

Program-10

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

Topology, Procedure and Observation:

LAB 10 :
- ARP -

AIM: To construct simple LAN and understand the concept and operation of address Resolution protocol (ARP)

TOPOLOGY:

PROCEDURE:

- 1] Create the topology as shown above.
- 2] Configure the PC's and the server.
- 3] Click on Inspect mode (R) then click on the end device & open ARP tables.
- 4] Send a data packet from any end device say server to other end device say 10.0.0.3 PC.
- 5] open simulator mode to capture each step of data transfer.

OBSERVATIONS:

- 1] The ARP tables of all end devices are initially empty.
- 2] When the data packet from server arrives at the switch, since the source MAC address is unknown, it sends a broadcast message to all devices.



PC1

Physical

Config

Desktop

Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.0

PC>arp -a

No ARP Entries Found

PC>