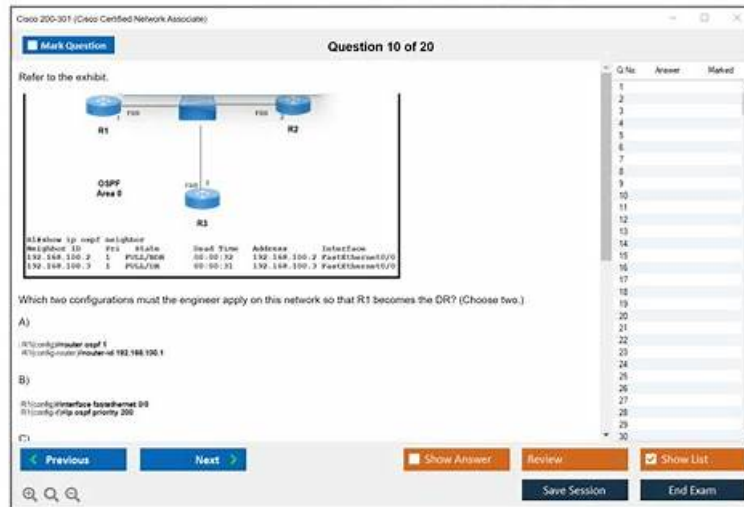


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Cisco 200-301 Exam Topics:

Section	Weight	Objectives
Network Access	20%	<ol style="list-style-type: none"> 1. Configure and verify VLANs (normal range) spanning multiple switches <ul style="list-style-type: none"> • Access ports (data and voice) • Default VLAN • Connectivity 2. Configure and verify interswitch connectivity <ul style="list-style-type: none"> • Trunk ports • 802.1Q • Native VLAN 3. Configure and verify Layer 2 discovery protocols (Cisco Discovery Protocol and LLDP) 4. Configure and verify (Layer 2/Layer 3) EtherChannel (LACP) 5. Describe the need for and basic operations of Rapid PVST+ Spanning Tree Protocol and identify basic operations <ul style="list-style-type: none"> • Root port, root bridge (primary/secondary), and other port names • Port states (forwarding/blocking) • PortFast benefits 6. Compare Cisco Wireless Architectures and AP modes 7. Describe physical infrastructure connections of WLAN components (AP, WLC, access/trunk ports, and LAG) 8. Describe AP and WLC management access connections (Telnet, SSH, HTTP, HTTPS, console, and TACACS+/RADIUS) 9. 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

IP Services	10%	<ol style="list-style-type: none"> 1. Configure and verify inside source NAT using static and pools 2. Configure and verify NTP operating in a client and server mode 3. Explain the role of DHCP and DNS within the network 4. Explain the function of SNMP in network operations 5. Describe the use of syslog features including facilities and levels 6. Configure and verify DHCP client and relay 7. Explain the forwarding per-hop behavior (PHB) for QoS such as classification, marking, queuing, congestion, policing, shaping 8. Configure network devices for remote access using SSH 9. Describe the capabilities and function of TFTP/FTP in the network
Security Fundamentals	15%	<ol style="list-style-type: none"> 1. Define key security concepts (threats, vulnerabilities, exploits, and mitigation techniques) 2. Describe security program elements (user awareness, training, and physical access control) 3. Configure device access control using local passwords 4. Describe security password policies elements, such as management, complexity, and password alternatives (multifactor authentication, certificates, and biometrics) 5. Describe remote access and site-to-site VPNs 6. Configure and verify access control lists 7. Configure Layer 2 security features (DHCP snooping, dynamic ARP inspection, and port security) 8. Differentiate authentication, authorization, and accounting concepts 9. Describe wireless security protocols (WPA, WPA2, and WPA3) 10. Configure WLAN using WPA2 PSK using the GUI

Cisco 200-301 Exam is based on the latest networking technologies and trends, and it requires a thorough understanding of networking concepts and principles. 200-301 exam tests the candidate's ability to configure, troubleshoot, and manage network devices, such as routers, switches, and wireless access points. It also evaluates the candidate's knowledge of network security, network automation, and network programmability.

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

The following will be discussed here:

- Describe the use of syslog features including facilities and levels
- Describe the capabilities and function of TFTP/FTP in the network
- Configure network devices for remote access using SSH
- Explain the role of DHCP and DNS within the network
- Configure and verify inside source NAT using static and pools
- Configure and verify DHCP client and relay
- Explain the forwarding per-hop behavior (PHB) for QoS such as classification, marking, queuing, congestion, policing, shaping
- IP Services
- Explain the function of SNMP in network operations

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Cisco Certified Network Associate Exam Sample Questions (Q409-Q414):

NEW QUESTION # 409

Refer to the exhibit.

```
R1#show run
!
router ospf 1
 auto-cost reference-bandwidth 100000
!
 interface GigabitEthernet0/0
  bandwidth 10000000
!
 interface GigabitEthernet0/1
  bandwidth 100000000
!
 interface GigabitEthernet0/2
  ip ospf cost 100
!
 interface GigabitEthernet0/3
  ip ospf cost 1000
end
```

Router R1 resides in OSPF Area 0. After updating the R1 configuration to influence the paths that it will use to direct traffic, an engineer verified that each of the four Gigabit interfaces has the same route to 10.10.0.0/16. Which interface will R1 choose to send traffic to reach the route?

- A. GigabitEthernet0/0
- B. GigabitEthernet0/3
- C. GigabitEthernet0/2
- D. GigabitEthernet0/1

Answer: D

NEW QUESTION # 410

What is a role of wireless controllers in an enterprise network?

- A. support standalone or controller-based architectures
- B. serve as the first line of defense in an enterprise network
- C. centralize the management of access points in an enterprise network
- D. provide secure user logins to devices on the network.

Answer: C

Explanation:

The correct response is A. Wireless LAN controllers centralize enterprise access point management. A WLC pushes WLAN configuration, security policy, RF parameters, and operational control to lightweight APs so administrators do not configure each AP independently. For Cisco CCNA 200-301 v1.1, the important point is the mechanism, not a generic description of the technology. Standalone support, perimeter defense, and device-login authentication are not the primary role of the wireless controller in this scenario. When this appears in a network, the symptom normally confirms the answer: the route installed, the state selected, the packet forwarded, the wireless client behaviour, or the management workflow will follow this rule. That is why this answer is the best fit for the scenario and not just a plausible networking term.

NEW QUESTION # 411

What is a zero-day exploit?

- A. It is when the perpetrator inserts itself in a conversation between two parties and captures or alters data.
- B. It is when an attacker inserts malicious code into a SQL server.
- C. It is when the network is saturated with malicious traffic that overloads resources and bandwidth
- D. It is when a new network vulnerability is discovered before a fix is available

Answer: D

NEW QUESTION # 412

What is a similarity between global and unique local IPv6 addresses?

- A. They use the same process for subnetting.
- B. They are allocated by the same organization.
- C. They are part of the multicast IPv6 group type.
- D. They are routable on the global internet.

Answer: A

Explanation:

A unique local address (ULA) is an Internet Protocol version 6 (IPv6) address in the address range fc00::/7. Its purpose in IPv6 is somewhat analogous to IPv4 private network addressing, but with significant differences. Unique local addresses may be used freely, without centralized registration, inside a single site or organization or spanning a limited number of sites or organizations. They are routable only within the scope of such private networks, but not in the global IPv6 Internet.

NEW QUESTION # 413

Refer to the exhibit.

```

10.0.0.0/24 is subsetting, 1 subnets
C      10.0.0.0 is directly connected, FastEthernet0/1
C      172.160.0.0/16 is directly connected, FastEthernet0/0
D      192.168.0.0/24 [90/30720] via 172.16.0.2, 00:00:03, FastEthernet0/0

```

Which route type does the routing protocol Code D represent in the output?

- A. statically assigned route
- B. /24 route of a locally configured IP
- C. route learned through EIGRP
- D. internal BGP route

Answer: C

NEW QUESTION # 414

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