

Exp: 9

CISCO PACKET TRACER

Date: 20-9-2024

Aim:

Implementation of subnetting in cisco packet tracer similar

Procedure:

1) Create the network using switches, routers and PCs

2) The IP address will be as follows:

→ Router R,

* Gigabit Ethernet 0/0: 192.168.1.1

* Gigabit Ethernet 0/1: 192.168.2.1

[Also enable the 'on' option for both gig ethernet on the page]

→ Switch B1

* no ip

→ LAN-1

* PC0

IP Address: 192.168.1.11

Gateway: 192.168.1.1

* PC1

IP address: 192.168.1.12

Gateway: 192.168.1.1

* PC 2

IP : 192.168.1.13

Gateway : 192.168.1.1

* PC 3

IP : 192.168.1.14

Gateway : 192.168.1.1

* PC 4

IP : 192.168.1.15

Gateway : 192.168.1.1

→ Switch S2

* NO IP

→ LAN 3

* PC 5

IP : 192.168.2.11

Gateway : 192.168.2.1

* PC 6

IP : 192.168.2.12

Gateway : 192.168.2.1

* PC 7

IP : 192.168.2.13

Gateway : 192.168.2.1

* PC 8

IP : 192.168.2.14

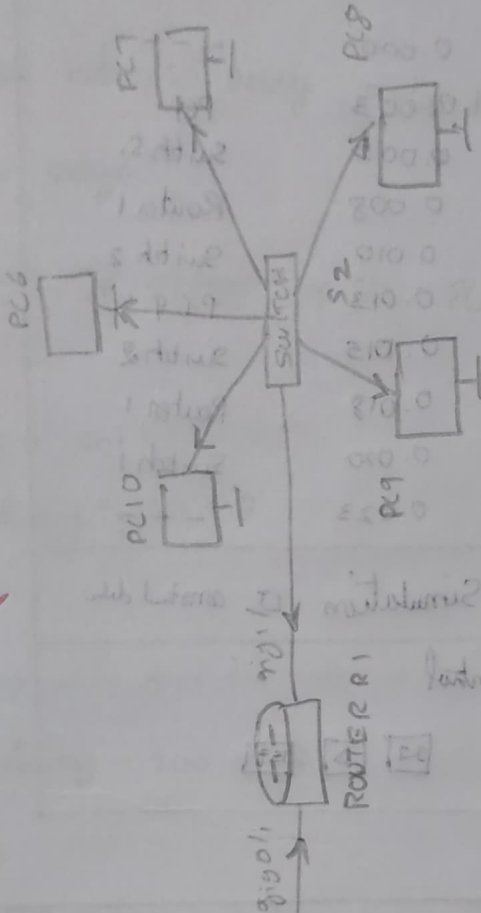
Gateway : 192.168.2.1

*PC 9

IP : 192.168.2.15

Gateway : 192.168.2.1

Diagrammatic Representation :-



~~Off for 100~~

Output:-

Now let assume the sender is PC1 and receive PC9
While simulating & observing we get the simulator panel

Simulation Panel		
Event List		
Vis	time	destination
	0.000	---
	0.003	PC1
	0.005	Switch S1
	0.008	Router 1
	0.010	Switch 2
	0.013	PC9
	0.015	Switch 2
	0.018	Router 1
	0.020	Switch 1
	0.023	---
Reset Simulation <input type="checkbox"/> constant delay		
Play control		
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		

File	Last status	Source	Destination	Type	Color	Time (sec)	Priority	num
	Successful	PC1	PC9	ICMP		0.000	N	0

Result:-

Thus, implementation of subnetting in Cisco has been implemented successfully. (classful).