Exp 1 - Know Your Devices

Aim:

To familiarize with network devices

Router: A **router** is a network device that routes packets from one network to another. It is usually connected to two or more different networks. When a packet comes to a router port, the router reads the address information in the packet to determine out which port the packet will be sent. The Cisco Packet Tracer allows us to configure a virtual Router as given in Fig ().

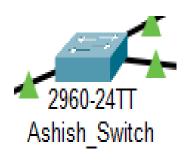




Device Name: Ashish Device Model: 1941 Hostname: Router VLAN IP Address IPv6 Address MAC Address Link GigabitEthernet0/0 <not set> 0001.96BD.2B01 <not set> GigabitEthernet0/1 Down <not set> <not set> 0001.96BD.2B02 Seria10/0/0 Down <not set> <not set> <not set> Serial0/0/1 <not set> Down <not set> <not set> FastEthernet0/1/0 00D0.5888.8D01 Ūρ <not set> FastEthernet0/1/1 <not set> 00D0.5888.8D02 __ FastEthernet0/1/2 ďρ <not set> 0000.5888.8003 FastEthernet0/1/3 00D0.5888.8D04 <not set> Up <not set> <not set> OODO.BCDE.9C8C

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router0

2) Switches: A switch is a network device that can be used to connect multiple devices within a network, enabling them to communicate with each other. These devices are generally used to design a network infrastructure. A switch generally consists of a hub of ports to which devices can be connected. The Cisco Packet Tracer allows us to configure a virtual Switch as given in Fig ().





Custom Device Model	: 2960	IOS15		
Hostname: Switch				
Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1		00D0.9718.0A01
FastEthernet0/2	Down	1		00D0.9718.0A02
FastEthernet0/3	Up	1		00D0.9718.0A03
FastEthernet0/4	Down	1		00D0.9718.0A04
FastEthernet0/5	Down	1		00D0.9718.0A05
FastEthernet0/6	Down	1		00D0.9718.0A06
FastEthernet0/7	Down	1		00D0.9718.0A07
FastEthernet0/8	Down	1		00D0.9718.0A08
FastEthernet0/9	Down	1		00D0.9718.0A09
FastEthernet0/10	Down	1		00D0.9718.0A0A
FastEthernet0/11	Down	1		00D0.9718.0A0B
FastEthernet0/12	Down	1		00D0.9718.0A0C
FastEthernet0/13	Down	1		00D0.9718.0A0D
FastEthernet0/14	Down	1		00D0.9718.0A0E
FastEthernet0/15	Down	1		00D0.9718.0A0F
FastEthernet0/16	Down	1		00D0.9718.0A10
FastEthernet0/17	Down	1		00D0.9718.0A11
FastEthernet0/18	Down	1		00D0.9718.0A12
FastEthernet0/19	Up	1		00D0.9718.0A13
FastEthernet0/20	Down	1		00D0.9718.0A14
FastEthernet0/21	Down	1		00D0.9718.0A15
FastEthernet0/22	Down	1		00D0.9718.0A16
FastEthernet0/23	Down	1		00D0.9718.0A17
FastEthernet0/24	Down	1		00D0.9718.0A18
GigabitEthernet0/1	Down	1		00D0.9718.0A19
GigabitEthernet0/2	Down	1		00D0.9718.0A1A
7lan1	Down	1	<not set=""></not>	0060.702A.411E

Wires: In a network, common wires that can be used for connection are copper wires or Optic Fiber Cables. In a LAN environment, Copper Wires are generally used to connect devices as it offers a cheap alternative to Optic Fiber Cables. However, for long distances where the signal loss is to be kept minimum an Optical Fiber Cable is used. The Cisco Packet Tracer allows us to configure wires to connect devices, as given in Fig ().

