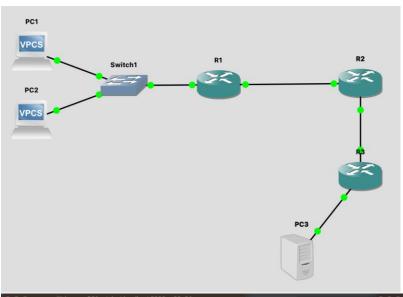
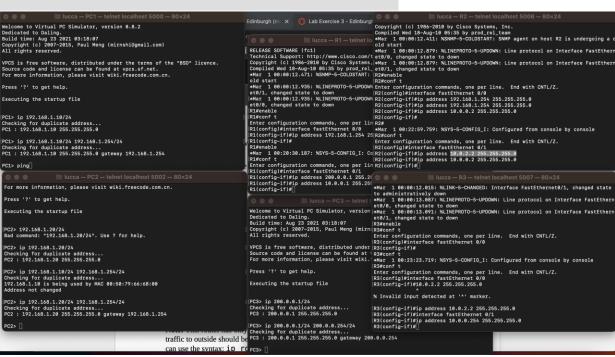
# F29DC Lab 3

## Part 1:

## **Proof of Completion:**



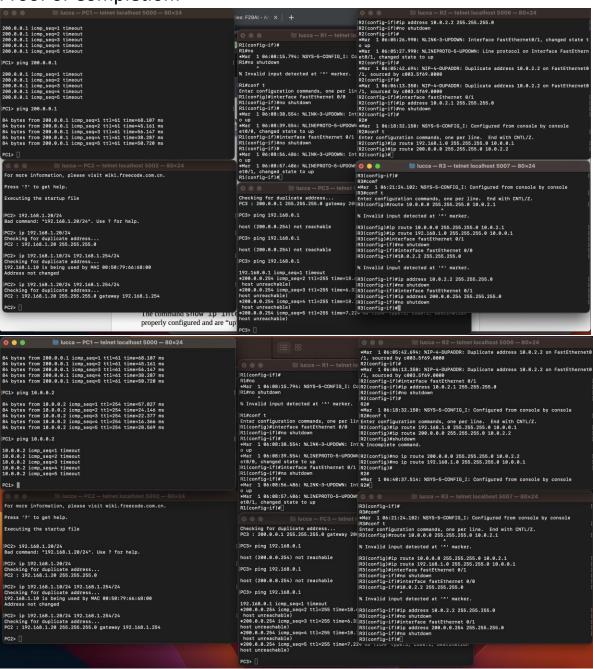


## Part 2:

If you only configured R1 with the command above (and didn't set up any other routes), would a ping from PC1 to R2 work? Why?

It will ping the router, but a response will not be sent to the ping. The reason why is because a route has been set from PC1 to R2, but not from R2 to PC1.

#### **Proof of Completion:**

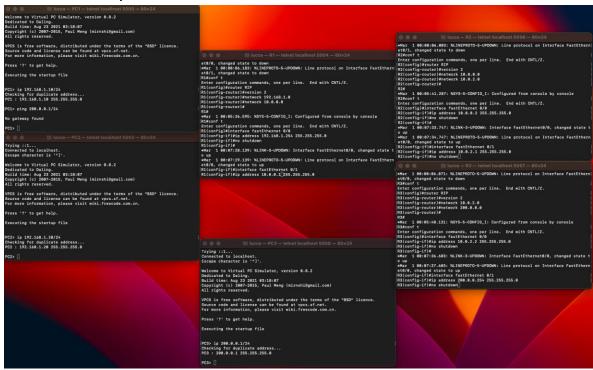


# Part 3:

Use Wireshark to observe the traffic on one of the links between two routers for a couple of minutes. Look at the contents of the packets as well. What do you notice?

What I've noticed is that most of the packets are 40 byte pings to other routers to make sure they're all up to date (TCP Acknowledgements). There's also CDP (Cisco Discovery Protocols) which share information about other directly connected Cisco equipment. (These are all Cisco routers, and one is directly connected to at least another router).

#### **Proof of Completion:**



o.	- 1	Time	Source	Destination			Proto	ocal II	Lengt	HIIn	fo					
٥.	ارن	200.020440	2001CE	Destillation		ν.	LOUI	COI   I			ch r à					
	66	275.467958	c0:02:5f:65:00:00	c0:02:5f	:65:00:	00	LOOF	•	66	R	eply					
	67	279.895932	c0:01:5f:5f:00:01	c0:01:5f	:5f:00:	01	LOOF	•	66	R	eply					
	68	287.072037	c0:02:5f:65:00:00	c0:02:5f	:65:00:	00	L00F	•	66	R	eply					
	69	287.407360	10.0.0.1	224.0.0.	9		RIP	2	66	5 R	espor	se				
	70	291.819686	c0:01:5f:5f:00:01	c0:01:5f	:5f:00:	01	L00F	•	66	R	eply					
	71	293.364679	10.0.0.2	224.0.0.9	9		RIP	2	86	5 R	espor	se				
	72	295.593028	c0:02:5f:65:00:00	CDP/VTP/I	DTP/PAg	P/U	CDP		350	) D	evice	ID	R2	Poi	t I	[D
	73	298.915476	c0:02:5f:65:00:00	c0:02:5f	:65:00:	00	L00F	,	60	) R	eply					
	74	301.959797	c0:01:5f:5f:00:01	CDP/VTP/I	DTP/PAg	P/U	CDP		350	) D	evice	ID	R1	Poi	t I	[D
	75	303.652159	c0:01:5f:5f:00:01	c0:01:5f	:5f:00:	01	L00F	,	60	) R	eply					
	76	310.898474	c0:02:5f:65:00:00	c0:02:5f	:65:00:	00	LOOF	•	66	R	eply					
	Fram	e 68: 60 byt	es on wire (480 bits)	, 60 bytes	0000	c0 0	2 5f	65 00	00	c0	02	5f 6	5 00	00	90	00
	Ethe	rnet II, Src	: c0:02:5f:65:00:00 (	c0:02:5f:6	0010	V- V	00	00 00		00			00	00		00
	Conf	iguration Te	st Protocol (loopback	)	0020		00 00	00 00		00		•••	00 00		00	00
	Data	(40 bytes)			0030	00 0	0 00	00 00	00	00	00	00 e	00 00	00		