

First-Year Companion Guide 2<sup>nd</sup> Edition  
Chapter 7 (21)

Check Your Understanding

1. Which of the following correctly describes a method for specifying how a router loads the Cisco IOS software?
  - A. Designate fallback sources for the router to use in sequence from NVRAM.
  - B. Configure the Cisco IOS software image for the location where it will bootstrap.
  - C. Manually boot a default system image at a virtual terminal.
  - D. Manually boot a default system image at the network server.
2. Which of the following is not a boot option that can be set with the configuration register boot field?
  - A. IOS boots in ROM monitor mode.
  - B. IOS automatically boots from ROM.
  - C. IOS automatically boots from a TFTP server.
  - D. NVRAM is examined for boot system commands.
3. Which of the following is information displayed by the Cisco IOS show version command?
  - A. Detailed statistics about each page of the router's memory
  - B. The name of the system image
  - C. The names and sizes of all files in Flash memory
  - D. The status of configured network protocols
4. Which command is used to discover the configuration register setting?
  - A. show register
  - B. show running-config
  - C. show version
  - D. show startup-config
5. Which of the following does not describe the procedure to verify sufficient room in Flash memory for copying software?
  - A. Use the show flash command.
  - B. Verify that the configuration register is set properly.
  - C. Compare the available memory with the length of the Cisco IOS software image to be copied.
  - D. If there is not enough available memory, you may have to load a smaller Cisco IOS software image.
6. What information is not provided in the Cisco image filename system?
  - A. The capabilities of the image
  - B. The platform on which the image runs
  - C. Where the image runs
  - D. The size of the image
7. Which of the following is not part of the recommended procedure for loading a new Cisco IOS software image to Flash memory from a TFTP server? (The procedures are listed in correct order.)
  - A. Back up a copy of the current software image to the TFTP server.
  - B. Enter the copy flash tftp command to start downloading the new image from the server.
  - C. The procedure asks if you are willing to erase Flash memory.
  - D. A series of Vs on the display indicates successful checksum verification.
8. What is the initial boot attempt if the router configuration register is set to Ox101?
  - A. Setup mode
  - B. TFTP server
  - C. ROM
  - D. Flash memory
9. Which of the following has a limited version of router IOS?

- A. ROM
  - B. Flash memory
  - C. TFTP server
  - D. Bootstrap
10. What is the initial boot attempt if the router config-register is set to 0x102?
    - A. Flash memory
    - B. TFTP server
    - C. ROM
    - D. Check for boot system commands
  11. Which of the following is the sequence used by the router for automatic fallback to locate the Cisco IOS software?
    - A. Flash memory, (2) NVRAM, (3) TFTP server
    - B. NVRAM, (2) TFTP server, (3) Flash memory
    - C. NVRAM, (2) Flash memory, (3) TFTP server
    - D. TFTP server, (2) Flash memory, (3) NVRAM
  12. Which of the following does not describe configuration register settings for Cisco IOS bootstrapping?
    - A. The order in which the router looks for system bootstrap information depends on the boot field setting.
    - B. You change the configuration register setting with the command config-register.
    - C. You use a hexadecimal number when setting the configuration register boot field.
    - D. Use the show running-config command to check the boot field setting.
  13. Which of the following is not displayed by the Cisco IOS show version command?
    - A. Statistics for configured interfaces
    - B. The type of platform running the Cisco IOS software
    - C. The configuration register setting
    - D. The Cisco IOS version
  14. Which of the following is not part of specifying the fallback sequence to boot the Cisco IOS software?
    - A. Boot system commands are entered from global configuration mode.
    - B. One boot system command is used to specify the entire fallback sequence.
    - C. The command copy running-config startup-config saves boot system commands to NVRAM.
    - D. Boot system commands are executed as needed during fallback in the order in which they were entered.
  15. Which of the following correctly describes preparing to use a TFTP server to copy software to Flash memory?
    - A. The TFTP server must be a connected router or a host system, such as a UNIX workstation or a laptop computer.
    - B. The TFTP server must be a system connected to an Ethernet network.
    - C. The name of the router containing the Flash memory must be identified.
    - D. The Flash memory must be enabled.
  16. Which of the following is the fastest way to make sure that the TFTP server is reachable before trying to transfer a Cisco IOS image file?
    - A. trace the TFTP server.
    - B. ping the TFTP server.
    - C. telnet to the TFTP server.
    - D. Call the TFTP server administrator.

17. Why do you need to determine the file size of the Cisco IOS image on the TFTP server before transferring it to your router?
- A. To check that there is enough space in Flash memory to store the file
  - B. To verify that the file is the correct Cisco IOS version for your router
  - C. To complete a TFTP operation
  - D. To calculate the download time for the file and, thus, the amount of time the router will be out of service
18. Why do you create a Cisco IOS software image backup?
- A. To verify that the copy in Flash memory is the same as the copy in ROM
  - B. To provide a fallback copy of the current image before copying the image to a new router
  - C. To create a fallback copy of the current image as part of the procedures during recovery from system failure
  - D. To create a fallback copy of the current image before updating with a new version
19. Which of the following has a limited version of Cisco IOS software?
- A. ROM
  - B. Flash memory
  - C. TFTP server
  - D. ROM monitor
20. What is the command you need to issue if you want to upgrade an old version of the Cisco IOS by downloading a new image from the TFTP server?
- A. boot system tftp 131.21.11.3
  - B. copy tftp flash
  - C. show flash
  - D. tftp ios.exe

#### Answers

1. A   2. C   3. B   4. C   5. B   6. D   7. B   8. C   9. A   10. D   11. C  
12. D   13. A   14. B   15. A   16. B   17. A   18. D   19. A   20. B