

Device

21 D

21 D

color view

MP □ 0-000

ing
d d/p

EX: 10 b)
date: 25/9/24

Internetworking with
wireless router DHCP
server and Internet
cloud.

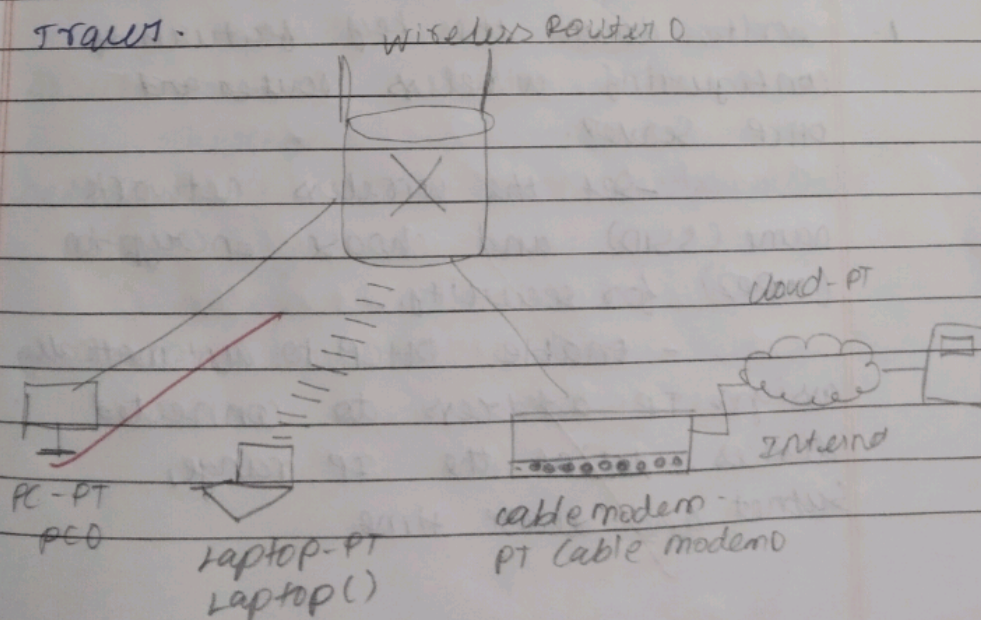
Aim:

to design and configure an
internetwork with wireless router, DHCP
server & Internet cloud.

Procedure:

1. Build a simple network in
the logical topology workspace using
wireless router, PC, laptop, cable modem,
Internet cloud and server-PT.
2. configure the Network devices
3. Test connectivity between network
devices.

4. Save the file and used Packet
Tracer.



Output:

to test connectivity to the
cisco.com server from the PC.

In command prompt of PC:
Ping cisco.com. (These 4 replies
need to come).

Pinging 208.67.220.220 with 32 bytes
of data.

Reply from 208.67.220.220: bytes=32
time=6ms TTL=127

Reply from 208.67.220.220: bytes=32
time=10ms TTL=127

Reply from 208.67.220.220: bytes=32
time=10ms TTL=127

Student observation:

1. write down the key features of
configuring wireless Router and
DHCP Server.

- Set the wireless network
name (SSID) and choose encryption
(WPA2) for security.

- Enable DHCP to automatically
assign IP address to connected
devices, define the IP range,
subnet and lease time.

activity to the
from the PC.

prompt of PC:
(There 4 replies)

220 with 32 bytes

220.220: bytes=
L=127

220.220: bytes=
TTL=127

0.220: bytes=32
127

features of
Router and

network
encryption

to automatically
connected
range,

- Select with channel to
minimize interference for signal
quality.

- Assign a static IP to the router
to server as the network gateway
for both wired and wireless clients.

2. What is the significance of DHCP
server in internetworking

It is essential because it
automatically assigns IP address to
devices simplifying network management
and preventing address conflicts.
It enables efficient IP use, reduces
configuration errors, and support mobile
devices as they move across networks.

Result:

Therefore, the internetwork
between the devices are implemented.

[Signature]