		Date: 00/6/23
	FOP-2	
	Network Connection Using	
	Lingle Router	
	XVIIget Association	
	dim:	
		rautou enflore line
	Consiguring PP address to	le request timed out
	and reply.	
	<i>d</i>	
	Popology:	
	. 00	
	10.0.0.10	
	7 10.0.0.10	
1 6 6 .	The second secon	
	D L -D	PC-1
	10.0.001	80.0.0.0y
-	Perocedure:	
0	Cornert T	
	connect two ends devices to	a souter through
3	Jesign PP adoless to end de	vices.
	generally in garte	Arough CLT
	using the following commands:	

- 5.44 L	Date:
	area strain of a companies
	@ Inalela
	D config t
	© interface <pre>port&gt;</pre>
	1) ip address < ip address > < sulenot mask>
1	@ no shut
	@ enit
(F)	P det tre respectuee gratevous in the end deveres
6	Ping from one and user to another.
	Result:
	Pinging 20.0.0.1 with 32 leyter of data:
	Request Limed out
	0.1 1000 20.00 Dates - 32 time = 1mi TTL=12T
	Reply from a0.0.0.1 leytes = 32 time = 0 mg TTL = 12T Reply from a0.0.0.1 leytes = 32 time = 0 mg TTL = 12T
	Parly from 10,0,1 Paylor = 32 time = 0 ms TTL = 12-T
	hyping from we want
	D' 11/1-1 (1000 20:0:);
	Ping statistics from 20.0.0.1: Parheto: Sett = 4, Recreised = 3, lost=1 (251.655)
	rantels dem - 1, keineres si - 1/1.
	approximate round being times in milli seconds:
	Minimi =0 ms, Marine =1ms, Average =0 ms
	Observation:
	Router is a pleuse used to connect multiple
	retworks. Router is capable of transforming factits

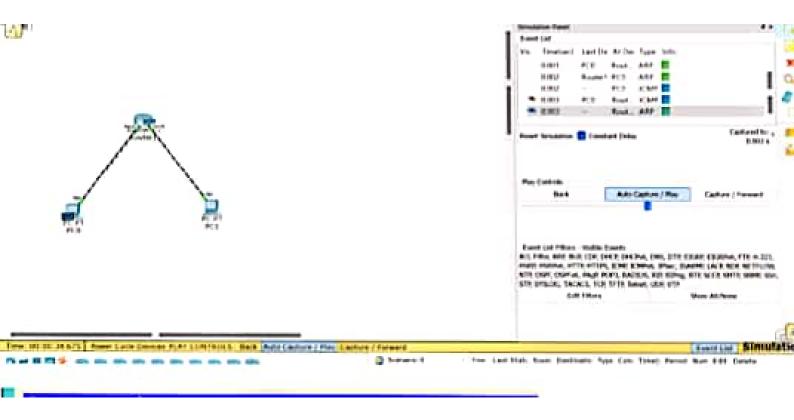
from one network to another
From street sends data packet to router. The
destination QP roldress is noted by the router.
The pashet is redirected towards the consciences
retwork by the goutes.
Eg: For Router O CLI
Rout of > enable
Router # compret
Router (config ) # interfere pet etherenel 0/0
(Koutes (config-ij) # ip adolass 10.0.0.10 255.0.0.0
Router (onfig-ij) # no shut
enit
Router (conficing) # interfero potethanat 1/0
Rater (config-ij) # ip address 20.0.0.10 255.0.0.0  Routes (config-ij) # no shut  enit
Koules (config-ij) & no shut
enit

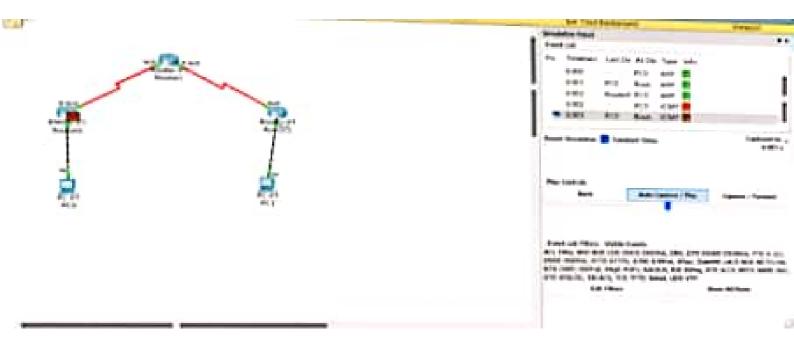
Eap-2	
Network with multiple routers	. 0.7
Aim:	
Longigiering 2P adolrers of multiple a peny responses distination unreachabel	outers exploring
pens responses distination unreachable	e , request
timed out and refly.	- 0
	. ·
Topology:	
Routez O	
20 0.0.10 Router!	30.0.0.20 Route, 2
10.0.20	
10.0.0.10	100.020
	, , , , , , , , , , , , , , , , , , ,
Fro dem	1 1
(0.0.0.)	darie
40.	0.0.1/
Procedure:	The state of the s
O Add two and Sewices and three ra	~ )
work spaces.	alors to
@ Connect scouters to though social DT &	1.1
and drive a secretary At	salsk and
calle	
(3) Assign IP addresses to end sluces.  (3) Assign IP addresses to end sluces.	
Configure gateways through CLZ using	a galeusays
The state of the s	joccowing

	commands
	9 Enable
	(3) config t
	6 enterpre purt
<u> </u>	(2) ip address < ip address < sulenet mask)
· -	@ no shut
	(F) enit
<u>(5)</u>	Clairy command ip route < distingtion ip > < rating ip>
	Let path for each nauter
<b>3</b>	Piny from one and decrices to another.
	Result:
	Pinjing 40.0.0.1: kgs with 32 leytes of data:
	Regust timed out:
	Reply from 40.0.0.) bytes = 32 time - 12ms TTL= p7
	Reply from 40.0.0.1: bytes = 32 tems = 12mg TTL=127
	Reply from 40.0.0.1: byles - 32 time = 14ms TTL = 127
	Righty Mask
1	
ati.	Peng statistics from 40.0.0.1:
	DITTER Seam 40.0.0.1:
	Peng statistice from 40.0.0.1:  Packets: Sent = 4, Recieved = 3, Kart = 1 (257.6055)  Approximate sound to the first
	Can I made Mill. a.
	Minimum = 12mg Manina -14mg burrage = RMS
	ing overage = RMS

Date :
Conjugure the routers by opening CLI
Router 0:
Route > enalele
Routed ## config t
Router (config ) It interface ( title at D/
Router (config-y) # ip anloress 10.0.0.10 255.0.0.0
Route (config if) # no shut
end
Routes (config ) II interface seria) 2)0
sould conjus IF to adoless do. D. O. In
Router (config-y) + no shut
erit
erist
Pouter 1:
Routes > enalle
Party # configt
Route (config ) # interfore social 2,5
Route (consideri) # in the
Route (config-ig) # ip address 20.0.0.20 255.0.0.0
enit
- Rostu Ciarlia III to
Router (config ) # interface serial 3/0
Route C. config-ij) # no shut
Route (confo) # (nil

0	Vererientian.
	estenation hast Unreachalele
T	r each route, we seed to dyin a raute for
JA ()	abole to be married to alitimen of maturas his. Onless
<b>K</b>	rekêls to de mound to deficient naturarly. Unline
	gout is defined, partet will not seach duting
5	Tollowing result is obtained when gateway isn't no
Q	all how was all a ' On trates' bout ungernhable
D.	efly from 10.0.0.10: Destination hast unrearhable
ر	Ily from 10.0.0.10: Destroyon host unesable
<u></u>	effy from 10.0.0.10: Destination host unearphole
'gl	eply from 10.0.0.10: Destination hast unreachable
-	
6	he alove mossège signifies gateur 10.0.0.10 does
n	I know where to realised the packet to.
-	· · · · · · · · · · · · · · · · · · ·
Re	igust timed out:
-	On successful transmission from source to deat n
	an acknowledgement is sent from one destination
	hast to source how I in the form of ICMP pecalet
-	of the acknowledgement TCMP mers sage dean not
+	reach some a 'Request timed out' mossage is
+	shown. It may nobe due to partet lose physica
4	issue in bransmission or incorrect gaterray
	essignant
	·





```
Packet Tracer PC Command Line 1.0
pc>40.0.0.1
Invalid Command.

PC>PING 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: bytes=32 time=line TTL=125

Reply from 40.0.0.1: bytes=32 time=tms TTL=125

Reply from 40.0.0.1: bytes=32 time=Tms TTL=125

Reply from 40.0.0.1: bytes=32 time=Tms TTL=125

Ping statistics for 40.0.0.1:

Packets: Sent = 4. Received = 4. Lost = 0 (0% Icas).

Approximate round trip times in milli-seconds:

Minimum = 2ms. Maximum = 11ms. Average = 6ms

PC>
```