Date: 13/7/23

Servery Think		
1		Eap 7
1	Am:	
	0	within a LAN
		have the contract of the second
-		Popology
-		F313
-		SWITCH FO/1
-		10.0.0.4 Fol/2 Fol/2 Fol/2
1	the	F00 F00
1		
	RCD A	10.0.0.3 10.0.0.2 Se mue 0
		10.0.0.1
-		Proradure
L		Gente a LAN network (10.0.0.0) by solecting
L		3 PC's a sorver and connect them to
L	-	a switch.
_	•	Set the soveri's IP noldress to 10.0.0.1
		9 set tre default gateway to 10.0.0.20
	•	Let the server to DHCP mode
		(dervices -> DHCP -> Service ON)
	•	Put down the gateway & the start aP address
_		(10.0.0.2)
_	·	Charge all tre other PC's PP configurations
_		to OHCP.

Dale:
Result
PC> ping 10.0.0.7
- Die 10 0 4 with 32 kyles of celeb
Polly ham 10.0.0.7 bytes -32 line = ms 1/2=128
Reply from 10.0.0.4 bytes=32 time=0 ms 7TL=128
Relly from 10.0.0.4 bytes=32 time=0 ms 7[] = 128
Ping stalistics for 10.0.0.4
Packets: sent > 4, Recieved = 4, Lost = 0 (0). (ors)
Appronemate round trip times in milliecond
Minimum = D ms, Maximum = Ims, duerage = Dmy
Outside of LAN
Topolog 4:
RouterO
10.0.0.10
Fan10
Switch D Switch
Switch O Switch
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- \$ EOV!
100.0.4
10.00.1
10.0.0.2
10.0.0.1

	Date:
	Panedire:
•	Tollows the same stehr in in case of inside
	LAN, by creating a 10.0.0.0 nationsh with the series 3P address - 10.0.0.1 and the gateury
	10.0.0.10
	Guate another natural with 2PC's and
	a Router.
•	Configure to connect the 2 neutrons
	Through the gottenny
i i	7 enable.
- Herri	7 config t 7 interface so 4/0
	> ip address 10.0.0.00 255.0.0.0
157	7 no shut
	7 ent 7 interface 190/0
	7 ip address 20.0.0.20 255.0.0.0
	7 no shut
	Go to the serious of serious of and not
	another DHCP Pool gateway (default) to 20.0.0.10
(10)	and Then in the CLP commonels of Router
	set the sorver as a up-address helper.

	1 1 /2	
	The following are the 2 pools PoolName Gateway derver adoless Mark upon	
	\sim 100 m h \sim 1	
4.5	deserver Pool 10.0.0.10 0.0.0.0 10.0.0.2 256.00.0 5)2	
	darser Pool 20.0.0.10 0.0.0.0 20.0.0.1 255.0.0.0 5)2	
	Zanfij t	
	> sof interface to 0/0	
	> ip helper address < accers ip-address>	
Sec. 5	> no shet	
	enit	
•	Ping from 10.0.0.2 to 20.0.0.2	
	Rose St	
	PC > Ping 20.0.0.2	
	Renging 20.0.0.2 with 32 bytes of data	
	CONTROL OU	
	Reply from 20.0.0.2: legter = 32 time = 0 mg TTL=127	
	12 June - A: 12	Tool Tool
	Refly from 20.0.0.2: bytes=32 time = 1ms TTL= 12+	137
	Ping slatisties for 20.0.0.2	
	WILL 3 9 Knales I	
-	Appox tims (in Mulliscends)	
	Minimum = 0 ms, Manimum = 4 ms, forego - Ins	
	my foreson - In	

	Observation
•	The DHCP helps manage allocation of IP address
·	& and wars.
	The desire wanting to access a network gets
	The desire wanting to access a network gets on 20 address allocated alguarically to it
	by the user.
	The allocated SP adolress is taken back, when shutdown.
•	y the requesting pleaser is outside the LAN (case x), then the servers ip address must
	be suigned to the router as the "doldren helps" so that it can automatecally ?
	configure trat device's 21 address
1	When playing outside the current network
Jx. 2	at first it shows "Request terned out" as the
3/1/1/	router takes time to find the correct.
·	a de la companya de l
•	We assign anothe very Pool is the Rorers
	solvier so trut to acreer arous to galeway
	to durant and the starting ip address
	to assign to the decines g a different network:
1	The state of the s

Date :_



```
Pringing 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=1ms TTL=128

Reply from 10.0.0.4: bytes=32 time=1ms TTL=128

Reply from 10.0.0.4: bytes=32 time=1ms TTL=128

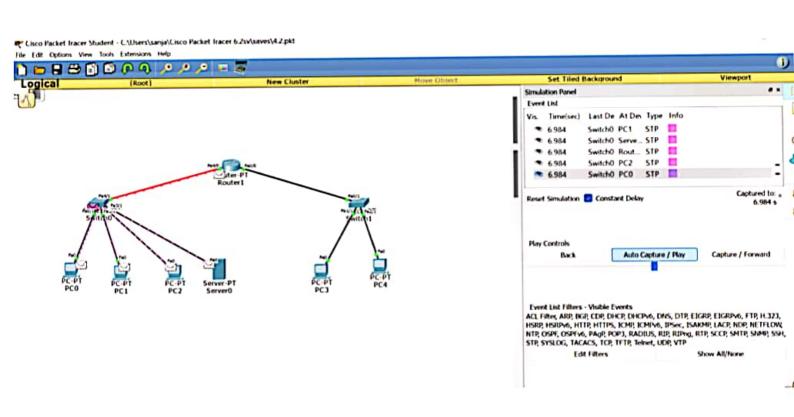
Reply from 10.0.0.4: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.4:

    Fackets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```



Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.2: bytes=32 time=0ms TTL=127
Reply from 20.0.0.2: bytes=32 time=0ms TTL=127
Reply from 20.0.0.2: bytes=32 time=0ms TTL=127
Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```