

Packet Tracer Help

- Purpose
 - Command
 - In-Depth

- View IP Address of Router/Switch
 - show ip interface brief
 - Shows all IP addresses of the ports on the Switch/Router, Useful for finding out if the Interface is up and online.

- Configure OSPF on router/switch
 - Router ospf <Process ID>
 - Network 0.0.0.0 255.255.255.255 area <area number>
 - Sets up OSPF routing in the switch/router

- Set up DHCP on router/switch
 - Ip dhcp pool <Pool name>
 - *To set up dns server use* dns-server <dns server address>
 - *To set up domain name use* domain-name <Name>

- Set up Ip-Routing on switch/router
 - Ip routing
 - If it asks for Ip-Routing use this command

Use [THIS](#) link to calculate subnet masks

If it asks for an ip that had a /24 or /30 on it, type the complete ip including the /24 or /30 into this calculator for the subnet mask required.

Most things can be done without the Command Line, try to use the *CONFIG* tab to make settings.

Make sure to have all interfaces that you configured set to “No shut” This will save alot of time and troubleshooting down the road.

Beginning

- At the "Router#" prompt, type "configuration terminal" <enter>
- **This will put you into configuration mode - Configuration Terminal – this may be shortened to “conf t” (or “config t”)**
- At the "Router(config)#" prompt, type "enable password C1sc0R0cks" <enter>
- **This sets the password. You will need to remember this password.**
- At the "Router(config)#" prompt, type "hostname AFA_HQ_Router" <enter>
- **This will rename the router hostname**
- At the "AFA_HQ_Router (config)#" prompt, type "router eigrp 1" <enter>
- **This will put you into the routing protocol configuration mode for EIGRP.**
- At the "AFA_HQ_Router (config-router)#" prompt type "network 64.103.100.0 0.0.0.255" <enter> and "network 100.103.100.0 0.0.0.255" <enter>.
- **This will add these two networks to this routers advertisements to share with other neighbor routers.**
- At the "AFA_HQ_Router (config-router)#" prompt, type "exit" <enter>
- **This will exit config-router mode**
- At the "AFA_HQ_Router (config)#" prompt, type "interface fa0/0" <enter>
- **This will put you into the interface config mode.**
- At the "AFA_HQ_Router (config-if)#" prompt, type "ip address 64.103.100.101 255.255.255.0" <enter>
- **This will set the IP address on the router interface**
- At the "AFA_HQ_Router (config-if)#" prompt, type "no shut" <enter> and then <enter> again
- **This will enable the interface. You should see a message stating that the interface changed state to up.**
- At the "AFA_HQ_Router (config-router)#" prompt, type "exit" <enter>
- This will exit config-if mode
- At the "AFA_HQ_Router (config)#" prompt, type "interface fa0/1" <enter>
- **This will put you into the interface configmode. We will now assign the selected interface a valid IP address and Subnet Mask**
- At the "AFA_HQ_Router (config-if)#" prompt, type "ip address 100.103.100.1 255.255.255.0" <enter>
- **This will set the IP address on the router interface**
- At the "AFA_HQ_Router (config-if)#" prompt, type "no shut"
- **This will enable the interface. You should see a message stating that the interface changed state to up.**

- At the "AFA_HQ_Router (config-if)#" prompt, type "end"
- At the "AFA_HQ_Router #" prompt, type "write mem"