# Hands On Project Alexander Ross 300213662

5-3 1

### 5-32

### Packet tracer lab 5-1

3:

Port Status: 4th layer Bandwidth: 4th layer Duplex: 2nd layer

MAC Address: 2nd layer

DHCP: 5th layer IP Address: 3rd layer

5:

Gateway: 3rd Layer DNS Server: 5th layer

6: DNS 7:

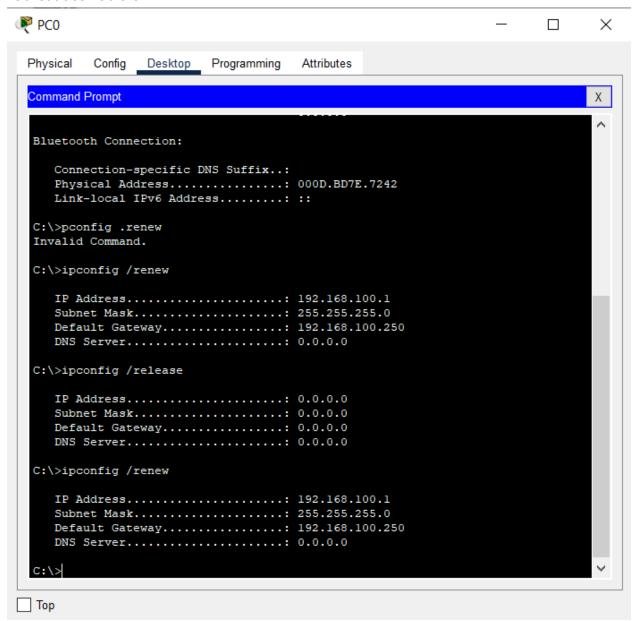
3rd layer

Ping request timed out

#### 8:

### Time out again

#### Packet tracer lab 5-3



Challenge lab 5-1 Http capture filter

TCP protocol

Source port 49682

Dest port 80 Sequence #

(Relative: 0

Raw: 3815045695 ) Flags:SYN: Set

Calculated window size: 64240

Calculated window size is the buffer space we have for extra data for receiving packets.

Maximum segment size: 1460 bytes Calculated window Size: 65535

The maximum payload size an endpoint is willing to receive.

Max segment size: 1460

When data is sent through a TCP connection it keeps track of the conenction and guarantees

no packet is lost.

5-2

We used a ipconfig /release to release our address, then a ipconfig /renew to renew a new address

Port 67 || Port 68

Request

ACK

Discover

Release

Port 67 Source Port 68 Dest

## Case Project 5-1

The Conclusion is that you cannot get a ip address assigned to you, more than likely the DHCP is incorrect, but could be many factors. But in the end, the lady cannot receive a IP address.

Case Project 5-2

Assign a DHCP range for a small amount of computers and assign a static IP to any printers, servers or permanent nodes.