

Assignment 2

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1.

a) Prevent traffic from workstation 20.163 from reaching the workstation 70.5 and the tower box 70.2. Traffic from all other hosts/networks should be allowed.

```
access-list 1 deny 172.16.20.163 0.0.0.0
access-list 1 permit any
interface E0 #Calgary
ip access-group 1 out
```

b) Prevent traffic from 80.0 network from reaching 10.0 network. All other traffic must be allowed.

```
access-list 2 deny 172.16.80.0 0.0.0.255
access-list 2 permit any
interface E0 #Edmonton
ip access-group 2 out
```

c) Workstations 50.75 and 50.7 should not be allowed HTTP or HTTPS access on tower box 70.2. All other workstations can.

```
access-list 101 deny tcp 172.16.50.75 0.0.0.0
                        172.16.70.2 0.0.0.0 eq 80
access-list 101 deny tcp 172.16.50.75 0.0.0.0
                        172.16.70.2 0.0.0.0 eq 443
access-list 101 deny tcp 172.16.50.7 0.0.0.0
                        172.16.70.2 0.0.0.0 eq 80
access-list 101 deny tcp 172.16.50.7 0.0.0.0
                        172.16.70.2 0.0.0.0 eq 443
```

```
access-list 101 permit ip any any
```

```
interface E0 #Calgary
ip access-group 101 out
```

d) 80.16 can telnet to 40.89. No one else from 80.0 can telnet to 40.89. Any other host from any other subnet can telnet to 40.89. (Note: Port number for telnet is 23).

```
access-list 102 permit tcp 172.16.80.16 0.0.0.0
                        172.16.40.89 0.0.0.0 eq 23
access-list 102 deny tcp 172.16.80.0 0.0.0.255
                        172.16.40.89 0.0.0.0 eq 23
access-list 102 permit ip any any
interface E0 #Red Deer
ip access-group 102 out
```

(e) 70.5 can ftp to the Edmonton router. No other host can. (Port numbers for ftp are 20 and 21).

```
access-list 103 permit tcp 172.16.70.5 0.0.0.0  
                        172.16.30.1 0.0.0.0 range 20-21  
access-list 103 deny ip any any  
interface s0 #Edmonton  
ip access-group 103 in
```