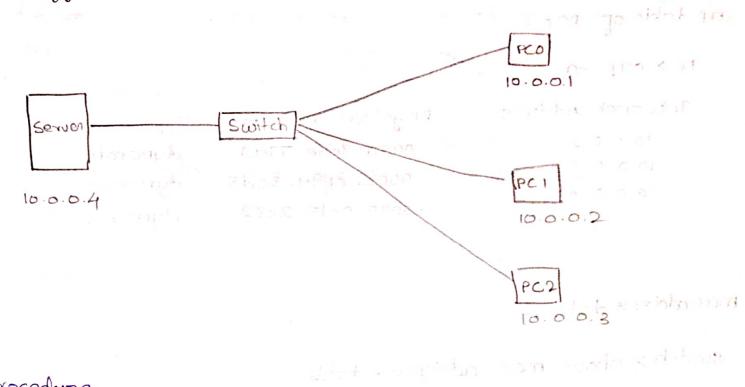
Aim: To understand the working of ARP 1

Topology:



Procedure:

- · Connect a server, switch and PCs to form a simple LAN.
- · set IP add-remes of all the pcs and someces servers
- · Go to inspect and click on ARP table, which will be empty at the beginning.
- In simulation mode, ping the PCs using capture. Make sume that switch gets to know about every IP address by pinging them the devices.
- · As we after pinging in completed, we can see that ARP tables are getting updated
- · Go to command prompt of PC and give arp -a

- · It'll show the amp table of following
- · Go to swith > CLI > show mac addrew-table to get all the addresses.

Output

arp table op PCO -

PC > arp -a

Internet Address 10.0.0.2

10.0.0.3

10.0.0.4

Physical address

0060. 3eSe, 7740

000c. cf94. 36d8

0090, 0015, 2032

Type

dynamic

dynamic

dynamic

macadaren table -

switch > show mac address - table

Mac address Table

VLAN	Mac Address	Type	Ports	198
1 -	000c.cf94.36d8	DYNAMIC	fa 2/1	11.07
1	0060.3e5e.7740		Fal/1	
1	0090.005.2032	DYNAMIC	6 - 01	
	0000,5846.9966	DYNAMI	C Fa o/1	
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- · ARP Laddress resolution protocol) is a protocol that connects dynamically changing Il address to a gized mac address in a LAN.
- · As we go on pinging the devices, we observe that the ARP table gets updated dynamically.
 - when we do show mac address table, we can observe all devices mac address as we have pinged the devices to get to know about each other

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