

# **CSA0734-COMPUTER NETWORKS FOR SERVER MANAGEMENT**

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## **EXPERIMENT 8**

### **Data Link Layer Traffic Simulation using Packet Tracer Analysis of ARP**

#### **Aim:**

Traffic simulation of Data link layer using 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.
- 4.Server – Manages the end 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)

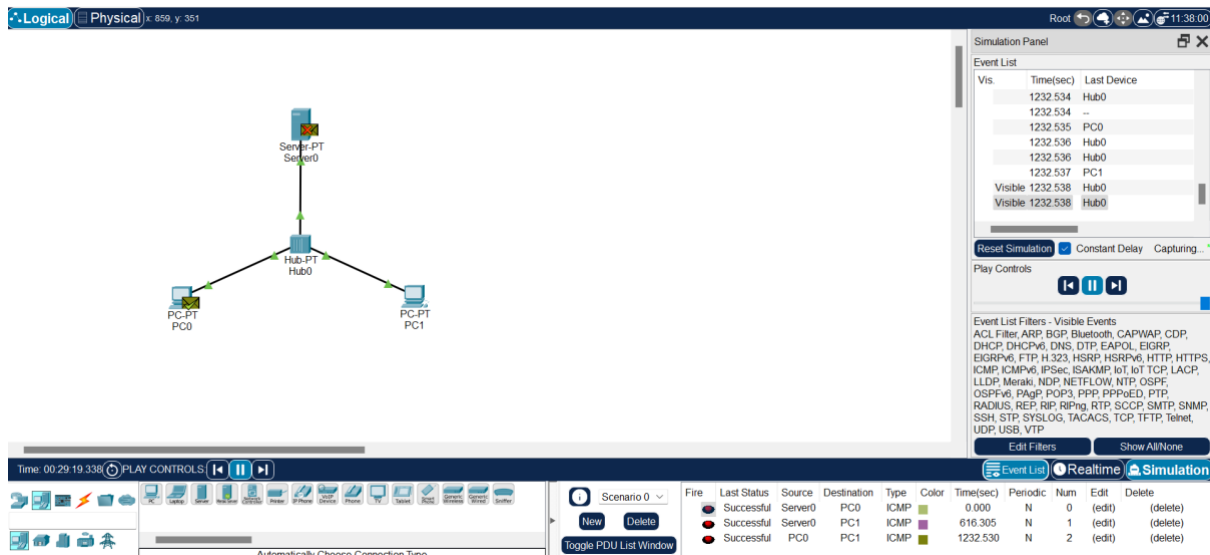
**STEP 3:** Now set the IP address to Host A (192.168.1.1) in static mode. Similarly set IP address for Host B (192.168.1.2) and Host C (192.168.1.3) and other Hosts and server.

**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.

## Data Link Layer Traffic Simulation:



## Result:

**Traffic simulation of Data link layer using Packet Tracer has been done successfully.**