

4. The IOS Operating System - Lab Exercise



Lab 1

To Enter Privileged exec mode:

Router>En (Enable)

Router#

Rebooting the Device

Router#Reload

Shows Reload configuration and reloads

Explore Any Command With ?

Router >?

Displays commands you can enter these will differ as you go from User exec/Privileged exec/ and global configuration mode

To Drop back to user exec mode

Router#Disable

Router>

Scrolling through long list of commands

Router#Sh ?

This will display a large list of commands you need to press space to filter between them till you get to the bottom of the input

How to autofill commands?

Router#sh aaa user(TAB CLICK)

This will fill out as shown below

Router#sh aaa user all

Entering global configuration mode

Router#Conf T (Configure Terminal)

Global Conf mode is where you can enter configurations which affects the device as a whole

How to go back to a previous command

Utilize the up and down arrows to quickly go back to previous commands

The “Do” Command

R1(config)#sh ip int br (Won't work)

R1(config)#do sh ip int br (works)

Doing the do command in front overwrites whatever mode you are in

This will also show which interfaces are available

How to configure an interface?

R1(config)#interface gigabitethernet 0/0

R1(config)#

Notice the prompt changes when in interface configuration mode

How to view the entire device config?

R1# Sh Running-Config

How to exit out of an interface?

R1(config-if)#exit

R1(config)#

This brings you back one level

R1(config-if)#end

R1#

This will bring you all the way down to privilege exec mode.

How do I get to a specific part within the running configuration?

R1#sh run | Include Interface

This will show the output from the hostname

You can do the inverse of this by excluding

R1#sh run | exclude interface

You can also tell the running config where to start showing from

R1#sh run | begin hostname

Make sure to always copy the current running configuration to the startup configuration

R1#copy run start

How to change router name?

R1#conf t

R1(config)#hostname Routerx

How to view the starting config?

Router#show start

How to backup to the flash memory?

Router#Copy run flash:

Good idea to back it up to the device itself

How to backup to a TFTP server?

Router#copy run tftp