down at: "+items.occurredAt)
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

Question: 5

Refer to the exhibit.



```
{
  "alertData": {
    "countNode": 1,
      "bssids": [
       "aa:bb:cc:dd:ee:ff",
       "11:22:33:44:55:66"
      ],
      "minFirstSeen": 1548512334,
      "maxLastSeen": 1548512802,
      "countIsContained": 0,
      "reason": "Seen on LAN",
      "wiredMac": "aa:bb:cc:dd:ee:f0"
  },
  "alertId": "629378047939282802",
  "alertType": "Air Marshal -Roque AP detected",
  "occuredAt": "2019-01-26T14:18:54.000000Z",
  "organizationId": "123456",
  "organizationName": "Organization",
  "organizationUrl": "https://n1.meraki.com/o/.../manage/organization/overview",
  "networkId": "L_123456789012345678",
  "networkName": "Network",
  "networkUrl": "https://n1.meraki.com/.../manage/nodes/list",
  "version": "0.1"
  "SharedSecret": "supersecret",
  "sentAt: "2019-01-26T14:35:20.442869Z",
}
```

The goal is to write a Python script to automatically send a message to an external messaging application when a rogue AP is detected on the network. The message should include the broadcast SSID that is in the alert. A function called “send_to_application” is created, and this is the declaration:

send_to_application(message)

The exhibit also shows the data that is received by the application and stored in the variable return_val. Which Python code completes the task?

A.
```
bssids =return_val["bssids"]
for number in range(return_val["alertData"]["countNode"]):
  send_to_application ("ALERT: detected a bssid on the
  network: "+ return_val["alertData"][bssids][number])
```

B.
```
bssids =return_val["bssids"]
for value in bssids:
  send_to_application ("ALERT: detected a bssid on the
  network: "+value)
```

C.
```
count = retutn_val["alertData"]["countNode"]
bssids =return_val["alertData"][count]["bssids"]
for value in bssids:
  send_to_application ("ALERT: detected a bssid on the
  network: "+value)
```

D.
```
bssids =return_val["alertData"]["bssids"]
for value in bssids:
  send_to_application ("ALERT: detected a bssid on the
  network: "+value)
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

Explanation
For number in range value is required for the application to send the alert. Bssids are also included.