

Week #7/Submission-3

Week 7 - Cisco Packet Tracer 2 - Life of a Packet in Internet.

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Section : D

Task 1 : DNS Server and Webserver in the same network

- The needed topology was created as shown in screenshots.
- IP address and DNS server address was entered manually as seen below.
- The DNS values were manually filled to maps IP address to domain name
- Using browser from pc, the website was fetched using URL following a successful DNS lookup.
- The successful status can be seen by the index.html page being loaded.

Configurations followed :

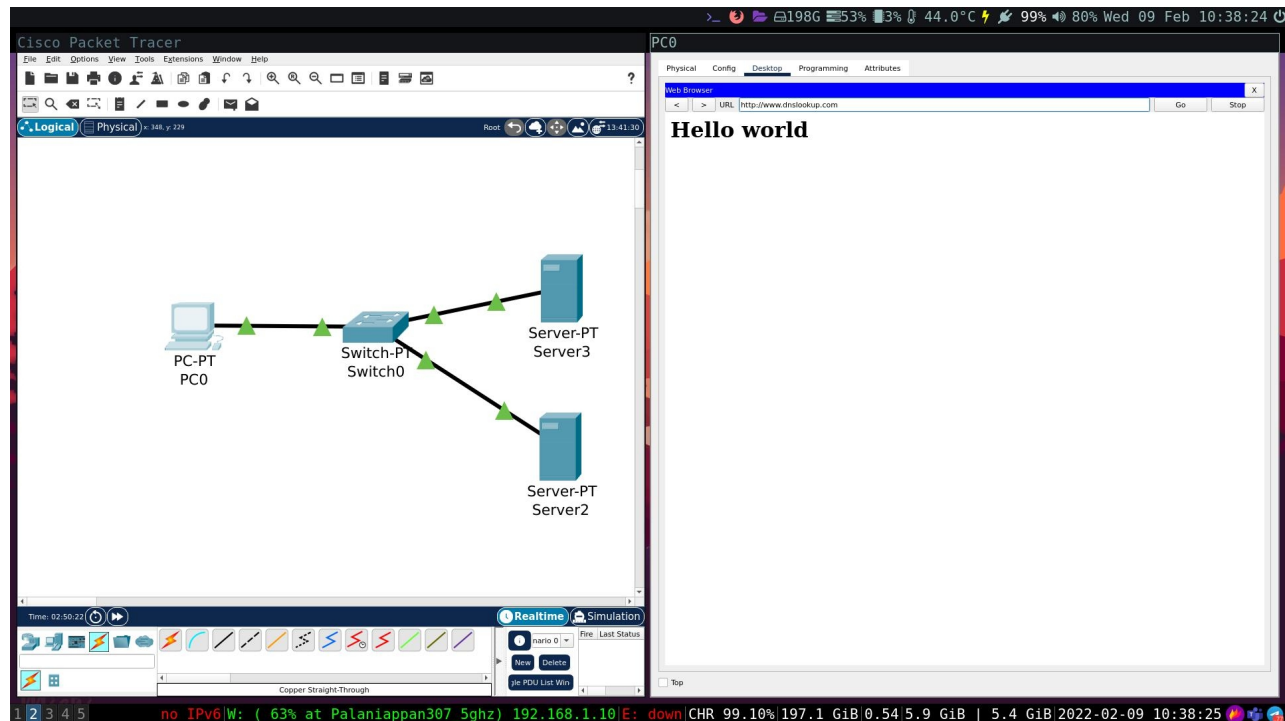
End systems :

End System	IP Address	Subnet Mask	DNS Server
PC0	192.168.1.10	255.255.255.0	192.168.1.2
Server2-DNS	192.168.1.2	255.255.255.0	0.0.0.0
Server3-Web server	192.168.1.3	255.255.255.0	192.168.1.3

DNS Service :

No.	Name	Type	Detail
0	www.dnslookup.com	A Record	192.168.1.3

Screenshots :



Task 2 : DNS Sever and Web Server across diff networks

- The needed topology was created as shwon in screenshots.
- IP address, gateways, routing, DNS Server was entered manually as shown below.
- DNS service was entered manually as shown below to map IP Addr to domain
- A request was made to domain name using the browser in PC0
- The successful status can be seen by the loaded page, and the simulation panel.

Configuration followed :

End systems :

End System	IP Address	Subnet Mask	Default Gateway	DNS Server
PC0	192.168.1.2	255.255.255.0	192.168.1.1	192.168.3.2
web server	192.168.2.2	255.255.255.0	192.168.2.1	192.168.3.2
DNS server	192.168.3.2	255.255.255.0	192.168.3.1	0.0.0.0

Routers :

Router	Interface	IP address	Subnet Mask
Router2	GigabitEthernet 0/0/0	192.168.1.1	255.255.255.0
Router2	Serial 0/2/0	10.0.2.1	255.0.0.0
Router3	GigabitEthernet 0/0/0	192.168.2.1	255.255.255.0
Router3	GigabitEthernet 0/0/1	192.168.3.1	255.255.255.0

Router3	Serial 0/1/0	10.0.2.2	255.0.0.0
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DNS Service :

No.	Name	Type	Detail
0	www.google.com	A Record	192.168.2.2

Routing Table :

Router	Destination	Next Hop
Router2	192.168.3.0	10.0.2.2
Router2	192.168.2.0	10.0.2.2
Router3	192.168.1.0	10.0.2.1

Screenshots :



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1214, y 493

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device
	0.000	—	PC0
	0.001	PC0	Router2
	0.002	Router2	Router3
	0.003	Router3	DNS server
	0.004	DNS server	Router3
	0.005	Router3	Router2
	0.006	Router2	PC0
	0.006	—	PC0
	0.007	PC0	Router2
	0.008	Router2	Router3
	0.009	Router3	web server
	0.010	web server	Router3
	0.011	Router3	Router2
	0.012	Router2	PC0
	0.012	—	PC0
	0.013	PC0	Router2
	0.013	PC0	PC0

Successful DNS lookup!

Result from web server

Time: 00:36:07.638

PLAY CONTROLS

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Copper StraightThrough

Toggle PDU List Window

Event List Realtime Simulation