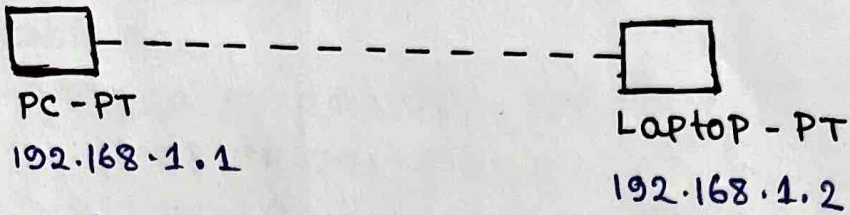


1. Establish Peer to Peer network.

- • click end devices, select generic, click on workspace.
- For another device same procedure.
- Connect 2 same type of devices use ethernet crossover cable.
- cable - crossover (same device)
- click on end device - select.
- Fast Ethernet() Port - go to next pc connect to same port.
- click on pc - Physical - see CPU Port after bottom scroll.
- Next step - assign IP add to pc.
- Go to PC0 option - Desktop - IP configuration.
write IP Add - 10.10.10.1
Subnetmask - 255.0.0.0
- use label (right hand side of workspace) for writing IP Add. of each pc.
- Go to PC0 - Desktop - Command prompt.
PC > ipconfig - gives IP Add. of a computer.
→ see physical address.
- Go to PC0 - desktop - Command Prompt.
PC > ipconfig /all
Physical address — as separator
MAC address — as separator (windows)
- To see ~~whether~~ whether computer-reachable?
Send 4 packets from PC0 to PC1. PC1 will acknowledge receipt of packets.
- Go to command prompt of PC0.
PC > ping 10.10.10.2



PC > ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data :

REPLY from 192.168.1.2 : bytes=32 time=20ms TTL=120
 REPLY from 192.168.1.2 : bytes=32 time=0ms TTL=120
 REPLY from 192.168.1.2 : bytes=32 time=0ms TTL=120
 REPLY from 192.168.1.2 : bytes=32 time=1ms TTL=120

Ping statistics for 192.168.1.2 :

Packets : sent=4, Received=4, Lost=0 (0% Loss),
 Approximate round trip times in milli-second :
 Minimum=0ms, Maximum=20ms, Average=5ms.

2. Establish a star network.

→ • click end devices, select generic, click on workspace.

• For another devices same procedure.

• Now click on Hubs, Generic Hub-PT, click on workspace.

• Connect PC's with Hub-PT use ethernet straight cable.

• cable - straight through.

• click on end devices - select.

• Fast Ethernet () Port - go to Hub connect to Port 0

• For other devices do the same procedure on Hub free ports.

• click on PC - Physical - see CPU port after bottom scroll.

• Next step - Assign IP address to PC's.

• Go to PC1 option - Desktop - IP configuration.
 write IP address - 192.168.1.1

subnet mask - 255.255.255.0

- use table for waiting for waiting IP address of each PC.

- For PC2 IP address - 192.168.1.2

PC3 IP address - 192.168.1.3

PC4 IP address - 192.168.1.4

PC5 IP address - 192.168.1.5

→ To see whether computer - reachable 2, send 4 packets from PC1 to PC5. PC5 will acknowledge receipt of packets.

- Go to command prompt of PC1.

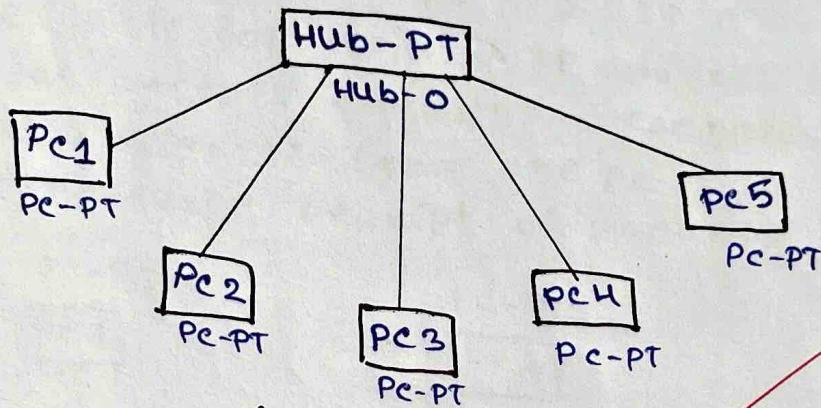


Fig:- STAR TOPOLOGY

PC > ping 192.168.1.5

pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes = 32 time = 1ms TTL = 128

Reply from 192.168.1.5: bytes = 32 time = 1ms TTL = 128

Reply from 192.168.1.5: bytes = 32 time = 1ms TTL = 128

Reply from 192.168.1.5: bytes = 32 time = 1ms TTL = 128

ping statistics for 192.168.1.5:

Packets: sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 1ms, Average = 1ms.

3. Establish BUS Topology network.

→ • click end devices, select generic, click on workspace.

- For another device same procedure.

- click switches, select 2960, click on work-space.