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Lab: Introduction to interface configuration.

Objective: To understand how to enable interfaces on a router and what it takes for the interface to be UP.

Lab Equipment: We will be using eRouter 1 & eRouter 2. To select eRouter 1 click on the button labeled "eRouter1" located at the top of the screen.

1. On eRouter 1, enter global configuration mode

```
Router(config)#hostname eRouter1
```

2. We now wish to configure the Ethernet Interface. To do so, we must enter interface configuration mode. Type the command to enter interface configuration mode for Ethernet 0.

```
eRouter1(config)#interface Ethernet 0
```

3. What can you do to view all the commands available to you in interface configuration user mode?

```
eRouter1(config-if)#?
```

4. Which command listed, looks like it would disable or turn off the interface?

```
shutdown Shutdown the selected interface
```

5. We can often do the opposite of a command, by typing `no` in front of it. What command might enable this interface?

```
eRouter1(config-if)#no shutdown
```

6. Now add a description for this interface.

```
eRouter1(config-if)#description Ethernet interface on eRouter 1
```

7. To view your interface description exit back to privilege mode and do a `show interface` command. You should see your description under Ethernet 0.

```
Router(config-if)#end
```

8. Now connect to eRouter 2 and enter the Ethernet 0 interface.

```
eRouter2(config)#interface Ethernet 0
```

9. Now enable the interface.

```
eRouter2(config-if)#no shutdown
```

10. Now that the interfaces on both sides of our Ethernet connection are enabled you should be able to see one another by CDP. Use the command `show cdp neighbors` to view all directly connected Cisco Routers.

```
eRouter2#show cdp neighbors
```