

WEEK 8

To construct a simple LAN and understand the concept and operation of Address Resolution Protocol (ARP).

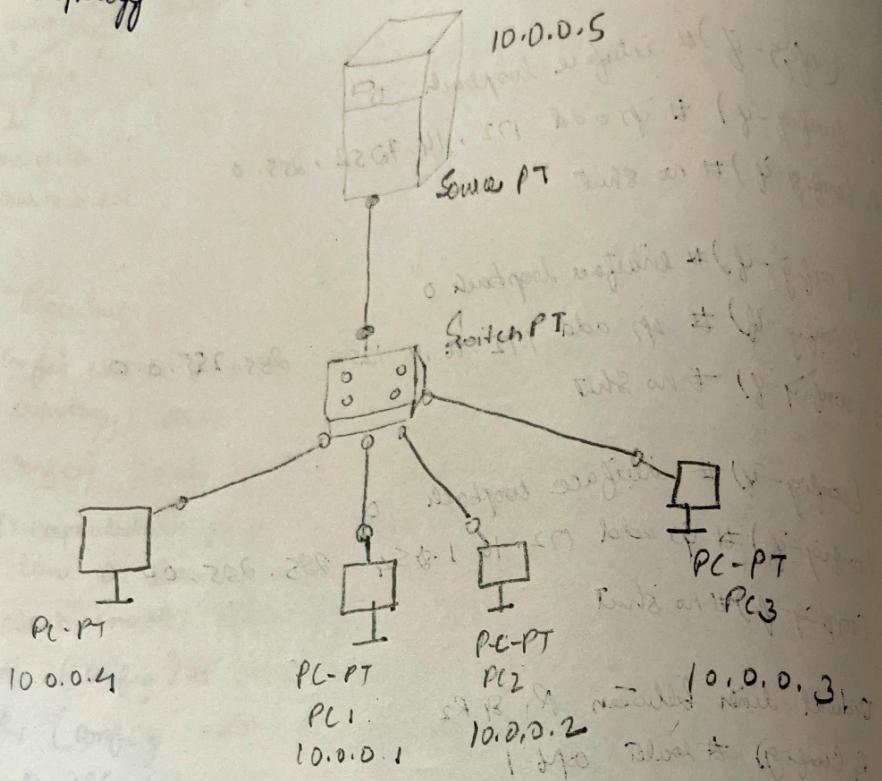
OBSERVATION:

8. lab

Aim - To construct a simple LAN & understand the concepts of Resolution Protocol (ARP)

Operation Address Resolution Protocol (ARP)

Topology



Procedure

- 1) Create a topology of 4 PCs & a Server. Their IP addresses are assigned to all the PCs, connect them through a switch.
- 2) Use the aript tool to click on PC to obtain ARP table. Alternatively arp -a in CWP will also do the same.
- 3) Initially ARP is empty.
- 4) Also in CLI of Switch the command

5) use capture / forward in Simulation first to go
Step by step to changes

6) Nodes & Switcher get updated in ARP table
& new connections start

Command Prompt

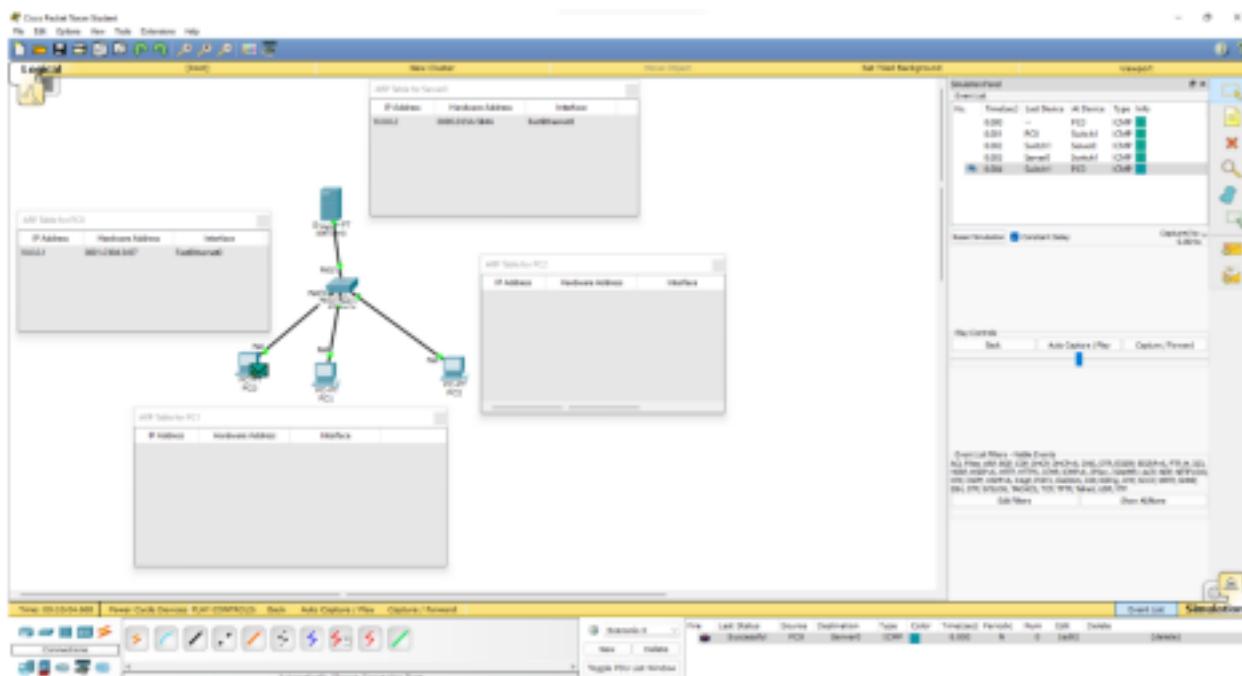
PC > arp - a

internet add.	Physical address	Type
10.0.0.2	0005.5e6a.7da2	Dynamic
10.0.0.3	0030.6285.7a19	Dynamic
10.0.0.4	0001.6383.ddb2	Dynamic
10.0.0.5	0004.9a42.616c	Dynamic

MAC address table

VLAN	MAC Address	Type	Ports
1	0001.683.6dd2	Dynamic	Fa0/1,
1	0003.e49d.b2d9	Dynamic	Fa0/1,
1	0004.9a42.616c	Dynamic	Fa2/1,
1	0005.5e6a.7da2	Dynamic	Eth6/1,
1	0003.6286.7a19	Dynamic	Fa3/1

TOPOLOGY:



OUTPUT:

