CISCO PACKET TRACER

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Lab 1: Creating a Peer-to-Peer Network

PC-PT
PC1

PC-PT
PC2

- Equipment needed
  - 2 Workstations
  - 1 Ethernet cable

- Identify the cable (straight through or cross over) and connect the workstations I.e; PC1 and PC2.

- Configure the layer 3 address to the workstations
  - PC1-- 192.168.1.1/24
  - PC2-- 192.168.1.2/24

- Verify Connectivity (ping command)
  - Ping PC2 from PC1.

Lab 2: Implement the LAN Topologies

Topology 1: Star Topology

PC-PT
Host1

PC-PT
Host2

2960-24TT
Switch1

Laptop-PT
Host3

Server-PT
Server1

Device	Interface	IPv4 Address	Subnet Mask
Host1	NIC	192.168.10.101	255.255.255.0
Host2	NIC	192.168.10.102	255.255.255.0
Host3	NIC	192.168.10.103	255.255.255.0
Server1	NIC	192.168.10.104	255.255.255.0

- Design the given topology.
- Configure the layer 3 address to all nodes according to addressing table.
- From the command prompt on each node, run the ping test and write the output.
  - Can Host1 ping Server1?
  - Can Server1 ping Host3 and Host2?

Topology 2: Bus Topology

Device	Interface	IPv4 Address	Subnet Mask	Switch
Host1	NIC	192.168.11.101	255.255.255.0	Switch1
Host2	NIC	192.168.11.102	255.255.255.0	Switch2
Host3	NIC	192.168.11.103	255.255.255.0	Switch3
Server1	NIC	192.168.11.104	255.255.255.0	Switch4

- Design the given topology.
- Assign the IP address to all nodes according to addressing table.
- From the command prompt on each node, run the ping test and write the output.
  - Can Host1 ping Server1?
  - Can Server1 ping Host3 and Host2?

Topology 3: Ring Topology
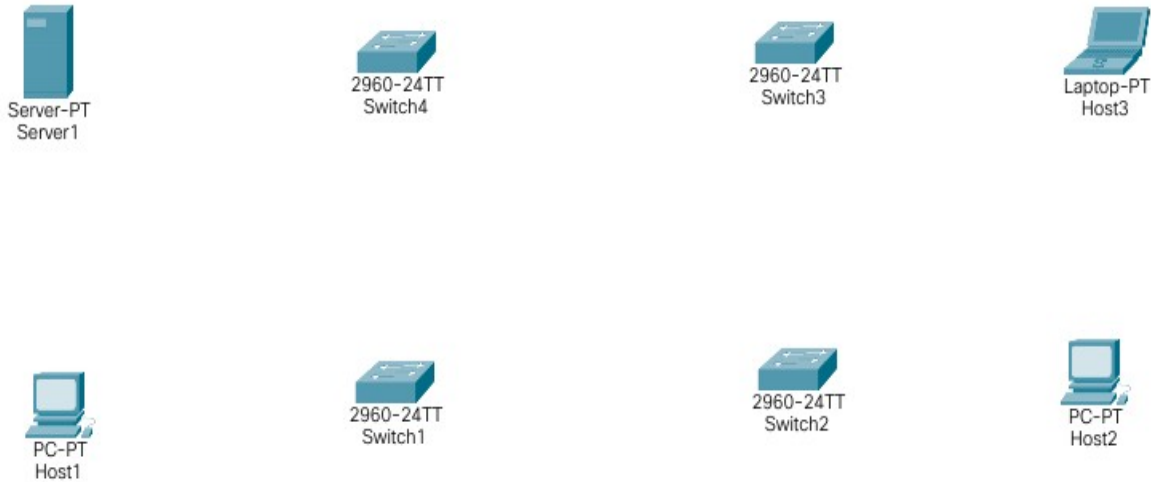
Device	Interface	IPv4 Address	Subnet Mask	Switch
Host1	NIC	192.168.100.101	255.255.255.0	Switch1
Host2	NIC	192.168.100.102	255.255.255.0	Switch2
Host3	NIC	192.168.100.103	255.255.255.0	Switch3
Server1	NIC	192.168.100.104	255.255.255.0	Switch4

- Design the given topology.
- Assign the IP address to all nodes according to addressing table.
- From the command prompt on each node, run the ping test and write the output.
  - Can Host1 ping Host3?
  - Can Server1 ping Host2?