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Assessment System

1. Assessment Selection

2. Assessment Settings

3. Take Assessment

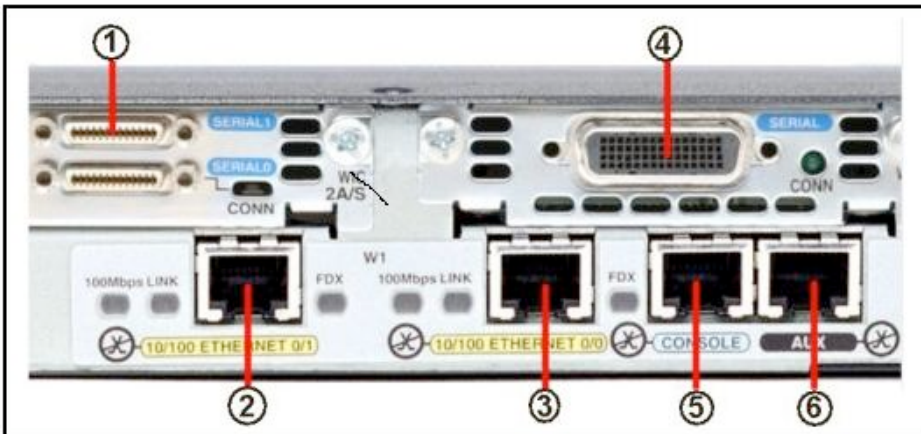
Take Assessment - ERouting Chapter 1 - CCNA Exploration: Routing Protocols and Concepts (Version 4.0)

Time Remaining:

00:59:18

- 1 Which two statements correctly describe the components of a router? (Choose two.)
- RAM permanently stores the configuration file used during the boot sequence.
 - ROM contains diagnostics executed on hardware modules.
 - NVRAM stores a backup copy of the IOS used during the boot sequence.
 - Flash memory does not lose its contents during a reboot.
 - ROM contains the most current and most complete version of the IOS.
 - Flash contains boot system commands to identify the location of the IOS.

2



Which interfaces in the exhibit could be used for a leased line WAN connection? (Choose two.)

- 1
 - 2
 - 3
 - 4
 - 5
 - 6
- 3 If a router cannot find a valid configuration file during the startup sequence, what will occur?
- The startup sequence will reset.
 - The router will prompt the user for a response to enter setup mode.
 - The startup sequence will halt until a valid configuration file is acquired.
 - The router will generate a default configuration file based on the last valid configuration.
 - The router will monitor local traffic to determine routing protocol configuration requirements.

- 4 Which of the following is the correct flow of routines for a router startup?
- load bootstrap, load IOS, apply configuration
 - load bootstrap, apply configuration, load IOS
 - load IOS, load bootstrap, apply configuration, check hardware
 - check hardware, apply configuration, load bootstrap, load IOS
- 5 What is the default sequence for loading the configuration file?
- NVRAM, FLASH, ROM
 - FLASH, TFTP, CONSOLE
 - NVRAM, TFTP, CONSOLE
 - FLASH, TFTP, ROM
- 6 From what location can a router load the Cisco IOS during the boot process? (Choose two.)
- RAM
 - TFTP server
 - NVRAM
 - setup routine
 - Flash memory
 - terminal
- 7 Which are functions of a router? (Choose three.)
- packet switching
 - extension of network segments
 - segmentation of broadcast domains
 - selection of best path based on logical addressing
 - selection of best path based on physical addressing
- 8 What three processes does a router execute when it receives a packet from one network that is destined for another network? (Choose three.)
- decapsulates the Layer 3 packet by stripping off the Layer 2 frame header
 - uses the destination MAC Address in the IP Header to look up the next-hop address in the routing table
 - leaves the Layer 2 frame header intact when decapsulating the Layer 3 packet
 - uses the destination IP Address in the IP header to look up the next-hop address in the routing table
 - encapsulates the Layer 3 packet into the new Layer 2 frame and forwards it out the exit interface
 - encapsulates the Layer 3 packet into a special Layer 1 frame and forwards it to the exit interface
- 9 The network administrator needs to connect two routers directly via their FastEthernet ports. What cable should the network administrator use?
- straight-through
 - rollover
 - cross-over
 - serial

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```

Router# show running-config
Building configuration...

Current configuration : 332 bytes
!
version 12.3
no service password-encryption
!
hostname Sales
!
!
interface FastEthernet0/0
no ip address
duplex auto
speed auto
shutdown
!
<output omitted>
!
line con 0
 password g8t3k33pr
line vty 0 4
 login
!
!
end
    
```

Refer to the exhibit. What can be concluded from the output of the running-configuration of a router?

- The passwords are encrypted.
- The current configuration was saved to NVRAM.
- The configuration that is shown will be the one used on the next reboot.
- The commands that are displayed determine the current operation of the router.

11 Which two statements describe characteristics of load balancing? (Choose two.)

- Load balancing occurs when a router sends the same packet to different destination networks.
- Load balancing occurs when the same number of packets are sent over static and dynamic routes.
- Load balancing allows a router to forward packets over multiple paths to the same destination network.
- Unequal cost load balancing is supported by EIGRP.
- If multiple paths with different metrics to a destinations exist, the router cannot support load balancing.

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```

R1# show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       *- candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

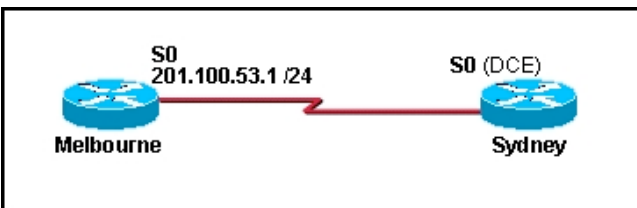
C   198.18.4.0/22 is directly connected, FastEthernet0/0
C   198.18.8.0/22 is directly connected, Serial0/0/0
    
```

Refer to the exhibit. What can be concluded from the routing table output in the exhibit? (Choose two.)

- This router only has two interfaces.
- The router interfaces are not operational yet.
- This router is configured to forward packets to remote networks.

- The FastEthernet0/0 and Serial0/0/0 interfaces of this router were configured with an IP address and the **no shutdown** command.
- An IP packet received by this router with a destination address of 198.18.9.1 will be forwarded out of the Serial0/0/0 interface.

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The serial connection shown in the graphic needs to be configured. Which configuration commands must be made on the Sydney router to establish connectivity with the Melbourne site? (Choose three.)

- Sydney(config-if)# ip address 201.100.53.2 255.255.255.0
 - Sydney(config-if)# no shutdown
 - Sydney(config-if)# ip address 201.100.53.1 255.255.255.224
 - Sydney(config-if)# clock rate 56000
 - Sydney(config-if)# ip host Melbourne 201.100.53.2
- 14 Passwords can be used to restrict access to all or parts of the Cisco IOS. Select the modes and interfaces that can be protected with passwords. (Choose three.)
- VTY interface
 - console interface
 - Ethernet interface
 - secret EXEC mode
 - privileged EXEC mode
 - router configuration mode
- 15 What information about the router and its startup process can be gathered from the output of the **show version** command? (Choose three.)
- the last restart method
 - the command buffer contents
 - the amount of NVRAM and FLASH used
 - the configuration register settings
 - the location from where the IOS loaded

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