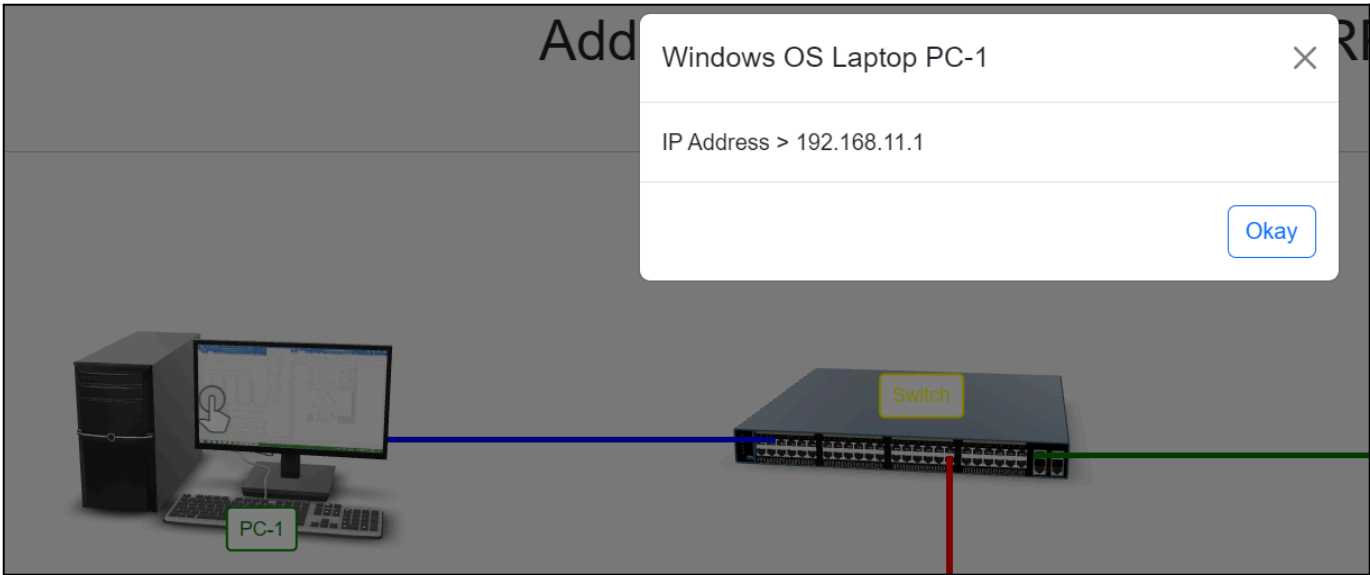
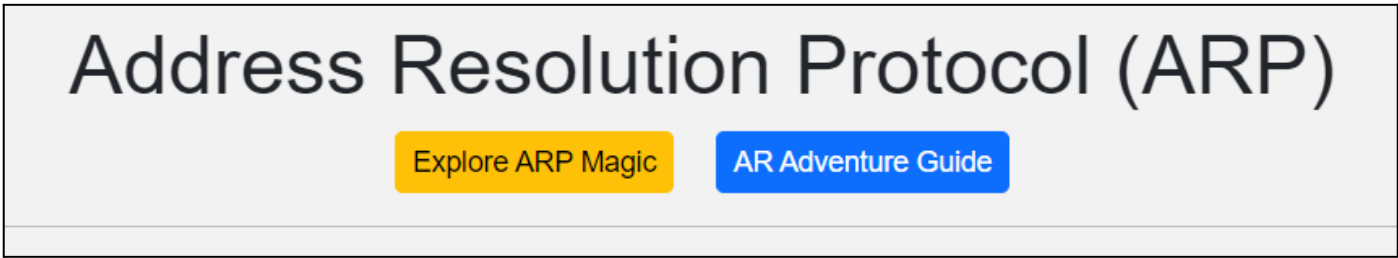


Understanding ARP (Address Resolution Protocol)

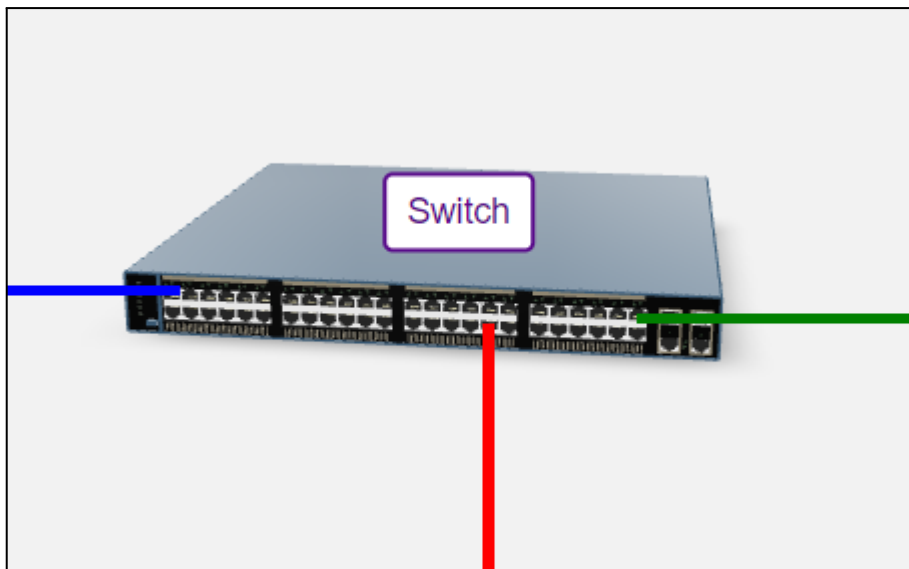
1. If you want know IP & MAC Address of any PC you can click on blue square as shown below:



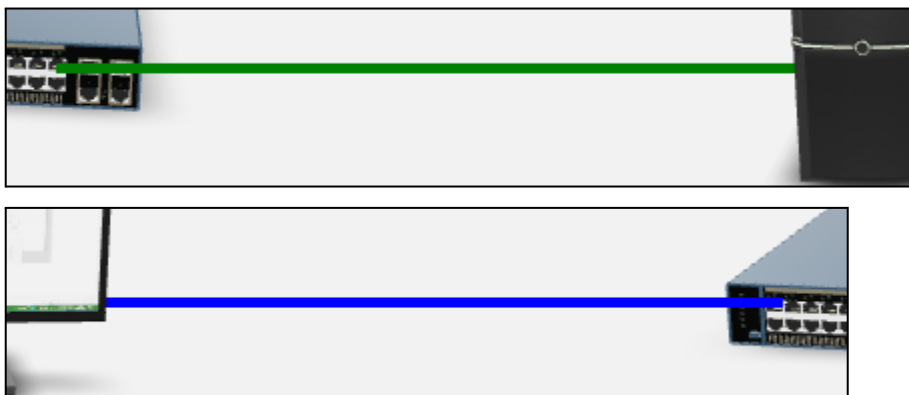
2. Click on “Explore ARP Magic” to view Presentation on ARP topic:

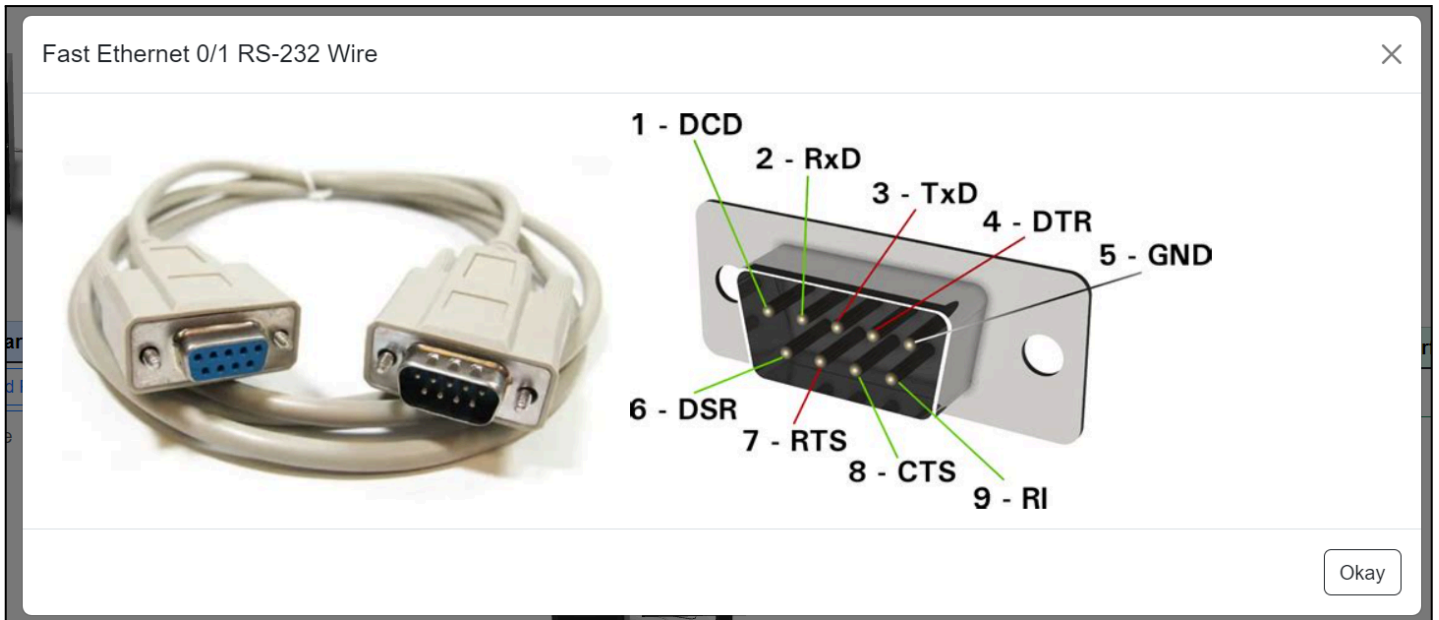
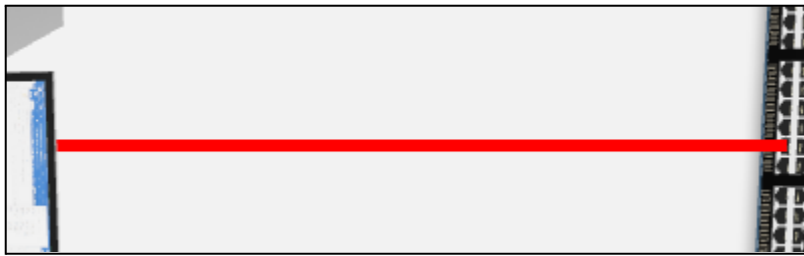


3. Click on “Switch” to view Switch Details:

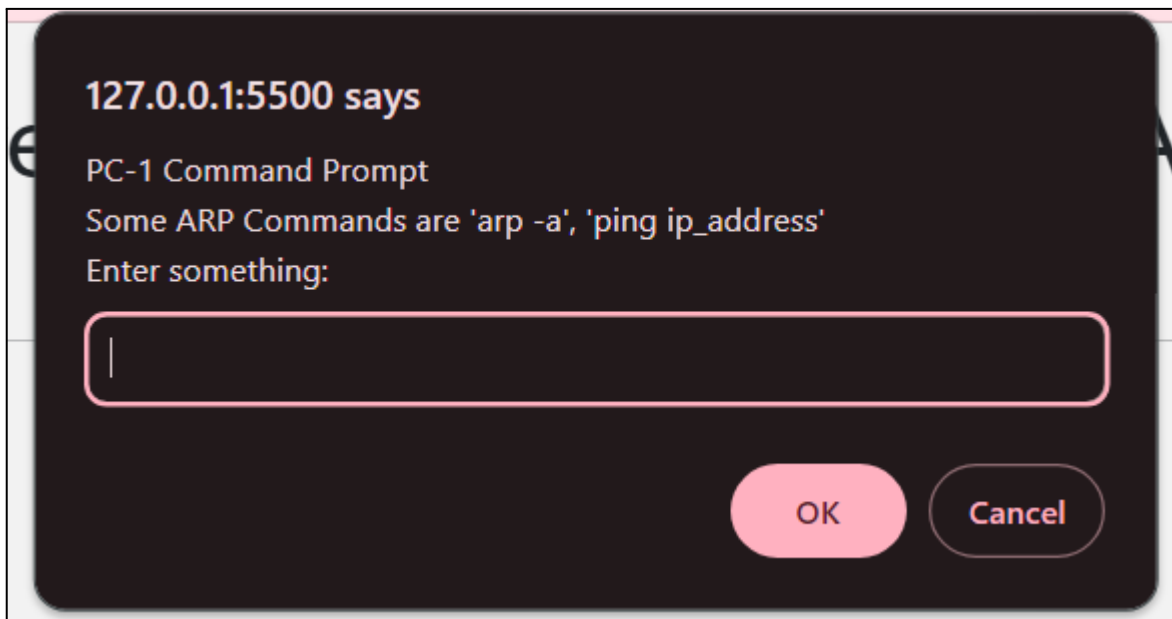
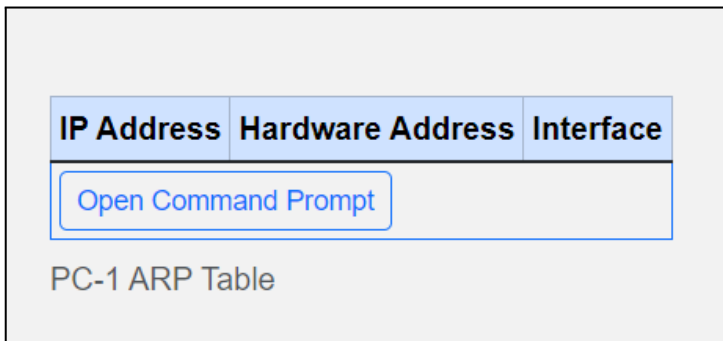


4. Click on wire colors “Red”/”Blue”/”Green” to view wire details:

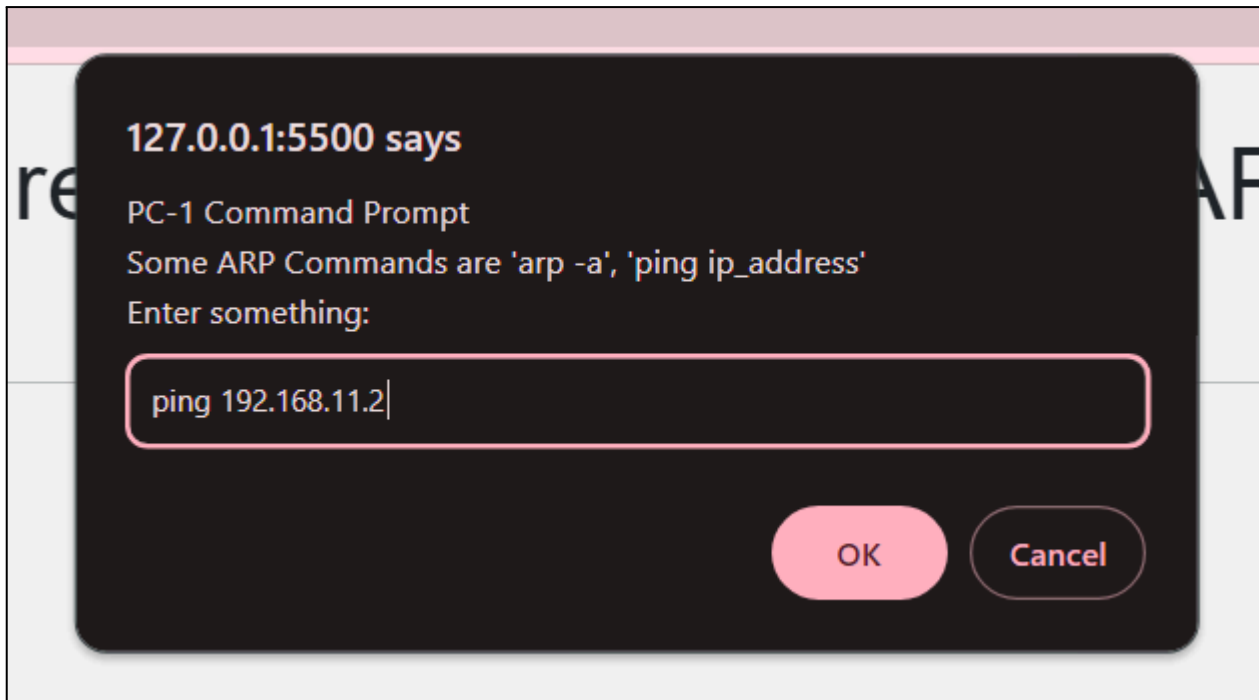




5. Let's start performing ARP in AR World!!! Click on "Open Command Prompt" button of any PC:

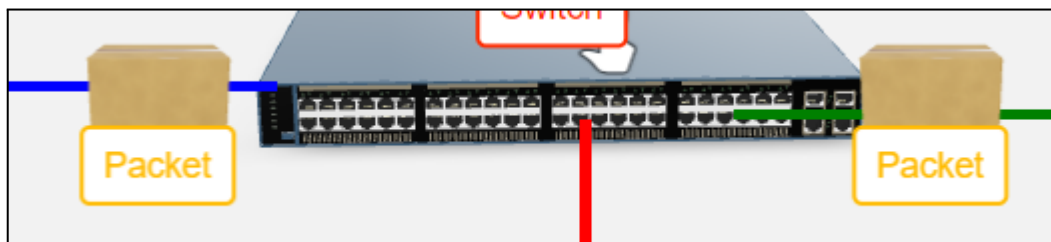


6. Enter “ping IP_Address” of PC of which you want to know MAC Address

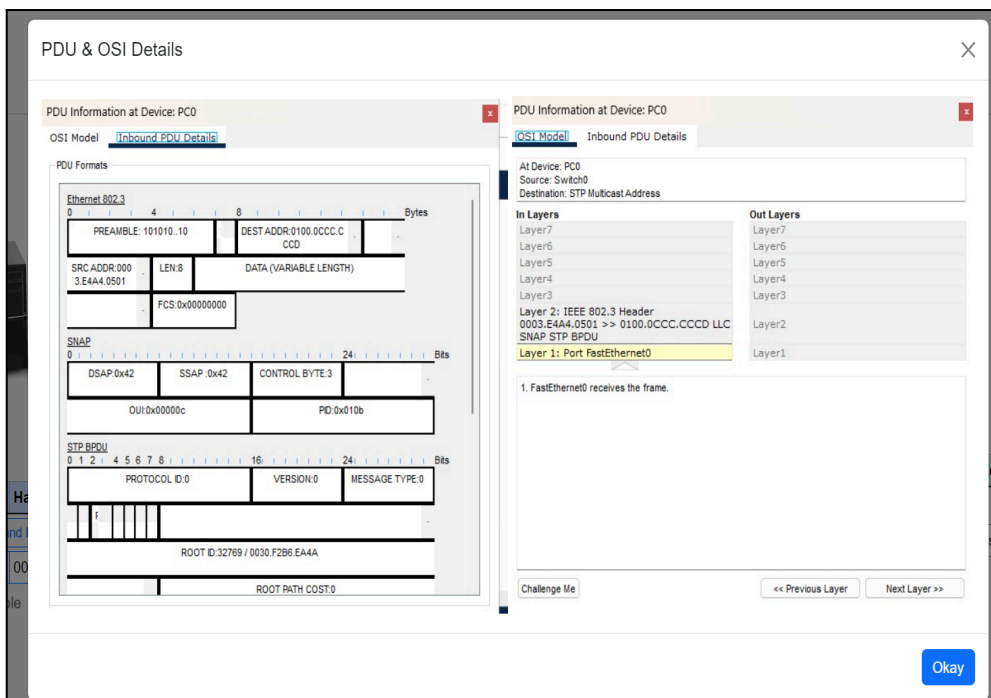


For now let's enter IP Address of PC-2 which is 192.168.11.2

7. Now Click on OK then the magic AR World will begin the packet will start simulating



8. When you click on Packet Label you will get details of what is there inside the Packet when it goes from PC-1 to PC-2, PC-3 to search for that IP Address



9. PC-1 sends a ping to all PC's whichever PC matches that ping IP Address sends Acknowledgement and also stores PC-1 IP Address and MAC Address in their ARP table.



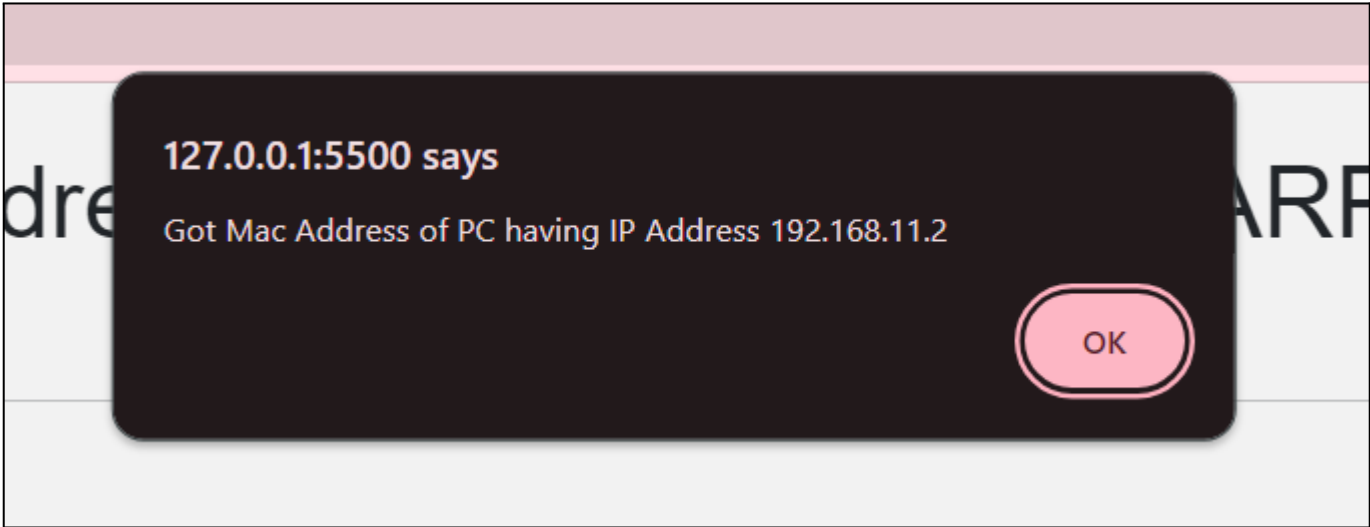
10. PC-2 store IP Address, MAC Address, Interface in their ARP Table of PC-1.

A desktop computer system consisting of a black tower unit, a monitor displaying a network diagram with a hand cursor pointing at it, a keyboard, and a mouse. A green horizontal line is positioned to the left of the tower unit. Below the keyboard, there is a green box labeled 'PC-2'.

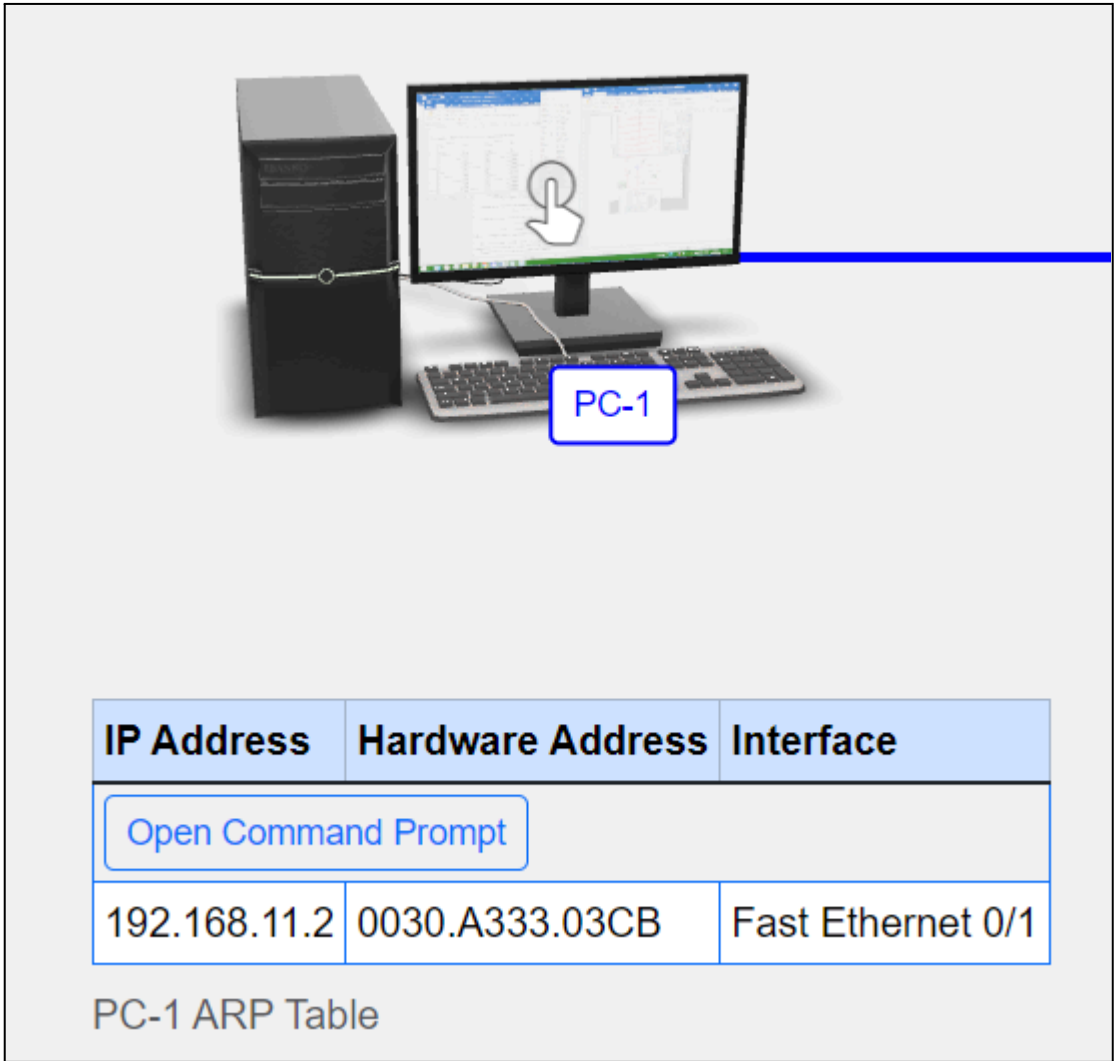
IP Address	Hardware Address	Interface
Open Command Prompt		
192.168.11.1	0001.613C.21A6	Fast Ethernet 0/1

PC-2 ARP Table

11. You will get an alert message like this: “Got MAC Address” means communication between PC-1 to respective PC with IP Address 192.168.11.2 is completed.



12. You will observe that after clicking on OK the PC-1 ARP table shows IP Address, MAC Address, Interface of PC-2.



This way you can get the MAC Address of any PC when you know only one thing that is an IP Address and this is how it works in Real World also.

Bonus!!!

You can also zoom in network devices with mouse to look around to take a look

