Cisco

Exam Questions 300-535

Automating and Programming Cisco Service Provider Solutions (SPAUTO)

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NEW QUESTION 1
What tool is used to perform a "what if" failure analysis in a service provider network that is running Segment Routing?

A. Cisco WAN Automation Engine
B. Cisco Evolved Programmable Network Manager
C. Cisco Network Services Orchestrator
D. Cisco Segment Routing Path Computation Element

Answer: A

NEW QUESTION 2
Which two Python libraries are used to write a script to retrieve network device information using RESTCONF? (Choose two.)

A. PySNMP
B. requests
C. ncclient
D. YANG
E. json

Answer: BE

NEW QUESTION 3
What is a key feature of YANG?

A. use identification
B. error prediction
C. JAVA compatibility
D. reusable types and groupings

Answer: D

NEW QUESTION 4
What are two characteristics of the NFV architecture approach? (Choose two.)

A. It decouples the network functions from proprietary hardware appliances.
B. It provides 70% more efficiency of network infrastructure.
C. It is specially designed for Internet providers.
D. It is specially designed for telecommunications service providers.
E. It typically includes a hypervisor.

Answer: AE

NEW QUESTION 5
An engineer must change from using NETCONF for streaming telemetry to telemetry data using gRPC framework because NETCONF uses XML for message and payload encoding. Which two messages and payload encodings does gNMI use? (Choose two.)

A. gNMI notifications with XML
B. protobuf notifications with XML
C. protobuf payload
D. JSON payload
E. gNMI notifications with JSON

Answer: CE

NEW QUESTION 6

```
RP/0/RP0/CPU0:iosxrv-1#show telemetry model-driven subscription
Fri Aug 23 20:39:44.122 UTC
Subscription:            Interface          State: NA
--------------------
 Sensor groups:
 Id                      Interval(ms)       State
 Interface-Counters      30000              Resolved

 Destination Groups:
 Id                      Encoding           Transport  State Port  Vrf   IP
 DEST1                   self-describing-gpb grpc       NA    5432  Mgmt-intf 172.16.1.12
  TLS :                  172.16.1.12
```

Refer to the exhibit. What is the cause of the status of the interface subscription?

A. The router cannot establish a gRPC connection with the collector.
B. The sensor-group "Interface-Counters" does not contain a valid YANG path.
C. The router is waiting for a collector to dial in.
D. This is the expected state of an active subscription.

Answer: B

NEW QUESTION 7

```python
def configure_ip_address(interface, ip, length):
    url = BASE_URL + "/data/ietf-interfaces:intefaces/interface={i}".format(
        i = interface
    )
    data = OrderedDict(
        [
            (
                "ietf-interfaces:interface",
                OrderedDirect(
                    [
                        ("name", interface),
                        ("type", "iana-if-type:ethernetCsmacd"),
                        (
                            "ietf-ip:ipv6",
                            OrderedDict(
                                [
                                    (
                                        "address",
                                        [OrderedDict([("ip", ip), ("prefix-length", length)])],
                                    )
                                ]
                            ),
                        ),
                    ]
                ),
            )
        ]
    )
    response = requests.put(
        url, auth=(USERNAME, PASSWORD), headers=HEADERS, verify=False, json=data
    )
    print(response.status_code)

configure_ip_address("GigabitEthernet2", "2001:db8:636c:6179:2063:7572:7469:7300", "64")
```

Refer to the exhibit. What is the effect of the script on the device?

A. All interfaces except GigabitEthernet2 are reset to their default configurations.
B. It replaces the entire configuration for GigabitEthernet2 on the device using RESTCONF.
C. It merges the new configuration with the existing configuration on the device using RESTCONF.
D. It compares the configuration to the devic
E. If it matches, the device sends back an HTTP 204 status code.

Answer: C

NEW QUESTION 8
What are two benefits of using Cisco NSO? (Choose two.)

A. It abstracts the device adapter and complex device logic from the service logic.
B. It uses load balancing services for better traffic distribution.
C. It easily integrates into northbound systems and APIs.
D. It can replace the CI/CD pipeline tools.
E. It automatically discovers all deployed services.

Answer: AC

NEW QUESTION 9

```xml
<edit-config xmlns= "urn:ietf:params:xml:ns:netconf:base:1.0">
  <target>
     <candidate/>
  </target>
<config>
  <host-names xmlns= "http://cisco.com/ns/yang/Cisco-IOS-XR-shellutil-cfg">
     <host-name>IOS-XR-SJC-19</host-name>
  </host-names>
  </config>
</edit-config>
```

Refer to the exhibit. After this operation, what else is needed to change the hostname of the router to IOS-XR-SJC-19?

A. <confirm>
B. <close-session>
C. <get-config>
D. <commit>

Answer: D

NEW QUESTION 10
Which data format should be used to serialize structured data in the most compact way?

A. protobufs

B. YAML
C. JSON
D. XML

Answer: B

NEW QUESTION 10

```
module: Cisco-IOS-XR-isis-cfg
  +--rw isis
    +--rw instances
      +--rw instance* [instance-name]
        +--rw nets
          +--rw net* [net-name]
            +--rw net-name        xr:Osi-net
```

Refer to the exhibit. Which XML output is a valid instantiation of the YANG model?

A.
```
<isis>
 <instances>
  <instance>
    <instance-name>1</instance-name>
    <nets>
      <net>
        <net-name>49.0010.0100.1001.00</net-name>
      </net>
     <nets>
    </instance>
 </instances>
</isis>
```

B.
```
<isis>
 <instances>
    <instance>1</instance>
    <nets>
        <net>xr:Osi-net 49.0100.1001.00</net>
    <nets>
  </instances>
</isis>
```

C.
```
<isis>
 <instances>
    <instance>
      <instance-name>
       <nets>
        <net>
         <net-name>
           1, 49.0010.0100.1001.00
         </net-name>
        </net>
       </nets>
      </instance-name>
    </instance>
  </instances>
</isis>
```

D.
```
<isis>
   <instances>
     <instance>
       <instance-name>1</instance-name>
       <nets
         <net>
           <net-name>[49.0010.0100.1001.00]</net-name>
         </net>
       </nets>
     </instance>
   </instances>
</isis>
```

Answer: A

NEW QUESTION 11
An engineer just completed the installation of Cisco NSO and all of its components. During testing, some of the services are not working properly. To resolve the issue, the engineer started undeploying service instances. What can this cause?

A. It removes the service configuration from the network device only.
B. It removes the service configuration from the network and NSO.
C. It removes the service configuration from NSO only.
D. It runs the service code again when the device is out of sync.

Answer: B

NEW QUESTION 15
What is an interior YANG data node that exists in at most one instance in the data tree and has no value?

A. listing node
B. tree node
C. container node
D. leaf node

Answer: C

NEW QUESTION 20
Which statement describes an asynchronous API communication?

A. Asynchronous communication waits for a response.
B. Synchronous communication is with a central orchestrator.
C. It is not necessary to wait for availability of a resource.
D. An application can freeze if there is no response from a request.

Answer: C

NEW QUESTION 21

```
module: openconfig-interfaces
  +- -rw interfaces
     +- -rw interface* [name]
        +- -rw name              -> . ./config/name
        +- -rw config
        |   +- -rw type             identityref
        |   +- -rw mtu?             uint16
        |   +- -rw name?            string
        |   +- -rw description?     string
        |   +- -rw enabled?         boolean
        +- -ro state
        |   +- -ro type             identityref
        |   +- -ro mtu?             uint16
        |   +- -ro name?            string
        |   +- -ro description?     string
        |   +- -ro enabled?         boolean
        |   +- -ro ifindex?         uint32
        |   +- -ro admin-status     enumeration
        |   +- -ro oper-status      enumeration
        |   +- -ro last change?     yang:timeticks
        |   +- -ro counters
        |       +- -ro in-octets?            yang:counter64
        |       +- -ro in-unicast-pkts?      yang:counter64
        |       +- -ro in-broadcast-pkts?    yang:counter64
```

Refer to the exhibit. Which two configuration leaves in this YANG model are optional? (Choose two.)

A. last-change
B. oper-status
C. type
D. enabled
E. mtu

Answer: AE

NEW QUESTION 23
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