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DevNet Associate (DEVASC)

Cisco 200-901

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Topic Break Down

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QUESTION NO: 1 - (DRAG DROP)

Drag and drop the characteristics from the left onto the corresponding categories on the right to compare RESTful and RPC APIs.

stateless

session-based

must use HTTP

sometimes uses HTTP

RESTful

RPC

ANSWER:

stateless

session-based

must use HTTP

sometimes uses HTTP

RESTful

stateless

sometimes uses HTTP

RPC

session-based

must use HTTP

Explanation:



QUESTION NO: 2

What are two key capabilities of Cisco Finesse? (Choose two.)

- A. Finesse includes an RPC API that enables the development of custom gadgets.
- B. Agents access Finesse from a browser without needing to install or configure anything on the client machine.
- C. Finesse automatically collects telemetry data
- D. An OpenDNS utility is preconfigured and ready to use on Finesse.
- E. Gadget containers provide a seamless experience in a single user interface.

ANSWER: B E

QUESTION NO: 3

```

1  - hosts: nxos_rtr
2  gather_facts: false
3  tasks:
4  - nxos_hsrp:
5      group: "{{ item.group }}"
6      vip: "{{ item.vip }}"
7      priority: 115
8      interface: "{{ item.interface }}"
9      preempt: enabled
10     auth_type: md5
11     auth_string: "s3cuR3"
12     version: 2
13     host: "{{ hostvars['rtr-la']['ansible_ssh_host'] }}"
14     with_items:
15         - "{{ hsrp_groups }}"
16     delegate_to: "{{ hostvars['srv-la']['ansible_ssh_host'] }}"

```

Refer to the exhibit. An engineer runs a network that consists of Cisco Nexus devices. The network is distributed between data centers in different locations. The switches are configured using standalone connections and a single point of failure. Which process is being automated by the Ansible playbook?

- A. enabling HSRP on the nxos_rtr inventory host
- B. enabling HSRP on the rtr-1a inventory host
- C. executing HSRP configuration from the Ansible controller node
- D. executing HSRP configuration from the srv-1a inventory host

ANSWER: B

QUESTION NO: 4

Which two commands download and execute an Apache web server container in Docker with a port binding 8080 in the container to 80 on the host? (Choose two.)

- A. docker pull apache
- B. docker run -p 8080:80 httpd
- C. docker run -p 80:8080 httpd
- D. docker pull httpd
- E. docker pull https

ANSWER: C D

QUESTION NO: 5

What is a benefit of test-driven development?

- A. strict adherence to product requirements
- B. faster releases that have minimal features
- C. early customer involvement
- D. increased code quality

ANSWER: A

QUESTION NO: 6

What are two benefits of model-driven programmability? (Choose two.)

- A. easier to design, deploy, and manage APIs
- B. single choice of transport, protocol, and encoding
- C. models decoupled from transport, protocol, and encoding
- D. model-based, structured, and human friendly
- E. model-driven APIs for abstraction and simplification

ANSWER: C E

Explanation:

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2018/pdf/BRKSPG-2303.pdf>S

QUESTION NO: 7

```
import requests

base url = f"https://webexapis.com/v1/people"

headers = {
    "Accept": "application/json"
}

person_email = 'customer@company.com'
url = f"{base url}?email={person_email}"

response = requests.request("GET", url, headers=headers)

if response.status_code == 200 :
    print(f"OK - Added {person_email}")
else:
    print(f"ERROR CODE {response.status_code}")
```

Refer to the exhibit. A collaboration engineer has developed a script to automate the gathering of information by providing the email address of the individual. When the engineer tests the script, a 401 error is received. Which command fixes the script?

- A. Add "Authorization": "Bearer " to the headers.
- B. Add "Authentication": "Basic " in the base_url after "https://".
- C. Add ":@" in the base_url after "https://".
- D. Add "Authentication": "Bearer " to the headers.

ANSWER: A

QUESTION NO: 8

Which implementation creates a group of devices on one or more LANs that are configured to communicate as if they were attached to the same wire?

- A. WLAN
- B. VLAN
- C. IPsec
- D. HSRP

ANSWER: B

QUESTION NO: 9

What are two advantages of version control software? (Choose two.)

- A. It supports tracking and comparison of changes in binary format files.
- B. It allows new team members to access the current code and history.
- C. It supports comparisons between revisions of source code files.
- D. It provides wiki collaboration software for documentation.
- E. It allows old versions of packaged applications to be hosted on the Internet.

ANSWER: A B

QUESTION NO: 10

When a Cisco IOS XE networking device is configured by using RESTCONF, what is the default data encoding method?

- A. application/yaml-data+json
- B. application/yang-data+json
- C. application/xml-data+json
- D. application/json-data+xml

ANSWER: D

QUESTION NO: 11 - (DRAG DROP)

DRAG DROP

```
class Native.Interface.FastEthernet
Bases: Entity
Class Hierarchy: Native Interface FastEthernet
This class represents configuration data.
FastEthernet IEEE 802.3
name(key)
  type: str
  pattern: (([0-9])/([0-9])/([1-3][0-9]|4[0-8]|([0-9])\([0-9]+\))?)
description
  Interface specific description
  type: str
  pattern: *
flowcontrol
  Configure flow operation
  type: Flowcontrol
isis
  IS-IS commands
  type: Isis
keepalive
  Enable keepalive
  type: bool
keepalive_settings
  type: KeepaliveSettings
```

Refer to the exhibit. Drag and drop the code snippets from the bottom to the blanks in the code to enable keepalive for the FastEthernet 2/0 interface. Not all options are used.

Select and Place:

```
from ydk.services import CRUDService
from ydk.providers import NetconfServiceProvider as nc
from ydk.models.cisco ios xe import Cisco IOS XE native as model
ip = '10.10.20.48'
prtcl = 'ssh'
user = 'developer'
psw = 'P@s$W0rD'
port = 830
provider = nc(address=ip, port=port, username=user, password=psw, protocol=prtcl)
crud = CRUDService()
```

```
interface.name = '2/0'
```

```
if interface data:
    print('Keepalive is enabled.')
else:
    print('Keepalive is not enabled.')
```

```
interface_data = crud.update(provider, interface)
```

```
interface.keepalive = True
```

```
interface_data = crud.read(provider, interface)
```

```
interface = model.Native.Interface.FastEthernet()
```

```
interface.FastEthernet.keepalive_settings.keepalive = True
```

```
interface = model.Native.Interface()
```

ANSWER:

```
from ydk.services import CRUDService
from ydk.providers import NetconfServiceProvider as nc
from ydk.models.cisco ios xe import Cisco IOS XE native as model
ip = '10.10.20.48'
prtcl = 'ssh'
user = 'developer'
psw = 'P@s$W0rD'
port = 830
provider = nc(address=ip, port=port, username=user, password=psw, protocol=prtcl)
crud = CRUDService()

interface = model.Native.Interface.FastEthernet()
interface.name = '2/0'

interface.keepalive = True

interface_data = crud.read(provider, interface)

if interface data:
    print('Keepalive is enabled.')
else:
    print('Keepalive is not enabled.')
```

```
interface_data = crud.update(provider, interface)
```

```
interface.keepalive = True
```

```
interface_data = crud.read(provider, interface)
```

```
interface = model.Native.Interface.FastEthernet()
```

```
interface.FastEthernet.keepalive_settings.keepalive = True
```

```
interface = model.Native.Interface()
```

Explanation:

QUESTION NO: 12

Refer to the exhibit.

Generating Client ID and API Key:

- Log in to your AMP for Endpoints Console.
- Go to Accounts > Business Settings.
- Click Configure API Credentials under Features to generate the Client ID and secure API Key.

Once you have the API client ID and API key, you can make the API calls as follows:

```
https://<your_client_id>:<your_api_key>@<api_endpoint>
```

Alternatively you can use Basic HTTP Authentication. Base 64 encode the string ":", and send that prefixed with the string "Basic" as the authorization header. For instance, if your client_id was 1234, and your api_key was "atest", then it would be base64 encoded to "MTIzNDphdGVzdA==", and your header would be:

```
Authorization: Basic MTIzNDphdGVzdA==
```

The documentation outlines how to use credentials for the AMP API. Which script successfully performs an API call using basic authentication?

- A.

```
import requests
amp_auth_token = 'alb2c3d4e5f6g7h8i9j0 k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
    auth=(amp_auth_token))
print(request.json())
```
- B.

```
import requests
amp_client_id = 'alb2c3d4e5f6g7h8i9j0'
amp_api_key = 'alb2c3d4-e5f6-g7h8-i9j0-k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
    auth=(amp_client_id, amp_api_key))
print(request.json())
```
- C.

```
import requests
amp_client_id = 'alb2c3d4e5f6g7h8i9j0'
amp_api_key = 'alb2c3d4-e5f6-g7h8-i9j0-k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url),
print(request.json())
```
- D.

```
import requests
amp_client_id = 'alb2c3d4e5f6g7h8i9j0'
amp_login_password = '10g1n_p@ssw0rd'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
    auth=(amp_client_id, amp_login_password))
print(request.json())
```

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

ANSWER: B

QUESTION NO: 13

Which operation is performed with YANG model-driven programmability in NX-OS?

- A. configure a device with native and OpenConfig-based models
- B. bootstrap a device that has a factory-default configuration
- C. send CLI commands to a device and retrieve output in JSON format
- D. run Linux commands natively on the device

ANSWER: A**Explanation:**

Reference: <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/white-paper-c11-741518.html>

QUESTION NO: 14

Refer to the exhibit.

```
<books>
  <science>
    <biology>10.00</biology>
    <geology>9.00</geology>
    <chemistry>8.00</chemistry>
  </science>
  <math>
    <calculus>20.00</calculus>
    <algebra>12.00</algebra>
  </math>
</books>
```

Which JSON is equivalent to the XML-encoded data?

```
A. [ {  
  "books": {  
    "science": {  
      "biology": "10.00",  
      "geology": "9.00",  
      "chemistry": "8.00"  
    },  
    "math": {  
      "calculus": "20.00",  
      "algebra": "12.00"  
    }  
  }  
}]
```

```
B. {  
  "books": {  
    "science": {  
      "biology": "10.00",  
      "geology": "9.00",  
      "chemistry": "8.00"  
    },  
    "math": {  
      "calculus": "20.00",  
      "algebra": "12.00"  
    }  
  }  
}
```

```
C. {
  "books": [
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}

D. {
  "books": [
    "science", {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math", {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}
```

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

ANSWER: C

Explanation:

Reference: <https://www.guru99.com/json-vs-xml-difference.html>

QUESTION NO: 15

```
#!/bin/bash
apt-get update
apt-get -y install git
cd Code/Network_Config
mkdir PRODUCTION
cd PRODUCTION
touch state.yml
vi state.yml
```

Refer to the exhibit. A network engineer executes the bash script shown. Which two things are achieved by running the script? (Choose two.)

- A. A directory called PRODUCTION is created.
- B. The engineer changes to the parent directory.
- C. A YAML file is created.
- D. A YAML file is removed.
- E. A directory called state.yml is created.

ANSWER: A C**QUESTION NO: 16**

Which two statements describe the advantages of using a version control system? (Choose two.)

- A. It allows for branching and merging so that different tasks are worked on in isolation before they are merged into a feature or master branch.
- B. It provides tooling to automate application builds and infrastructure provisioning.
- C. It allows multiple engineers to work against the same code and configuration files and manage differences and conflicts.
- D. It provides a system to track User Stories and allocate to backlogs.
- E. It allows developers to write effective unit tests.

ANSWER: A C

QUESTION NO: 17

Which platform has an API that has the capability to obtain a list of vulnerable software on user devices?

- A. Cisco Advanced Malware Protection
- B. Cisco Umbrella
- C. Cisco Identity Services Engine
- D. Cisco Firepower

ANSWER: A

QUESTION NO: 18

```
1 <routing xmlns="urn:ietf:params:xml:ns:yang:ietf-routing">
2   <routing-instance>
3     <name>default</name>
4     <description>default-vrf [read-only]</description>
5     <routing-protocols>
6       <routing-protocol>
7         <type xmlns:ospf="urn:ietf:params:xml:ns:yang:ietf-
*         ospf">ospf:ospfv2</type>
8         <name>100</name>
9         <ospf xmlns="urn:ietf:params:xml:ns:yang:ietf-ospf">
10          <instance>
11            <af xmlns:rt="urn:ietf:params:xml:ns:yang:ietf-
*            routing">rt:ipv4</af>
12            <router-id>1.1.1.1</router-id>
13            <nsr>
14              <enable>false</enable>
15            </nsr>
16            <auto-cost>
17              <enable>false</enable>
18            </auto-cost>
19            <redistribution
*            xmlns="urn:ietf:params:xml:ns:yang:cisco-ospf">
20              <rip/>
21            </redistribution>
22          </instance>
23        </ospf>
24      </routing-protocol>
25    </routing-protocols>
26  </routing-instance>
27 </routing>
```

Refer to the exhibit. What are two characteristics of the NETCONF response? (Choose two.)

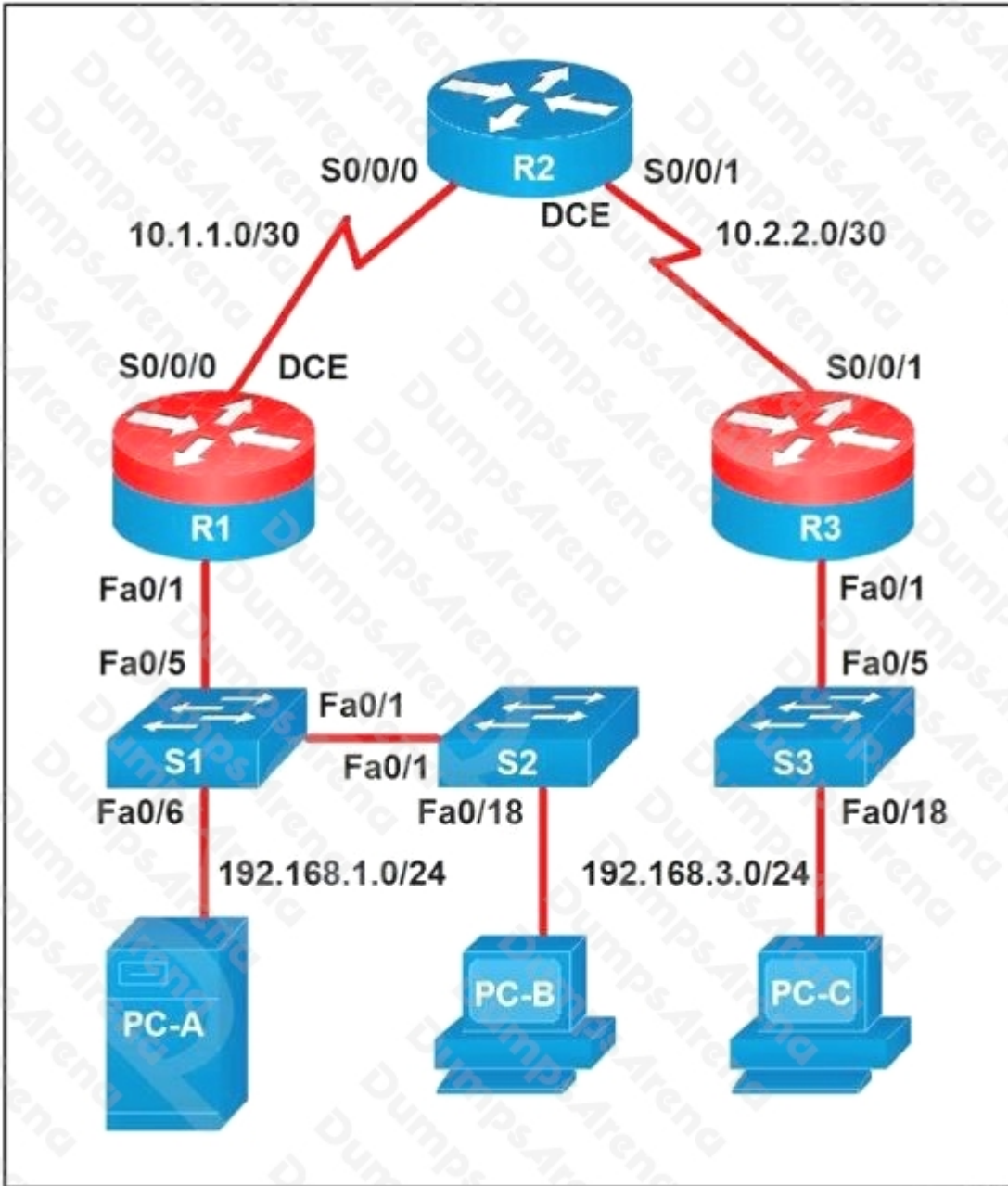
- A. ospf is defined by the ietf-ospf module.
- B. ietf-ospf imports ietf-routing.
- C. redistribution is a module of type cisco-ospf.

- D. routing protocols is a list.
- E. The main module is routing.

ANSWER: B C

QUESTION NO: 19

Refer to the exhibit.



Which two statements about the network diagram are true? (Choose two.)

- A. The subnet address of PC-B has 18 bits dedicated to the network portion.
- B. One of the routers has two connected serial interfaces.
- C. R1 and R3 are in the same subnet.
- D. PC-A and PC-B are in the same subnet.
- E. The subnet of PC-C can contain 256 hosts.

ANSWER: B D

QUESTION NO: 20

Refer to the exhibit.

```
---
- hosts: switch2960cx
  gather_facts: no

  tasks:
    - ios_l2_interface:
      name: GigabitEthernet0/1
      state: unconfigured

    - ios_l2_interface:
      name: GigabitEthernet0/1
      mode: trunk
      native_vlan: 1
      trunk_allowed_vlans: 6-8
      state: present

    - ios_vlan:
      vlan_id: 6
      name: guest-vlan
      interfaces:
        - GigabitEthernet0/2
        - GigabitEthernet0/3

    - ios_vlan:
      vlan_id: 7
      name: corporate-vlan
      interfaces:
        - GigabitEthernet0/4

    - ios_vlan:
      vlan_id: 8
```

```
- ios_vlan:  
  vlan_id: 8  
  name: iot-vlan  
  interfaces:  
    - GigabitEthernet0/5
```

Which two statements describe the configuration of the switch after the Ansible script is run? (Choose two.)

- A. Traffic from ports 0/2 to 0/5 is able to flow on port 0/1 due to the trunk.
- B. GigabitEthernet0/1 is left unconfigured.
- C. GigabitEthernet0/2 and GigabitEthernet0/3 are access ports for VLAN 6.
- D. Traffic is able to flow between ports 0/2 to 0/5 due to the trunk on port 0/1.
- E. Traffic on ports 0/2 and 0/3 is connected to port 0/6.

ANSWER: A C