

## **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
```