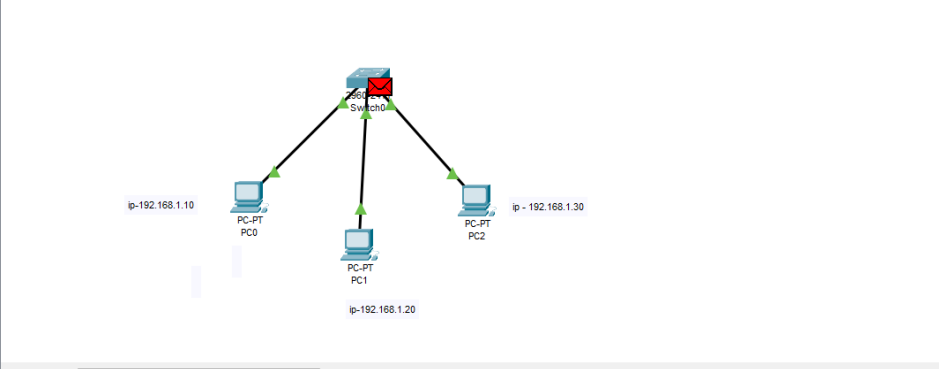


Q5) Create a simple LAN setup with two Linux machines connected via a switch. Ping from one machine to the other. If it fails, use ifconfig to ensure the IP addresses are configured correctly. Use traceroute to identify where the packets are being dropped if the ping fails.



Simulation Panel

Vis.	Time(sec)	Last Device
814.558	Switch0	
814.825	--	
814.826	Switch0	
814.842	--	

Reset Simulation ☒ Constant Delay Captured to: 814.842 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, Bluetooth, CAPWAP, CDP, DHCPv6, DTP, EAPOL, EIGRPv6, FTP, H.323, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IOT, IOTCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPFv6, PAgP, POP3, PPP, PPPoE, FTP, RADIUS, REP, RIPv2, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

PC0

Physical Config **Desktop** Programming Attributes

Command Prompt

```
C:\>ipconfig /all

FastEthernet0 Connection: (default port)

Connection-specific DNS Suffix...:
Physical Address. . . . .: 0004.9ADD.A075
Link-local IPv6 Address . . . . .: FE80::204:9AFF:FEDD:A075
IPv6 Address. . . . .: ::
IPv4 Address. . . . .: 192.168.1.10
Subnet Mask . . . . .: 255.255.255.0
Default Gateway . . . . .: ::
0.0.0.0
DHCP Servers . . . . .: 0.0.0.0
DHCPv6 IAID . . . . .:
DHCPv6 Client DUID. . . . .: 00-01-00-01-34-E8-B0-31-00-04-9A-DD-A0-75
DNS Servers . . . . .: ::
0.0.0.0

Bluetooth Connection:

Connection-specific DNS Suffix...:
Physical Address. . . . .: 0004.9A45.2055
Link-local IPv6 Address . . . . .: ::

C:\>ping 192.168.1.20

Pinging 192.168.1.20 with 32 bytes of data:

Reply from 192.168.1.20: bytes=32 time=4ms TTL=128
Reply from 192.168.1.20: bytes=32 time=4ms TTL=128
Reply from 192.168.1.20: bytes=32 time=4ms TTL=128
Reply from 192.168.1.20: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.1.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 4ms, Average = 4ms

C:\>
```

Command Prompt

```
C:\>ipconfig /all
```

```
FastEthernet0 Connection:(default port)
```

```
Connection-specific DNS Suffix...:
```

```
Physical Address.....: 000A.F34E.6D8A
```

```
Link-local IPv6 Address.....: FE80::20A:F3FF:FE4E:6D8A
```

```
IPv6 Address.....: ::
```

```
IPv4 Address.....: 192.168.1.30
```

```
Subnet Mask.....: 255.255.255.0
```

```
Default Gateway.....: ::
```

```
0.0.0.0
```

```
DHCP Servers.....: 0.0.0.0
```

```
DHCPv6 IAID.....:
```

```
DHCPv6 Client DUID.....: 00-01-00-01-4A-77-56-4B-00-0A-F3-4E-6D-8A
```

```
DNS Servers.....: ::
```

```
0.0.0.0
```

```
Bluetooth Connection:
```

```
Connection-specific DNS Suffix...:
```

```
Physical Address.....: 0050.0F8E.52A7
```

```
Link-local IPv6 Address.....: ::
```

```
IPv6 Address.....: ::
```

```
IPv4 Address.....: 0.0.0.0
```

```
Subnet Mask.....: 0.0.0.0
```

```
Default Gateway.....: ::
```

```
0.0.0.0
```

```
C:\>ping 192.168.1.30
```

```
Pinging 192.168.1.30 with 32 bytes of data:
```

```
Reply from 192.168.1.30: bytes=32 time=4ms TTL=128
```

```
Reply from 192.168.1.30: bytes=32 time<1ms TTL=128
```

```
Reply from 192.168.1.30: bytes=32 time<1ms TTL=128
```

```
Reply from 192.168.1.30: bytes=32 time=1ms TTL=128
```

```
Ping statistics for 192.168.1.30:
```

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