

Sessional - 2

NAT (Network Address Translation)

private IP Range:

<u>Class</u>	<u>Activity type</u>
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A	10.0.0.0 — 10.255.255.255
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B	172.16.0.0 — 172.31.255.255
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C	192.168.0.0 — 192.168.255.255
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* private ip to real ip conversion \Rightarrow NAT

* Border router এই change করার ভাই এটাকে NAT router বলে।

* Best case : No translation

* Worst case : src. & dest. both translation

Types of NAT:

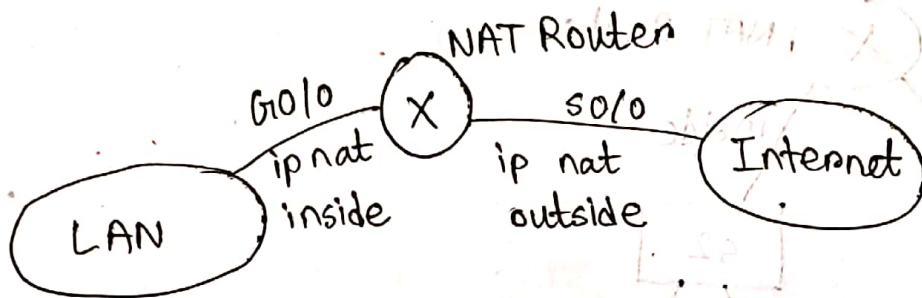
① Static NAT (fixed one to one mapping)

② Dynamic NAT

③ PAT (one to many mapping)

Configure Static NAT :

R1(config)# ip nat inside source static private-ip public-ip

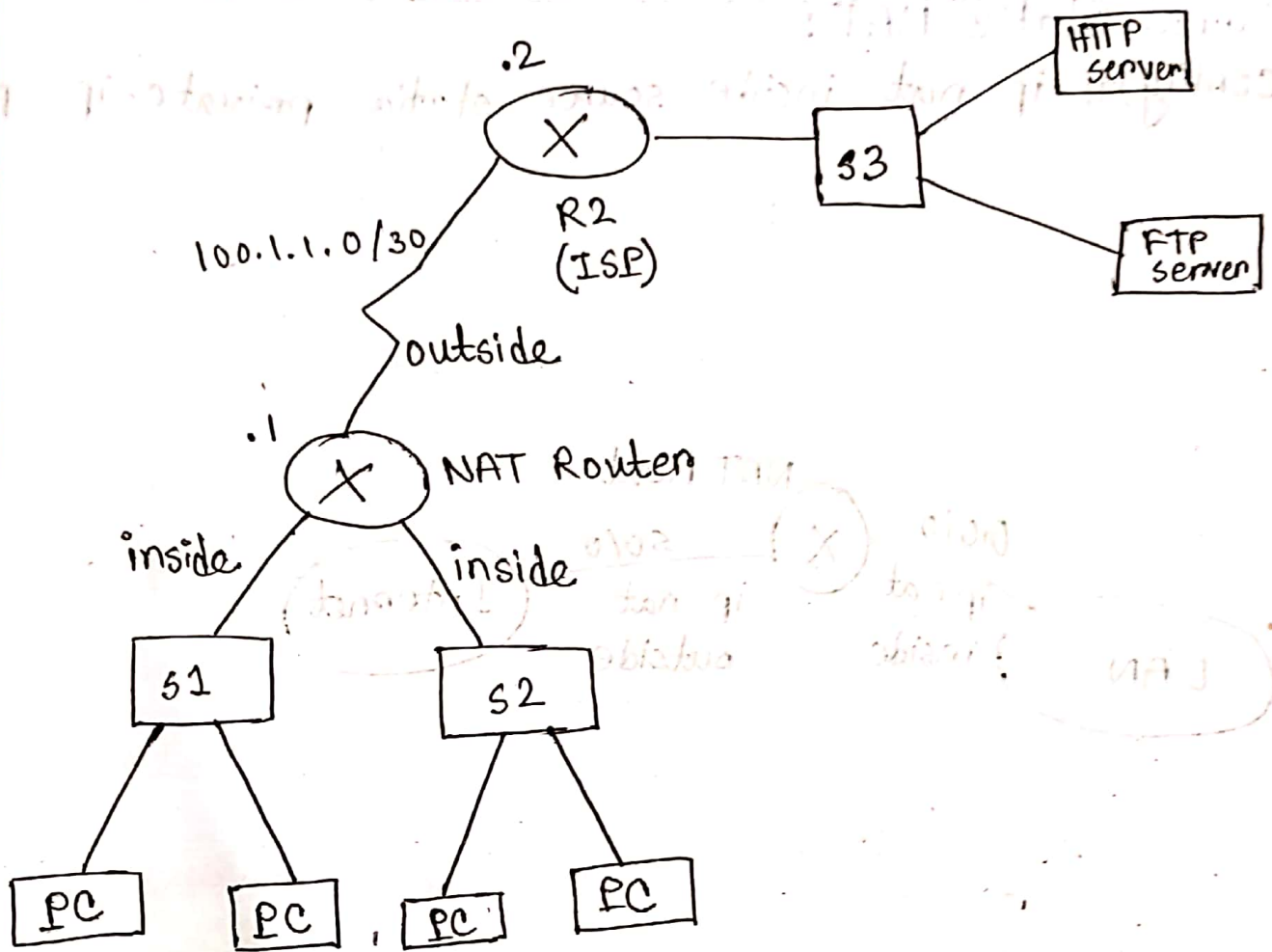


100.1.1.0 /30

→ 2 bit for host portion

subnet mask : 255.255.255.252

*Serial link - এর এক side clock থাকবে, আন্য side-এ থাকবে না।
clock rate 64000



LAN(10)
192.168.10.0/24

LAN(20)
192.168.20.0/24

R1:

int g0/0

ip nat inside

int g0/1

ip nat inside

int s0/0/0

ip nat outside

Routing:

Distance Vector

RIP

Link Step

OSPF

static \Rightarrow manually configuration

R1 ip route 0.0.0.0 0.0.0.0 50/0/0 (যদি packet আসার জন্য 50/0/0 দিয়ে পাঠানো)

R2 same command as R1 (নাহলে packet ফুঁ R1 \rightarrow R2 তে আসবে R2 \rightarrow R1 এ আসবে না।)