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 passmessage from one device to another and they are interconnected.

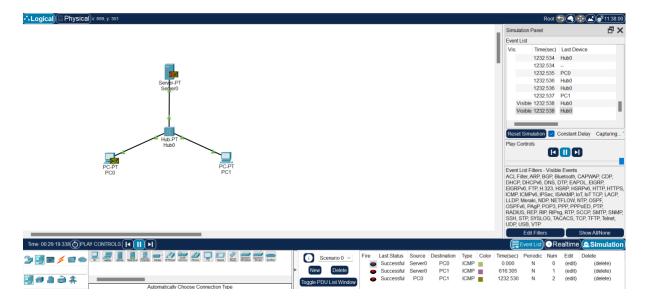
- 2.Switch/Hub Interface Between two devices.
- 3.Cable Used to connect two devices.
- 4.Server Manages the end devices.

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 deviceSelect →desktop → IP configuration static)
- **STEP 3:** Now set the IP address to Host A (192.168.1.1) in static mode. Similarly set IP addressfor 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.