

CSA0734-COMPUTER NETWORKS FOR SERVER MANAGEMENT

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EXPERIMENT 10

Data Link Layer Traffic Simulation using Packet Tracer Analysis of CSMA/CD & CSMA/CA

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.

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)

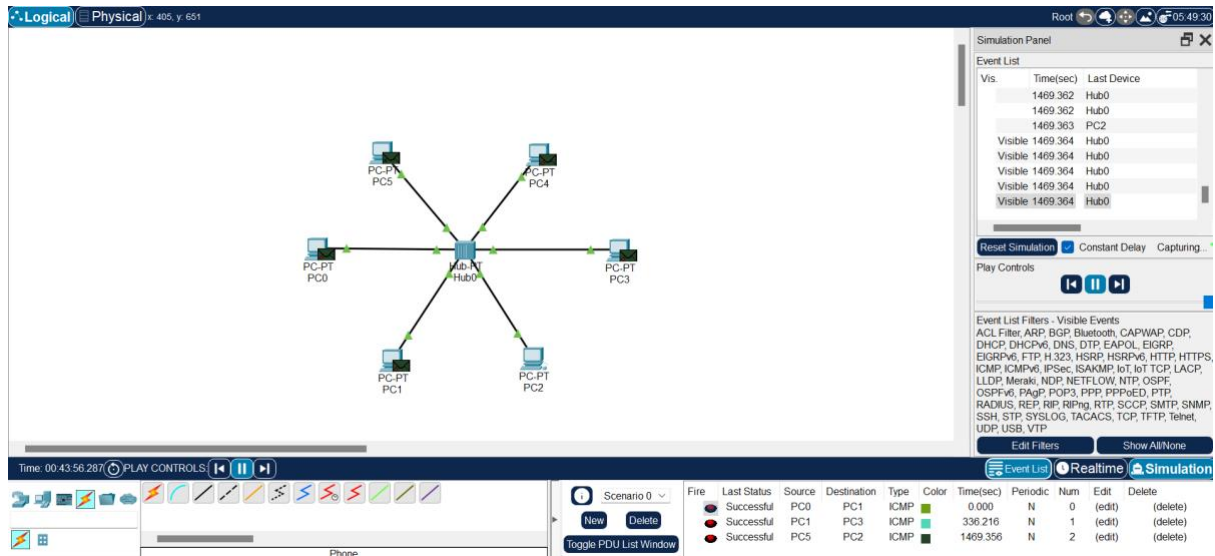
STEP 3: Now set the IP address to Host A (192.168.1.1) in static mode. Similarly set IP address for Host B (192.168.1.2) and Host C (192.168.1.3) and other Hosts and

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.