

INTERNETWORKING II

Chapters 5-6 Study Guide Answers

List the correct sequence of the Cisco router system startup routine.

POST (Power On Self Test) (test hardware)

Load bootstrap program

Load IOS

Load configuration file or go to setup mode if no stored configuration file

What is an important function of POST?

it checks all the hardware components of the router to make sure they're operating correctly

What is the correct order in which a router boots and looks for files? (Hint: It is a seven-step process)

1. **Loads bootstrap from ROM**
2. **Loads IOS image from Flash**
3. **Loads IOS from TFTP (if it's not in Flash)**
4. **Loads IOS from ROM (if it's not available through TFTP)**
5. **Loads the start-up configuration file from NVRAM**
6. **Loads the start-up configuration file from TFTP (if it's not in NVRAM)**
7. **Starts the setup mode if no configuration file is available anywhere**

Where is the next place a router looks for an IOS image file if it cannot find it in flash?

TFTP

What are the results of the config file loading onto a router?

It starts the routing process, sets up DNS (if applicable), supplies IP addresses for the interfaces, defines the media being used

What impact does the command **erase startup-config** have on the router?

it erases the start-up configuration file in NVRAM.

What does the **reload** command do?

it reboots the router (like Ctrl/Alt/Delete on a PC)

What is the first global configuration parameter set when using the setup mode?

set the name of the router (hostname)

Where is the config file saved when the setup process is complete?

NVRAM

What command is used to save the running config file to NVRAM?

copy run start

What command allows you to create messages to display then someone logs on?

router(config)# banner motd

What command is used to backup the active config file stored in NVRAM?

copy start tftp

(Backups of configuration files are stored on a server that's directly attached to the network. TFTP is used to perform this backup function.)

What does the router prompt look like when you are in the interface config mode?

router(config-if)#

Setting passwords for **vtty 0 4**, is setting the passwords for what?

telnet sessions

Which passwords are encrypted in the configuration file by default?

enable secret password

List the logical steps to use when configuring a router.

- 1. enter your configuration statements**
- 2. examine the completed configuration file**
- 3. make any changes necessary**
- 4. save the running configuration file you've created (in RAM) to NVRAM so it becomes your start up configuration**
- 5. check the copy in NVRAM to make sure it copied correctly**