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1. **Which two advantages does scheduled maintenance offer over interrupt-driven events? (Choose two.)**
   - **reduced network downtime ***
   - faster time to resolution of problems
   - simplified troubleshooting processes
   - **predictable lead times for change requests ***
   - maintenance windows during regular business hours

2. **RSPAN depends on which type of VLAN?**
   - native VLAN
   - management VLAN
   - default VLAN
   - **RSPAN VLAN ***
   - black hole VLAN
   - private VLAN

3. **Refer to the exhibit. What information can be deduced from the provided debug aaa accountingcommand output?**

```
R1# debug aaa accounting

May 10 14:48:33.011: AAA/ACCT/EXEC(00000005): Pick method list
'default'
May 10 14:48:33.011: AAA/ACCT/SETMLIST(00000005): Handle 0, mlist
81CA79CC, Name default
May 10 14:48:33.011: Getting session id for EXEC (00000005):
db=82099258
May 10 14:48:33.011: AAA/ACCT/EXEC(00000005): add, count 2
May 10 14:48:33.011: AAA/ACCT/EVENT(00000005): EXEC UP
May 10 14:49:21.011: AAA/ACCT: EXEC acct start, line 10
May 10 16:49:32.011: AAA/ACCT: Connect start, line 10, glare

May 10 16:49:47.011: AAA/ACCT: Connection acct stop:
task_id=70 service=exec port=10 protocol=telnet address=172.31.3.78
cmd=glare bytes_in=308 bytes_out=76 paks_in=45 paks_out=54
elapsed_time=14
```

- **The user successfully gained access to the router EXEC shell.***
- The user attempts to gain access to a local security server were unsuccessful.
- The user credentials were rejected by the default authentication method.
- The user access to the services was stopped becauseof the improper protocol that was used for the session.

4. **Refer to the exhibit. A network administrator issues the show interfaces s0/0/0command on a router to determine the cause for a recent decrease in device performance. Based on theoutput shown, what is a possible cause of the observed performance issues?**

```
HQ# show interfaces s0/0/0

<output omitted>

Output queue 0/150, 0 drops; input queue 1/150, 0 drops
5 minute input rate 6000 bits/sec, 15 packets/sec
5 minute output rate 88000 bits/sec, 28 packets/sec
128629 packets input, 13144107 bytes, 0 no buffer
Received 6242 broadcasts, 0 runts, 0 giants, 17 throttles
822 input errors, 0 CRC, 0 frame, 417 overrun, 417 ignored, 7 abort
185274 packets output, 92861390 bytes, 0 underruns
0 output errors, 0 collisions, 23 interface resets
0 output buffer failures, 0 output buffers swapped out
0 carrier transitions

<output omitted>
                                              ITExamAnswers.net
```

- **high CPU usage on the router ***
- insufficient RAM in the router
- incorrect or outdated version of the Cisco IOS
- unrecognized Layer 2 encapsulation formats on the network

5. **In which three situations will traffic be handed off (punted) to the CPU for processing? (Choose three.)**
   - **any traffic that is going through a GRE tunnel ***
   - any traffic that is explicitly blocked by an ACL
   - **any traffic that is destined for any of the switch IP addresses ***
   - any traffic that is assigned to a particular VLAN that is not allowed on a trunk
   - any traffic that is coming to an inbound port that is in the spanning-tree blocking state
   - **any multicast and broadcast traffic that is coming from the Spanning Tree Protocol (STP) or routing protocols ***

6. **An administrator has just implemented two-way routeredistribution between an OSPF and EIGRP domain. However, network performance between domains quickly degraded and aninvestigation revealed routing loops. What action could be used to solve this issue?**

- Change the seed metric of the routes being redistributed.
- **Filter the routes being redistributed between the protocols.***
- Redistribute all subnets in both EIGRP and OSPF domains.
- Configure an additional router to be a secondary point of route redistribution.

7. **What content can be found in the show ip eigrp topology network maskoutput?**

- minimum delay
- cumulative cost
- **hop count ***
- variance
- metric weights

8. **Refer to the exhibit. BPDU guard and PortFast have been configured on all edge ports on the access switches. A junior network administrator tested a new switch in the lab and verified that the bridge ID is 32887. What would happen when the administrator plugs this switch into port Fa0/20 on ASW_1 in an attemptto extend the LAN?**
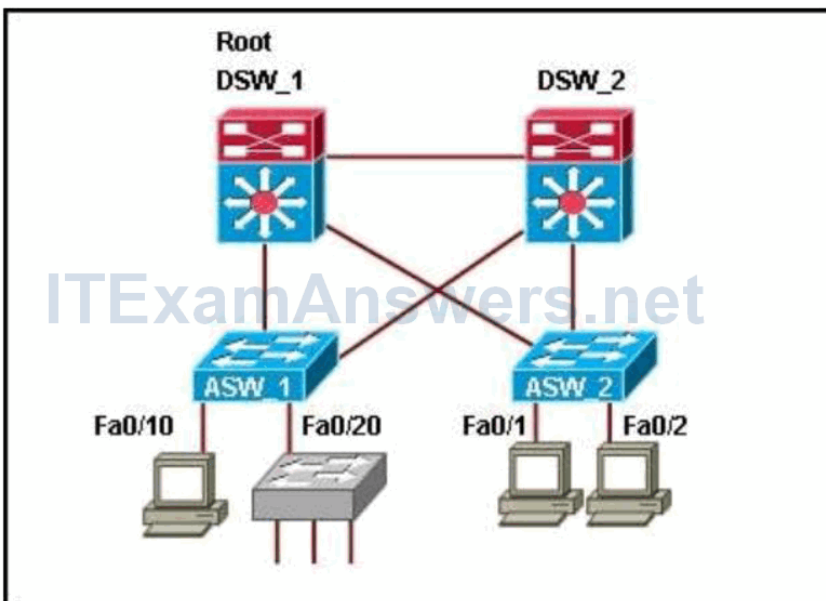
- **Port Fa0/20 will be shut down.***
- Port Fa0/20 will become a root port.
- Port Fa0/20 will start forwarding traffic immediately.
- Port Fa0/20 will transition from blocking to forwarding state after the spanning tree convergence.

9. **What is a characteristic of network maintenance?**

- Network maintenance typically excludes consideration of network changes.
- Proper network maintenance will eliminate network downtime.

- **Maintaining network documentation is an important element of network maintenance.***
- The amount of resources expended on network maintenance is consistent across all companies.

10. **Refer to the exhibit. A network administrator is troubleshooting a connectivity issue between LAN clients on routers R1 and R3. Connectivity tests from R2 to the R1 and R3 LAN segments are successful. The administrator issues the debug ip icmpcommand for R1 and confirms that a routing issue exists. Based on the information that is presented in the exhibit, which configuration command would correct the problem?**
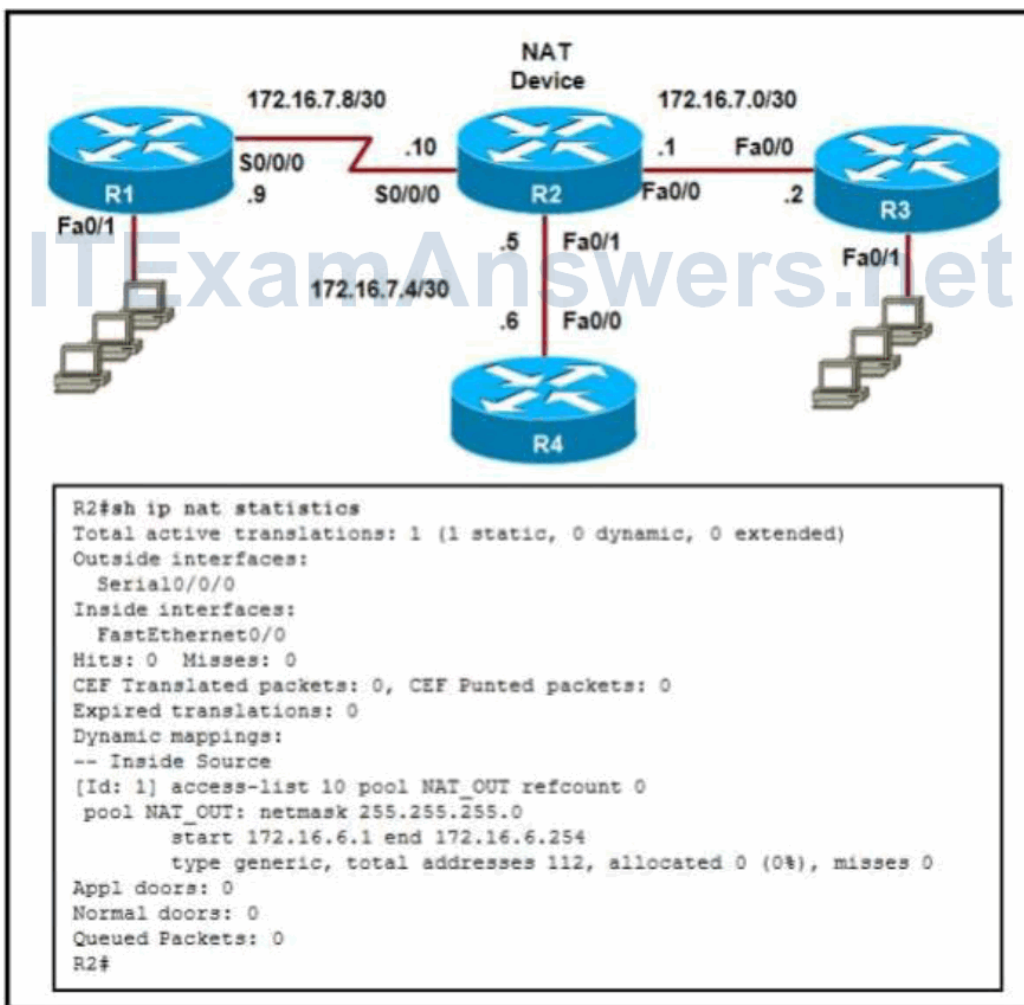
- R1(config)# ip route 0.0.0.0 0.0.0.0 172.16.7.1
- **R1(config)# ip route 172.16.6.0 255.255.255.0 172.16.7.10 ***
- R2(config)# ip route 172.16.6.0 255.255.255.0 172.16.7.9
- R2(config)# ip route 0.0.0.0 0.0.0.0 172.16.7.9
- R3(config)# ip route 0.0.0.0 0.0.0.0 172.16.7.9

▪ R3(config)# ip route 172.16.6.0 255.255.255.0 172.16.7.10

11. **What is the final task in a structured troubleshooting process?**

▪ gathering information

▪ testing the hypothesis

▪ **documenting the changes ***

▪ eliminating possible causes

12. **Syslogs reveal malicious activity originating from an internal host that is located at IP address 10.10.10.251. From the local gateway router, the administrator successfully pings the host IP address and populates the ARP cache of the router. The administrator then issues the show ip arp 10.10.10.251command and discovers that the MAC address of the host is 0011.9254.e2a0. What could the administrator do next to discover the physical location of the malicious host?**

▪ **Issue the show mac address-table address 0011.9254.e2a0command on various switches and follow the path tothe host.***

▪ Issue the show vlancommand on various switches and follow the path tothe host.

▪ Issue the traceroute 0011.9254.e2a0command and follow the path to the host.

▪ Issue the traceroute 10.10.10.251command and follow the path to the host.

13. **Which two pieces of information are displayed by the debug ip bgpcommand? (Choose two.)**

▪ BGP updates

▪ route redistribution information

▪ **BGP related events ***

▪ **phases of BGP peering relationships ***

▪ internal metrics of IBGP routes

14. **Refer to the exhibit. What could be concluded aboutthe TACACS+ failure based on the exhibited commandoutput from debug tacacsand debug aaa authentication?**

```
R1# debug tacacs

R1# debug aaa authentication

TAC+: received bad AUTHEN packet: length = 68, expected 67857
TAC+: Invalid AUTHEN/START packet (check keys)
AAA/AUTHEN (1771887965): status = ERROR
```

▪ The TACACS+ server is not operational.

▪ The TACACS+ server IP address has been incorrectly configured on the router.

▪ **The TACACS+ server key of the router does not matchthat of the TACACS+ server.***

- The username and password that were supplied by theuser were rejected by the TACACS+ server.

15. **Refer to the exhibit. A network administrator issued the debug dhcp detailcommand to verify the operations of DHCP on routerR2. Which statement is correct about the active DHCP processes on R2?**
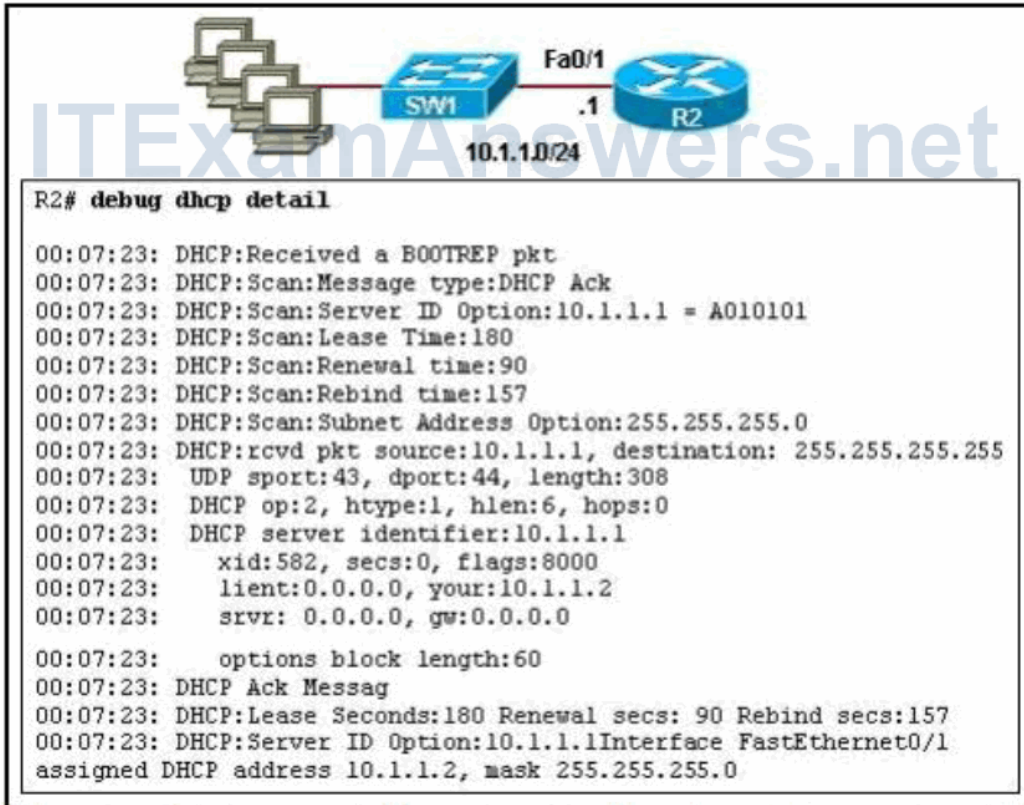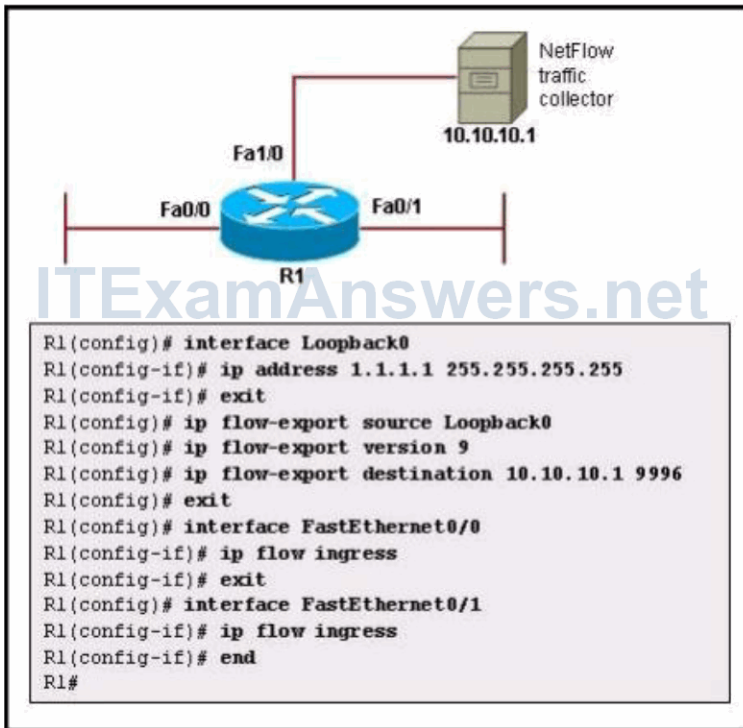

- The DHCP server sends a DHCPOFFER message with the full set of configuration parameters to the client.
- The DHCP client sends out a DHCPDISCOVER broadcast message to find its local DHCP server.
- **The DHCP server sends a DHCPACK message with the full set of configuration parameters to the client.***
- The DHCP client sends out a DHCPREQUEST broadcast message to the DHCP server to accept the offered parameters.

16. **Which two benefits do the use of templates provide in the troubleshooting process? (Choose two.)**
- **provide an effective method of maintaining network documentation ***
- **ensure that all individuals carry out similar tasksin a consistent manner ***
- document the solution to specific problems eliminating the requirement for troubleshooting
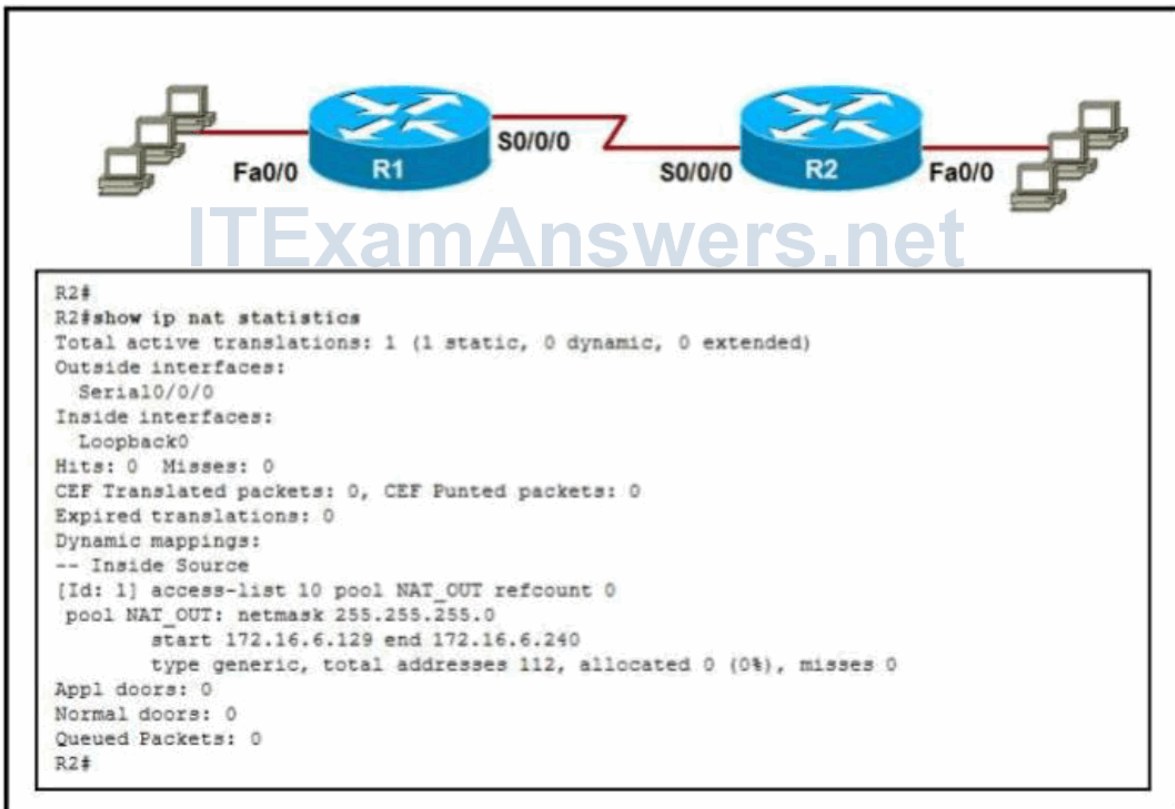
- allow each technician to select the best troubleshooting process to use for a particular problem
- ensure that the problem is located and corrected regardless of the knowledge level of the technician

17. **Which VTP mode is configured on a switch in the implementation of private VLANs?**
    - client
    - server
    - **transparent ***
    - client or server
    - client or transparent
    - transparent or server

18. **A network administrator notices frames are receivedon a different port than expected on a switch. What are two plausible causes of the problem? (Choose two.)**
    - a routing error
    - an access list error
    - **duplicate MAC addresses ***
    - VLAN trunk misconfiguration
    - **a Spanning Tree Protocol related issue ***

19. **What are the three private VLAN (PVLAN) port types?(Choose three.)**
    - **community ***
    - edge
    - **isolated ***
    - point-to-point
    - **promiscuous ***
    - protected

20. **Refer to the exhibit. Based on the information thatis provided, which two NetFlow statements are correct? (Choose two.)**


```
R1(config)# interface Loopback0
R1(config-if)# ip address 1.1.1.1 255.255.255.255
R1(config-if)# exit
R1(config)# ip flow-export source Loopback0
R1(config)# ip flow-export version 9
R1(config)# ip flow-export destination 10.10.10.1 9996
R1(config)# exit
R1(config)# interface FastEthernet0/0
R1(config-if)# ip flow ingress
R1(config-if)# exit
R1(config)# interface FastEthernet0/1
R1(config-if)# ip flow ingress
R1(config-if)# end
R1#
```

- **All NetFlow packets sent from R1 to the traffic collector will be sourced from IP address 1.1.1.1.***
- Interfaces Fa0/0 and Fa0/1 must also be included asflow-export source interfaces.
- NetFlow version 5 should be configured if the infrastructure includes non-Cisco devices.
- **NetFlow will track all ingress traffic for interfaces Fa0/0 and Fa0/1.***
- NetFlow will forward the traffic statistics and packet payload content of interfaces Fa0/0 and Fa0/1 to IP address 10.10.10.1.
- The UDP value 9996is optional because it is the default NetFlow destination port number.

21. **Refer to the exhibit. A network administrator is troubleshooting a NAT translation issue on router R2.The IP addresses of hosts on the R2 LAN are not being translated**

by R2. Based on theinformation in the exhibit, what is the issue?


```
R2#
R2#show ip nat statistics
Total active translations: 1 (1 static, 0 dynamic, 0 extended)
Outside interfaces:
  Serial0/0/0
Inside interfaces:
  Loopback0
Hits: 0  Misses: 0
CEF Translated packets: 0, CEF Punted packets: 0
Expired translations: 0
Dynamic mappings:
-- Inside Source
[Id: 1] access-list 10 pool NAT_OUT refcount 0
 pool NAT_OUT: netmask 255.255.255.0
         start 172.16.6.129 end 172.16.6.240
         type generic, total addresses 112, allocated 0 (0%), misses 0
Appl doors: 0
Normal doors: 0
Queued Packets: 0
R2#
```

- The NAT pool is exhausted.
- The static translation prevents any new dynamic translations.
- The ACL is using a wrong pool reference.
- **The R2 LAN is not configured as an inside interface.***

22. **Refer to the exhibit. An administrator has configured VRRP on routers R1 and R2. However, no output isgenerated using the show vrrp briefcommand on router R1. The administrator then verifies the VRRP interface and key chain configurations. Based on**

the output in the exhibit. what is the cause of the problem?
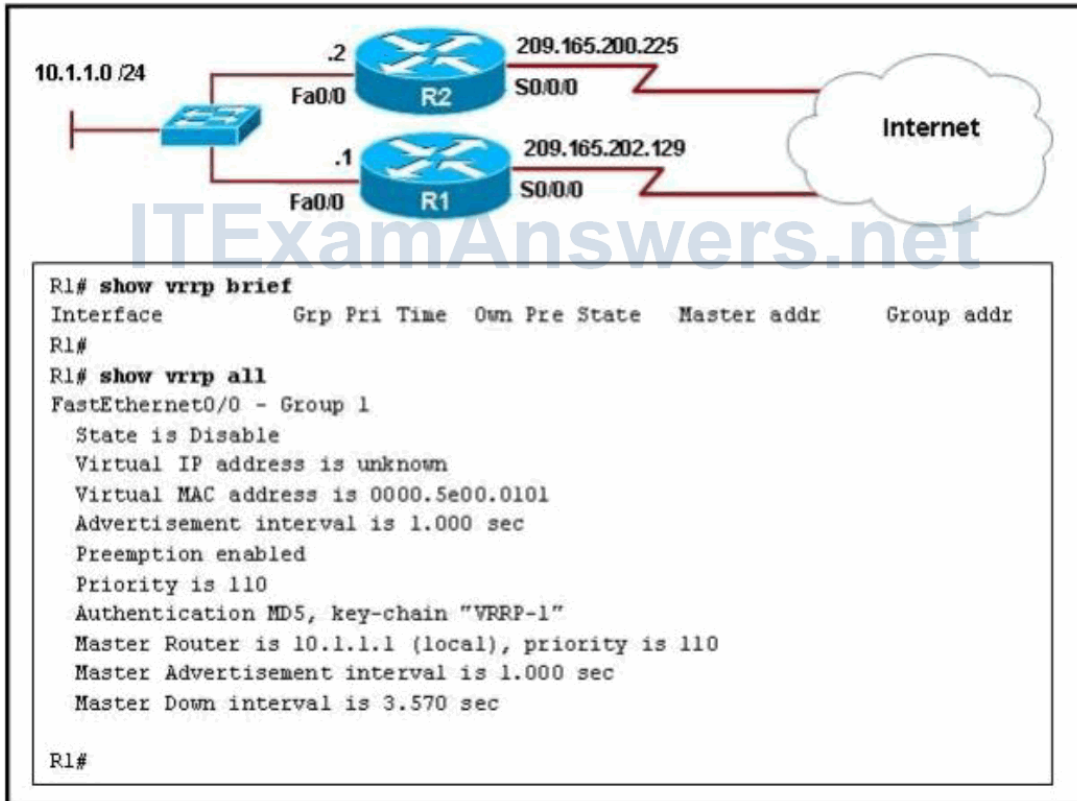
- **Interface FastEthernet 0/0 on router R1 requires the vrrp 1 ip 10.1.1.254command to be issued.***

- Interface FastEthernet 0/0 on router R1 requires the vrrp 1 preemptcommand to be issued.

- Interface FastEthernet 0/0 on router R1 requires the vrrp 1 priority 100command to be issued.

- Router R1 is configured to use text authentication,while R2 is configured to use MD5 authentication.

- Router R1 should be configured to use text authentication.

23. **Refer to the exhibit. A network administrator is investigating a possible network congestion problem. Which information is indicative of network congestion?**
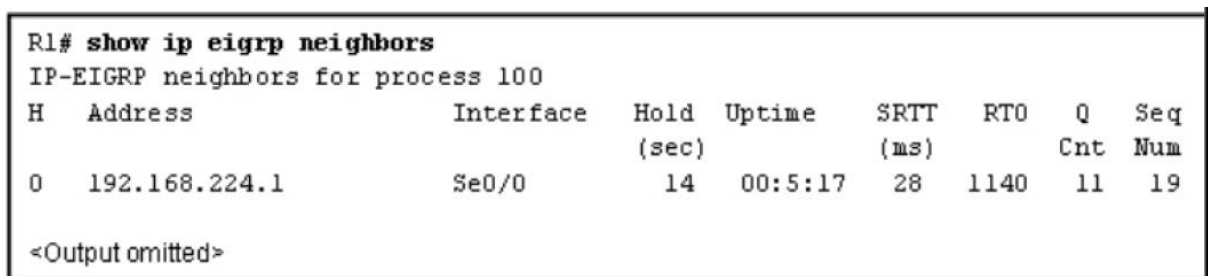

- The EIGRP neighbor has not sent any hello packets in the last 14 seconds.

- The EIGRP neighbor is redistributing routes from OSPF with invalid seed metrics.

- The EIGRP neighbor is offline and unreachable.
- **The Q Cnt field should be at zero.***
- The Seq Num field should be much higher.
- The values of the SRTT and RTO fields should be much lower.

24. **Which DHCP message is sent by the server to the client and contains the DHCP configuration parameters?**
   - DHCP DISCOVER
    - DHCP OFFER
    - DHCP REQUEST
    - **DHCP ACK ***
    - DHCP NAK
    - DHCP INFORM

25. **Which statement is true based on the show ip ospf neighborcommand output that is shown in the exhibit?**
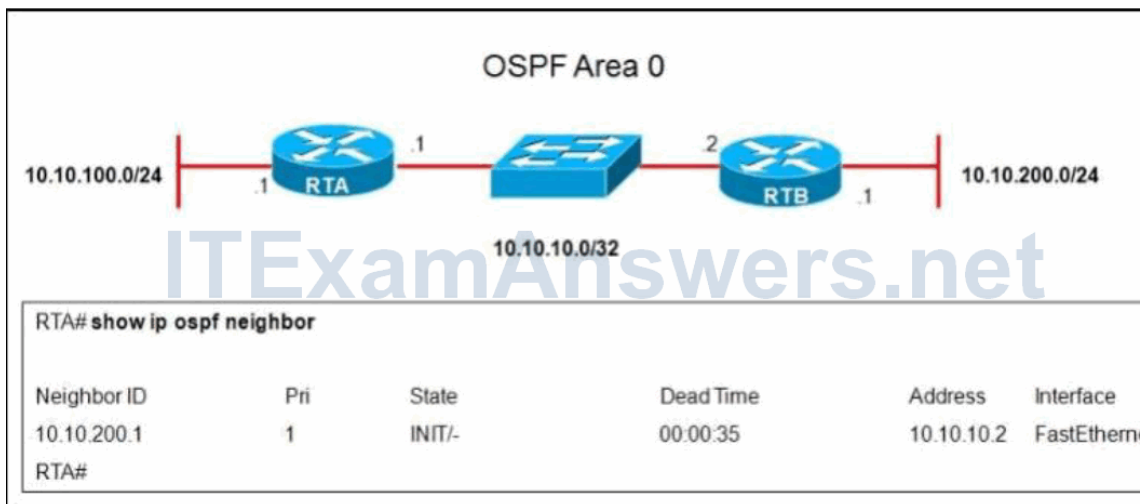
- **RTB did not see its router ID in the hello packet that was received from RTA.***
- RTB did not receive a hello packet from RTA.
- RTB is able to exchange routing updates with RTA.
- RTB has established an adjacency with RTA.

26. **Refer to the exhibit. A network administrator is troubleshooting a connectivity issue between R1 and R2. The routers are failing to create a neighbor relationship and no OSPF HELLO packets are traversing the Frame Relay link. Based on the output, what**

does the administrator need to do on R1 to correct the issue?
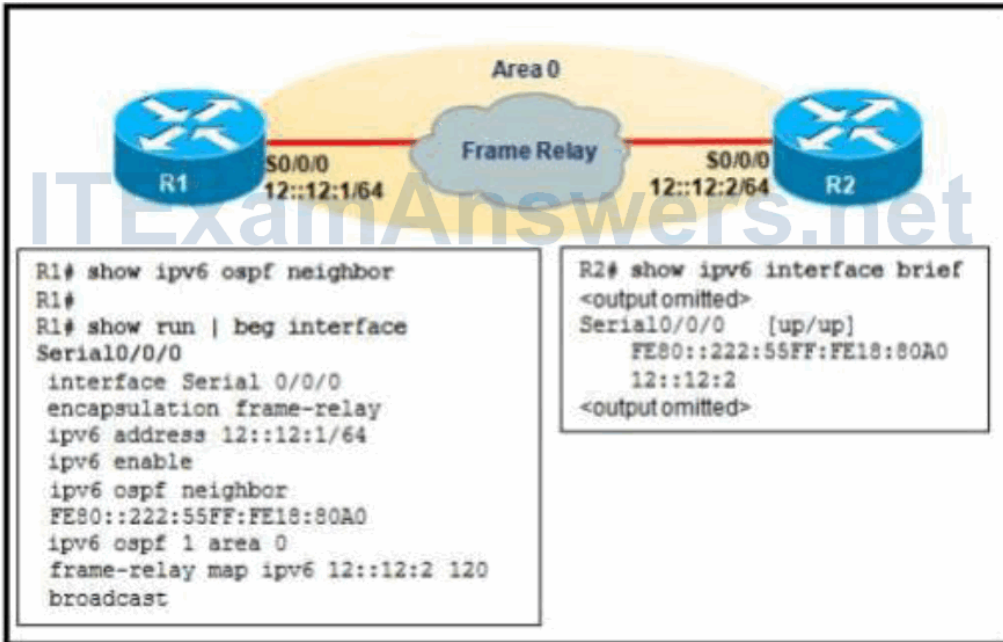
- **Map the DLCI to the link local address of R2.***
- Change the OSPF neighbor to point to the global unicast address of R2.
- Change the IPv6 address on Serial 0/0/0 to be in the same segment as the Serial 0/0/0 interface of R2.
- Remove the broadcastkeyword from the frame-relay mapstatement.

27. **Refer to the exhibit. You have been asked to troubleshoot a connectivity issue between R3 and R1. Fromthe partial output of theshow running-configcommand on both**
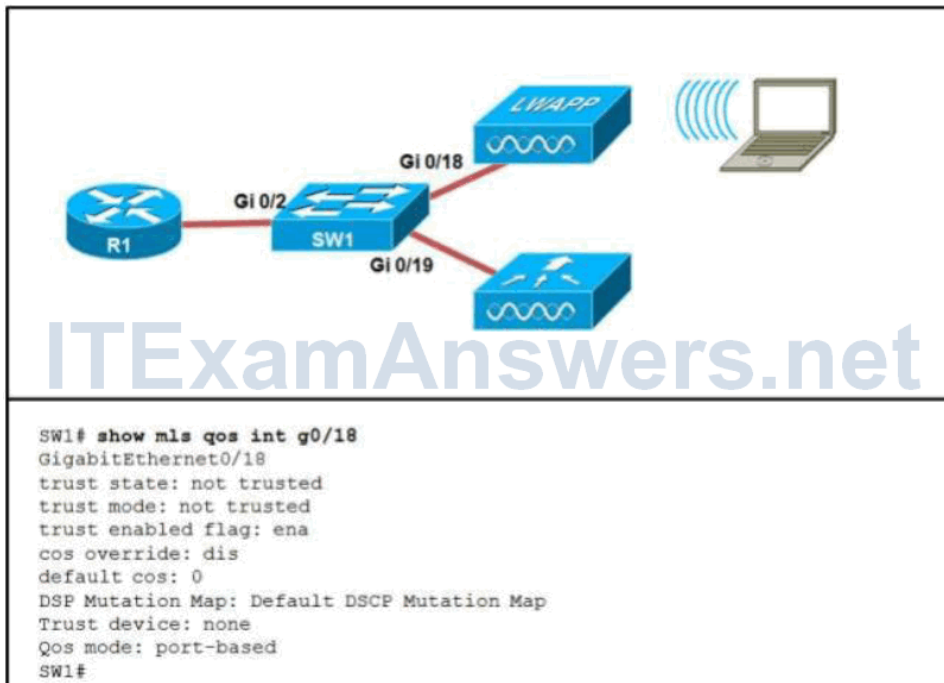
routers, what configuration changeis required?
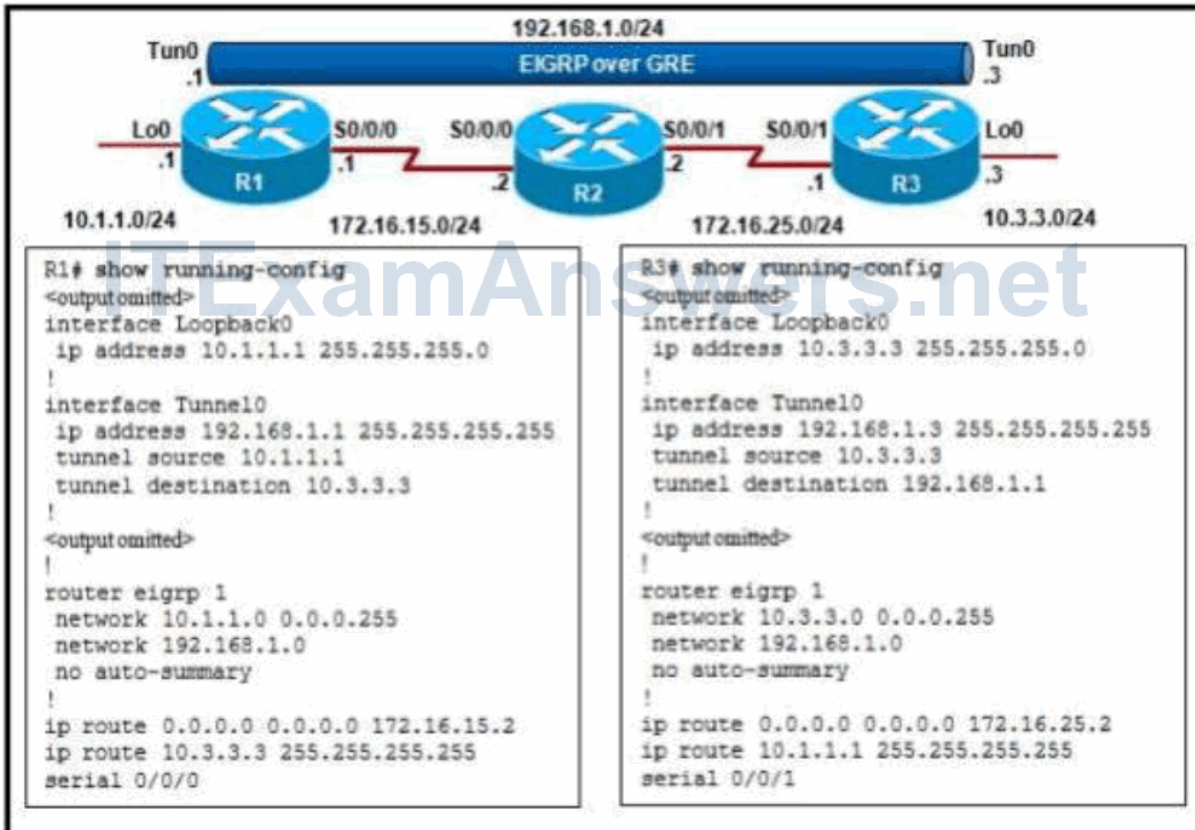
- A static route should be added to R3 to point to the 192.168.1.0/24 network.
- A static route should be added to R1 to point to the 192.168.1.0/24 network.
- The tunnel source for Tunnel0 on R3 should be the IP address of Serial0/0/1 on R1.
- The tunnel source for Tunnel0 on R1 should be the IP address of Loopback0 on R3.
- The tunnel destination for Tunnel0 on R1 should be the IP address of Serial0/0/1 on R3.
- **The tunnel destination for Tunnel0 on R3 should be the IP address of Loopback0 on R1.***

28. **Which type of spanning tree failure is the most disruptive?**
- The STP reaches its maximum diameter.
- **Ports that should be blocked start forwarding.***
- The TTL field in the Ethernet frames decrements to 0 on all frames.
- Frames with matching entries in the MAC address table are not forwarded.

29. **Refer to the exhibit. Wireless network users are complaining aboutperformance issues, especially when using Voice over WLAN. Based on the output that is shown,**

what could be the problem?


```
SW1# show mls qos int g0/18
GigabitEthernet0/18
trust state: not trusted
trust mode: not trusted
trust enabled flag: ena
cos override: dis
default cos: 0
DSP Mutation Map: Default DSCP Mutation Map
Trust device: none
Qos mode: port-based
SW1#
```

- QoS is not supported in Lightweight mode.
- The trunk between R1 and SW1 does not support QoS.
- **SW1 is resetting the DSCP values supplied by the Lightweight AP.***
- The Wireless LAN Controller has not been configuredto support voice traffic.
- QoS has not been enabled between the Lightweight APand the Wireless LAN Controller.

30. **Which backup mechanism presents the highest security risk?**

- FTP
- HTTPS
- SCP
- **TFTP ***

31. **An administrator notices that CDP is disabled on a port that connects to an IP phone. What effect willthis have?**

- The phone will experience intermittent connectivity.
- The phone will be placed into the default VLAN.
- **The phone will not be able to discover auxiliary VLAN information, QoS settings, or automatically negotiate power settings.***
- The phone will be able to make calls but will not be able to receive calls.

32. **Which two conditions could cause two routers to have trouble establishing a neighbor relationship in an OSPF network? (Choose two.)**

- The interfaces have different network types.
- **Hello packets are not sent from either neighbor.***

- One of the routers is redistributing the OSPF routes into EIGRP.
- **Slow network connections cause OSPF advertisements to time out.***
- The networkcommand has put the connected interfaces into the same OSPF area.

33. **Refer to the exhibit. A port channel link between abranch site and the main site experiences an outage after a hardware upgrade at the branch site. The network administrator at the main site checks the log and sees a "%SPANTREE-2-CHNL_MISCFG" message. What is a likely cause of this message?**

```
SwitchA#%SPANTREE-2-CHNL_MISCFG: Detected loop due to etherchannel
misconfiguration of Gi4/1
SwitchA#
```

- The branch site has been configured for the Spanning Tree Protocol, but the main site has not.
- **The main site has been configured to bundle links into an EtherChannel and the branch site has not.***
- The branch site is running a newer, incompatible version of the Spanning Tree Protocol.
- The main site has inconsistencies in the physical ports that are members of the channel.

34. **Refer to the exhibit. Based on the output of the debug ip natcommand in the exhibit, which two statements are true? (Choose two.)**

```
Router# debug ip nat
NAT: s=192.168.1.95->172.31.233.209, d=172.31.2.132 [6825]
NAT: s=172.31.2.132, d=172.31.233.209->192.168.1.95 [21852]
NAT: s=192.168.1.95->172.31.233.209, d=172.31.1.161 [6826]
NAT*: s=172.31.1.161, d=172.31.233.209->192.168.1.95 [23311]
NAT*: s=192.168.1.95->172.31.233.209, d=172.31.1.161 [6827]
NAT*: s=192.168.1.95->172.31.233.209, d=172.31.1.161 [6828]
NAT*: s=172.31.1.161, d=172.31.233.209->192.168.1.95 [23313]
NAT*: s=172.31.1.161, d=172.31.233.209->192.168.1.95 [23325]
```

- Packets were not translated for the return path from source 192.168.1.95.
- **Packets that are destined for 172.31.2.132 from source 192.168.1.95 are translated into 172.31.233.209.***
- **Entries that are indicated with NAT* have been translated via the fast path.***
- The IP address 172.31.233.209 is the configured IP address on the remote PC.
- Entries with NAT* have the ToS value 5.

35. **When configuring private VLANs, how many isolated VLANs can be mapped to a primary VLAN?**

- 0
- **1 ***
- 2

- 4
- platform dependent

36. **Which switch error is indicative of a duplex mismatch on the full-duplex side of a link?**
    - Xmit-Err
    - Rcv-Err
    - **FCS-Err ***
    - Giants

37. **Refer to the exhibit. Users are complaining that they are unable to access the web server that is located at 172.16.1.101. Based on the partial syslog output that is exhibited, what is causing this problem?**

```
<output omitted>

May 23 16:22:34.739 UTC: %FW-6-SESS_AUDIT_TRAIL_START:
(target:class)- publicPrivateOut:myClassMap:Start http session:
initiator (10.1.1.100:3372) -- responder (172.16.1.101:80)
May 23 16:22:34.907 UTC: %APPFW-4-HTTP_JAVA_APPLET: HTTP Java
Applet detected - resetting session 172.16.1.101:80
10.1.1.100:3372 on zone-pair publicPrivateOut class myClassMap
appl-class HttpAic
May 23 12:22:34.919 UTC: %FW-6_SESS_AUDIT_TRAIL: (target:class)-
(publicPrivateOut:myClassMap):Stop http session: initiator
(10.1.1.100:3372) sent 297 bytes -- responder (172.16.1.101:80)
sent 0 bytes

<output omitted>
```

- The web server is denying the client request.
- There is no logical path from the client to the webserver location.
- **A Java applet reset option is configured on the zone-based policy firewall.***
- The zone-based policy firewall has been configured to block all HTTP traffic to the server location.
- The classic IOS firewall has not been properly configured to allow HTTP traffic in response to an internal request.

38. **Which action occurs immediately following POST in the boot process of a Cisco IP phone?**
   - The IP phone sends DHCP broadcasts.
    - The IP phone initializes the IP stack.
    - **The IP phone uses CDP to learn the voice VLAN.***
    - The IP phone requests a configuration file from a TFTP server.

39. **What occurs when the no service password-recoverycommand is entered on the router?**
    - Passwords will not be encrypted.

- Executive passwords can be retrieved and viewed in the running configuration.
- Executive passwords can be changed in ROMMON mode.
- **The original configuration and passwords cannot be retrieved.***
- All passwords are encrypted to level 7.

40. **Which anti-spoofing mechanism will filter packets that enter a multilayer switch through an interface that does not provide the best path back to the source of the packet?**
    - spanning tree
    - private VLAN
    - intrusion prevention
    - VLAN access control lists
    - **Unicast Reverse Path Forwarding ***

41. **Which DSCP value should be applied to voice traffic?**
    - AF11
    - AF31
    - CS1
    - **EF ***

42. **Which command would a network administrator use to verify which VLANs are allowed on a trunk?**
    - show vlan
    - **show interfaces trunk ***
    - show vlan interface
    - show mac address-table

43. **Refer to the exhibit. An administrator is troubleshooting an HSRP implementation on routers R1 and R2.Based on the output in the exhibit, what is the probable cause of the**

problem?
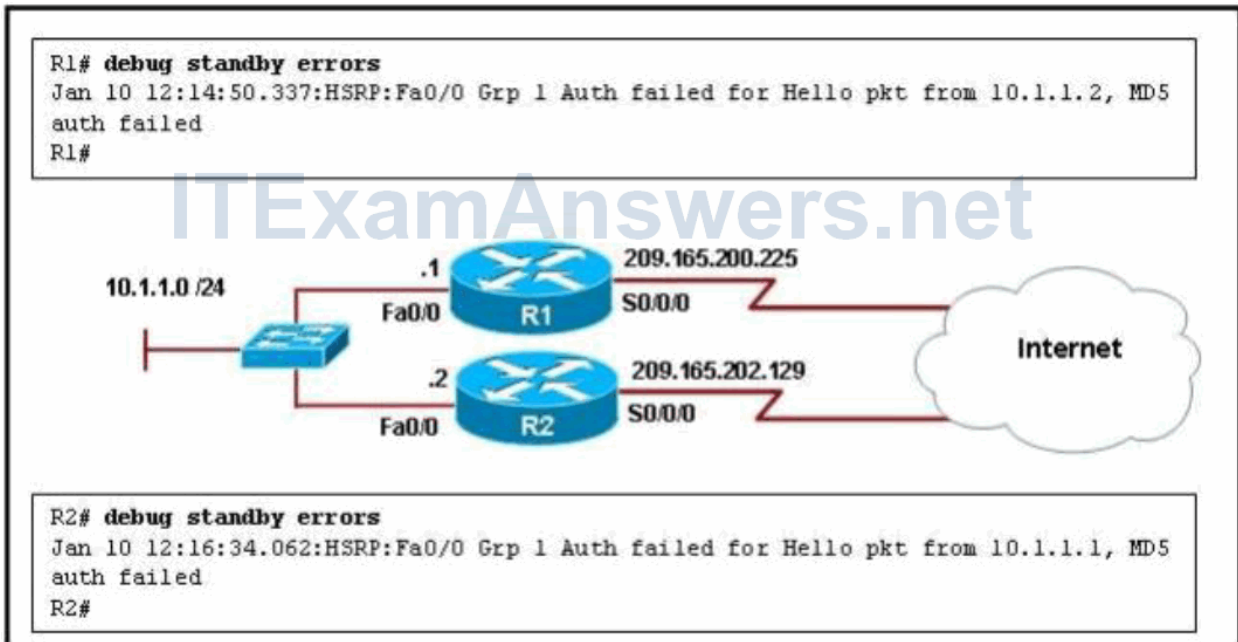
- Router R1 requires the standby 1 ip 10.1.1.254command to be issued on interface FastEthernet 0/0.
- Router R2 requires the standby 1 ip 10.1.1.254command to be issued on interface FastEthernet 0/0.
- Router R1 is configured to support MD5 authentication while router R2 is configured to support text authentication.
- Router R1 is configured to support text authentication while router R2 is configured to support MD5 authentication.
- **Routers R1 and R2 have different MD5 authenticationstrings configured.***
- Routers R1 and R2 have different text authentication strings configured.

44. **What are two problems that can occur when routes are redistributed in two directions? (Choose two.)**

- **suboptimal routing ***
- **routing loops ***
- lost seed metrics
- route filtering
- lost external routes

45. **Refer to the exhibit. Which two FTP-related statements are true? (Choose two.)**

```
R1# copy startup-config ftp://10.10.10.1/R1-test.cfg
Address or name of remote host [10.10.10.1]?
Destination filename [R1-test.cfg]?
Writing R1-test.cfg !
2323 bytes copied in 0.304 secs (7641 bytes/sec)
```

- The Configuration Rollback feature was preconfigured on router R1 via the archivecommand.
- **The configuration was copied using a method that isless secure than HTTPS.***
- **The ip ftp usernameand ip ftp passwordcommands were issued on router R1.***
- The login credentials were sent to the FTP server in an encrypted format.
- The R1-test.cfg configuration was successfully copied from the FTP server to the running configurationfile of router R1.
- The R1-test.cfg configuration was successfully copied from the FTP server to the startup configurationfile of router R1.

46. **Refer to the exhibit. Users are complaining that they are unable to connect to resources outside of their corporate network during peak hours. What action should the administrator take tocorrect this problem?**

```
R2# show ip nat statistics
Total active translations: 1 (1 static, 4 dynamic, 0 extended)
Outside interfaces:
  FastEthernet0/1, Serial0/1/0
Inside interfaces:
  FastEthernet0/0
Hits: 39  Misses: 6
CEF Translated packets: 45, CEF Punted packets: 49
Expired translations: 6
Dynamic mappings:
-- Inside Source
[Id: 1] access-list 10 pool NAT_OUT refcount 0
 pool NAT_OUT: netmask 255.255.255.224
        start 209.165.200.225 end  209.165.200.229
        type generic, total addresses 4, allocated 4 (100%),
misses 8

<output omitted>
```

- Remove the ACL because it is blocking connections.
- Change the FastEthernet 0/1 interface to an inside NAT interface.
- Disable CEF because it is sending packets to the CPU for processing.
- Disable static NAT because it is interfering with the dynamic translations.

- **Increase the size of the NAT pool to provide more IP addresses for translation.***

47. **Refer to the exhibit. A network administrator is trying to secure the remote administration of the router by enabling the use of the SSH protocol. Which changes should be made on the partial configuration as shown in the graphic?**

```
Router11# show running-config
<output omitted>
hostname Router11
<output omitted>
enable password cisco
username user password cisco
<output omitted>
line con 0
line aux 0
line vty 0 4
    login local
    transport input telnet
<output omitted>
```

- The enable password must be encrypted.
- The commands listed under the VTY line should be listed under the Console line.
- **The transport input telnet command should be changed to transport input ssh.***
- The transport input telnetcommand should be changed to transport input none.

48. **Users at a branch office are complaining that they are unable to connect to resources at the head office. The network administrator issues the show ip routecommand and verifies that the correct next hop IP address and egress interface are listed. What should the administrator do next?**
- Verify that CEF is running on the router.
- Verify the Layer 3 to Layer 2 mappings.
- **Verify end-to-end connectivity via the use of the pingcommand.***
- Verify that the information in the CEF FIB is correct.
- Verify that the interface is active and participating in the routing process.

49. **Refer to the exhibit. In a converged spanning tree,how many blocked ports will there be in VLAN 1 forthe pictured topology?**
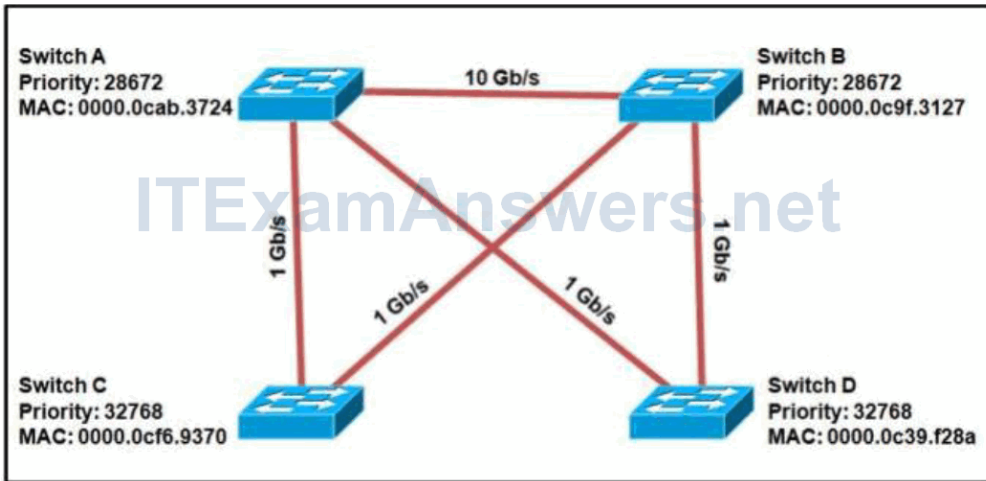
- 1
- **2 ***
- 3
- 4

50. **Refer to the exhibit. Users are complaining that they are receiving duplicate address error messages when they start their machines. What should the administrator do to correct this problem?**

```
R1# show running-config | begin ip dhcp
ip dhcp pool vlan10
    network 10.1.1.0  255.255.255.0
    default-router 10.1.1.1
    dns-server  10.1.1.6
    lease 3

<output omitted>
```

- Change the address assigned to the default router and dns server.
- Decrease the DHCP lease time to make more addressesavailable at one time.
- Change the netmask to 255.0.0.0 to agree with the class A network that is used in the DHCP pool.
- **Use the ip dhcp excluded-addresscommand to exclude any statically assigned addresses from the DHCP pool.***

51. **What is a characteristic of network maintenance toolkits?**

- are vendor specific
- **may be both GUI and CLI ***
- require expensive investments
- support only real-time monitoring

52. **What can be inferred from the fact that a switch isreceiving BPDUs on a port but not transmitting BPDUs?**
   - The port is a designated port.
   - **The port is a root port.***
   - The port is disabled.
   - The port is in listening state.

53. **A newly configured switch is connected to an existing network. The instant the trunk link is brought up to the rest of the network, the entire network goes down. What could have caused this problem?**
   - The switch was inserted into the network using an incorrect VTP domain name.
   - The VTP password entered on the new switch did not match that of the existing VTP domain.
   - The switch should have been placed into VTP Transparent Mode prior to being inserted into the network.
   - **The configuration revision number of the inserted switch was higher than the configuration revision ofthe VTP domain.***
   - The configuration revision number of the inserted switch was lower than the configuration revision of the VTP domain.

54. **Refer to the exhibit. A network engineer is investigating a reported issue of Computer1 not receiving its IP configuration from the DHCP server. Computer2 is receiving its**

configuration from the DHCP server. What is a plausible reason for this issue?
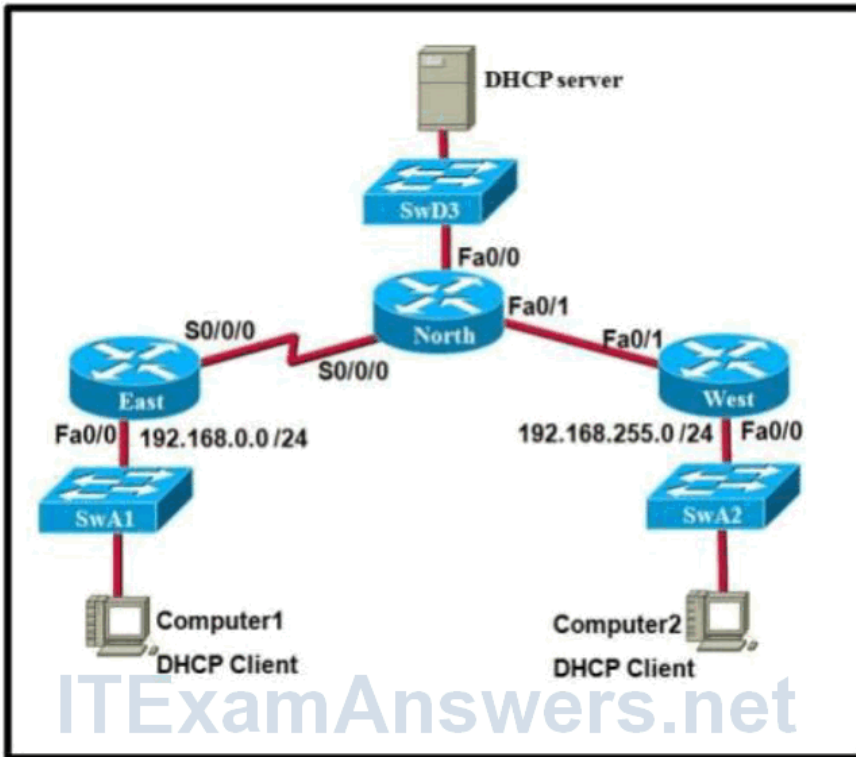
- An ACL is blocking broadcasts into the F0/0 interface of router North .
- **The DHCP server does not have a DHCP pool for 192.168.0.0 /24 network.***
- The WAN segment between routers East and North should be replaced with a LAN.
- The S0/0/0 interface of router East should be configured to provide DHCP relay.

55. **Refer to the exhibit. Based on the output that is generated, which two statements are true? (Choose two.)**

```
R1# show running-config | section archive
archive
 path flash:/Archive/$h-Config-$t
 write-memory
R1#
```

- **The archive path is the only mandatory archive parameter that must be configured.***
- **Every time the running configuration file is saved to NVRAM, it will also be automatically archived.***
- The $h and $t parameters will automatically add thedevice hostname and version number to the archive filename.
- Use the archive configprivileged EXEC mode command to replace the running configuration file with the most recent archived file.
- The time-period parameter must be configured to enable the automatic archiving of the running-configuration file everytime it is saved to NVRAM.

56. **What are two limitations of using buffered logging?(Choose two.)**
   - Only high severity messages can be captured.
   - Messages are lost when there is a connectivity issue.
   - **Log messages are removed when a device is powered down.***
   - Message services may have messages filtered througha firewall.
   - **Oldest messages are overwritten when allocated memory is exceeded.***

57. **Refer to the exhibit. You have been asked to correct the configuration on R1 so that the Tunnel 0 interface does not flap and R3 can be consistently reached from R1. What command would you issue on R1 to accomplish this?**
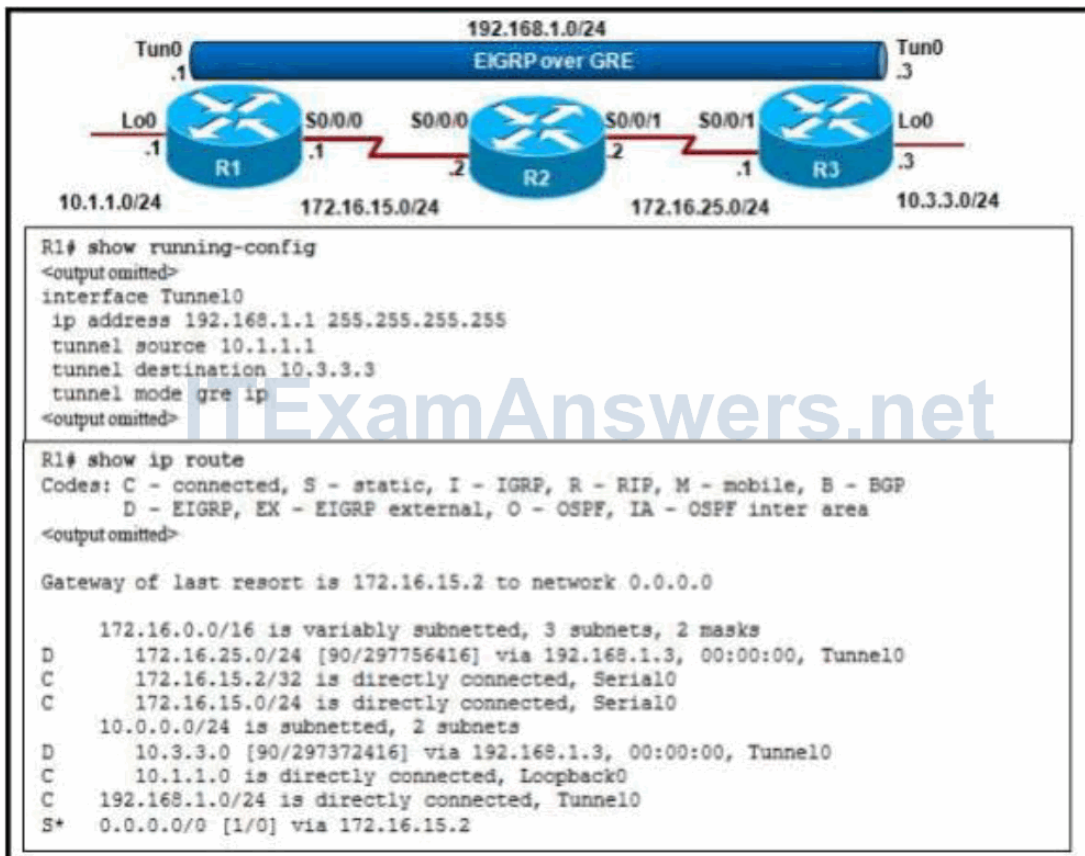

   - ip route 10.3.3.3 255.255.255.255 Tunnel0
   - **ip route 10.3.3.3 255.255.255.255 Serial0/0/0 ***
   - ip route 172.16.25.3 255.255.255.0 Serial0/0/0
   - ip route 172.16.25.0 255.255.255.0 Serial0/0/0
   - ip route 172.16.25.3 255.255.255.255 Tunnel0
   - ip route 172.16.15.2 255.255.255.255 Tunnel0

58. **What type of BGP message precedes the successful formation of a BGP peering session?**
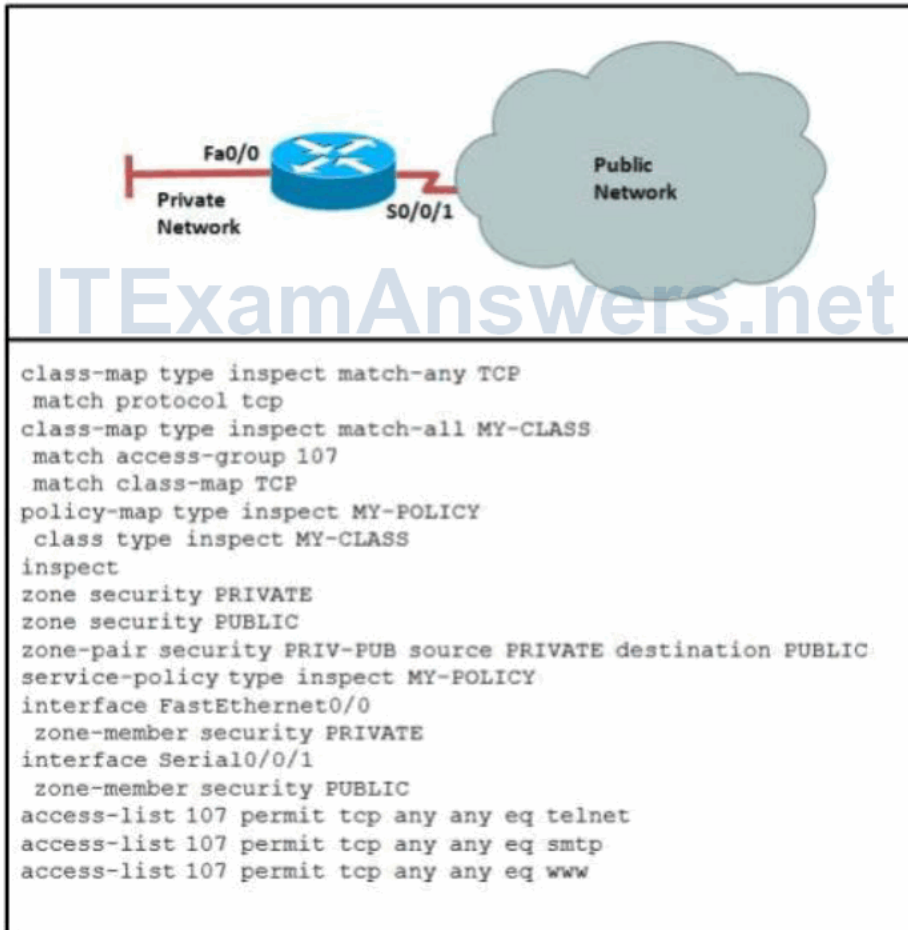   - **update ***

- keepalive
- established
- withdraw
- open

59. **Refer to the exhibit. A network administrator is unable to have two BGP peers exchange routing information. Which solution would correct this problem?**
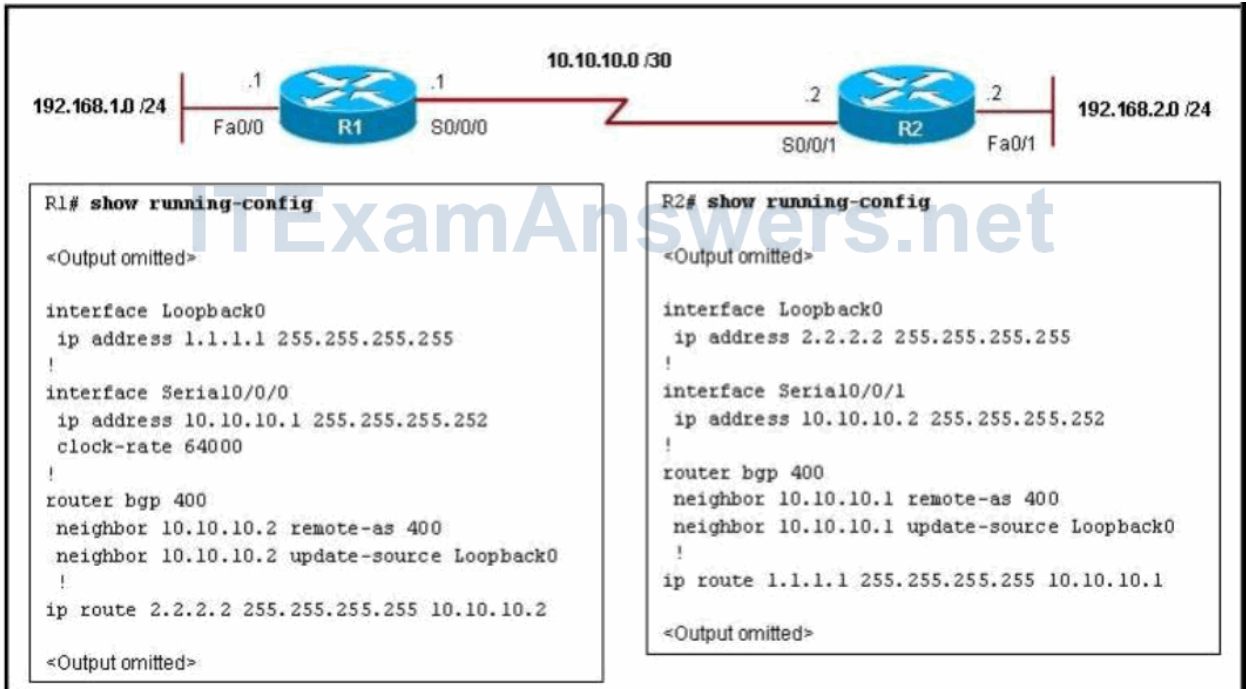
- **Change the neighbor peer IP addresses on R1 and R2 to the loopback interface IP address of the other router.***
- Change the neighborx.x.x.xupdate-sourcecommand on R1 and R2 to refer to the FastEthernet interfaces.
- Enter the neighborx.x.x.xebgp-multihop 1command on R1 and R2.
- Remove the loopback interfaces on each router.

60. **Refer to the exhibit. Based on the partial configuration that is shown, which traffic will be inspected by the zone-based policy firewall?**


```
class-map type inspect match-any TCP
 match protocol tcp
class-map type inspect match-all MY-CLASS
 match access-group 107
 match class-map TCP
policy-map type inspect MY-POLICY
 class type inspect MY-CLASS
inspect
zone security PRIVATE
zone security PUBLIC
zone-pair security PRIV-PUB source PRIVATE destination PUBLIC
service-policy type inspect MY-POLICY
interface FastEthernet0/0
 zone-member security PRIVATE
interface Serial0/0/1
 zone-member security PUBLIC
access-list 107 permit tcp any any eq telnet
access-list 107 permit tcp any any eq smtp
access-list 107 permit tcp any any eq www
```

- all TCP traffic that is destined for the public network
- all TCP traffic that is destined for the private network
- **Telnet, SMTP, and HTTP traffic that is destined forthe public network ***
- Telnet, SMTP, and HTTP traffic that is destined forthe private network