

## LAB: Assignment 11

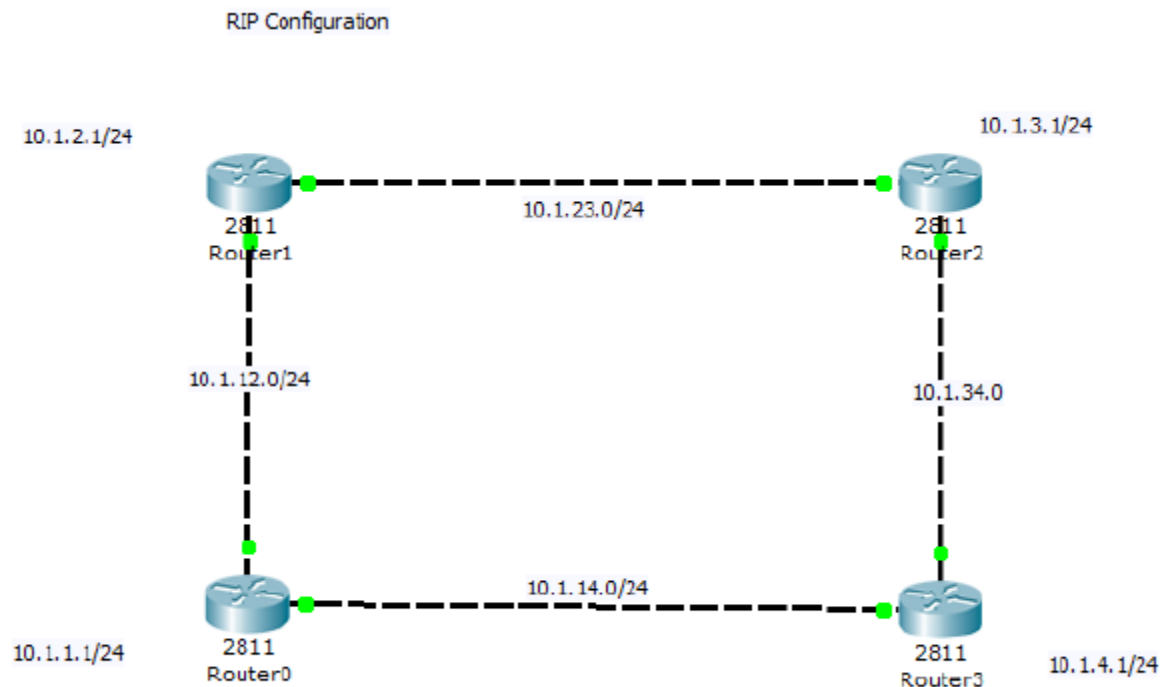
**Objective:** Configure a Routing Internet Protocol (RIP) Using GNS.

**Instructions:** The instructor is required to discuss the following questions with the students.

Students are required to make solution and check connectivity using PING command.

### **Procedure:**

1. Create a topology as shown in the figure.
2. Configure all the routers.
3. Implement RIP protocols in the router to configure the network.



### **Configuration for Router 0:**

```
R0>en
R0#conf t
R0(config)#int lo0 //loopback interface
R0(config-if)#ip add 10.1.1.1 255.255.255.0
R0(config-if)#no shut

R0(config-if)#int s0/0
R0(config-if)#ip address 10.1.12.1 255.255.255.0
R0(config-if)#no shut

R0(config-if)#int s0/1
R0(config-if)#ip address 10.1.14.1 255.255.255.0
R0(config-if)#no shut
```

```
R0(config-if)#end
R0#wr
```

### **RIP Configuration Commands for R0:**

```
R0>en
R0#conf t
R0(config)#router rip
R0(config-router)#net 10.0.0.0
R0(config-router)#
R0(config-router)#end
R0#show ip route
```

### **Configuration for R1:**

```
R1>en
R1#conf t
R1(config)#int lo0 //loopback interface
R1(config-if)#ip add 10.1.2.1 255.255.255.0
R1(config-if)#no shut

R1(config-if)#int s0/1
R1(config-if)#ip address 10.1.23.1 255.255.255.0
R1(config-if)#no shut

R1(config-if)#int s0/0
R1(config-if)#ip address 10.1.12.2 255.255.255.0
R1(config-if)#no shut

R1(config-if)#end
R1#wr
```

### **RIP Configuration Commands for R1:**

```
R1>en
R1#conf t
R1(config)#router rip
R1(config-router)#net 10.0.0.0
R1(config-router)#
R1(config-router)#end
R1#show ip route
```

### **Configuration for R2:**

```
R2>en
R2#conf t
R2(config)#int lo0 //loopback interface
R2(config-if)#ip add 10.1.3.1 255.255.255.0
R2(config-if)#no shut
```

```
R2(config-if)#int s0/0
R2(config-if)#ip address 10.1.23.2 255.255.255.0
R2(config-if)#no shut
```

```
R2(config-if)#int s0/1
R2(config-if)#ip address 10.1.34.1 255.255.255.0
R2(config-if)#no shut
```

```
R2(config-if)#end
R2#wr
R2#en
R2#sh ip route
```

### **RIP Configuration Commands for R2:**

```
R2>en
R2#conf t
R2(config)#router rip
R2(config-router)#net 10.0.0.0
R2(config-router)#
R2(config-router)#end
R2#show ip route
```

### **Configuration for R3:**

```
R3>en
R3#conf t
R3(config)#int lo0 //loopback interface
R3(config-if)#int s0/0
R3(config-if)#ip add 10.1.34.2 255.255.255.0
R3(config-if)#no shut

R3(config-if)#int s0/1
R3(config-if)#ip address 10.1.14.2 255.255.255.0
R3(config-if)#no shut
R3(config-if)#end
R3#wr
R3#show ip route
```

### **RIP Configuration Commands for R3:**

```
R3>en
R3#conf t
R3(config)#router rip
R3(config-router)#net 10.0.0.0
R3(config-router)#
R3(config-router)#end
R3#show ip route
```