

OSPF NSSA Lab

All IP addresses have been preconfigured for you, every router has a loopback interface:

R1: L0: 1.1.1.1 /24

R2: L0: 2.2.2.2 /24

R3: L0: 3.3.3.3 /24

TASKS:

1. Configure OSPF on all routers, configure the areas as specified in the topology diagram.

R1: Loopback0 should be Area 0.

R2: Loopback0 should be Area 3.

2. Configure OSPF so that the Loopback0 interfaces show up in the routing table as /24 as they are configured.

3. Area 3 has no direct connection to Area 0, fix this with OSPF commands.

Ensure you have full reachability.

4. Configure Area 2 into a NSSA (Not so stubby area).

5. R3: add the following loopbacks:

Loopback1: 172.16.0.3 /24

Loopback2: 172.16.1.3 /24

6. Advertise these networks into OSPF, do not use the "network" command to achieve this!

7. R3: configure a summary towards Area 0 for the 2 loopbacks you just created, make sure you do not advertise networks you do not have.

8. R2: add the following loopbacks:

Loopback1: 172.16.2.2 /24

Loopback2: 172.16.3.2 /24

9. R2: configure a summary towards Area 0 for the 2 loopbacks you just created, make sure you do not advertise networks you do not have.

