

Mt. San Jacinto College – Fall 2016

CSIS 151 – Using the OS Command Line Interface (1526)

HomeWork #10

Read Chapter 10

- 1) Give me public ip address range and why you would use it?
- 2) Give me the private ip address range abd why you would use it?
- 3) How does a NIC get an IP address?
- 4) How can you view your ip configuration?
- 5) ESSAY QUIZ pg 436 problem 3

Due at beginning of class on **November 6th** –

5% penalty for each week late

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CSIS 151-1425

Answers

- 1) The public IP address range is all IP addresses within IPv4 with the exception of 10.0.0.0 – 10.255.255.255, 172.16.0.0 – 172.31.255.255, and 192.168.0.0 – 192.168.255.255 which are reserved for private IP addresses in IPv4. A public IP address is used for hosts on the internet.
- 2) The private IP range for IPv4 is 10.0.0.0 – 10.255.255.255, 172.16.0.0 – 172.31.255.255, and 192.168.0.0 – 192.168.255.255. These addresses are used for private networks (i.e. home network) and communication within the network and are unusable on the internet. They also do not need permission to be used unlike public IP addresses.
- 3) A NIC gets an IP address through static address assignment or automatic address assignment. Static address assignment provides an IP address by manually entering an IP address and configuring it accordingly. Automatic address assignment, however, gets an address by requesting one from a DHCP server.
- 4) You can view your IP configuration in the command prompt in Windows using “ipconfig” or in Linux/OS X “ifconfig”.
- 5) A/an virtual private network (VPN) uses encapsulation to protect data sent over a public network. Encryption makes the data more secure.