

Question 1

An engineer must create an EEM applet that sends a syslog message in the event a change happens in the network due to trouble with an OSPF process. Which action should the engineer use?

- A. action 1 syslog msg "OSPF ROUTING ERROR"
- B. action 1 syslog send "OSPF ROUTING ERROR"
- C. action 1 syslog pattern "OSPF ROUTING ERROR"
- D. action 1 syslog write "OSPF ROUTING ERROR"

Answer: A

Question 2

Refer to the exhibit.

```
ip nat pool Internet 10.10.10.1 10.10.10.100 netmask 255.255.255.0
ip nat inside source route-map Users pool Internet
!
ip access-list standard Users
 10 permit 192.168.1.0 0.0.0.255
!
route-map Users permit 10
 match ip address Users
```

Which action completes the configuration to achieve a dynamic continuous mapped NAT for all users?

- A. Increase the NAT pool size to support 254 usable addresses
- B. Reconfigure the pool to use the 192.168.1.0 address range
- C. Configure a match-host type NAT pool
- D. Configure a one-to-one type NAT pool

Answer: A

Question 3

A customer has 20 stores located throughout a city. Each store has a single Cisco AP managed by a central WLC. The customer wants to gather analytics for users in each store. Which technique supports these requirements?

- A. hyperlocation
- B. angle of arrival
- C. presence
- D. trilateration

Answer: C

Explanation

We only have one AP in each store so we can only use "Presence", which is the most basic form of location tracking.

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2016/pdf/BRKEWN-2012.pdf>

Question 4

What is a characteristic of a WLC that is in master controller mode?

- A. The master controller is responsible for load balancing all connecting clients to other controllers.
- B. Configuration on the master controller is executed on all wireless LAN controllers.
- C. All wireless LAN controllers are managed by the master controller.
- D. All new APs that join the WLAN are assigned to the master controller.

Answer: D

Explanation

When should I use the master controller mode on a WLC?

– When there is a master controller enabled, all newly added access points with no primary, secondary, or tertiary controllers assigned associate with the master controller on the same subnet.

Reference: <https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/69561-wlc-faq.html>

Question 5

A customer has a pair of Cisco 5520 WLCs set up in an SSO cluster to manage all APs. Guest traffic is anchored to a Cisco 3504 WLC located in a DMZ. Which action is needed to ensure that the EoIP tunnel remains in an UP state in the event of failover on the SSO cluster?

- A. Configure back-to-back connectivity on the RP ports
- B. Use the mobility MAC when the mobility peer is configured
- C. Enable default gateway reachability check
- D. Use the same mobility domain on all WLCs

Answer: B

Explanation

In order to keep the mobility network stable without any manual intervention and in the event of failure or switchover, the back-and-forth concept of Mobility MAC has been introduced.

Reference: https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/7-5/High_Availability_DG.html

Question 6

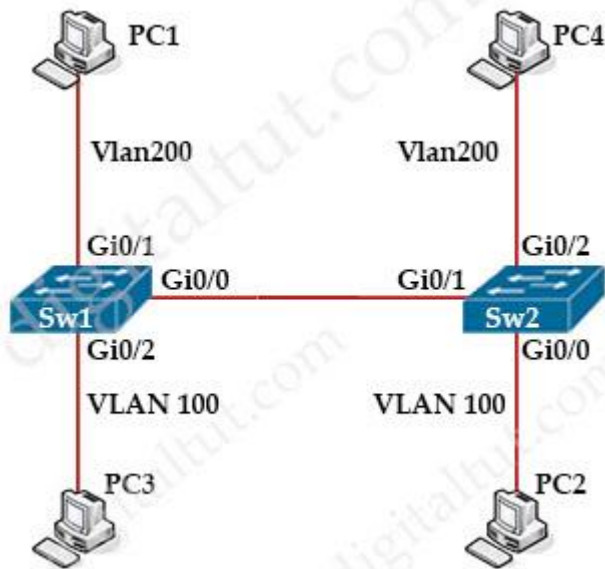
In a Cisco DNA Center Plug and Play environment, why would a device be labeled unclaimed?

- A. The device has not been assigned a workflow.
- B. The device could not be added to the fabric.
- C. The device had an error and could not be provisioned.
- D. The device is from a third-party vendor.

Answer: A

Question 7

Refer to the exhibit.



```
SW1#show interfaces gigabitethernet0/0 switchport
```

```
Name:Gi0/0
Switchport: Enabled
Administrative Mode: dynamic auto
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 99 (NATIVE)
Administrative Native VLAN tagging: enabled
Voice VLAN: none
---output omitted---
```

```
SW2#show interfaces gigabitethernet0/1 switchport
```

```
Name:Gi0/1
Switchport: Enabled
Administrative Mode: dynamic auto
Operational Mode: trunk
Administrative Trunking Encapsulation: negotiate
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 99 (NATIVE)
Administrative Native VLAN tagging: enabled
Voice VLAN: none
---output omitted---
```

The connection between SW1 and SW2 is not operational. Which two actions resolve the issue? (Choose two)

- A. configure switchport mode access on SW2
- B. configure switchport nonegotiate on SW2
- C. configure switchport mode trunk on SW2
- D. configure switchport mode dynamic desirable on SW2
- E. configure no switchport nonegotiate on SW1

Answer: D E

Explanation

From the outputs (line: "Administrative Mode: dynamic auto") we notice that both interfaces were configured with "dynamic auto" mode so they cannot form a trunking link. We need to change one of them to "dynamic desirable" mode to activate the trunk -> Answer D is correct.

Another problem is SW1 was set to "nonegotiate" (from the line: "Negotiation of Trunking: Off") which prevents DTP negotiation packets from being sent out the interface. We need to re-enable with the "no switchport nonegotiate" command -> Answer E is correct.

For your reference, the table below lists trunking condition:

	Dynamic Auto	Dynamic Desirable	Trunk	Access
Dynamic Auto	Access	Trunk	Trunk	Access
Dynamic Desirable	Trunk	Trunk	Trunk	Access
Trunk	Trunk	Trunk	Trunk	Limited Connectivity
Access	Access	Access	Limited Connectivity	Access

Question 8

Refer to the exhibit.

```
R1#show access-list 100
Extended IP access list 100
 10 deny ip any any
 20 permit ip 192.168.0.0 0.0.255.255 any
 30 permit ip any 192.168.0.0 0.0.255.255
```

Option A

R1(config)#no access-list 100 deny ip any any

Option B

R1(config)#ip access-list extended 100
R1(config-ext-nacl)#5 permit ip any any

Option C

R1(config)#ip access-list extended 100
R1(config-ext-nacl)#no 10

Option D

R1(config)#no access-list 100 seq 10
R1(config-ext-nacl)#access-list 100 seq 40 deny ip any any

Extended access-list 100 is configured on interface GigabitEthernet0/0 in an inbound direction, but it does not have the expected behavior of allowing only packets to or from 192.168.0.0/16. Which command set properly configures the access list?

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

Answer: C

Explanation

The first ACL statement of "10 deny ip any any" will match and drop all traffic so we have to remove this statement.

Question 9

How do cloud deployments differ from on-prem deployments?

- A. Cloud deployments require longer implementation times than on-premises deployments
- B. Cloud deployments are more customizable than on-premises deployments.
- C. Cloud deployments have lower upfront costs than on-premises deployments.
- D. Cloud deployments require less frequent upgrades than on-premises deployments.

Answer: C

Question 10

Refer to the exhibit.

```
#!/usr/bin/env python
import json
import sys
```

```
test_json="""
{
    "type": "Cisco ASR 1001-x Router",
    "lastUpdateTime": 144393848493,
    "macAddress": "00:c8:8b:e3:24:22",
    "serialNumber": "FXS1932Q1SE"
}
"""
print(json.load(test_json))
```

Output

```
$ python printjson.py
```

```
Traceback (most recent call last):
```

```
File "question_3.py", line 15, in <module>
```

```
Print(json.load(test_json))
```

```
File
```

```
"/System/Library/Framework/Python.framework/Versions/2.7/lib/python2.7/json/_init_.py",
line 286 in load return loads (fp.read(),
```

```
AttributeError: str' object has no attribute 'read'
```

An engineer runs the sample code, and the terminal returns this output. Which change to the sample code corrects this issue?

- A. Change the JSON method from load() to loads().
- B. Enclose null in the test_json string in double quotes
- C. Use a single set of double quotes and condense test_json to a single line
- D. Call the read() method explicitly on the test_json string

Answer: A

Explanation

An example of json.loads() is shown below:

```

C:\WINDOWS\system32>python
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)]
Type "help", "copyright", "credits" or "license()" for more information.
>>> import json
>>> json_string = """
... {
...   "ins_api": {
...     "type": "cli_show",
...     "version": "1.0",
...     "sid": "eoc",
...     "outputs": {
...       "output": {
...         "input": "show version",
...         "msg": "Success",
...         "code": "200",
...         "body": {
...           "bios_ver_str": "07.61",
...           "kickstart_ver_str": "7.0(3)I7(4)",
...           "bios_cpl_time": "04/08/2017",
...           "kick_file_name": "bootflash:///nxos.7.0.3.I7.4.bin",
...           "kick_cpl_time": "6/14/1970 09:49:04",
...           "chassis_id": "Nexus9000 93180YC-EX chassis",
...           "cpu_name": "Intel(R) Xeon(R) CPU @1.80GHz",
...           "memory": 24633488,
...           "mem_type": "kB",
...           "rr_usec": 134703,
...           "rr_ctime": "Mon Jun 10 12:34:46 2019",
...           "rr_reason": "Reset Requested by CLI command reload",
...           "rr_sys_ver": "7.0(3)I7(4)",
...           "rr_service": "",
...           "manufacturer": "Cisco Systems, Inc",
...           "TABLE_package_list": {
...             "ROW_package_list": {
...               "package_id": {}
...             }
...           }
...         }
...       }
...     }
...   }
... }
... """
>>> response = json.loads(json_string)
>>> print(response['ins_api']['outputs']['output']['body']['kickstart_ver_str'])
7.0(3)I7(4)

```

Note: Triple quotes (""") in Python allows strings to span multiple lines, including verbatim NEWLINES, TABs, and any other special characters.

Question 11

Refer to the exhibit.

```
Switch2#
02:23:22: %PM-4-ERR_DISABLE: channel-misconfig error
detected on Fa0/23, putting Fa0/23 in err-disable state
02:23:22: %PM-4-ERR_DISABLE: channel-misconfig error
detected on Fa0/24, putting Fa0/24 in err-disable state
Switch2#

Switch1# show etherchannel summary
--output omitted--

Group  Port-channel  Protocol  Ports
-----+-----+-----+-----
1      Po2 (SD)        LACP      Fa1/0/23 (D)

Switch2# show etherchannel summary
--output omitted--

Group  Port-channel  Protocol  Ports
-----+-----+-----+-----
1      Po1 (SD)        -         Fa0/23 (D) Fa0/24 (D)
```

An engineer is configuring an EtherChannel between Switch1 and Switch2 and notices the console message on Switch2. Based on the output, which action resolves this issue?

- A. Configure the same port channel interface number on both switches
- B. Configure less member ports on Switch2
- C. Configure more member ports on Switch1
- D. Configure the same EtherChannel protocol on both switches

Answer: D

Explanation

In this case, we are using your EtherChannel without a negotiation protocol on Switch2. As a result, if the opposite switch is not also configured for EtherChannel operation on the respective ports, there is a danger of a switching loop. The EtherChannel Misconfiguration Guard tries to prevent that loop from occurring by disabling all the ports bundled in the EtherChannel.

(to be continued...)