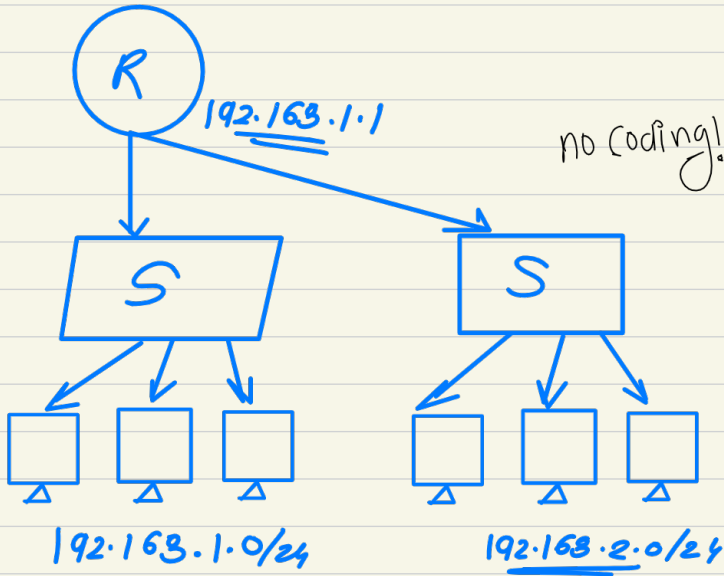
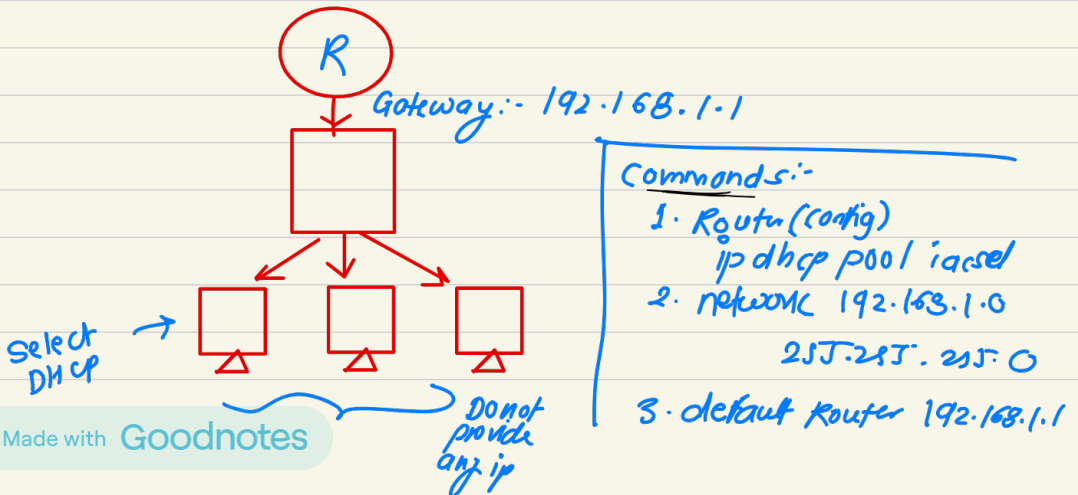


FCN cheatsheet:-

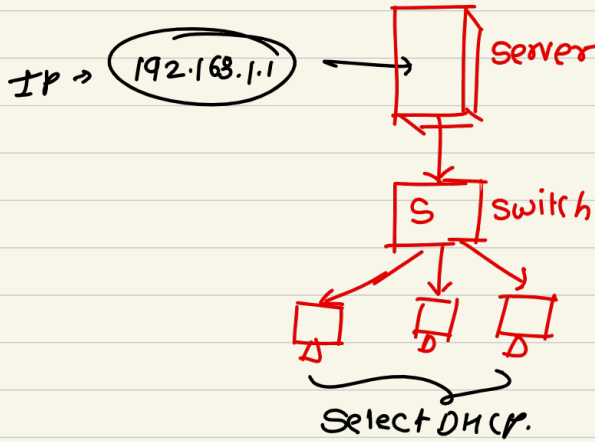
1. Simple static communication:-



2. DHCP using Router:-



3. DHCP using Server:-



Server:-

→ services → DHCP.

poolname:- iqrdd

Default gateway: 192.168.1.1

DNS server → 192.168.1.1

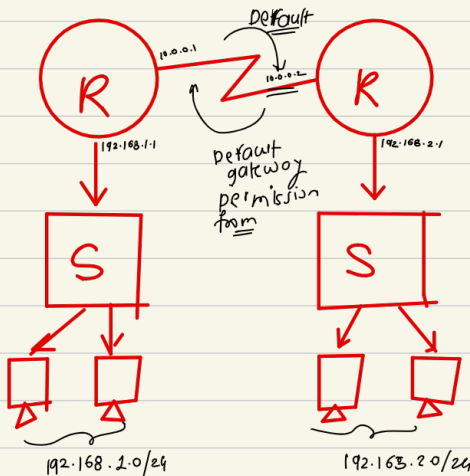
Start IP :- 192.168.1.2

Subnet mask: 255.255.255.0

Click on Add

4. Communication between 2 Routers:-

i. Default Routing:-



Commands:-

Router1:-

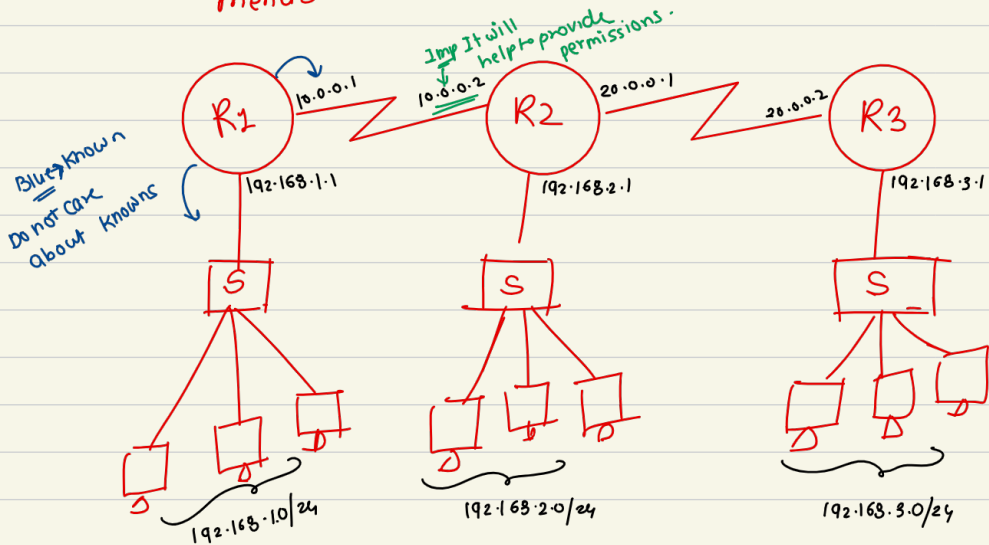
```
ip route 0.0.0.0 0.0.0.0 10.0.0.2
```

Router2:-

```
ip route 0.0.0.0 0.0.0.0 10.0.0.1
```

5. Static Routing:-

Note :- Do not care about relatives only care about friends.



Commands:-

Router1:-

Config

```
ip route 192.168.2.0 255.255.255.0 10.0.0.2
ip route 192.168.3.0 255.255.255.0 10.0.0.2
ip route 20.0.0.0 255.0.0.0 10.0.0.2
```

accordingly do for other routers !!

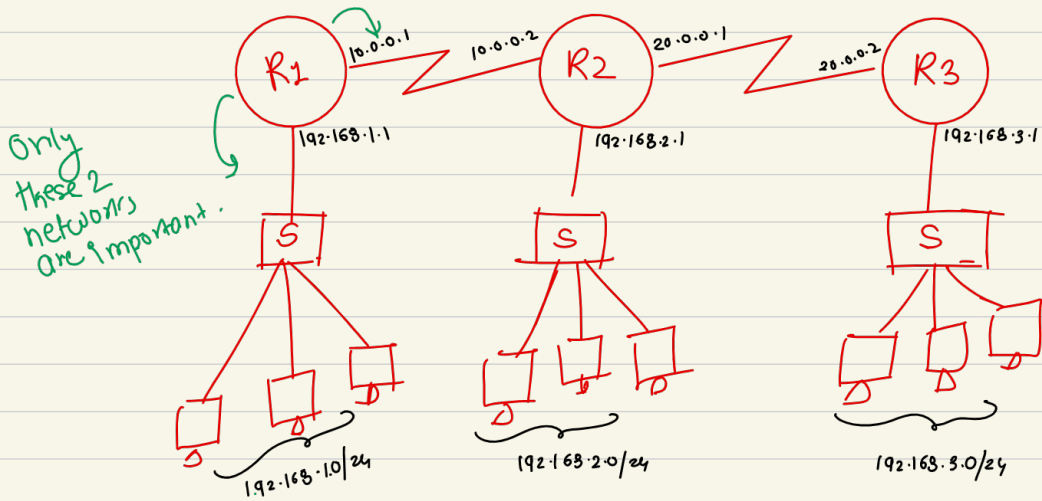
Commands to showcase routes:-

```
#sh ip routes
#sh ip int
#sh ip int br
```

6. Dynamic Routing:-

Reverse compared to static routing

Here only care about relatives means connected networks -



Remaining:-

1. Dynamic Routing.
2. RIP (RIP v2)
3. EIGRP
4. OSPF.
5. ACL 1 Standard / Extended.
6. Spanning Tree (easy)

7. VLAN

8. communication between 2 switches

9. Router on stick

10. EIGRP Imp

11. TacacsF

12. Static NAT

13. Dynamic NAT

14. NAT- PAT