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QUESTION 1

Routers R1 and R2 are on the same network segment, and both routers use interface GigabitEthernet0/0. If R1 loses communication to R2, which two items should you check as you begin troubleshooting? (Choose two.)

- A. Verify that R2 is using 802.1q encapsulation.
- B. Verify that the GigabitEthernet0/0 interfaces on R1 and R2 are configured with the same subnetmask.
- C. Verify that the R1 GigabitEthernet0/0 interface is up and the line protocol is down.
- D. Verify that R1 and R2 both are using HDLC encapsulation.
- E. Verify that the R1 GigabitEthernet0/0 interface is up and the line protocol is up.

Correct Answer: BE

QUESTION 2

Which IEEE standard does PVST+ use to tunnel information?

- A. 802.1x
- B. 802.1q
- C. 802.1w
- D. 802.1s

Correct Answer: B

QUESTION 3

Select and Place:



Drag each definition on the left to the matching term on the right.

| | |
|-----------------------------------|--|
| ip host | enables the DNS server on the device |
| ip name | specifies a sequence of domain names |
| ip dns server | enables DNS lookup on an individual interface |
| ip domain list | specifies the default domain to append to unqualified host names |
| ip domain name | statically maps an IP address to a hostname |
| ip domain lookup source interface | identifies a DNS server to provide lookup services |

Correct Answer:

Drag each definition on the left to the matching term on the right.

| | |
|--|-----------------------------------|
| | ip dns server |
| | ip domain list |
| | ip domain lookup source interface |
| | ip domain name |
| | ip host |
| | ip name |

**QUESTION 4**

What are two enhancements that OSPFv3 supports over OSPFv2? (Choose two.)

- A. It requires the use of ARP.
- B. It can support multiple IPv6 subnets on a single link.
- C. It supports up to 2 instances of OSPFv3 over a common link.
- D. It routes over links rather than over networks.

Correct Answer: BD

Here is a list of the differences between OSPFv2 and OSPFv3:

They use different address families (OSPFv2 is for IPv4-only, OSPFv3 can be used for IPv6-only or both protocols)
OSPFv3 introduces new LSA types
OSPFv3 has different packet format
OSPFv3 uses different flooding scope bits (U/S2/S1)
OSPFv3 adjacencies are formed over link-local IPv6 communications
OSPFv3 runs per-link rather than per-subnet
OSPFv3 supports multiple instances on a single link, Interfaces can have multiple IPv6 addresses
OSPFv3 uses multicast addresses FF02::5 (all OSPF routers), FF02::6 (all OSPF DRs)
OSPFv3 Neighbor Authentication done with IPsec (AH)
OSPFv2 Router ID (RID) must be manually configured, still a 32-bit number

Reference: <http://www.networkworld.com/article/2225270/cisco-subnet/ospfv3-for-ipv4-and-ipv6.html>

QUESTION 5

Which command should you enter to configure an LLDP delay time of 5 seconds?

- A. lldp reinit 5000
- B. lldp reinit 5
- C. lldp holdtime 5
- D. lldp timer 5000

Correct Answer: B

QUESTION 6

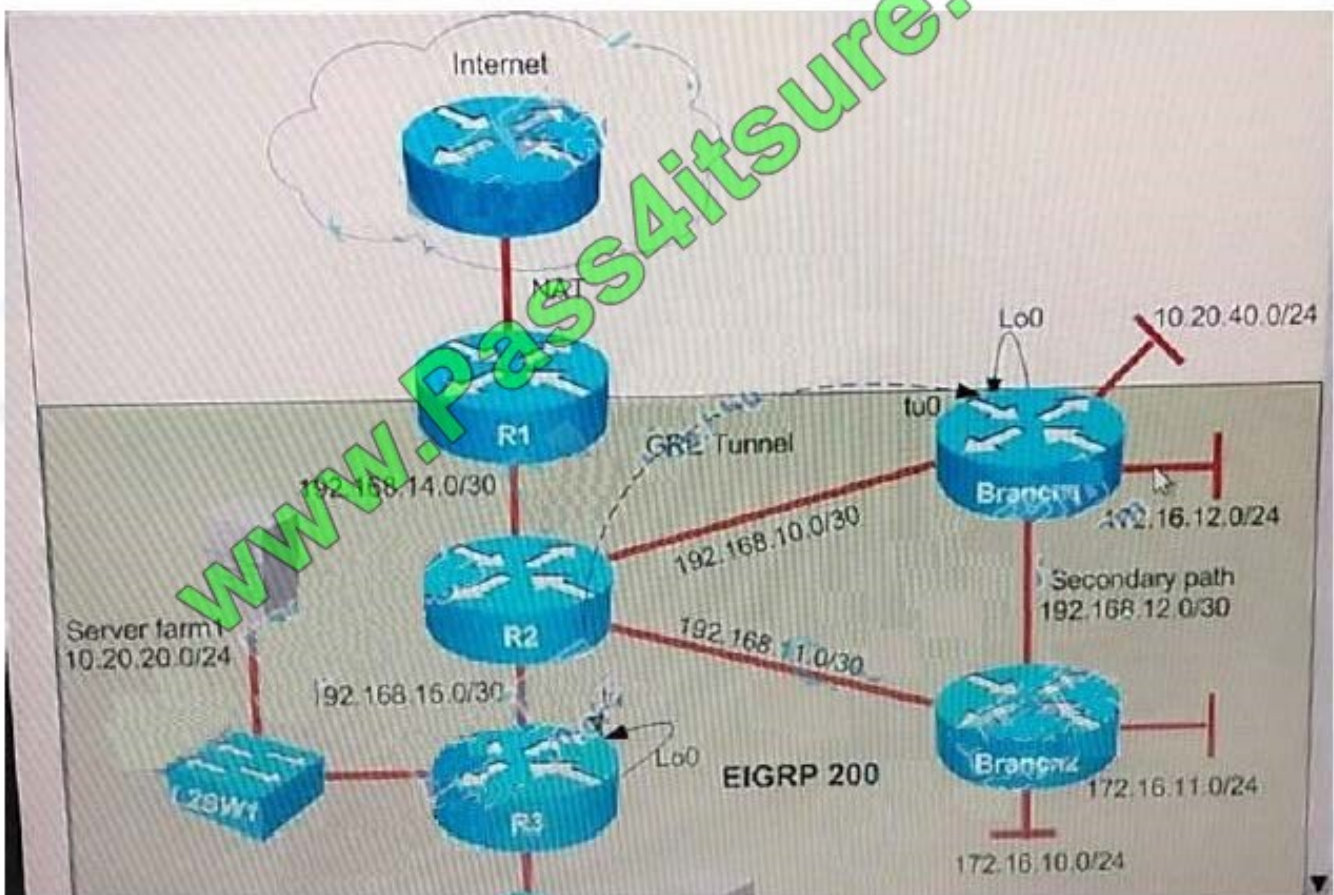


You are implementing EIGRP between the main office and branch offices. In Phase 1, you must implement and verify EIGRP configurations as mentioned in the topology. In Phase 2, your colleague is expected to do NAT and ISP configurations.

Identify the issues that you are encountering during Phase 1 EIGRP implementation.

- Router R1 connects the main office to the Internet and routers R2 and R3 are internal routers.
- Routers Branch1 and Branch2 connect to router R2 in the main office.
- Users from the Branch1 LAN network 10.20.40.0/24 are expected to perform testing of the application that is hosted on the servers in Server farm1, before servers are available for production.
- The GRE tunnel is configured between R3 and Branch1, and traffic between server farm1 and Branch1 LAN network 10.20.40.0/24 is routed through the GRE tunnel using static routes.
- The link between Branch1 and Branch2 is used as a secondary path in the event of failure of the primary path to main office.

You have console access on R1, R2, R3, Branch1, and Branch2 devices. Use only show commands to troubleshoot the issues.



The GRE tunnel between R3 and Branch 1 is down. Which cause of the issue is true?

- A. The tunnel source loopback0 interface is not advertised into EIGRP in Branch1.
- B. The tunnel source loopback0 interface is not advertised into EIGRP in R3.
- C. The EIGRP neighbor relationship was not formed due to EIGRP packets blocked by inbound ACL on R3.
- D. The EIGRP neighbor relationship was not formed due the IP address being misconfigured between the R2 and R3 interface.

Correct Answer: C



QUESTION 7

Which MTU size can cause a baby giant error?

- A. 1500
- B. 9216
- C. 1600
- D. 1518

Correct Answer: C

Explanation: <http://www.cisco.com/c/en/us/support/docs/switches/catalyst-4000-series-switches/29805-175.html>

QUESTION 8

Which feature can you use to restrict SNMP queries to a specific OID tree?

- A. server group
- B. a community
- C. a view record
- D. an access group

Correct Answer: C

QUESTION 9

Which three statements about the features of SNMPv2 and SNMPv3 are true? (Choose three.)

- A. SNMPv3 enhanced SNMPv2 security features.
- B. SNMPv3 added the Inform protocol message to SNMP.
- C. SNMPv2 added the Inform protocol message to SNMP.
- D. SNMPv3 added the GetBulk protocol messages to SNMP.
- E. SNMPv2 added the GetBulk protocol message to SNMP.
- F. SNMPv2 added the GetNext protocol message to SNMP.

Correct Answer: ACE

SNMPv1/v2 can neither authenticate the source of a management message nor provide encryption. Without



authentication, it is possible for nonauthorized users to exercise SNMP network management functions. It is also possible for nonauthorized users to eavesdrop on management information as it passes from managed systems to the management system. Because of these deficiencies, many SNMPv1/v2 implementations are limited to simply a read-only capability, reducing their utility to that of a network monitor; no network control applications can be supported. To correct the security deficiencies of SNMPv1/v2, SNMPv3 was issued as a set of Proposed Standards in January 1998. -> A is correct. The two additional messages are added in SNMP2 (compared to SNMPv1)

GetBulkRequest The GetBulkRequest message enables an SNMP manager to access large chunks of data. GetBulkRequest allows an agent to respond with as much information as will fit in the response PDU. Agents that cannot provide values for all variables in a list will send partial information. -> E is correct.

InformRequest The InformRequest message allows NMS stations to share trap information. (Traps are issued by SNMP agents when a device change occurs.) InformRequest messages are generally used between NMS stations, not between NMS stations and agents. -> C is correct.

Note: These two messages are carried over SNMPv3.

QUESTION 10

Which command can you enter to display duplicate IP addresses that the DHCP server assigns?

- A. show ip dhcp conflict 10.0.2.12
- B. show ip dhcp database 10.0.2.12
- C. show ip dhcp server statistics
- D. show ip dhcp binding 10.0.2.12

Correct Answer: A

QUESTION 11

Router R1 has a static route that is configured to a destination network. A directly connected interface is configured with an IP address in the same destination network. Which statement about R1 is true?

- A. It refuses to advertise the dynamic route to other neighbors
- B. It sends a withdrawal signal to the neighboring router
- C. It disables the routing protocol
- D. It prefers the static route

Correct Answer: D

QUESTION 12

Which value is included in the initial TCP syn message?



- A. a session ID
- B. sequence number
- C. a TTL number
- D. an acknowledgment number

Correct Answer: B

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