

Commands for Basic Router Configuration

In Cisco Packet Tracer, click Router1 to see the GUI. Select CLI. You might see the following message.

Type “no” to get started:-

Would you like to enter the initial configuration dialog? [yes/no]: **no**

Press RETURN to get started!

Router>

From the above user exec mode, enter privileged exec mode:

Router> **enable**

Router#

To check the configuration in the router:

Router#**show running-config**

From the privileged exec mode, enter the Global Configuration mode:

Router# **config t**

Router(config)#

Set the device hostname to Router1:

Router(config)# **hostname Router1**

Router1(config)#

Configure the MOTD banner. The MOTD banner is displayed on all connections before the login prompt. Use the terminating character on a blank line to end the MOTD entry:

Router1(config)# **banner motd % Hello! How are you? %**

Set an encrypted password to protect the access to the Privileged Exec Mode (in this module, we will use “class” as the Privileged Exec password):-

Router1(config)# **enable secret class**

Protect access to the lines Console and Virtual Terminal (vty) (in this module, we will use “cisco” as the Lines password):-

Router1(config)# line console 0

Router1(config-line)# password cisco

Router1(config-line)# login

Router1(config-line)# line vty 0 4

Router1(config-line)# password class

Router1(config-line)# login

Configuring an Ethernet Interface:-

Router1(config)# interface fa0/0

Router1(config-if)# ip address 192.168.10.1 255.255.255.0

Router1(config-if)# no shutdown

Router1(config)# interface fa0/1

Router1(config-if)# ip address 192.168.20.1 255.255.255.0

```
Router1(config-if)# no shutdown
```

To check and verify the router configuration:

```
Router1#show running-config
```

To copy the running configuration file to replace the startup configuration file:-

```
Router1# copy running-config startup-config  
Destination filename [startup-config]? <ENTER>
```

To configure the serial interface:

```
Router1#config terminal  
Router1(config)# interface S0/0/0  
Router1(config-if)# ip address 192.168.30.1 255.255.255.0  
Router1(config-if)# clock rate 64000  
Router1(config-if)# no shutdown  
Router1(config-if)# end  
Router1#
```

To configure routing protocol (RIP):

```
Router1#config terminal  
Router1(config)# router RIP  
Router1(config-router)# version 2  
Router1(config-router)# network 192.168.10.0  
Router1(config-router)# network 192.168.20.0  
Router1(config-router)# network 192.168.30.0  
Router1(config-if)# end
```

To check router configuration:

```
Router1# show run  
Router1# show ip route
```

Use the Ping command to test for connectivity.

```
Router1# ping 192.168.10.254
```