200-301^{Q&As}

Implementing and Administering Cisco Solutions (CCNA) (Include Newest Simulation Labs)

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QUESTION 1

Refer to the exhibit.

```
1  [
2      { "switch": "3750", "port": e2 },
3      { "router": "2951", "port": e20 }.
4      { "switch": "3750", "port": e23 }
5  ]
```

What is identified by the word "switch" within line 2 of the JSON Schema?

A. array

B. value

C. object

D. key

Correct Answer: D

{"name": "John"}

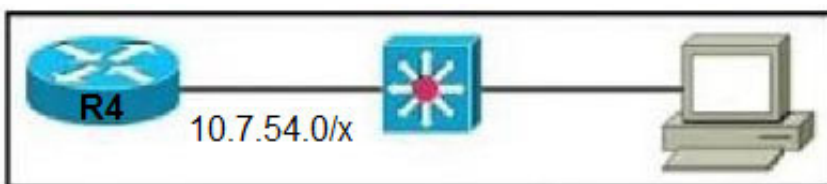In this example, "name" is the key and "John" is the value. The value is a string, and it is associated with the key "name".

Here is another example of a key-value pair in JSON:

{"age": 30}

In this example, "age" is the key and 30 is the value. The value is a number, and it is associated with the key "age".

QUESTION 2

Refer to the exhibit.

The router has been configured with a supernet to accommodate the requirement for 380 users on a subnet The

requirement already considers 30% future growth. Which configuration verifies the IP subnet on router R4?

A. Subnet: 10.7.54.0 Subnet mask: 255.255 254.0 Broadcast address: 10.7.54.255 Usable IP address range: 10.7.54.1 10.7.55.254

B. Subnet: 10.7.54.0 Subnet mask: 255.255.254.0 Broadcast address: 10.7.55.255 Usable IP address range: 10.7.54.1 10.7.55.254

C. Subnet: 10.7.54.0 Subnet mask: 255.255.128.0 Broadcast address: 10.7.55.255 Usable IP address range: 10.7.54.1 10.7.55.254

D. Subnet: 10.7.54.0 Subnet mask: 255.255.255.0 Broadcast address: 10.7.54.255 Usable IP address range: 10.7.54.1 10.7.55.254

Correct Answer: B

QUESTION 3

What is a function of Opportunistic Wireless Encryption in an environment?

A. offer compression

B. increase security by using a WEP connection

C. provide authentication

D. protect traffic on open networks

Correct Answer: D

QUESTION 4

Which interface mode must be configured to connect the lightweight APs in a centralized architecture?

A. WLAN dynamic

B. management

C. trunk

D. access

Correct Answer: D

QUESTION 5

How is noise defined in Wi-Fi?

A. measured difference between the desired Wi-Fi signal and an interfering Wi-Fi signal

B. any interference that is not Wi-Fi traffic that degrades the desired signal

C. signals from other Wi-Fi networks that interfere with the local signal

D. ratio of signal-to-noise rating supplied by the wireless device

Correct Answer: B

QUESTION 6

Refer to the exhibit.

```
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       a - application route
       + - replicated route, % - next hop override, p - overrides from PfR
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
S*     0.0.0.0/0 is directly connected, Null0
       10.0.0.0/8 is variably subnetted, 6 subnets, 2 masks
C         10.0.12.0/24 is directly connected, GigabitEthernet0/1
L         10.0.12.1/32 is directly connected, GigabitEthernet0/1
C         10.0.13.0/24 is directly connected, GigabitEthernet0/2
L         10.0.13.1/32 is directly connected, GigabitEthernet0/2
C         10.0.14.0/24 is directly connected, GigabitEthernet0/3
L         10.0.14.1/32 is directly connected, GigabitEthernet0/3
D      192.168.0.0/16 [90/130816] via 10.0.13.3, 00:10:09, GigabitEthernet0/2
O      192.168.0.0/23 [110/2] via 10.0.14.4, 00:00:46, GigabitEthernet0/3
S      192.168.0.0/24 [100/0] via 10.0.12.2
```

Which interface is chosen to forward traffic to the host at 192.168.0.55?

A. GigabitEthernet0/3

B. Null0

C. GigabitEthernet0/1

D. GigabitEthernet0/2

Correct Answer: C

QUESTION 7

Which command can you enter to allow Telnet to be supported in addition to SSH?

A. transport input telnet ssh

B. transport input telnet

C. no transport input telnet

D. privilege level 15

Correct Answer: A

QUESTION 8

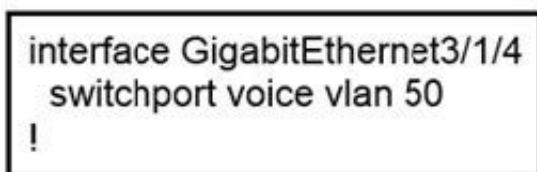What is a practice that protects a network from VLAN hopping attacks?

A. Implement port security on internet-facing VLANs

B. Enable dynamic ARP inspection

C. Assign all access ports to VLANs other than the native VLAN

D. Configure an ACL to prevent traffic from changing VLANs

Correct Answer: C

https://learningnetwork.cisco.com/s/blogs/a0D3i000002SKPREA4/vlan1-and-vlan-hopping-attack

QUESTION 9

Refer to the exhibit.


```
interface GigabitEthernet3/1/4
   switchport voice vlan 50
!
```

An administrator is tasked with configuring a voice VLAN. What is the expected outcome when a Cisco phone is connected to the GigabitEthernet 3/1/4 port on a switch?

A. The phone and a workstation that is connected to the phone do not have VLAN connectivity.

B. The phone sends and receives data in VLAN 50, but a workstation connected to the phone sends and receives data in VLAN 1.

C. The phone sends and receives data in VLAN 50, but a workstation connected to the phone has no VLAN connected.

D. The phone and a workstation that is connected to the phone send and receive data in VLAN 50.

Correct Answer: B

QUESTION 10

Which interface is used to send traffic to the destination network?

```
D    10.148.172.22.27 [90/10259] via G0/24
D    10.148.172.22.27 [90/47955] via G0/10
R    10.148.172.22.27 [120/14] via G0/5
R    10.148.172.22.27 [120/1] via G0/1
```

A. G0/10

B. G0/24

C. G0/5

D. G0/1

Correct Answer: B

QUESTION 11

Which QoS traffic handling technique retains excess packets in a queue and reschedules these packets for later transmission when the configured maximum bandwidth has been surpassed?
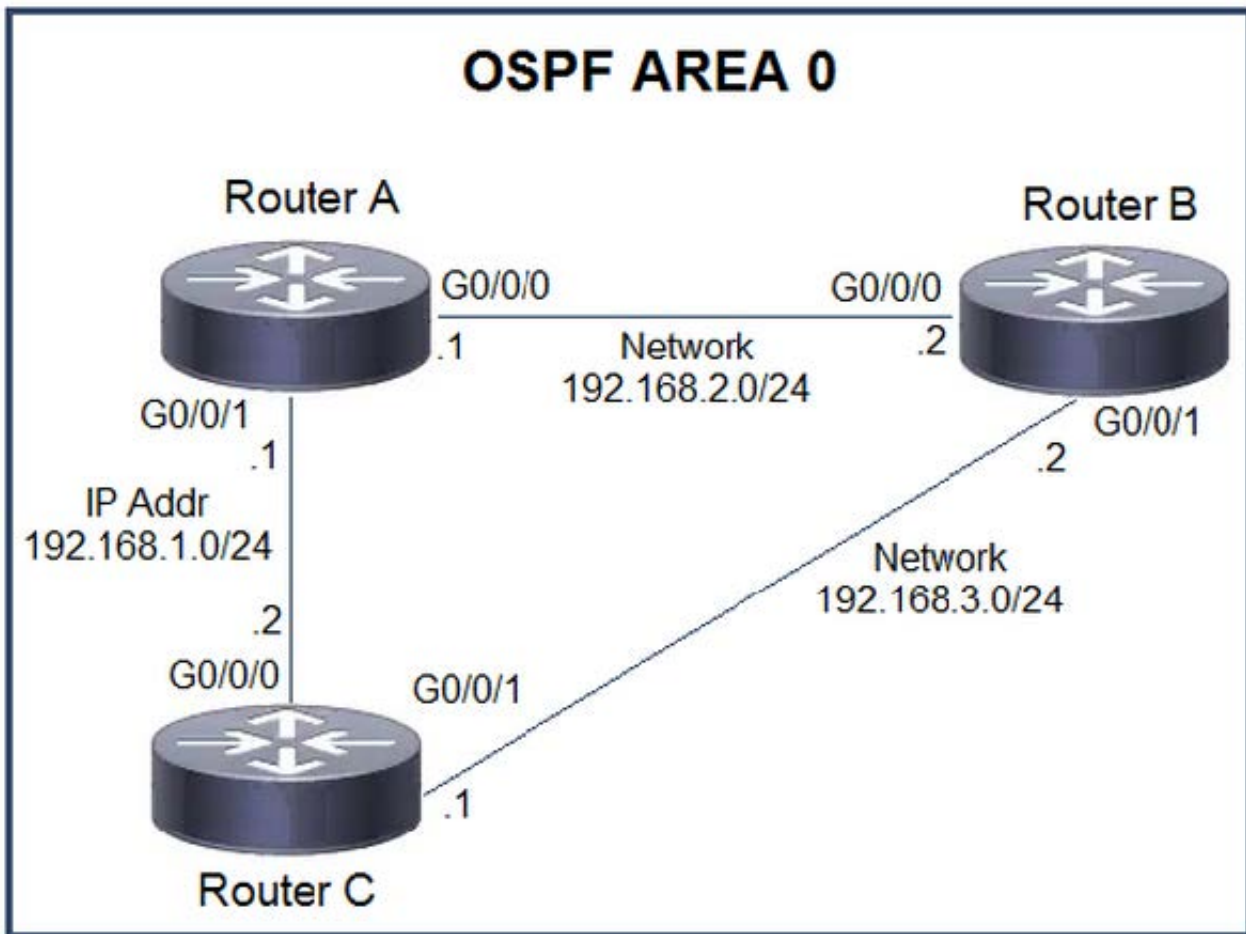
A. traffic policing

B. weighted random early detection

C. traffic prioritization

D. traffic shaping

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/support/docs/quality-of-service-qos/qos-policing/19645-policevsshape.html

QUESTION 12

Refer to the exhibit. Which action must be taken to ensure that router A is elected as the DR for OSPF area 0?

A. Configure the OSPF priority on router A with the lowest value between the three routers.

B. Configure router B and router C as OSPF neighbors of router A.

C. Configure the router A interfaces with the highest OSPF priority value within the area.

D. Configure router A with a fixed OSPF router ID

Correct Answer: C

QUESTION 13

Several new coverage cells are required to improve the Wi-Fi network of an organization. Which two standard designs are recommended? (Choose two.)

A. 5GHz provides increased network capacity with up to 23 nonoverlapping channels.

B. 5GHz channel selection requires an autonomous access point.

C. Cells that overlap one another are configured to use nonoverlapping channels.

D. Adjacent cells with overlapping channels use a repeater access point.

E. For maximum throughput, the WLC is configured to dynamically set adjacent access points to the same channel.

Correct Answer: AC

A. The 5GHz frequency band provides increased network capacity because it has more nonoverlapping channels available than the 2.4GHz frequency band. This allows for more devices to connect to the network and increases the overall capacity of the network.

C. When designing a wireless network, it is important to ensure that cells (coverage areas) do not overlap one another. If cells overlap, it can cause interference and negatively impact the performance of the network. To prevent this, cells that overlap should be configured to use nonoverlapping channels. This allows the devices in those cells to communicate without interfering with each other.

B, D, E options are not the standard design for coverage cells, the selection of channel depends on the environment, and it\\'s not a requirement to have autonomous access point, repeater access point or dynamic channel selection.

QUESTION 14

What are two southbound APIs? (Choose two.)

A. Thrift

B. DSC

C. CORBA

D. NETCONF

E. OpenFlow

Correct Answer: DE

OpenFlow is a well-known southbound API. OpenFlow defines the way the SDN Controller should interact with the forwarding plane to make adjustments to the network, so it can better adapt to changing business requirements.

The Network Configuration Protocol (NetConf) uses Extensible Markup Language (XML) to install, manipulate and delete configuration to network devices.

Other southbound APIs are:

1.

onePK: a Cisco proprietary SBI to inspect or modify the network element configuration without hardware upgrades.

2.

OpFlex: an open-standard, distributed control system. It send "summary policy" to network elements.

QUESTION 15

PC1 tries to send traffic to newly installed PC2. The PC2 MAC address is not listed in the MAC address table of the switch, so the switch sends the packet to all ports in the same VLAN. Which switching concept does this describe?

A. MAC address aging

B. MAC address table

C. frame flooding

D. spanning-tree protocol

Correct Answer: C

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