Lab 4A - OSPF Challenge Tasks

1. Area 12 is currently a stub area. On R1 remove 10.1.1.1/32 from OSPF (no network 10.1.1.1 0.0.0.0 area 12) and then put it into OSPF by redistributing connected. What needs to change on stub area so that 10.1.1.1/32 is then in routing table of rest of OSPF topology? Make this change and verify.

2. Shutdown Vlan 13 so that area 12 is no longer connected to Area 0. Create a virtual link so that area 12 is connected to area 0. Verify this is working. After you have verified this is working remove changes and un-shutdown vlan 13.

3. In the near future the network will be upgraded to 1 Gigabit links, if not already. Ensure the network can handle this upgrade without doing load sharing on 1 gigabit and fast Ethernet links by default.

4. In area 0 make sure an outage on a neighboring router is discovered in 20 seconds. You are not allowed to change dead interval.

5. On your frame relay PVCs on 128.213.25.0/24 remove the broadcast capability. What is necessary to make OSPF still function on this network? Put that into place.

6. Ensure that area 12 does not have a route for 128.213.40.0 in the OSPF topology table.

7. What is the default number of equal cost paths to a route OSPF will install? Change this in the configuration of R1 to 1.

8. Configure R3 to redistribute BGP learned routes into OSPF.