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Cisco 200-301 Certification Exam is a comprehensive test designed to assess an individual's knowledge and skills in networking concepts and technologies. Cisco Certified Network Associate Exam certification is a globally recognized credential that validates the expertise of network professionals in various aspects of IT, including security, automation, and networking fundamentals. 200-301 exam is a combination of theory and practical knowledge, covering topics such as network access, IP connectivity, network security, automation, and programmability.

## Understanding functional and technical aspects of 200-301 CCNA Exam: Cisco Certified Network Associate Network Access

The following will be discussed here:

- PortFast benefits
- Default VLAN
- Native VLAN
- Port states (forwarding/blocking)
- Compare Cisco Wireless Architectures and AP modes
- Network Access
- Configure the components of a wireless LAN access for client connectivity using GUI only such as WLAN creation, security settings, QoS profiles, and advanced WLAN settings

- Configure and verify Layer 2 discovery protocols (Cisco Discovery Protocol and LLDP)
- Root port, root bridge (primary/secondary), and other port names
- Describe AP and WLC management access connections (Telnet, SSH, HTTP, HTTPS, console, and TACACS+/RADIUS)
- Connectivity
- Describe physical infrastructure connections of WLAN components (AP, WLC, access/trunk ports, and LAG)
- Configure and verify interswitch connectivity
- 802.1Q
- Describe the need for and basic operations of Rapid PVST+ Spanning Tree Protocol and identify basic operations
- Trunk ports

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### Cisco Certified Network Associate Exam Sample Questions (Q746-Q751):

#### NEW QUESTION # 746

Refer to the exhibit. An administrator configures four switches for local authentication using passwords that are stored as a cryptographic hash. The four switches must also support SSH access for administrators to manage the network infrastructure. Which switch is configured correctly to meet these requirements?

```
SW1(config-line) #line vty 0 15
SW1(config-line) #no login local
SW1(config-line) #password cisco
```

```
SW2(config) #username admin1 password abcd1234
SW2(config) #username admin2 password abcd1234
SW2(config-line) #line vty 0 15
SW2(config-line) #login local
```

```
SW3(config) #username admin1 secret abcd1234
SW3(config) #username admin2 secret abcd1234
SW3(config-line) #line vty 0 15
SW3(config-line) #login local
```

```
SW4(config) #username admin1 secret abcd1234
SW4(config) #username admin2 secret abcd1234
SW4(config-line) #line console 0
SW4(config-line) #login local
```

- A. SW2
- **B. SW3**
- C. SW4
- D. SW1

**Answer: B**

#### NEW QUESTION # 747

Refer to the exhibit.

```

R1#config t
R1(config)# interface g1/1
R1(config-if)# ip address 192.168.0.1 255.255.255.0

R1(config)# router bgp 65000
R1(config-router)# neighbor 192.168.0.2 remote-as 65001
R1(config-router)# network 10.1.1.0 mask 255.255.255.0

R1(config)# router ospf 1
R1(config)# router-id 1.1.1.1
R1(config)# network 192.168.0.1 0.0.0.0 area 0
R1(config)# network 10.1.1.0 0.0.0.255 area 0

R1(config)# router eigrp 1
R1(config)# eigrp router-id 1.1.1.1
R1(config)# network 10.1.1.0 0.0.0.255
R1(config)# network 192.168.0.1 0.0.0.0

R2#config t
R2(config)# interface g1/1
R2(config-if)# ip address 192.168.0.2 255.255.255.0

R2#config t
R2(config)# router bgp 65001
R2(config-router)# neighbor 192.168.0.1 remote-as 65000

R2(config)# router ospf 1
R2(config)# router-id 2.2.2.2
R2(config)# network 192.168.1.2 0.0.0.0 area 0

R2(config)# router eigrp 1
R2(config)# eigrp router-id 1.1.1.1
R2(config)# network 192.168.0.1 0.0.0.0

```

Router R2 is configured with multiple routes to reach network 10.1.1.0/24 from router R1. What protocol is chosen by router R2 to reach the destination network 10.1.1.0/24?

- A. static
- B. OSPF
- C. EIGRP
- D. eBGP

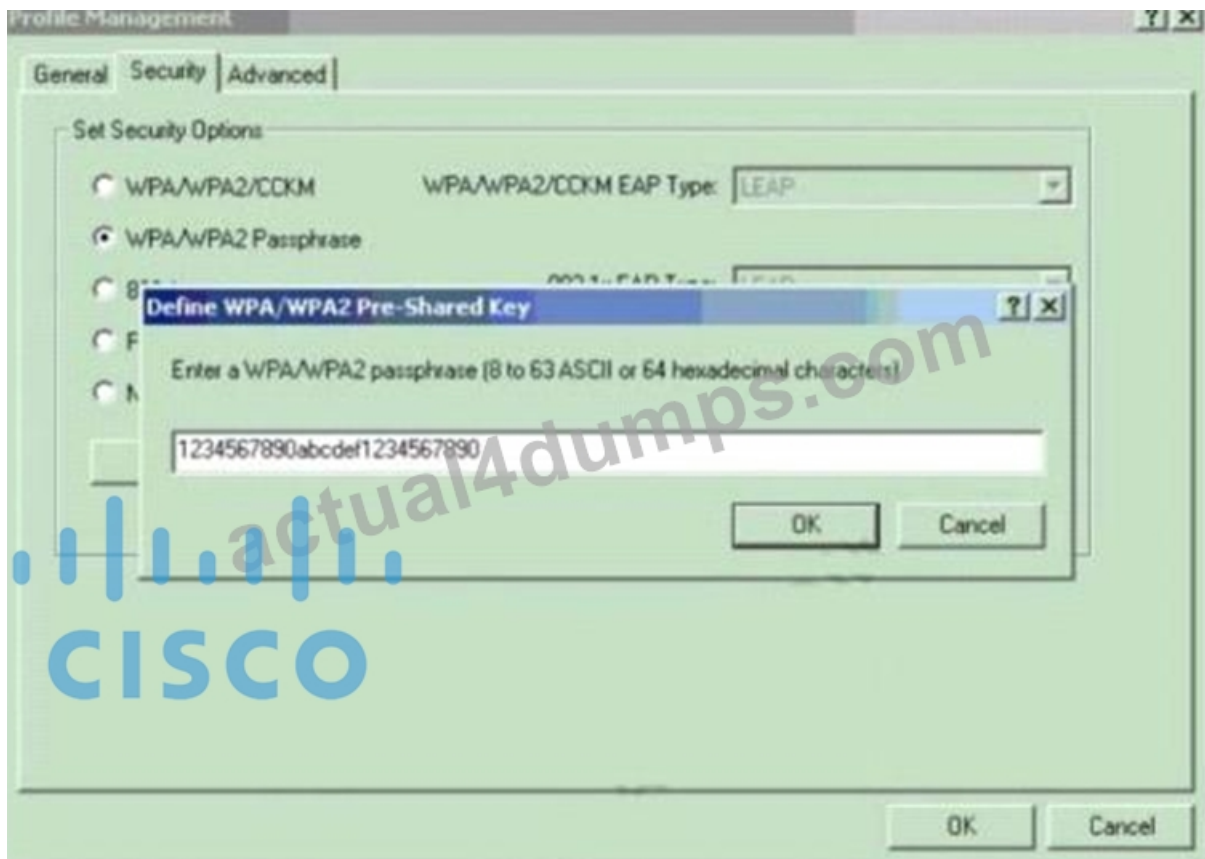
**Answer: A**

#### NEW QUESTION # 748

Which type of wireless encryption is used for WPA2 in preshared key mode?

- A. RC4
- B. TKIP with RC4
- C. AES-256

We can see in this picture we have to type 64 hexadecimal characters (256 bit) for the WPA2 passphrase so we can deduce the encryption is AES-256, not AES-128.



<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/67134-wpa2-config.html>

- D. AES-128

Answer: C

#### NEW QUESTION # 749

Refer to the exhibit.

```

R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
    is directly connected, Serial0/1/0
    172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
S   172.16.3.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O   172.16.3.0/28 [110/84437] via 207.165.200.254, 00:00:28, Serial0/0/1
    207.165.200.0/24 is variably subnetted, 6 subnets, 2 masks
C   207.165.200.244/30 is directly connected, Serial0/1/0
L   207.165.200.245/32 is directly connected, Serial0/1/0
C   207.165.200.248/30 is directly connected, Serial0/0/0
L   207.165.200.249/32 is directly connected, Serial0/0/0
C   207.165.200.252/30 is directly connected, Serial0/0/1
L   207.165.200.253/32 is directly connected, Serial0/0/1

```

A packet is being sent across router R1 to host 172.163.3.14. To which destination does the router send the packet?

- A. 207.165.200.246 via Serial0/1/0
- B. 207.165.200.250 via Serial0/0/0
- C. 207.165.200.254 via Serial0/0/1
- D. 207.165.200.254 via Serial0/0/0

Answer: B

A user configured OSPF and advertised the Gigabit Ethernet interface in OSPF. By default, which type of OSPF network does this interface belong to?

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