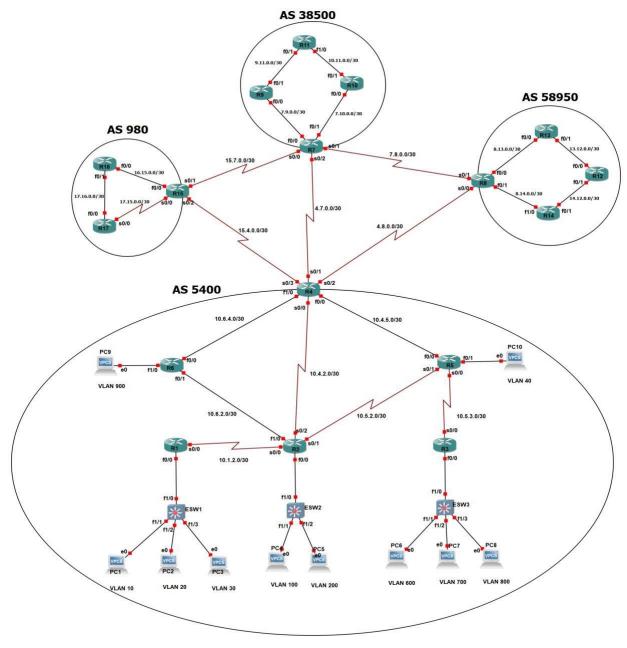
CECS 474 COMPUTER NETWORKING INTEROPERABILITY

<u>Netlab6 – Part 3</u>: Advanced Router Configuration – with multiple Autonomous Systems

<u>Purpose:</u> To expand the previous topology to create 4 autonomous systems and implement multiple IGPs along with EGP.

Procedure

- 1. Remove the VPC that was added to R4.
- 2. Add the extra routers to the topology as shown in the image below



CECS 474 COMPUTER NETWORKING INTEROPERABILITY

- 3. Implement EIGRP as the IGP for AS 980, AS 38500, and AS 58950. Leave OSPF in AS 5400.
- 4. Implement BGP in routers 4,7, 8, and 15 (see IOS command ref sheet 3)
- 5. Create multiple loopbacks in the routers within AS 980, AS 38500, and AS 58950 as suggested in the following table

R9	172.16.0.100/32	R13	13.0.0.13/32
R9	172.20.0.1/32	R14	14.0.0.14/32
R10	172.18.0.200/32	R14	14.14.14.14/32
R11	172.25.0.1/32	R16	192.168.168.1/32
R11	172.30.0.1/32	R17	192.168.254.1/32
R12	170.0.12/32	R17	199.0.0.1/32

6. Make sure you can ping all network from all locations

Stop Here. Save your configuration. Shut down all the devices in the topology and make a copy of it (you could "Save As" file name: Lab6_3). Zip the project folder and upload it in the dropbox in beachbaord.