

# **COMPUTER NETWORKS FOR SERVER MANAGEMENT**

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## **EXPERIMENT 1**

### **Configuration of Network Devices using Packet Tracer**

#### **Aim:**

To establish a Local Area Network (LAN) using Cisco Packet Tracer.

#### **Tools Required:**

1.End device - They are the devices through which we can pass message from one device to another and they are interconnected.

2.Switch/Hub - Interface Between two devices.

3.Cable - Used to connect two devices.

#### **Procedure:**

**STEP 1:** Click on end devices, select generic Pc's drag and drop it on the window. Click on SWITCH drag and drop it on the window.

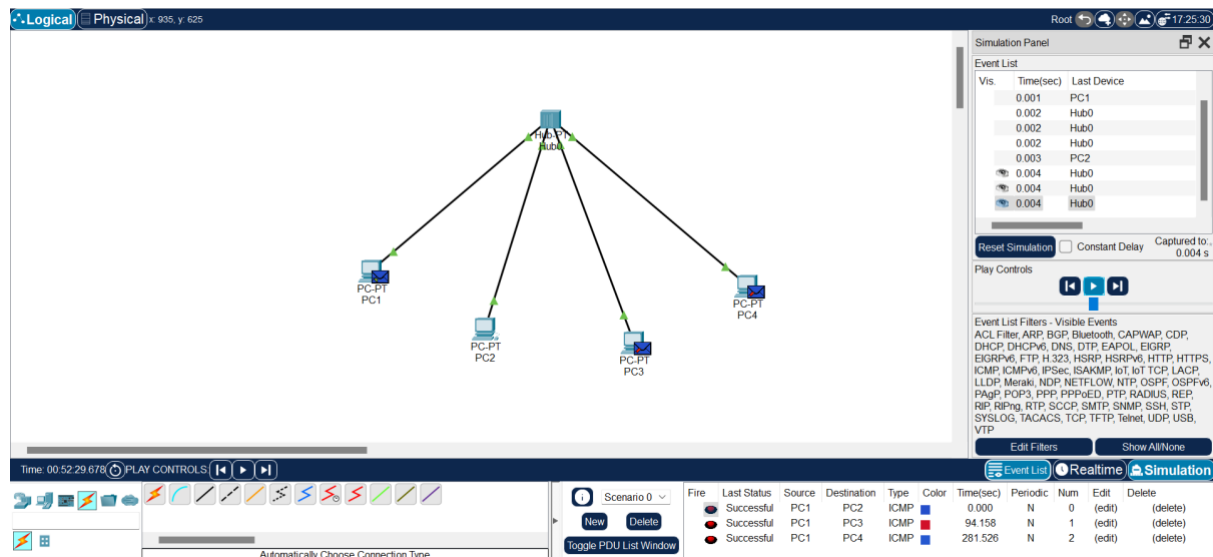
**STEP 2:** Select the straight through cable and connect all end device to switch. Assign the IP address for all end devices. (Double click the end device Select →desktop → IP configuration static)

**STEP 3:** Now set the IP address to Host A (192.168.1.1) in static mode. Similarly set IP address for Host B (192.168.1.2) and Host C (192.168.1.3)

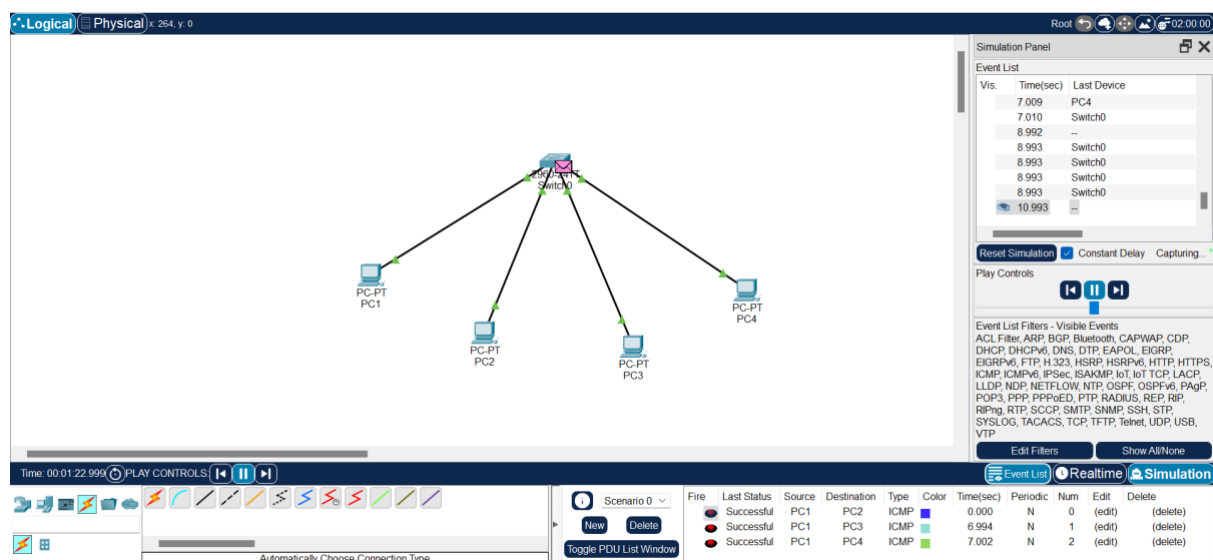
**STEP 4:** To view the IP address, give ipconfig command in command prompt. Using ping command, we can establish communication between two host devices.

**STEP 5:** Now display the packet transmission in simulation mode.

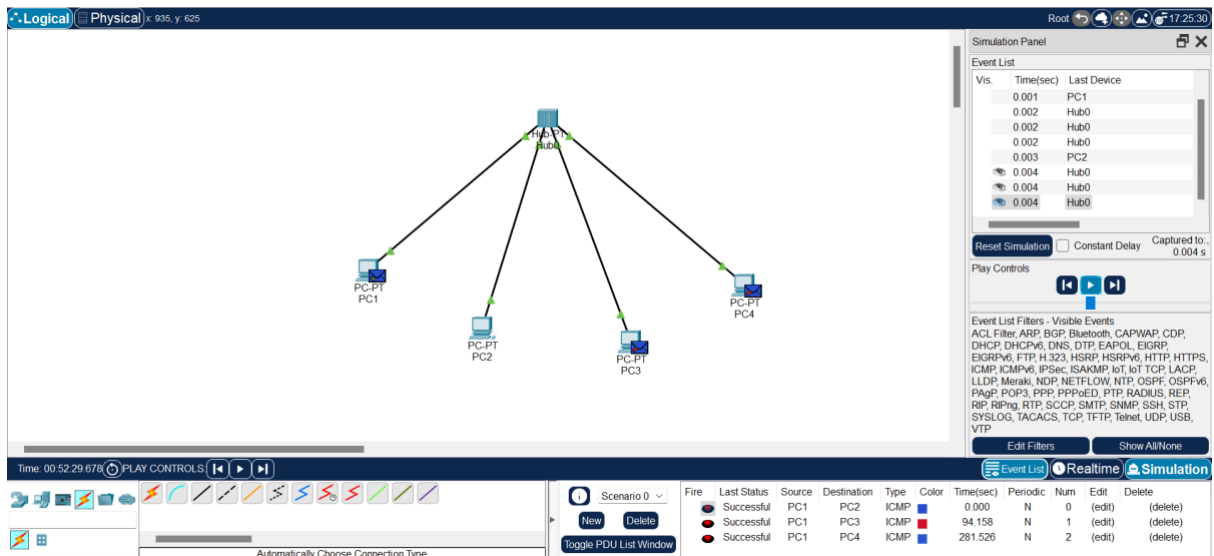
Using Hub:



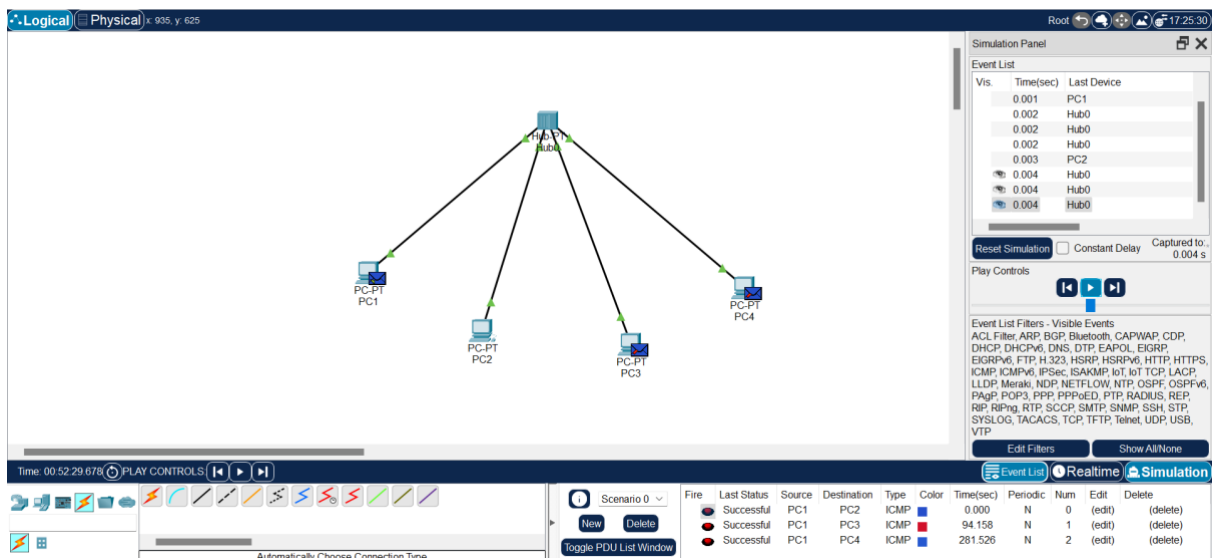
Using Switch:



Using Ethernet:



Using Broadcast:



## Result:

Configuration of Network Devices using Packet Tracer Hub, Switch, Ethernet, Broadcast is verified successfully.