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# Lab 6

## 6a) Configure web Server and DNS Server.

Configure Server as DHCP Server
Services → HTTP check if both are on
click on PC0 → Desktop → Web Server
↓
Server address

Trying to map Domain System name with Server

Server → DNS → DNS ON → Under Name give Website address → Under address ip address of Server

Purpose of DNS - Map domain Name with Server address

- Go to PC-0 web Server → give IP address
  We are able to Config as DNS Server as well as a web Server.
  → All domain names have Unique IP address
  → But it is difficult to remember IP address and hence we have a name which makes it easy to ~~browser~~ browse that web page on browser.
  → All domain name is mapped in the back with Unique IP address.
- Learnt how to Configure DNS Services for web

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## 6b Configure RIP Routing protocol in Routers.

- We used to add ~~routes to~~ routes to routers statically and this may become difficult if we have many. RIP protocol helps to overcome this problem. It copies this routing table of its neighbouring routers. Limit of its extension is 16 nodes in network

- Learnt to Configure RIP protocol

Routing Information protocol is distance vector routing protocol. It knows only neighbours and doesn't knows entire topology.

It doesn't support classless network (CIDR) but Rip version 2 supports CIDR & VLSM.
It will update routing information every 30 sec (periodically)

PPP → point to point protocol - for Serial clock Connection
clock rate only for clock interfaces.
encapsulation PPP for Serial interfaces only.

To Configure RIP protocol for say router 1
click on router 1 → enable → Config terminal
router rip
network 10.0.0.0 } Gateways
network 20.0.0.0
exit

RIP is Configured in all the routers Similarly.