IT2050 - Computer Networks
2nd Year, 1st Semester

Tutorial 9

1. Compare and contrast standard and extended Access Control Lists.

2. Explain what will happen if you apply an Access Control List without any statements to Fast Ethernet interface with inbound direction.

3. Design an IP access list that permits traffic from host 193.5.2.76, but denies all other IP traffic

4. Design an IP access list that denies traffic from host 11.5.25.239, but permits all other IP traffic.

5. Configure an IP access list that stops packets from subnet 134.141.7.0/24 from exiting serial 0 on a router. Allow all other packets.

6. Configure an IP access list that allows packets from subnet 101.100.45.32/27 from exiting serial 0 on a router. Deny all other packets

7. Design an access list that denies IP traffic from hosts 152.5.35.83 and 104.2.64.33, permits IP traffic from all hosts on network 185.25.0.0/16, and denies all other IP traffic. Invoke your access list inbound on interface E2.

8. What will be the results for the following statements:

```
access-list 25 permit host 101.2.3.40
access-list 25 deny 203.45.0.0 0.0.255.255
access-list 25 permit any

    interface  ethernet 1
        ip access-group 25 in
```

9. Configure an IP access list that allows only packets from subnet 193.7.6.0/24, going to hosts in network 128.1.0.0 And using web service in 128.1.0.0, to enter serial 0 on a router.

10. Configure and enable an IP access list that stops packets from subnet 10.3.4.0/24 from exiting from serial interface S0 and that stops packets from 134.141.5.4 from entering s0. Permit all other traffic.

11. Configure and enable an IP access list that allows packets from subnet 10.3.4.0/24, to any web server, to exit serial interface S0. Also allow packets from 134.141.5.4 going to all TCP-based servers using a well-known port to enter S0. Deny all other traffic.

12. what will be the results for given statements:

```
access-list 164 deny tcp 14.3.6.234 0.0.0.0 host 6.5.4.1 eq 23
access-list 164 deny udp any any eq tftp
access-list 164 permit ip any any
    interface serial 0
        ip access-group 164 out
```