Online Gaming Technologies – Lab 4
Josh Browne – C00224660

Interview Questions about IP layer.

Question 1:
What IP addresses are private?

Solutuion:

The Internet Assigned Numbers Authority (IANA) reserves the following IP address blocks for use as private IP addresses:

- 10.0.0.0 to 10.255.255.255
- 172.16.0.0 to 172.31.255.255
- 192.168.0.0 to 192.168.255.255

A private IP address is an IP address that's reserved for internal use behind a router or other Network Address Translation (NAT) device, apart from the public. Private IP addresses are in contrast to public IP addresses, which are public and can't be used within a home or business network. Sometimes a private IP address is also referred to as a local IP address.

Question 2:
What is default gateway?

Solution:

A Default Gateway is an address to which all the packets to which there is no known Route is available is been sent. In otherwords, if the system doesn't know where to send a set of packets, it will forward it to this address which then takes care of routing to appropriate destinations.

Question 3:
What is subnetting?

Solution:

- Subnet adds one level to the way IP address is represented.

- It logically organizes the network. For instance, it can logically group computers belongs to the finance department.

- A network segment and a host segment is included in an IP address.

- Subnetting is where sub-networks are added in the organizations without acquiring a new network number via the Internet service provider (ISP).

- The network traffic is reduced and the network complexity is concealed.

- It can be used when numerous segments of a local area network (LAN) is allocated by a single network number.