Cisco

Exam Questions 300-535

Automating and Programming Cisco Service Provider Solutions (SPAUTO)

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

```
curl --request DELETE --url http://10.1.1.1:8080/srpolicy-install --header 'cache-control: no-cache' --
header 'content-type: application/json'
--data '{"source": "1.1.1.2", "end-point": "2001:4860::1:1:1:1", "color": 99, "route-distinguisher": 2}'
<!DOCTYPE html>
<html>
<head>
<title>404 Not Found</title>
</head>
<body>
<h1>Not Found</h1>
<hr>
<address> Server at localhost:8080 </address>
</body>
</html>
```

Refer to the exhibit. An engineer implements an automation with Cisco XTC. Which problem results in the 404 Not Found error code on the REST call?

A. The resource that you are trying to delete does not exist.
B. Port 8080 is not enabled on XTC.
C. XTC does not offer any APIs.
D. You must change the request method.

Answer: B

NEW QUESTION 3
Which command configures the remote peer when the Cisco IOS XR Traffic Controller is used?

A. peer-sync ipv4 192.168.0.3
B. state ipv4 192.168.0.3
C. peer ipv4 192.168.0.3
D. state-sync ipv4 192.168.0.3

Answer: D

NEW QUESTION 4
An automation engineer is trying to configure a destination group to use dial-out telemetry with gRPC on a Cisco IOS XR platform. The template created is failing to apply. Which parameters must be configured?

A. source IP address, source port, encoding, and sampling interval
B. source IP address, source port, encoding, and protocol
C. destination IP address, destination port, encoding, and sensor path
D. destination IP address, destination port, encoding, and protocol

Answer: D

NEW QUESTION 5
Which two use cases are valid for Cisco WAN Automation Engine? (Choose two.)

A. deployment of SR policies
B. integration with Cisco XTC
C. what-if analysis
D. device manager
E. network controller

Answer: AB

NEW QUESTION 6
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 7
A Cisco NSO service has just been deployed. Which Cisco NSO CLI command is used to inspect the resulting device configuration changes before the changes are pushed to the network?

A. show service impact
B. commit dry-run outformat native
C. pseudo-commit
D. show dry-run output

Answer: B

NEW QUESTION 8
Which two commands generate a template using Cisco NSO to build a service package? (Choose two.)

A. show running-config devices device ce-ios config ios:interface Loopback 0 | display template.xml
B. show running-config devices device ce-ios config ios:interface Loopback 0 | display xml | save template.xml
C. request running-config devices device ce-ios config ios:interface Loopback 0 | display xml
D. show running-config devices device ce-ios config ios:interface Loopback 0
E. show running-config devices device ce-ios config ios:interface Loopback 0 | display xml

Answer: AC

NEW QUESTION 9

```
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-intf172.16.1.12
  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 10

```
tasks:
- name: run show version on remote devices
  iosxr_command:
    commands: show version
```

Refer to the exhibit. What must be added after the last line of the Ansible playbook to check if the output contains "IOS-XR"?

A. wait_for: result[1] contains "IOS-XR"
B. wait_for: result[0] contains IOS-XR
C. notify: "IOS-XR"
D. wait_for_connection:

Answer: B

NEW QUESTION 10

```
"request": {
     "url": "http://{{server}}:{{port}}/restconf/data/l3vpn:vpn/l3vpn=test",
     "method": "POST",
<snip>
```

Refer to the exhibit. An automation engineer has created a RESTCONF POST to configure network devices. Which two tasks are accomplished when the code is executed? (Choose two.)

A. If the specified configuration is already in the running configuration, the command is replaced by this request.
B. If the specified configuration is already in the running configuration, the command is not replaced by this request.
C. If the specified configuration is already executed in the running configuration, the command is merged with this request.
D. If the specified configuration is already in the running configuration, the command updates this request.
E. If the specified configuration is not on the device, the POST request creates it.

Answer: DE

NEW QUESTION 13
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 14
After a configuration request is sent using NETCONF, which call releases any locks and resources associated with the session?

A. <exit-operation>
B. <close-activity>
C. <close-session>
D. <boot-app>

Answer: C

NEW QUESTION 16
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 19

```
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 21
Refer to the exhibit. Which two URI entries are optional and functional in this RESTCONF URI structure? (Choose two.)

A. fragment
B. query
C. operation
D. api-entry
E. path

Answer: BE

NEW QUESTION 24
The Netmiko BaseConnection class contains a method called "send_config_set()". Which two actions does this method perform on the device? (Choose two.)

A. It takes a filename parameter that executes commands contained in that file on the device.
B. It requires the user to explicitly send configure terminal and exit commands to the device to enter and exit configuration mode.
C. It automatically enters and exits configuration mode on the device.
D. It takes a Python iterable, such as a list of commands, and executes them in order on the device.
E. It saves the running configuration to the startup configuration after executing the configuration commands on the device.

Answer: CD

NEW QUESTION 26
How does using the Python with statement in conjunction with ncclient manager improve an existing NETCONF automation script?

A. It allows the NETCONF connection to the device to be gracefully closed without having to explicitly code this action.
B. It manages the running configuration of the device by comparing it to the new configuration applied using NETCONF.
C. The with statement tries to connect to the device using TCP port 830 first but also tries to connect via TCP port 22.
D. Use of the with statement catches any exceptions when trying to connect to a device using NETCONF.

Answer: D

NEW QUESTION 29
Refer to the exhibit. What is the significance of "*" before the "father" leaf that is shown in the pyang tree output?

A. It is a node list in a leaf type node.
B. The father leaf is a key in the family list type.
C. The leaf father is read-write in the family list.
D. The node father is read-only in the family list.

Answer: C

NEW QUESTION 32
An engineer needs to configure network devices in an automated way. Which two ways are used to create structured data using YANG to provide REST-like APIs to enable programmability access? (Choose two.)

A. YAML
B. JSON
C. GPB
D. JSON-RPC
E. XML

Answer: BE

NEW QUESTION 33
Which two data formats are human readable? (Choose two.)

A. YAML
B. Apache Arrow
C. gRPC
D. binary
E. JSON

Answer: AE

NEW QUESTION 37

```
module abc_service {
    namespace "http://com/abc/service";
    prefix abc_service;

    import  ietf-inet-types { prefix inet; }
    import  tailf-ncs { prefix ncs; }
    imports tailf-common { prefix tailf; }
    import  tailf-ned-cisco-ios { prefix ios; }

    augment "/ncs:services" {

        list abc_service {
            key "name";
            ncs:servicepoint "abc_service";

            leaf name {
                mandatory true;
                type string;
            }
            list link {
                key "router_name";

                leaf router_name {
                    mandatory true;
                    type leafref {
                        path "/ncs:devices/ncs:device/ncs:name";
                    }
                }
            }
        }
    }
}
```

Refer to the exhibit. Based on the YANG presented, what is the correct xpath to retrieve the router named "ios-device" under the "CustomerA" service name?

A. /ncs:abc_service/CustomerA/ios-device
B. /abc_service/CustomerA/"ios-device"
C. /ncs:service/abc_service/"CustomerA"/ios-device
D. /ncs:services/abc_service/CustomerA/ios-device

Answer: D

NEW QUESTION 39
Which two operations must be used to allow a network engineer to use NETCONF to configure and manage networking devices? (Choose two.)

A. <get-config>
B. <open-session>
C. <close-session>
D. <remove-config>
E. <put>

Answer: AC

NEW QUESTION 44

```
curl –u john:password http://192.168.10.20
```

Refer to the exhibit. Which HTTP authentication mechanism is being used?

A. simple
B. basic

C. OAuth
D. token

Answer: B

NEW QUESTION 47
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 48
Which is a format used for the YANG JSON content-type header?

A. application/vnd/yang.data+json
B. application/vnd.yang.data+json
C. application/yang.data.json
D. application/vnd.yang.data json

Answer: B

NEW QUESTION 53
Refer to the exhibit. What are the two outcomes when the RESTCONF POST code is implemented? (Choose two.)

A. A new VPN endpoint to a VPN is added.
B. An L3VPN endpoint to a VPN is replaced.
C. An L3VPN endpoint to a VPN is merged.
D. A new L3VPN endpoint to a VPN is added.
E. An L3VPN endpoint to a VPN is updated.

Answer: DE

NEW QUESTION 54
What are two advantages of using Python virtual environments? (Choose two.)

A. They allow for multiple Python projects to use different versions of the same dependency without conflict.
B. They allow multiple Python applications to share virtual memory between subprocesses.
C. They allow for isolated environments where each can use a different version of Python.
D. They allow for all Python projects to utilize the same set of shared dependencies.
E. They allow for multiple virtual machines to share a single Python environment.

Answer: AC

NEW QUESTION 58
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