## Lecture 16

**Exercise 1**: What is the difference between IP and "The Internet"? Does a network using IP have to be on the Internet? Does someone using the Internet have to use IP?

**Exercise 2**: What is the netmask in binary for a /24 network? What is it in decimal? How can the netmask be used to determine if one IP address is on the same network as another? Is the address 192.168.2.200 in the 192.168.2.0/25 network?

Exercise 3: Who "owns" the 204.191.0.0/16 network?

Networks	
TELUS-204-191-0-0 (NET-204-191-0-0-1)	204.191.0.0 - 204.191.255.255
NET204 (NET-204-0-0-0)	204.0.0.0 - 204.255.255.255

**Exercise 4**: For the routing table above, what port ("Interface") would be used by packets with the following destination IP addresses: 127.0.0.255? 192.168.1.1? 192.168.2.1?