**Packet Tracer - Use ICMP to Test and Correct Network Connectivity**

**Vishnu K**

**CB.EN.U4CYS21087**

**Testing connection between corporate server and PC1 by pinging the Ipv4 address of corporate server’s in the command prompt of PC1**

Result: 3 success and 1 loss

**Trying from Laptop A to Corporate sever**

Result: All success

**Trying from PC-2 to Corporate sever (take the Ipv6 addr of corporate server because the PC-2 only has ipv6 address)**

Result: All success

**Trying from PC-3 to Corporate sever**

Result: All success

**Trying from PC-4 to Corporate sever**

Result: All the packets are lost.

So trying to use tracert command to check for any issues in the path.

Can’t even connect to its own default gateway.

Now checking the ipv4 address of PC-4 in the ip configuration to check if they are assigned properly. We can see that the default gateway is configured improperly.

It should be 10.10.5.1 but it is 10.10.5.11.

Change it back to the assigned default gateway.

Now, the ping is working with all 4 packets sent and received successfully

**Trying from Server1 to Corporate sever**

Result: request timedout. All packets lost.

In the ip config tab of server1 we can see that the DHCP has assigned the ip for server1 which is assigned improperly ( this can be checked using ipconfig /all command )

So, assign the ip statically. After assiging the correct ipv4 addr for server1 the ping is successful.

**Trying from Laptop B to Corporate sever**

Result: All the packets are lost.

So trying to use tracert command to check for any issues in the path.

Can’t even connect to its own default gateway.

Now checking the ipv6 address of Laptop B in the ip configuration to check if they are assigned properly.

Everything is assigned properly. Now checking the RTR-3 to check the default gateway.

The G0/0/1 is not matching. Go to the RTR-3 CLI and type show ipv6 int brief to check that.

First assign no ipv6 address and then add the correct ipv6 address. Give no shutdown

Pinging again from laptop B. Ping successful.

**Trying from Laptop C to Corporate sever**

Result: All success