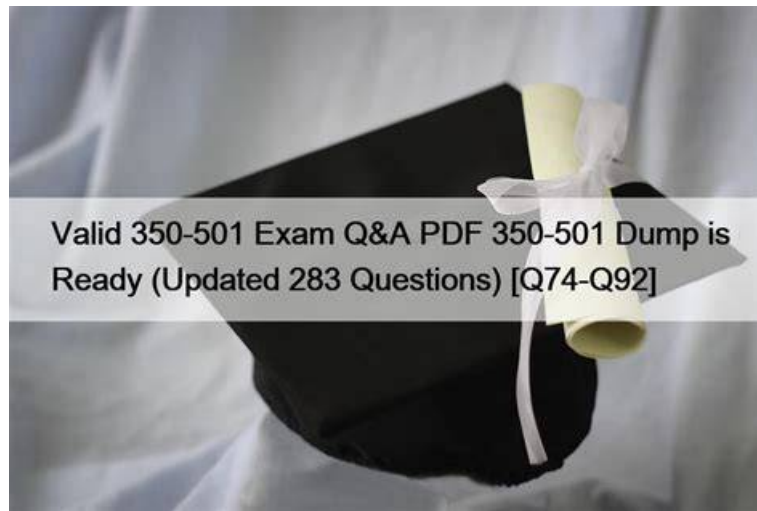


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Cisco 350-401 Exam Syllabus Topics:

Section	Weight	Objectives
Architecture	15%	- Network Architecture • 1. Wireless architecture (controller-based, fabric, SD-Access) • 2. WAN architecture (VPN, DMVPN, SD-WAN) • 3. Design principles (hierarchy, modularity, resilience) • 4. Campus LAN design (two-tier, three-tier) • 5. Data center architecture - Network Programmability • 1. REST APIs • 2. NETCONF, YANG • 3. SDN architectures (APIC-EM, DNA Center) - Virtualization • 1. VXLAN (Virtual Extensible LAN) • 2. VRF-Lite • 3. LISP, L2TP, PPPoE • 4. VRF (Virtual Routing and Forwarding)

Automation and Programmability	15%	- Configuration Management • 1. Python EEM (Embedded Event Manager) • 2. Configuration backup and restore • 3. DHCP, DNS automation - Cisco DNA Center • 1. Device discovery and provisioning • 2. DNA Center APIs • 3. Intent-based networking concepts - Automation Concepts • 1. REST API basics • 2. JSON, XML data formats • 3. Ansible, Puppet, Chef basics • 4. Python programming (scripts, modules)
IP Services	15%	- Quality of Service (QoS) • 1. QoS models (IntServ, DiffServ) • 2. Queuing (LLQ, CBWFQ) • 3. WRED, DSCP • 4. Shaping and policing • 5. Classification and marking - NAT and DHCP • 1. DHCP server and relay • 2. Static NAT, Dynamic NAT, PAT • 3. DHCP Snooping - Additional Services • 1. NTP (time synchronization) • 2. AAA (local, TACACS+, RADIUS) • 3. FTP, TFTP • 4. SNMP monitoring • 5. HTTP, HTTPS
Security Foundations	20%	- Network Security • 1. Access Control Lists (ACLs) • 2. 802.1X (Port-Based NAC) • 3. AAA (Authentication, Authorization, Accounting) • 4. MACsec, IPsec • 5. IPv6 ACLs - Advanced Security • 1. WPA2, WPA3 (Wireless Security) • 2. IPv6 First-Hop Security (RA Guard, DHCPv6 Guard) • 3. uRPF (Unicast Reverse Path Forwarding) • 4. CAPWAP, AP join process - Device Security • 1. Management plane security • 2. Layer 2 security (Port Security, DHCP Snooping, DAI) • 3. Control plane protection • 4. Switch security hardening

Network Assurance	15%	- Network Monitoring • 1. IP SLA • 2. NetFlow, Flexible NetFlow • 3. SNMP v2c, v3 • 4. Syslog • 5. SPAN, RSPAN, ERSPAN - Debugging and Troubleshooting • 1. Routing protocol verification • 2. Layer 2/3 troubleshooting • 3. Debug commands • 4. VLAN, STP, EtherChannel - Diagnostic Methodology • 1. 6-step troubleshooting methodology • 2. Root cause analysis
IP Connectivity	20%	- Layer 3 Routing • 1. BGP (iBGP, eBGP, route maps, prefix lists) • 2. Route redistribution • 3. EIGRP (feasible successors, variance) • 4. Route maps, prefix lists, ACLs • 5. OSPF (multi-area, stub, NSSA, virtual links) - Path Control • 1. PBR (Policy-Based Routing) • 2. IP SLA tracking • 3. Fallback routing - Switching • 1. VLAN, VTP, DTP • 2. EtherChannel (LACP, PAgP) • 3. Layer 2 switching fundamentals • 4. SPAN, RSPAN, ERSPAN • 5. STP (802.1D, RPVST+, MSTP)

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Cisco Implementing Cisco Enterprise Network Core Technologies (350-401 ENCOR) Sample Questions (Q333-Q338):

NEW QUESTION # 333

Refer to the exhibit.



Link1 is a copper connection and Link2 is a fiber connection. The fiber port must be the primary port for all forwarding. The output of the show spanning-tree command on SW2 shows that the fiber port is blocked by spanning tree. An engineer enters the command on G0/1 on SW2, but the port remains blocked. Which command should be entered on the ports that are connected to Lnk2 to resolve the issue?

- A. Enter spanning-tree port-priority 64 on SW2.
- B. Enter spanning-tree port-priority 224 on SW1.
- C. Enter spanning-tree port-priority 32 on SW1.
- D. Enter spanning-tree port-priority 4 on SW2.

Answer: C

NEW QUESTION # 334

```

username cisco privilege 15 noescape secret 5 F7u$9cyE438490035m8TQ$nv&6502x
username cisco autocommand show startup-config
aaa authentication login default local-case enable
aaa authorization exec default local

```

An engineer applies this configuration to router R1. How does R1 respond when the user 'cisco' logs in?

- A. It places the user into EXEC mode and permits the user to execute any command
- B. It displays the startup config and then permits the user to execute commands
- C. It places the user into EXEC mode but permits the user to execute only the show startup-config command
- D. It displays the startup config and then terminates the session.

Answer: B

NEW QUESTION # 335

Which measure is used by an NTP server to indicate its closeness to the authoritative time source?

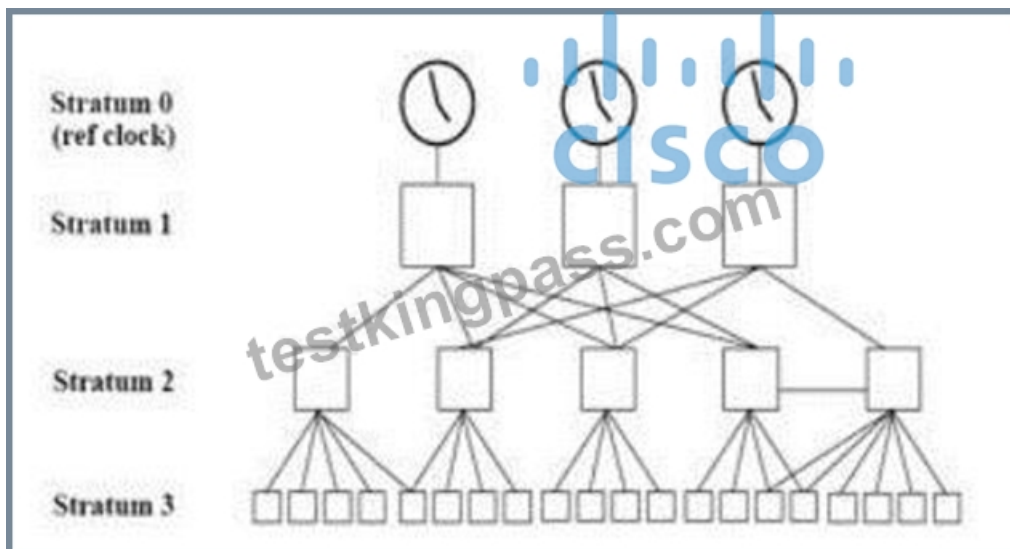
- A. stratum
- B. latency
- C. hop count
- D. time zone

Answer: A

Explanation:

Explanation

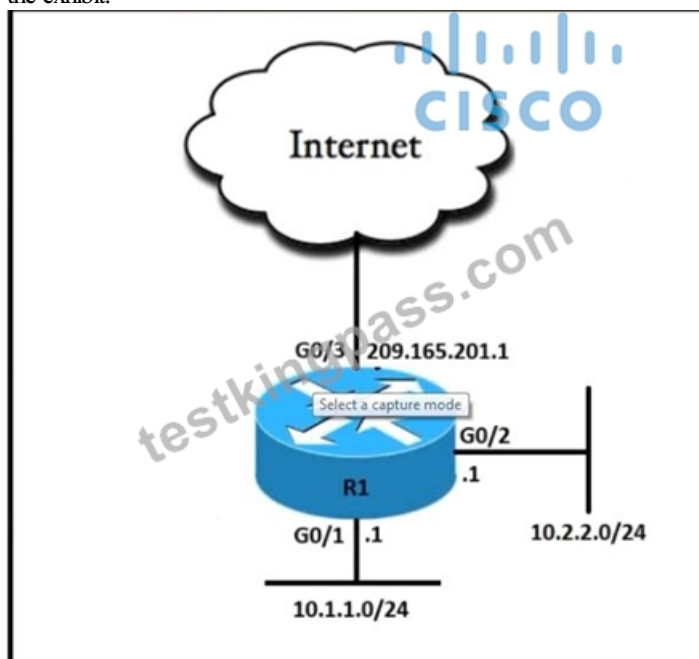
The stratum levels define the distance from the reference clock. A reference clock is a stratum 0 device that is assumed to be accurate and has little or no delay associated with it. Stratum 0 servers cannot be used on the network but they are directly connected to computers which then operate as stratum-1 servers. A stratum 1 time server acts as a primary network time standard.



A stratum 2 server is connected to the stratum 1 server; then a stratum 3 server is connected to the stratum 2 server and so on. A stratum 2 server gets its time via NTP packet requests from a stratum 1 server. A stratum 3 server gets its time via NTP packet requests from a stratum-2 server...

NEW QUESTION # 336

Refer to the exhibit.



An engineer must allow all users in the 10.2.2.0/24 subnet to access the Internet. To conserve address space, the public interface address of 209.165.201.1 must be used for all external communication. Which command set accomplishes these requirements?

A)

```
access-list 10 permit 10.2.2.0 0.0.0.255
```

```
interface G0/3
```

```
ip nat outside
```

```
interface G0/2
```

```
ip nat inside
```

```
ip nat inside source list 10 interface G0/2 overload
```

B)

```

access-list 10 permit 10.2.2.0 0.0.0.255

interface G0/3
ip nat outside

interface G0/2
ip nat inside

ip nat inside source list 10 209.165.201.1

```

C)

```

access-list 10 permit 10.2.2.0 0.0.0.255

interface G0/3
ip nat outside

interface G0/2
ip nat inside

ip nat inside source list 10 interface G0/3

```

D)

```

access-list 10 permit 10.2.2.0 0.0.0.255

interface G0/3
ip nat outside

interface G0/2
ip nat inside

ip nat inside source list 10 interface G0/3 overload

```

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

Answer: B

NEW QUESTION # 337

Refer to the exhibit.



A port channel is configured between SW2 and SW3. SW2 is not running a Cisco operating system. When all physical connections are made, the port channel does not establish. Based on the configuration excerpt of SW3, what is the cause of the problem?

- A. The port channel on SW2 is using an incompatible protocol.
- B. The port-channel trunk is not allowing the native VLAN.
- C. The port-channel interface load balance should be set to src-mac
- D. The port-channel should be set to auto.

Answer: A

• • • • •

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