

CN - 1 BacMesh Topology

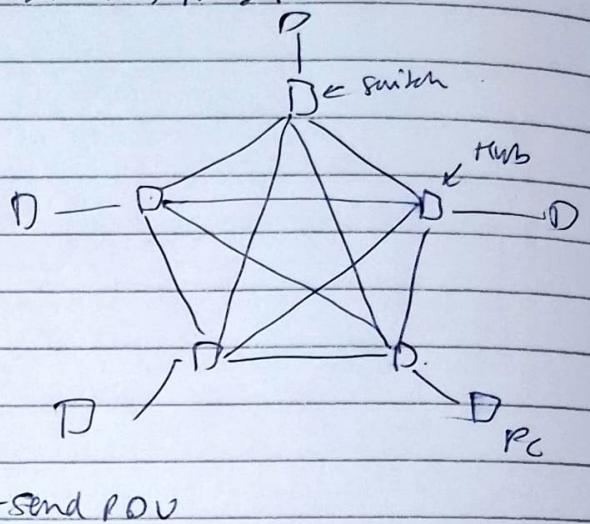
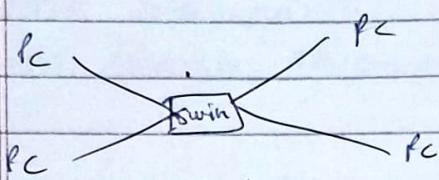
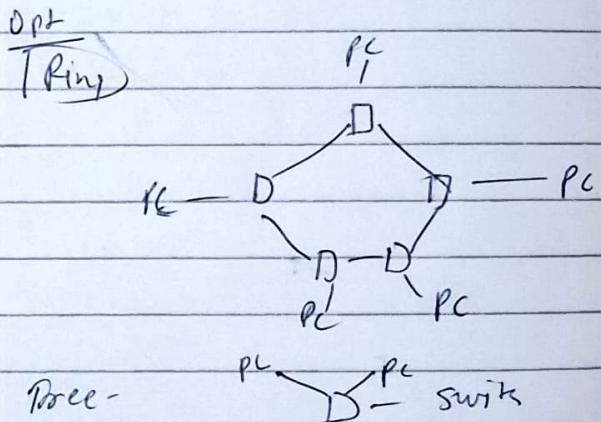
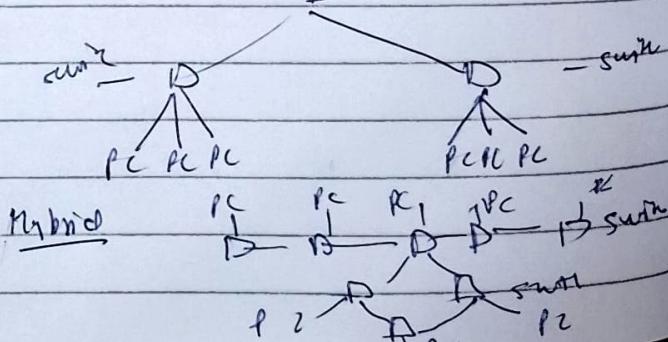
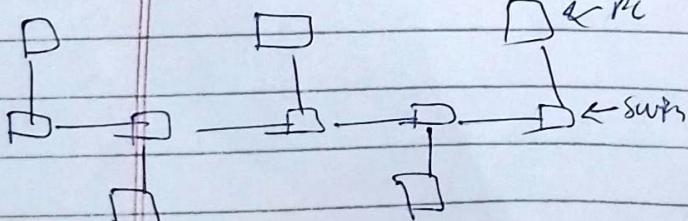
Star Topo

Step 1:- Take one switch - IT  
4 pcStep 1:- Take 5 hub - PT or 5 switch PT  
& 5 pc.2<sup>o</sup>- Assign IP to PC

click PC → Desktop → IP

write - 10.0.0.1 or

192.168.1.1

similarly for PC<sub>1</sub>, PC<sub>2</sub>, PC<sub>3</sub>2<sup>o</sup>- Assign IP3<sup>o</sup>- Take POU (mail) and  
forward PC to PCBus Topology1:- Take 5 PC & 5 Switch  
(One switch - PT for one)  
& connect PC to switch  
switch to switch2<sup>o</sup>- Assign IP

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Ques 1:- Open Cisco Packet

① Take 2 PC &amp; 1 2910 switch (Layer 2 switch)

2:- Use Copper straight cables to connect  
PC & switch (Fast Ethernet 0/1, 0/2 etc)

3:- Assign IP

ex:-  $PC_0 - 10.10.10.1$  $PC_1 - 10.10.10.2$ 4:- On  $PC_0 \rightarrow$  Open cmd  $\rightarrow$  type:

ping 10.10.10.2

OR

Q(b) PDU packet send  $\rightarrow$   $PC_0 \rightarrow PC_1$  $\rightarrow$  Simulation  $\rightarrow$  click packet  $\rightarrow$   
PDU detail.

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using (RJ P)

① Take - Router-PT) - 3  
switch PT - 3 & PC - 6

② give PC IP configuration as -

PC0 - 10.10.10.1  
Default-gateway - 10.10.10.0

PC0 - 10.10.10.2  
DH - 10.10.10.0 (because both PC IP  
same gateway)

PC2 - 20.20.20.1  
DH - 20.20.20.0 --

③ go to option → preferences →  
click on always show port label in login

④ Then config Router

Click on Router (R0) → go to config →  
Interface → Fast Ethernet 0/0 → click Port  
Status ON, give IP config (10.10.10.0)

⑤ Same for R1

R1 → IP (cn (20.20.20.0)

& R2 → IP cn (30.30.30.0)

⑥ Serial to R1

① open R0 → R0 is connected to R1 through  
Serial 0/0 so click R0 go to serial 2/0 click  
on Port address status ON and give IP address  
as 40.40.40.1

Same for R1 (but R1 is connected to R0 & R2)

so do 2 IP config

R1 - IP - 40.40.40.2 netm 0/0

R1 - IP - 50.50.50.1 netm 0/0

& for R2

R2 - serial 2/0 - 50.50.50.2.

⑦ Now Routing RT.P

① Click on R0 → go to Routing tab  
click RIP & add network → 10.0.0.0 &  
40.0.0.0

② R1 → add network → 20.0.0.0,  
40.0.0.0 & 50.0.0.0

③ R2 → add network → 40.0.0.0,  
50.0.0.0

⑧ ping packets (email icon)

SPPF (P-3)

① Step 1 - Take 3 router (R0, R1, R2)  
(Note Router no 2 has slot hole has address 192.168.1.3  
(or have 6 PC has 3 ports each having IP R1-4, R2-2, R3-1  
To sum up 6 ports each port address will be 192.168.1.3, 192.168.1.4, 192.168.1.5, 192.168.1.6, 192.168.1.7, 192.168.1.8)

Step 2 - Click on R0 → turn off → go to WCTT →  
Take one port and add in zoom out switch function  
Simultaneously

R1 → off → WCTT - 2 port → R1 port off

R2 → off → 11 → 1 port → 11

Step 3 - do connection PC - R0

Step 4 - Label IP & config PC IP & default  
Gateway

PC0 - 192.168.1.2 DH - 192.168.1.3

PC1 - 192.168.2.2 DH - 192.168.2.3

R2 → 192.168.3.2 DH - 192.168.3.3

PC3 - 192.168.4.2 DH - 192.168.4.3

PC4 - 192.168.5.2 DH - 192.168.5.3

PC5 - 6.2 6.3

Route - I

R0 - 192.168.7.2

R1 - 192.168.7.3 & 192.168.8.2

R2 - 192.168.8.3

Step 5 - Config PC - IP and on as label  
& Default gateway (DH)

Step 6 - Click on R0 - Fast Ethernet port state - on  
→ H - 192.168.1.3 →

Fast eth 0/1 - 192.168.2.3 → serial 0/0  
192.168.7.2

Step 7 - Click on R1, config fast eth 0/0 to fast eth 192.168.2.3  
→ fast eth 0/1 → IP - 192.168.4.1 = serial 0/0 →  
192.168.7.3

Step 8 - Click R2 → fast 0/0 → IP - 5.1 →  
0/0 → 6.3 → serial 0/0 → 8.3

Step 9 - Click on oval shape - select fill color →  
make on R0 - R1 & R2 → R2 & R1 → 0

10 - After ana -  
click on R0 → cli → exit, exit enter →

R1 → cancel

# confirm & determine # 00000000000000000000000000000000

Ex 2

# CN Practical

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Date:

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CN

Batchival - F  
{ HTTP & HTTPS:- }

Step:- Take 2 PC & 1 server (S-PT) & 2 PC

1 switch-PT

g:- Connect them (Lightning Cable)

3:- Label IP address as to 192.168.1.1,

192.168.1.02 for PC0 & PC1 respectively

& server as 192.168.1.03

4:- Now after IP config to server  
click server → go to services →

click HTTP & HTTPS → ON → and at  
last optional Index.htm press edit

→ then click packet tracer as Router  
& save.

Step 5:- Start simulation or scenario  
send packet & check connection.

6:- Click on PC0 or PC1 → go to  
web server → Enter server URL  
i.e. 192.168.1.03 and enter.

Step 6:- Uploading file.

Go to PC1 → Command prompt → ftp 10.10.10.2

username & password → get hello.txt.

close.

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FTP

Step 1:- Take 1 server, PT, 1 switch  
1 Router 1841, 1 switch 2950 - L

Step 2:- Connect all. connect

PC to switch → Router → server

Step 3:- Assign IP address

o Click on Router, the port is attached  
to Fasteth 0/0, so go to config →  
PORT status ON → IP address 10.10.10.1  
also Fasteth 0/1 → Port status → ON  
→ IP add - 192.168.0.1 (loop)

o Assign IP to PCs.

o Click PC0 → Portip → IP → IP

addr 192.168.0.2 & DG - 192.168.0.1

o Click PC1 → Portip → IP → IP add  
- 192.168.0.02 & DG - 192.168.0.1

o Assign IP add to server  
(make sure server & Router in same network)

so, click on server → Desktop → IP

IP add = 10.10.10.2 → DG = 10.10.10.1

Step 4:- Make server FTP

Click server → goto services → FTP →

give username = cisco1 & password = test →

click on checkbox & add.

Step 5:- Click on PC0 → Text editor → write

some → save as hello.txt → close. Then

again on PC0 → click command prompt →

Ping 10.10.10.2 (server) → ftp 10.10.10.2

give username & password → Put file.txt

→ dir {This shows uploaded}

Dh equal to Server IP

FTP :- Pg - 7

Pg - 8

Step 1:- Take 1 server, 1 2960 switch,  
2 PC. Connect them.

2i- Label IP :- Server:- 10.10.10.0

PC<sub>0</sub> - 10.10.10.1 , PC<sub>2</sub> - 10.10.10.2

3i- Give IP config -

Go Click server → go to Desktop →  
IP → 10.10.10.0 .

Now click PC<sub>0</sub> → go to Desktop →  
IP → 10.10.10.1 → Dh = 10.10.10.0

Same for PC<sub>1</sub>

Step 2:- Open wireshark → choose network

2i- You can filter TCP, UDP & get  
packet

3i- A/c to practical To capture packets  
from e-commerce site

- o Go to browser - search flipkart

- o Open command prompt & type

ping - www.flipkart.com  
(Space)

[Note give space & do not use https:// ]

- o You get ip address of flipkart config

4i- FTP server:-

Click on server → services →  
FTP → for Username = C101 & password = 123,  
PWDNL to click & add. → close.

Step 4i- In filter section of Wireshark type

ip.addr == pack ip address

also

TCP and ip.addr == pack ip address

also for UDP

UDP and ip.addr == port

Pg - 11 :- for IP to URL

octet number 8.8.8.8 (dns.google)

ka hai.

To access file go to another PC  
follow same step at last type

P get file.txt → dir.

DHCP - automatic assign IP  
CN

classmate

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Step 1:- Take one switch,  
1 server (10.0.0.1), 3 PC,  
2 Laptop.

Step 2:- Connect using lightning cable  
PLC & Lap to switch. & switch to server.

Note - switch if show error (can't connect then • (indicate to switch))

Click on switch → zoom in → off →  
Rate 1 GE → put in blank port →  
Rate 2 GE → put in 2nd blank port  
→ ON.

Step 3:- Config DHCP on server

(A) Click server → Desktop →  
IP config → 10.0.0.1

(B) Click server → Services →  
DHCP → Data (10.0.0.1) →  
Save → ON

Step 4:- Check PC<sub>0</sub> → PC<sub>3</sub>

Click PC<sub>0</sub> → Desktop → IP →  
DHCP (automatic get address).

To check connection (M-2)

Click PC<sub>0</sub> → Desktop → Cmd → Ping 10.0.0.2

M-2 Take PDF.