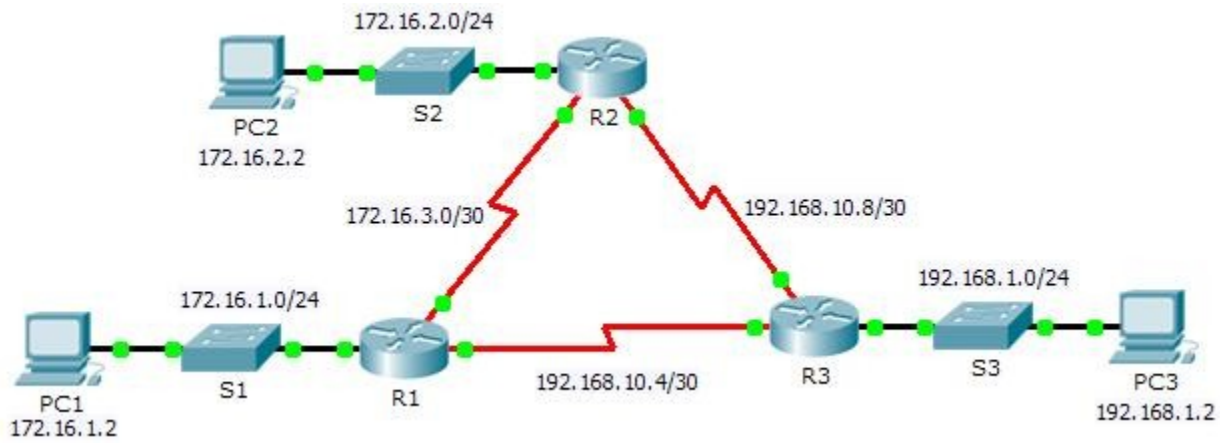


## Packet Tracer – Configuring OSPFv2 in a Single Area

### Topology



### Addressing Table

### Device

**Interface**

**IP Address**

**Subnet Mask**

**Default Gateway**

G0/0

172.16.1.1

255.255.255.0

N/A

R1

S0/0/0

172.16.3.1

255.255.255.252

N/A

S0/0/1

192.168.10.5

255.255.255.252

N/A

G0/0

172.16.2.1

255.255.255.0

N/A

R2

S0/0/0

172.16.3.2

255.255.255.252

N/A

S0/0/1

192.168.10.9

255.255.255.252

N/A



G0/0

192.168.1.1

255.255.255.0

N/A

R3

S0/0/0

192.168.10.6

255.255.255.252

N/A

S0/0/1

192.168.10.10

255.255.255.252

N/A

PC1

NIC

172.16.1.2

255.255.255.0

172.16.1.1

PC2

NIC

172.16.2.2

255.255.255.0

172.16.2.1

PC3

NIC

192.168.1.2

255.255.255.0

192.168.1.1

## **Objectives**

**Part 1: Configure OSPFv2 Routing**

**Part 2: Verify the Configurations**

## **Background**

In this activity, the IP addressing is already configured. You are responsible for configuring the three router topology with basic single area OSPFv2 and then verifying connectivity between end devices.

## Part 1: Configure OSPFv2 Routing

### Step 1: Configure OSPF on the R1, R2 and R3.

Use the following requirements to configure OSPF routing on all three routers:

Process ID 10

Router ID for each router: R1 = 1.1.1.1; R2 = 2.2.2.2; R3 = 3.3.3.3

Network address for each interface

LAN interface set to passive (do not use the **default** keyword)

### Step 2: Verify OSPF routing is operational.

On each router, the routing table should now have a route to every network in the topology.

## Part 2: Verify the Configurations

Each PC should be able to ping the other two PCs. If not, check your configurations.





