iv] Redding (downloading) the file named hello.txt present in FTP server from PC1 using get 2.txt command & verifying this file transfer using dir command

Experiment No - 12

Aim → To configure (DHCP) (~~Domain~~ Dynamic Host configuration protocol on Router in cisco packet tracer

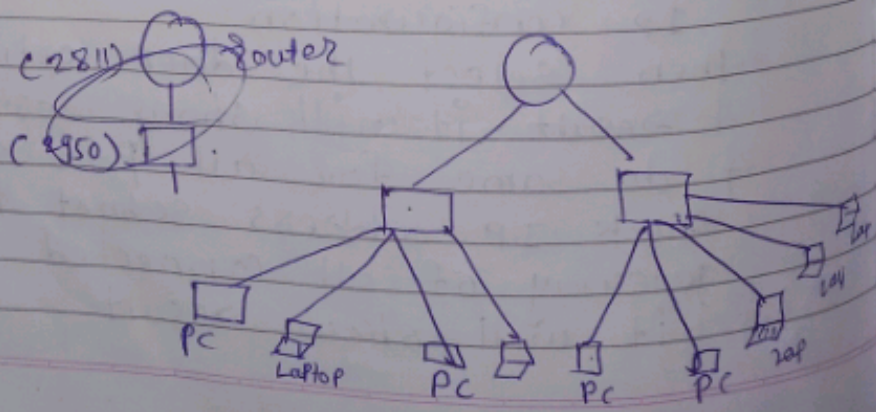
Objective → To assign dynamic IP address to host system deployed in the Network

Procedure →

step 1: select the devices given below.

S.No.	Device Name	Qty.
1	Pc	5
2	Laptop	4
3	Switch (2950T)	2
4	Router (2811)	1

step 2: A Network Topology is created in the cisco packet Tracer which include a 1 Router, 2 switch & 5 PC & 4 Laptop



steps:
i 5
ii]
ii)
step 6:
i)
ii)
iii]
iv)
step 7
ii)
iii

Step 3: click on router & open CLI co.. then configure router are as follows.

```
Router > enable
Router# config t
Router(config-if)# ip address 192.168.1.1 25
Router(config)# interface Fo/0
Router(config-if)# ip address 192.168.1.1 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# do write Memory
Router(config-if)# ip dhcp Pool net1
Router(config-dhcp-config)# Network 192.168.1.1
Router(dhcp-con                    255.255.255.0
Router(dhcp-config)# exit
Router(config)# interface Fo/1
Router(config-if)# ip address 192.168.2.1 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# do write Memory
Router(config-if)# ip dhcp Pool net2
Router(dhcp-config)# network 192.168.2.1 255.255.255.0
Router(config-dhcp-config)# exit
Router(config)# exit
```

Step 4: after router configuration click on Pc1 go to the dekstop & click on IP configuration then select the dhcp option & result it will show result & do same for all pc's & laptop & then check IP address, subnet Mask & default gateway of all connected devices it will show result

Experiment - 13

Aim → To configure RIP (Routing information protocol) using cisco packet Tracer

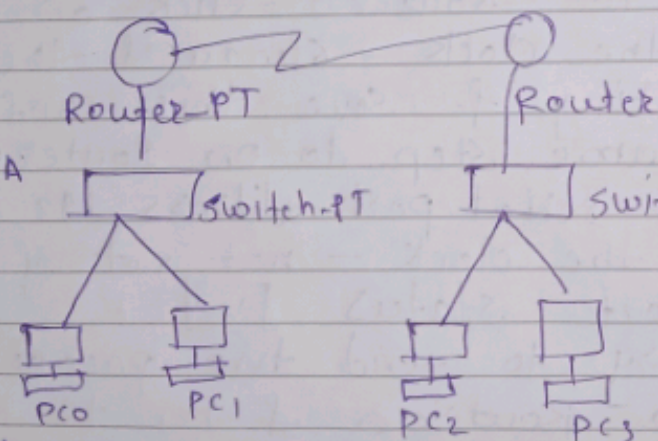
objective → ① configure routers using basic Interface configuration commands
② Enable RIP
③ verify the RIP configuration

procedure →

step1 : Select devices given below

S.No.	Device Name	quantity
1	PC	4
2	Switch-PT	2
3	Router-PT	2

step2 : A Network Topology is created in the ciscoo packet Tracer



step3: Now we configure PC by assigning IP address

IP address table

S.No.	Device	IP address	default gateway
1	PC0	192.168.1.2	192.168.1.1
2	PC1	192.168.1.3	192.168.1.1
3	PC2	192.168.2.2	192.168.2.1
4	PC3	192.168.2.3	192.168.2.1

Step 4: then configure Router0 so click on router & configure it's Interface.
So go to the router & click on config ~~CLI~~ & configure fastethernet 0/0 by IP-address - 192.168.1.1 & on port ☑
Then same on ~~Interface~~ Router1 go to the config of Router1 & then select fastethernet 0/1 by & assign IP address - 192.168.2.1 & on port status ☑

Step5: configure ~~serial~~ the IP address in serial ports according to ~~IP~~ given table.

Device	~~tabteport~~	IP address
Router0	Serial 2/0	192.168.3.1
Router1	Serial 2/0	192.168.3.2

Step6: after Assigning IP address to serial port
① then go to ~~Router0~~ click on ~~setting~~ set the clock - 64000 & then click on setting & save this configuration
② Then same step do on Router1 Assign serial port address 192.168.3.2 & set the clock - not set & ~~D~~ on the port status ☑

Step7: Now try to send the packet from Pc0 to Router0 & Pc1 to Router1

In this step it work successful then try to send the packet from Pc0 to Pc2
it will show the result failed ~~because they~~ so we use RIP

step 8: ① click on Router0 & go to the Config
& select RIP
then add all Three different Network
192.168.1.0 add
192.168.2.0 add
192.168.3.0 add
click on add again go to setting
& save this

② Same thing do on router1. So goto
the config & click on RIP
then add all Three Network
192.168.1.0 add
192.168.2.0 add
192.168.3.0 add.
then go to the setting & save this

step 9: Now try to send the packet
from PC0 to PC2
In this step it work succesful
then try to send packet from all
routs which are available in
the Network. all work successful.

step 10: Start the simmulation.
In this step all packets send
successfully & send ~~Ackno~~ Aknowledgment
to sender.

Experiment - 14

Aim → Confi Static routing configuration in cisco packet tracer.

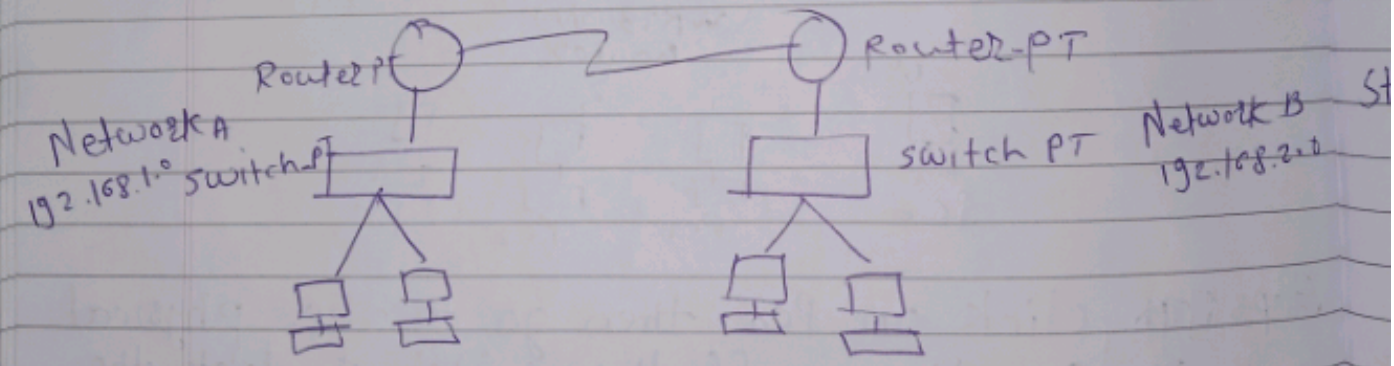
objective → Configuring Static Routing with 2 routers of 2 switch using CLI command.

procedure →

step1: select the devices given below

S.No	Device Name	quantity
1	PC	4
2	switch-PT	2
3	Router-PT	2

step2: A Network topology is created in the cisco packet tracer.



step3: Now we configure PC by assigning IP address

IP address table.

S.No.	Device	IP address	default gateway
1	PC0	192.168.1.2	192.168.1.1
2	PC1	192.168.1.3	192.168.1.1
3	PC2	192.168.2.2	192.168.2.1
4	PC3	192.168.2.3	192.168.2.1

Step4: Configure router 0 In static way
click on router & open CLI & start configuration.

Router> enable
Router# Config t
Router(config)# interface fo/o
Router(config-if)# ip address 192.168.1.1 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# exit
Router(config)# interface serial 2/0
Router(config-if)# IP ~~o interface~~ address
10.0.0.1 255.0.0.0
Router(config-if)# no shutdown
Router(config-if)# bandwidth 64
Router(config-if)# exit
Router(config)# do Show IP route
Router(config)# ip route 192.168.2.0 255.255.255.0 10.0.0.2
Router(config)# do show IP route

Step5: do same things on router1 click on router1 & open CLI & start configuration.

Router> enable
Router# Config t
Router(config)# interface fo/o
Router(config-if)# ip address 192.168.2.1 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# exit
Router(config)# interface serial 2/0
Router(config-if)# ip address 10.0.0.2 255.0.0.0
Router(config-if)# no shutdown
Router(config-if)# ~~bandw~~ exit
Router(config)# do show IP route
Router(config)# ip route 192.168.1.0 255.255.255.0 10.0.0.1
Router(config)# do show IP route

to sender.

step 6 then try to send packet from Pc_0 to Pc_1
Pc_2, Pc_3 → router 0, → router 1
it will show → result succesfully.

Experiment - 15

Aim → Wireless Router configuration in cisco packet tracer.

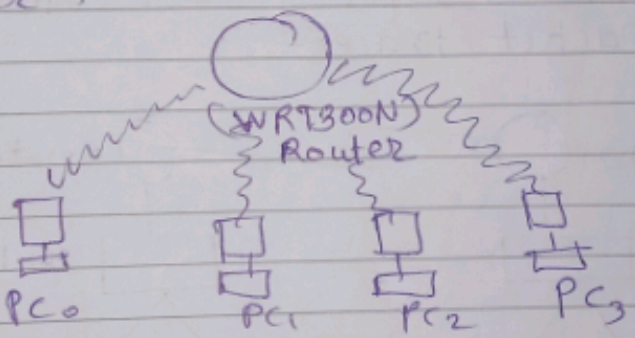
Objective ① To configure router for wireless communication
② To configure all connected wireless devices & check communication betn router & all connected devices

procedure → select the devices given below.

step 1 ;

S.No.	Device Name	Quantity
1	PC0	4
2	Wireless Router (WRT300N)	1

step2 A Network topology is created in cisco packet tracer.



Steps i) click on PC0 then go to the physical mode. then off the switch & delet the Default module & Drag the new model WRT300N & drop this model on deleted place. then again on the button.

ii) do same process on PC1, PC2, PC3

Step4] then Assign IP address to all PC's so click on PC0 then select the DHCP option. IP address, subnet Mask, & default gateway's are assign automatically.

do same ~~process~~ steps for Pc_1, P_2, P_3

Step5] i) click on Pco then go to web browser in URL type - Router IP address 192.168.0.1 then ↵ Enter & give UserName - admin & password - admin then click ok

ii) then click on wireless & set the Network Name - MyNetwork & save this changes

Step6] iii) click on wireless Router0 then go to ~~GUI~~ config Mode of Router. then select the wireless option.

ii) then click on WEP Authentication & Assign Key - 0123456789

Step7 i) click on Pco then go to desktop & select PC wireless option then open it. click on connect option then Refresh. again click on connect & Assign ~~IP addres~~ WEP Key - 0123456789 click on connect

ii) do same step for Pc_1, Pc_2, Pc_3

Step8] then wireless configuration is ready for communication.

So check the it work properly or not by using ping command then it will show result.

Aim →

objectiv

proced
step

step2

step3

ii
Step