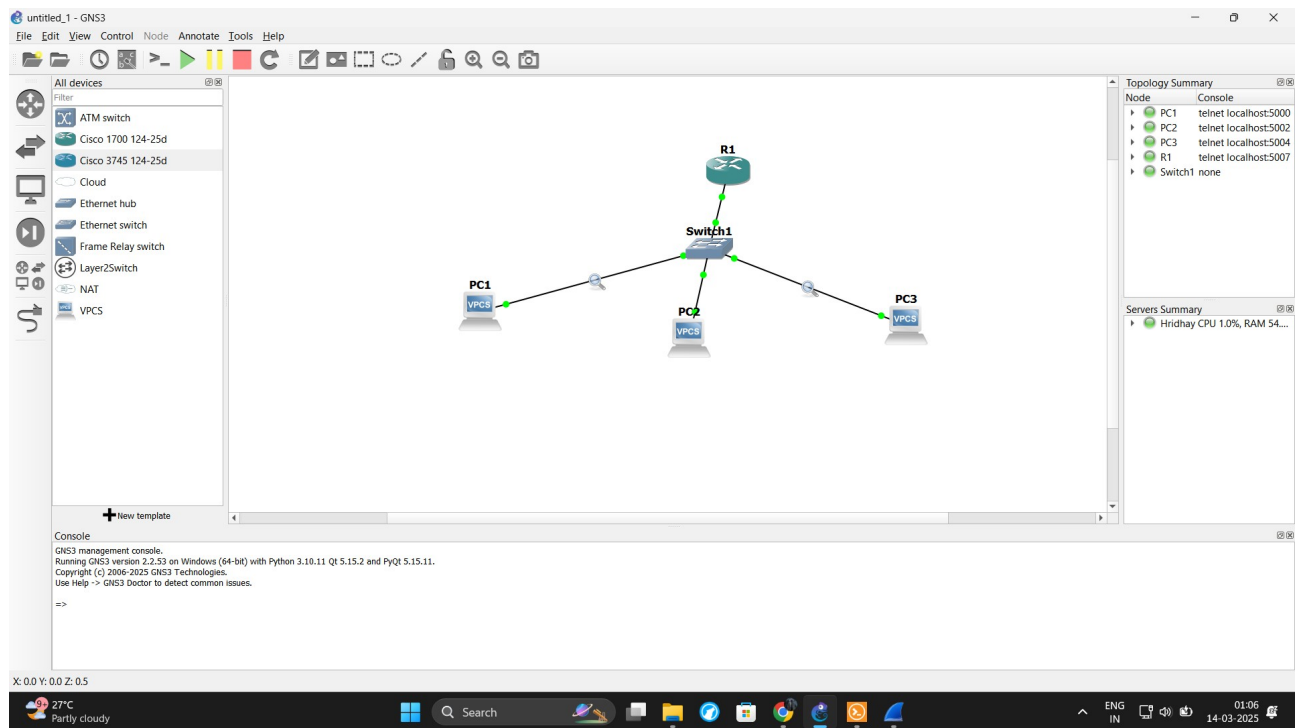


Address Resolution Protocol (ARP) is a network protocol that maps ip address of the destination device in a network to its corresponding MAC address. This ensures that the data link layer will forward packets to the destination using the MAC address. If destination is not in the network it will forward to the default gateway using the MAC address of the gateway.

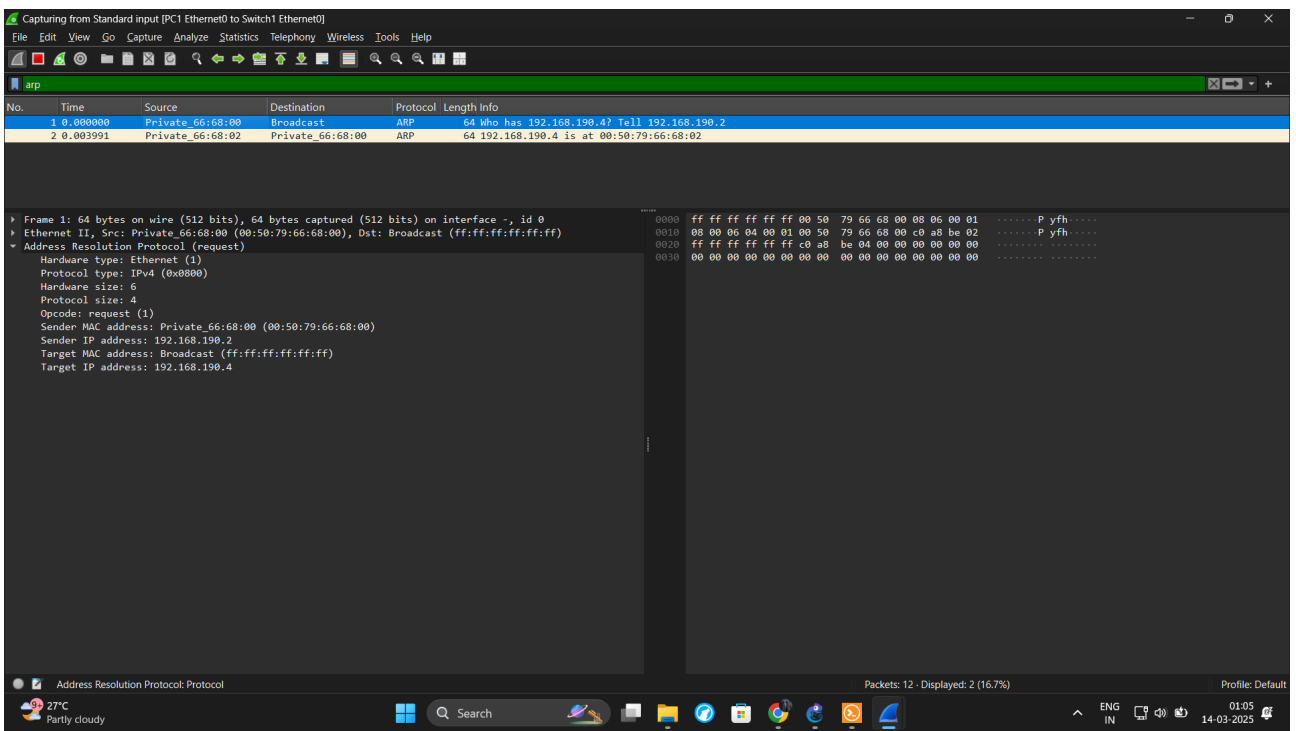
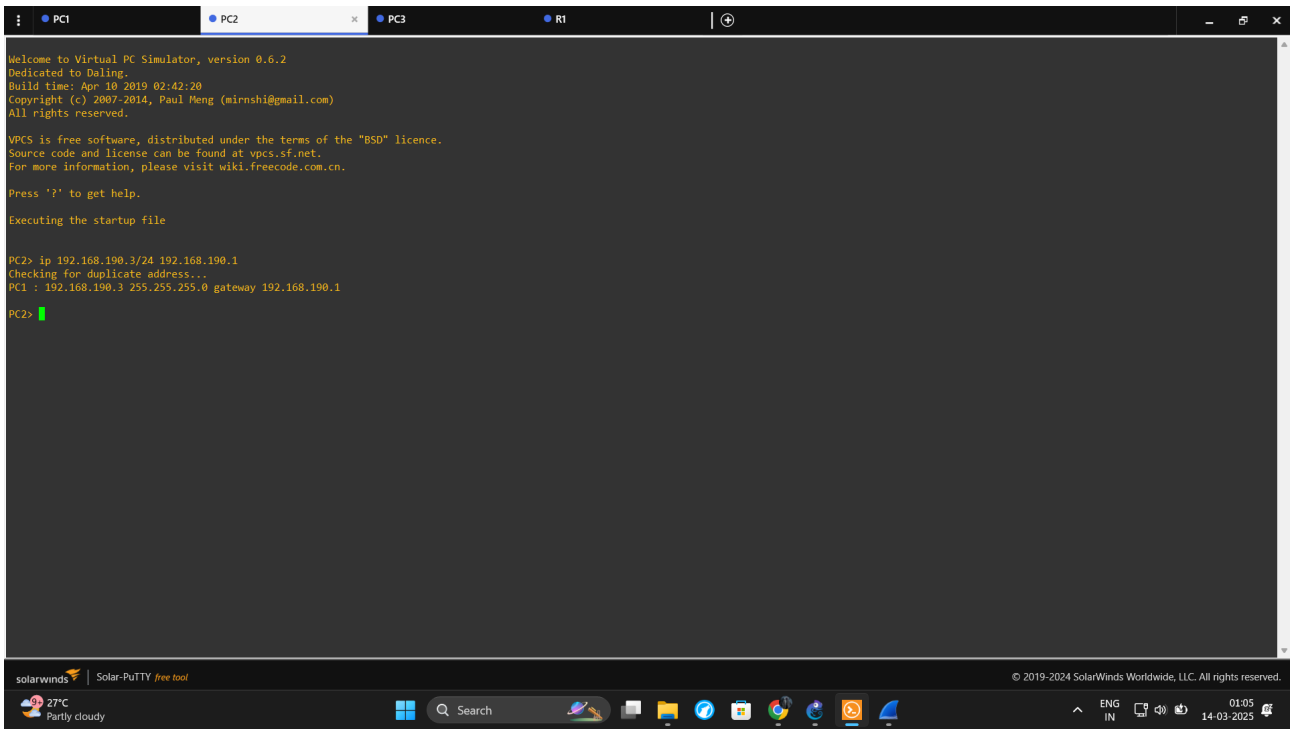


```
wccp      WCCP interface commands

R1(config-if)#ip
% Incomplete command.

R1(config-if)#ip address 192.168.190.1 255.255.255.0
R1(config-if)#exit
R1(config)#show ip
^
% Invalid input detected at '^' marker.

R1(config)#exit
R1#show ip
*Mar  1 00:02:33.515: %SYS-5-CONFIG-I: Configured from console by console
R1#show ip interface
FastEthernet0/0 is administratively down, line protocol is down
  Internet address is 192.168.190.1/24
  Broadcast address is 255.255.255.255
  Address determined by setup command
  MTU is 1500 bytes
  Helper address is not set
  Directed broadcast forwarding is disabled
  Outgoing access list is not set
  Inbound access list is not set
  Proxy ARP is enabled
  Local Proxy ARP is disabled
  Security level is default
  Split horizon is enabled
  ICMP redirects are always sent
  ICMP unreachable are always sent
  ICMP mask replies are never sent
  IP fast switching is enabled
  IP fast switching on the same interface is disabled
  IP flow switching is disabled
  IP CEF switching is enabled
  IP CEF fast switching turbo vector
  IP multicast fast switching is enabled
  IP multicast distributed fast switching is disabled
  IP route-cache flags are Fast, CEF
  Router Discovery is disabled
  IP output packet accounting is disabled
  IP access violation accounting is disabled
  TCP/IP header compression is disabled
  RTP/IP header compression is disabled
  Policy routing is disabled
  Network address translation is disabled
```



Capturing from Standard input [PC1 Ethernet0 to Switch1 Ethernet0]

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

arp

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	Private_66:68:00	Broadcast	ARP	64	Who has 192.168.190.4? Tell 192.168.190.2
2	0.003991	Private_66:68:02	Private_66:68:00	ARP	64	192.168.190.4 is at 00:50:79:66:68:02

Frame 2: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface -, id 0

Ethernet II, Src: Private_66:68:02 (00:50:79:66:68:02), Dst: Private_66:68:00 (00:50:79:66:68:00)

Address Resolution Protocol (reply)

Hardware type: Ethernet (1)

Protocol type: IPv4 (0x0800)

Hardware size: 6

Protocol size: 4

Opcode: reply (2)

Sender MAC address: Private_66:68:02 (00:50:79:66:68:02)

Sender IP address: 192.168.190.4

Target MAC address: Private_66:68:00 (00:50:79:66:68:00)

Target IP address: 192.168.190.2

0000 00 50 79 66 68 00 00 50 79 66 68 02 08 06 00 01 Pyfh P yfh

0010 88 00 06 04 00 02 00 50 79 66 68 02 c0 a8 be 04 P yfh

0020 00 50 79 66 68 00 c0 a8 be 02 00 00 00 00 00 Pyfh

0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Address Resolution Protocol: Protocol

Packets: 12 - Displayed: 2 (16.7%)

Profile: Default

27°C Partly cloudy

Search

ENG IN 01:05 14-03-2025