

Lab 2: Implementation of Network Topologies

● Procedure:

1. Open Packet Tracer:

- Launch Cisco Packet Tracer on your computer.

2. Implement a Bus Topology:

- Drag three computers onto the workspace.
- Connect them using a single backbone cable (Coaxial Cable).

3. Implement a Star Topology:

- Drag three computers and a switch onto the workspace.
- Connect each computer to the switch using straight-through Ethernet cables.

4. Implement a Ring Topology:

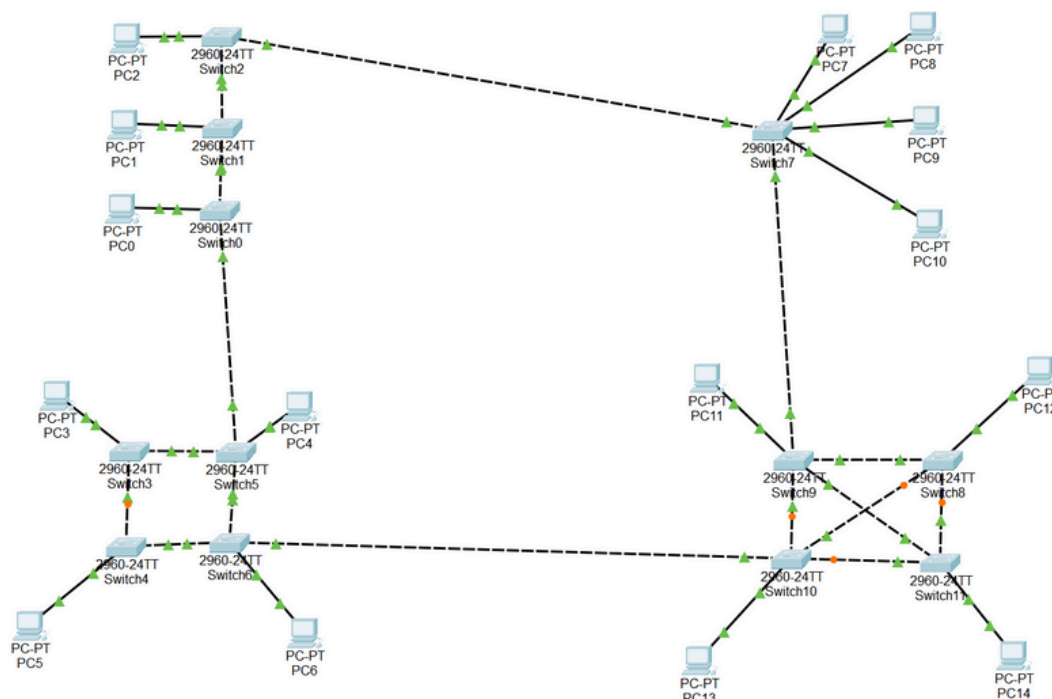
- Drag three computers onto the workspace.
- Connect them in a circular manner using crossover cables.

5. Implement a Mesh Topology:

- Drag three computers onto the workspace.
- Connect each computer to every other computer using crossover cables.

6. Test Connectivity:

- For each topology, assign IP addresses to the computers.
- Use the ping command to test connectivity between all computers.



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.11

Pinging 192.168.0.11 with 32 bytes of data:

Reply from 192.168.0.11: bytes=32 time=18ms TTL=128
Reply from 192.168.0.11: bytes=32 time=4ms TTL=128
Reply from 192.168.0.11: bytes=32 time=3ms TTL=128
Reply from 192.168.0.11: bytes=32 time=11ms TTL=128

Ping statistics for 192.168.0.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 18ms, Average = 9ms

C:\>|
```