This file contains the complete OSPFv2 configuration commands used in the \*\*Point-to-Point Single-Area OSPFv2 Configuration Lab\*\*. It includes \*\*interface setup, OSPF network configuration, router IDs, passive interfaces, and verification commands\*\*.

```
## ** • Router R1 Configuration**
enable
configure terminal
hostname R1
interface g0/0/0
ip address 192.168.10.1 255.255.255.0
no shutdown
exit
interface s0/1/0
ip address 10.1.1.1 255.255.255.252
no shutdown
exit
interface s0/1/1
ip address 10.1.1.5 255.255.255.252
no shutdown
exit
router ospf 10
```

```
router-id 1.1.1.1
network 192.168.10.0 0.0.0.255 area 0
network 10.1.1.0 0.0.0.3 area 0
network 10.1.1.4 0.0.0.3 area 0
passive-interface g0/0/0
exit
## ** • Router R2 Configuration**
enable
configure terminal
hostname R2
interface g0/0/0
ip address 192.168.20.1 255.255.255.0
no shutdown
exit
interface s0/1/0
ip address 10.1.1.2 255.255.255.252
no shutdown
exit
interface s0/1/1
ip address 10.1.1.9 255.255.255.252
no shutdown
exit
```

```
router ospf 10
router-id 2.2.2.2
network 192.168.20.0 0.0.0.255 area 0
network 10.1.1.2 0.0.0.3 area 0
network 10.1.1.8 0.0.0.3 area 0
passive-interface g0/0/0
exit
## ** • Router R3 Configuration**
enable
configure terminal
hostname R3
interface g0/0/0
ip address 192.168.30.1 255.255.255.0
no shutdown
exit
interface s0/1/0
ip address 10.1.1.10 255.255.255.252
no shutdown
exit
interface s0/1/1
ip address 10.1.1.6 255.255.255.252
```

```
no shutdown
exit
router ospf 10
router-id 3.3.3.3
network 192.168.30.0 0.0.0.255 area 0
network 10.1.1.10 0.0.0.3 area 0
network 10.1.1.6 0.0.0.3 area 0
passive-interface g0/0/0
exit
## ** 
    OSPF Verification Commands**
To confirm that OSPF is configured and working correctly, use the following commands:
show ip ospf neighbor
show ip route ospf
show ip protocols
## ** Summary**
This configuration ensures that:
- **All routers have OSPFv2 enabled** with correct Router IDs.
- **Network statements cover all required interfaces** for OSPF routing.
- **Passive interfaces prevent unnecessary OSPF traffic** on LAN interfaces.
- **Connectivity is verified using OSPF commands.**
```

\*\*Upload this file to GitHub to document your OSPF lab setup!\*\*