

Q) Simulate DNS in packet tracer.

=> The Domain Name System (DNS) is a critical component of the internet infrastructure that translates human-readable domain names (e.g., www.example.com) into machine-readable IP addresses (e.g., 192.0.2.1). This process is essential because, while humans find it easy to remember domain names, computers use IP addresses to identify each other on the network.

To simulate DNS in Cisco Packet Tracer:-

Add Devices: Added one server, a switch and three pcs

Configure the Server:

Select the server and go to the Config tab.

Enable the DNS service.

Add DNS records by entering the domain names and corresponding IP addresses.

Configure the PCs:

Select a PC and go to the Config tab.

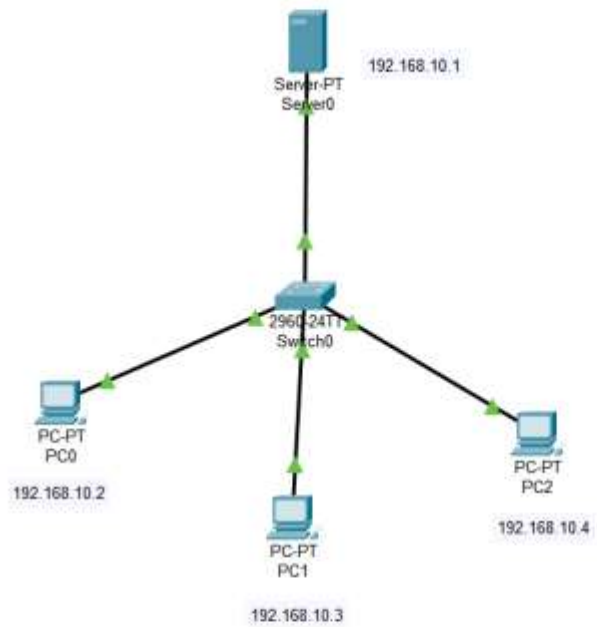
Set the DNS server IP to the IP address of the configured DNS server.

Test the Configuration:

On a PC, open the command prompt and use the nslookup command to query the DNS server for a domain name.

The DNS server returns the correct IP address as shown in the attached screenshots:

DNS (Domain Name System)



Click to Choose Connection Type

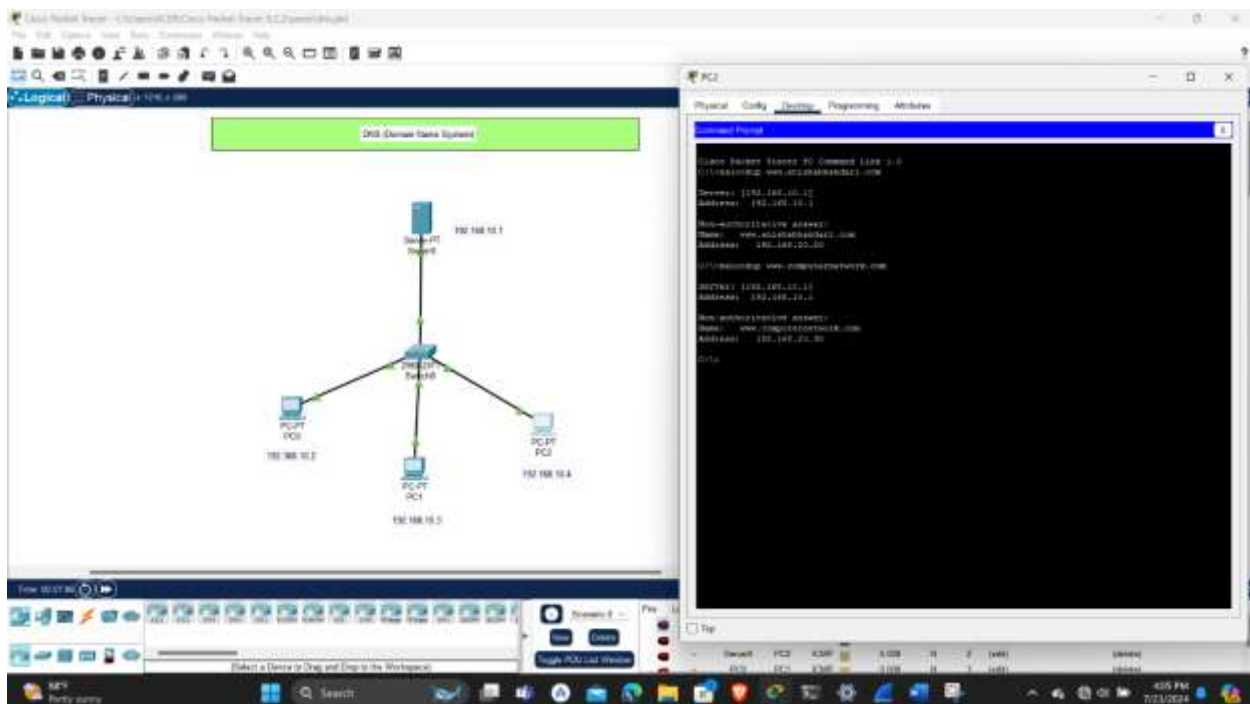
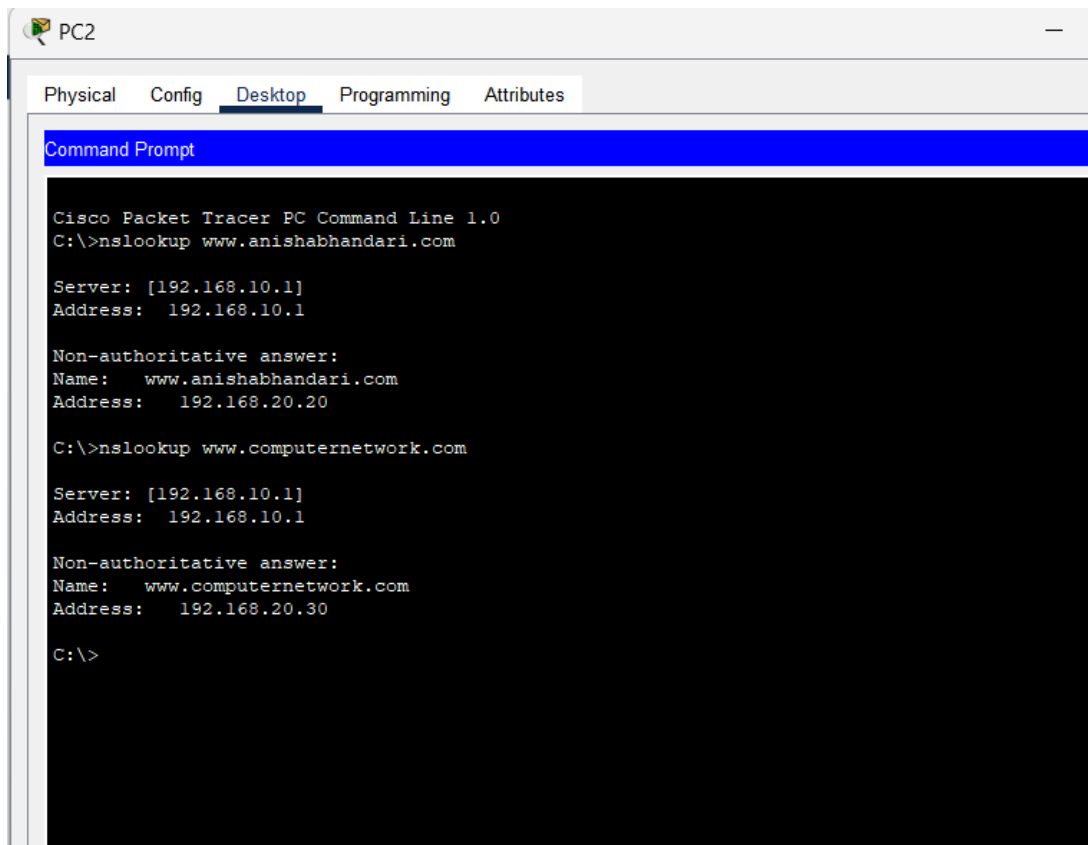
Scenario 0

New

Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic
●	Successful	Server0	PC1	ICMP	Blue	0.000	N
●	Successful	Server0	PC2	ICMP	Green	0.000	N
●	Successful	PC0	PC1	ICMP	Yellow	0.000	N



Q) Capture the DNS packet on wireshark.

