

Internet working with Routers & Wireless Networks

Aim:

- 1) Design & configure a simple internetwork using a router and 2 PCs (wired)
- 2) Design & configure a internetwork using a wireless router, DHCP server & internet cloud.

Part A : Wired Internetwork with Router

Procedure:

1) Router Configuration (Router 1)

Router > enable

Router # config t

Router (config) # interface FastEthernet 0/0

Router (config-if) # ip address 192.168.10.1
255.255.255.0

Router (config-if) # no shutdown

Router (config-if) # interface FastEthernet 0/1

Router (config-if) # ip address 192.168.20.1
255.255.255.0

Router (config-if) # shutdown .

2) PC Configuration

PC0 : IP : 192.168.10.2 . Subnet : 255.255.255.0

Gateway : 192.168.10.1

PC1 : IP : 192.168.20.2 , Subnet : 255.255.255.0,
Gateway : 192.168.20.1

3) Connect PCs to Router using Copper straight through cables.

PC0 → Fast Ethernet 0/0 of Router 1

PC1 → Fast Ethernet 0/1 of Router 1

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Result:
PCO can successfully ping PCI using a
simple PDU Network Connectivity verified.