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Copy Lab Overview

Objective: In this lab we will become familiar with the Router Configuration as well as be introduced to the Copy Commands Available to us in the Cisco IOS.
Lab Equipment: We will be using eRouter 1. To select eRouter 1 click on the button "eRouter" located at the top of the screen.

1. Get to the router prompt.

Router>

2. Enter Privilege Mode.

Router>enable

3. Show the active configuration in memory. The currently active configuration script running on the router is referred to as the *running-config* on the routers command-line interface. Note that privileged mode is required. The running configuration script is **not** automatically saved on a Cisco router, and will be lost in the event of power failure. The running configuration must be manually saved with the *copy* command.

Router#show running-config

4. Try and show the configuration stored in NVRAM, this is your *startup-config*. We have not saved the configuration so there is not one to show.

Router#show startup-config

5. Copy the current active configuration to NVRAM. The current active configuration is in RAM and we would like to save it so that in the event the of a power outage the router will still boot up with our configuration.

Router#copy running-config startup-config

6. Now show the configuration stored in NVRAM.

Router#show startup-config

7. If we decided that we would like to start configuring the router from scratch we could erase the *startup-config* and reload the router. This will enable us to completely delete **ALL** configuration on the router so that we can start from scratch. What command will delete your configuration file in NVRAM.

Router#erase startup-config

8. Now that we have deleted our configuration lets reload the router. The router notices that you have a configuration and asks you if you would like to save it before you reload. We do not want to save it so we are going to select `no`.

Router#reload

9. After the router is done rebooting lets look at the startup configuration file again. Because we did not save it before we reloaded there is nothing there.

Router#show startup-config

10. Now lets change the hostname of your router to **Boson**. What command will do this?

Router(config)#hostname Boson

11. After we changed the hostname we will now reload the router and when the router asks we will save our configurations.

Boson#reload

12. After the router is done reloading notice that the routers hostname is still there this is because we saved the configuration before we reloaded.

Basic Copy Commands Lab

1. Login to the Router and get to the Privileged Mode Prompt(#).

2. View your running configuration. `show running-config`

3. Show your configuration stored in NVRAM. Did you see anything? `Non-volatile configuration memory is not present`

4. Now copy your current active configuration into NVRAM. What command will do this?
`copy running-config startup-config`

5. Now again show your configuration stored in NVRAM. `show startup-config`

6. Erase your configuration stored in NVRAM. `erase startup-config`

7. Reload the router and do not save your changes. What command did you use?
`reload`

8. Now again show your configuration stored in NVRAM. `show startup-config`

9. Change your routers hostname to **Boson**. What command did this? `hostname Boson`

10. Reload the router again but this time save your changes.

11. Notice that your hostname was not deleted. This is because we saved our configuration.