cisco packer tracer.

packet tracer is a medium Fedility, Network capable, Simulation-based learning environment for networking novices to design, configure and toubleshoot computer networks at a CCNA-level of complexity.

protocols -

LAN: Ethernet (including CSMA/CD\*), 802.11 a/b/g/n Wireless\*, PPPOF

Switching: VLANS, 802. 19, tounking, VTP.

TCP/IP: HTTPS, DHCP, Telnet, IPV4\*, TPV6\*

Routing: Static, Dynamic, VLAN Routing.

Others: ACIS (Standard, extended and named), CDP, NAT ( Static, Dynamic, inside loutside and Overland), NATV6, Netflow.

WAN: HOLC, SLARP, PPP\* and Frame Relay\*. Security: IPSEE, CIRE, TSAKMP, RADIUS etc.

QOS: Layer 2 QOS, Layer 3 Diffson QOS, FIFO Hardware queues etc.

Logical Workspace -

Network topology creation.

Devices: Generic, real and Modulur with customizable

images.

Routers, Switches, hosts, hubs, bridges, Wireless accessft, Wireless router, clouds, ASA and DSL Cable moderns. Device interconnection through a variety of networking media

Multiuser remote networks.

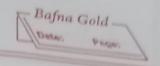
Physical Workspace Network topology creation. Hierarchy Of device, Wiring closet, Building, city and intercity views. Strictwie Cabling: Ethernet cable length display and length limitation connectivity enforcement. Images for devices loading and Scaling for user created graphics Wireless association Management Realtime Mode Realtime protocol Updates. Medium Fidelity Cisco IOS CLI Configuration of muters and Switches Menry based configuration of DHCP, DNS, HTTP etc.

Simulation Mode Packet Animation. Global event list

User défined multiple packet Scenarios.

Extensine File Saving options.

Multilevel Activity Wizard for authority
Automatically Scored Practice activities and formative assessment.



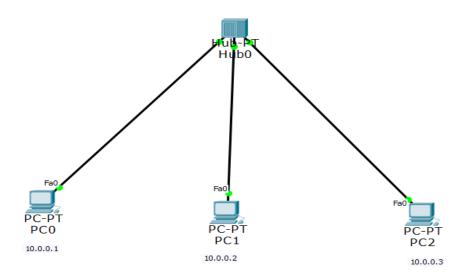
# Connections

- 1. console console connection can be made by PCS and
- 2. Copper Straight through This cable type is the Standa -rd Ethernet media for connecting bis devices that Operates at OSI layer.
- 3. Copper crossover This cable type is the ethernet media for connecting blw devices that Operates at some OSI layer.
- 4. Fiber Fiber media is used to make connections blu Fiber posts.
- 5. Phone Phone line connections can only be made blu devices with modern post.
- 6. Coaxial coaxial media is used to make Connections
  between coaxial posts such as a cable modern

  Connected to a packet tracer cloud.
- For WAN links, must be connected between serial ports.
- 8. Octal The 8-post asynchronous cable provide the high density connector on one end and 8 RT-85 plug on the Other.

han :	Create a topology and simulate sending a Simple PDU from source to destination using tub and switch as connecting devices and demonstrate ping Message.
he Harda	Harb Switch
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17	blu Fiberparts
PC-PT	PC-PT PC-PT
	me od PC2 nas southanne PC3 mil anody - anody ?
	10.0.0.2
70 2 0 2 0 1	
ennechous	tueb 4/12 ports Swith
	It is a broadcast device 1. This point to point device.
	It Operates at physical layer 2. It operates a datalink layer.
3.	It is not an intelligent device 3. It is an Intelligent device
4.	It simply broadcost the 4. It uses the swhiching
12000	Incoming packet. table to find correct destinati
5.	It can be used as a repeater, S. It cannot be used as a rep
	Not Very costly 6. Very costly.
7.	Not a Sophisticated device 7. It is Sophisticated.
10 har 8	Transmission mode is 8. Transmission davis le

### Connection between Hub and PCs:-



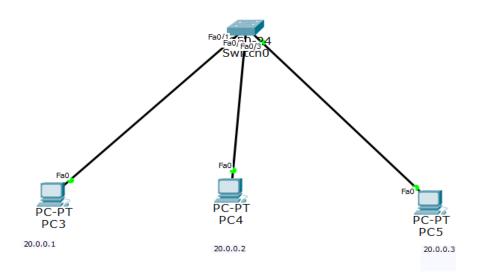
## Output:-

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=19ms TTL=128
Reply from 10.0.0.1: bytes=32 time=13ms TTL=128 Reply from 10.0.0.1: bytes=32 time=19ms TTL=128 Reply from 10.0.0.1: bytes=32 time=1ms TTL=128
Ping statistics for 10.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 19ms, Average = 13ms
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128 Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 0ms, Average = 0ms
PC>ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data:
Reply from 10.0.0.3: bytes=32 time=1ms TTL=128
Reply from 10.0.0.3: bytes=32 time=1ms TTL=128 Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Ping statistics for 10.0.0.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

### Connection between Hub and PCs:-



## Output:-

```
Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 20.0.0.1: bytes=32 time=5ms TTL=128
Reply from 20.0.0.1: bytes=32 time=5ms TTL=128
Reply from 20.0.0.1: bytes=32 time=4ms TTL=128
Reply from 20.0.0.1: bytes=32 time=14ms TTL=128
Ping statistics for 20.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 14ms, Average = 7ms
PC>ping 20.0.0.2
Pinging 20.0.0.2 with 32 bytes of data:
Reply from 20.0.0.2: bytes=32 time=0ms TTL=128
Reply from 20.0.0.2: bytes=32 time=0ms TTL=128
Reply from 20.0.0.2: bytes=32 time=1ms TTL=128
Reply from 20.0.0.2: bytes=32 time=0ms TTL=128
Ping statistics for 20.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
PC> ping 20.0.0.3
Pinging 20.0.0.3 with 32 bytes of data:
Reply from 20.0.0.3: bytes=32 time=0ms TTL=128
Ping statistics for 20.0.0.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```