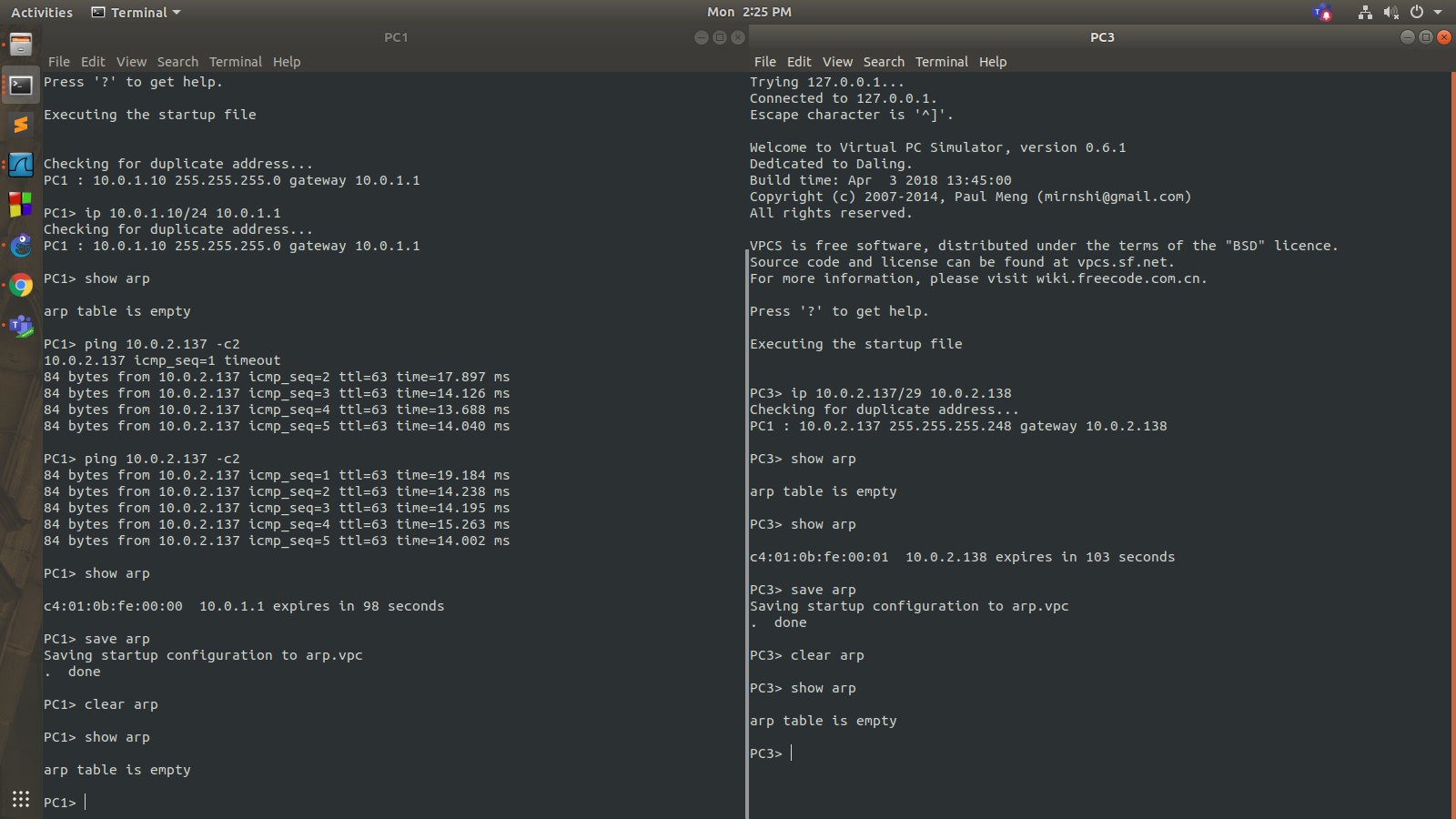
**CN LAB5**

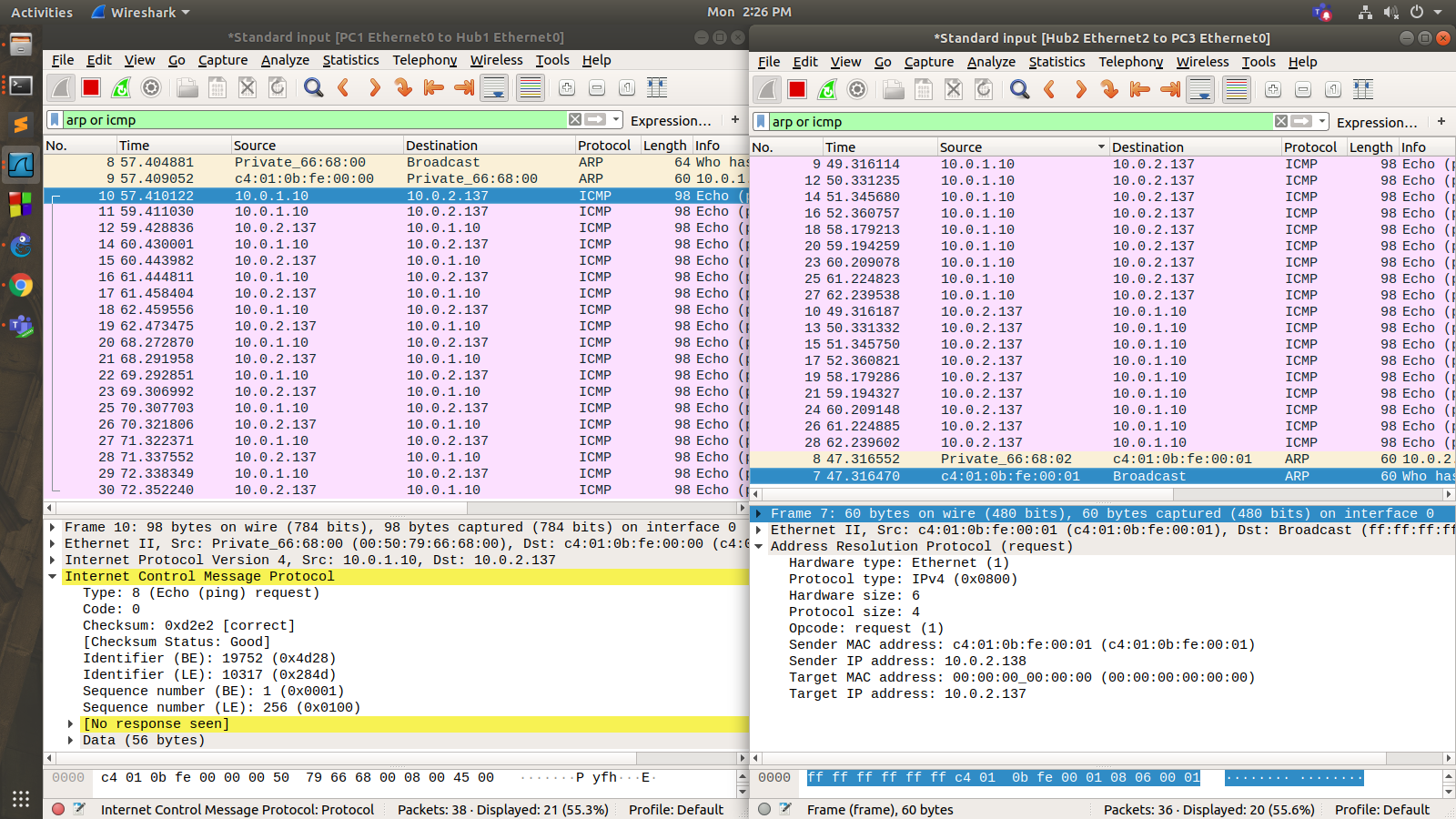
**Name:** N.Keerthan

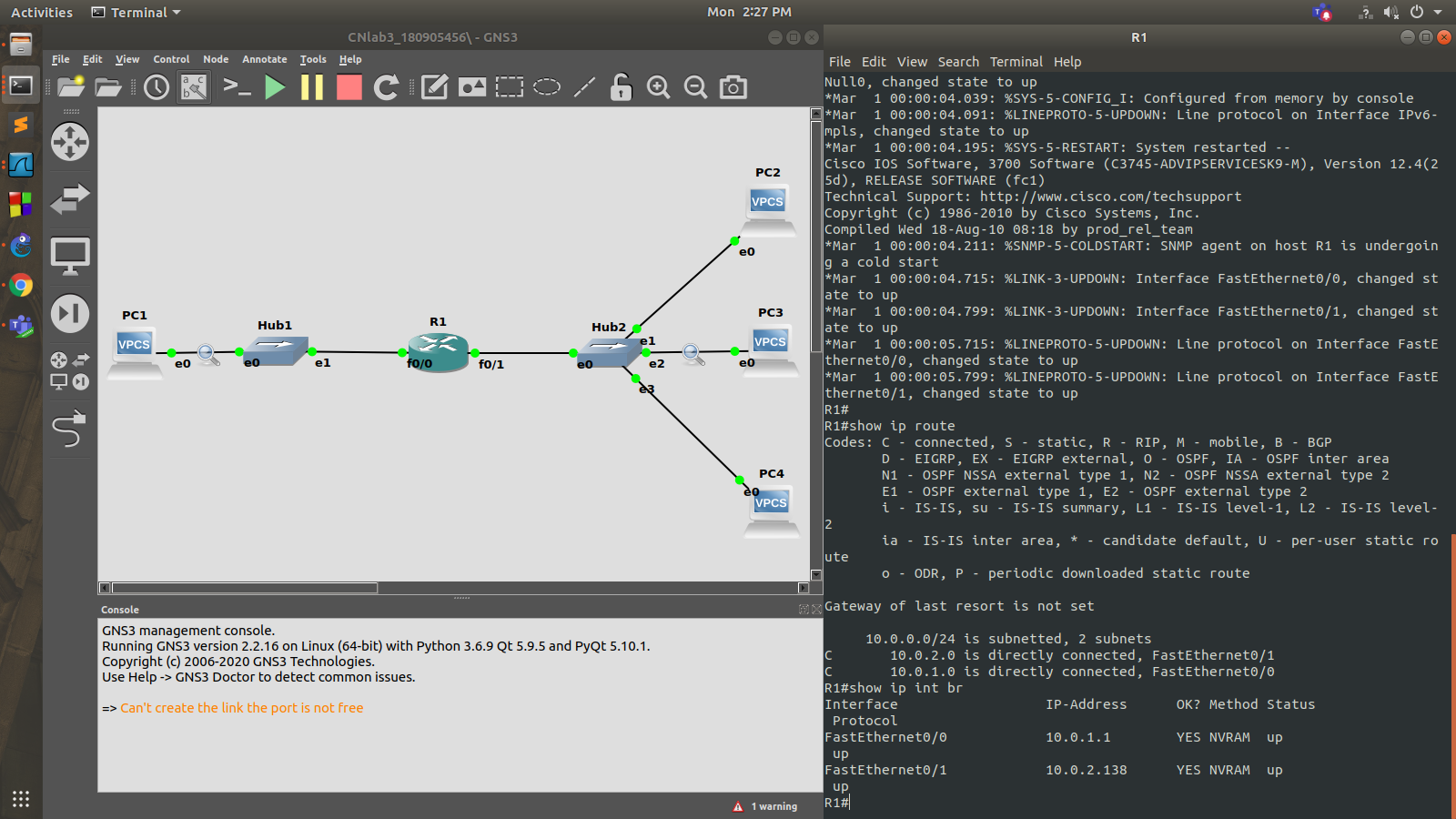
**Reg No:** 180905480

**Question 1**

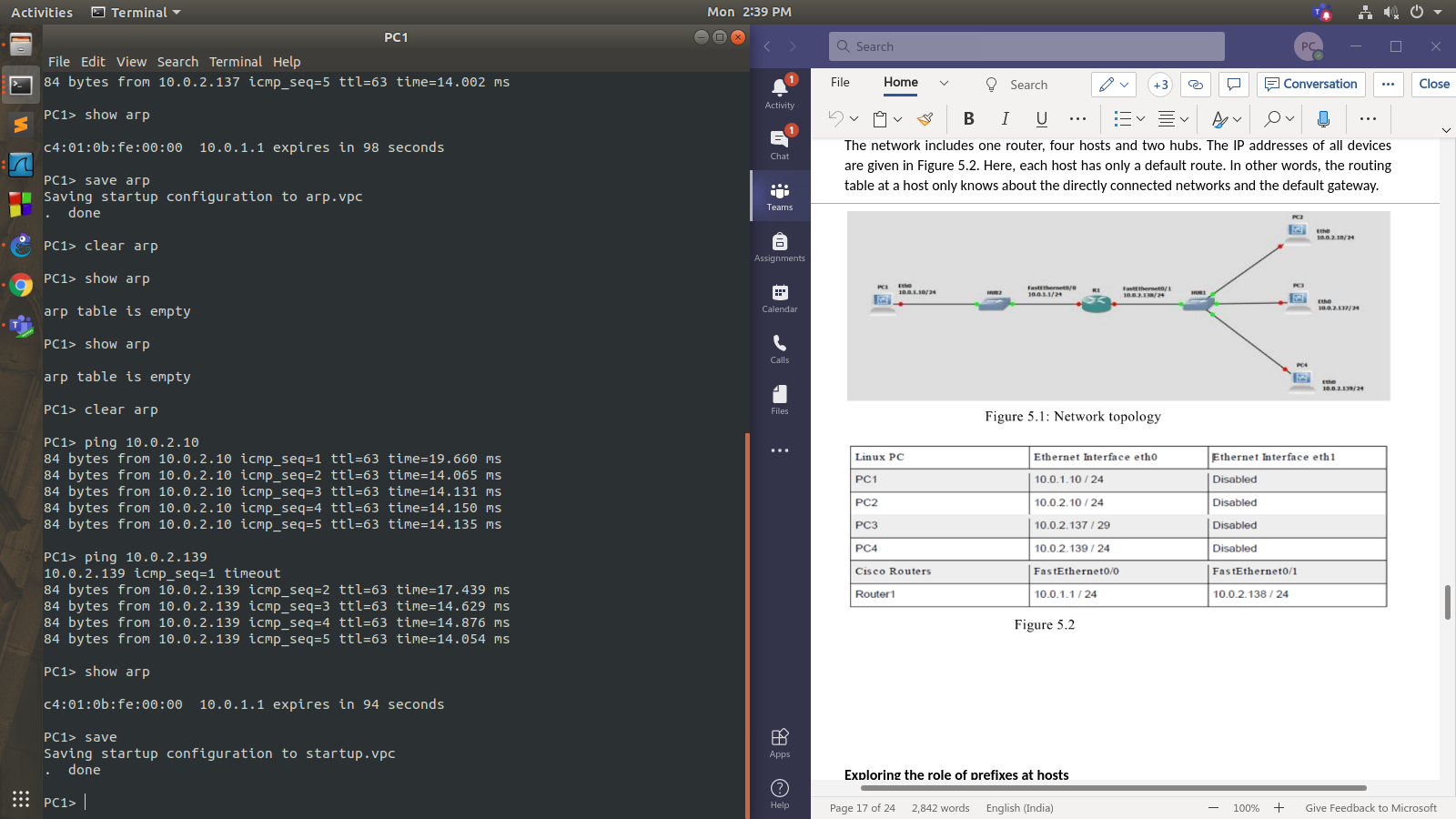
Ping from PC1 to PC3



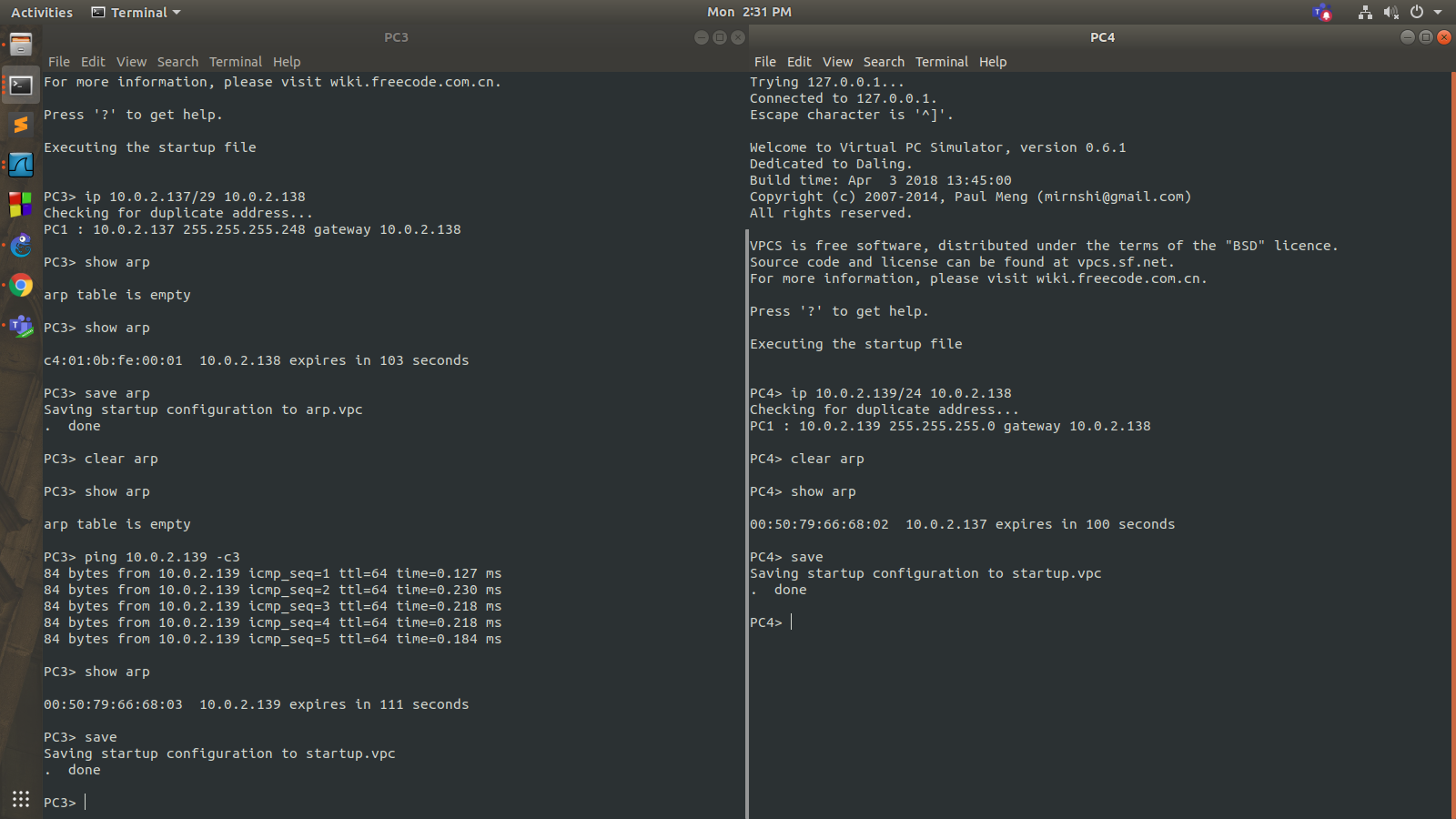


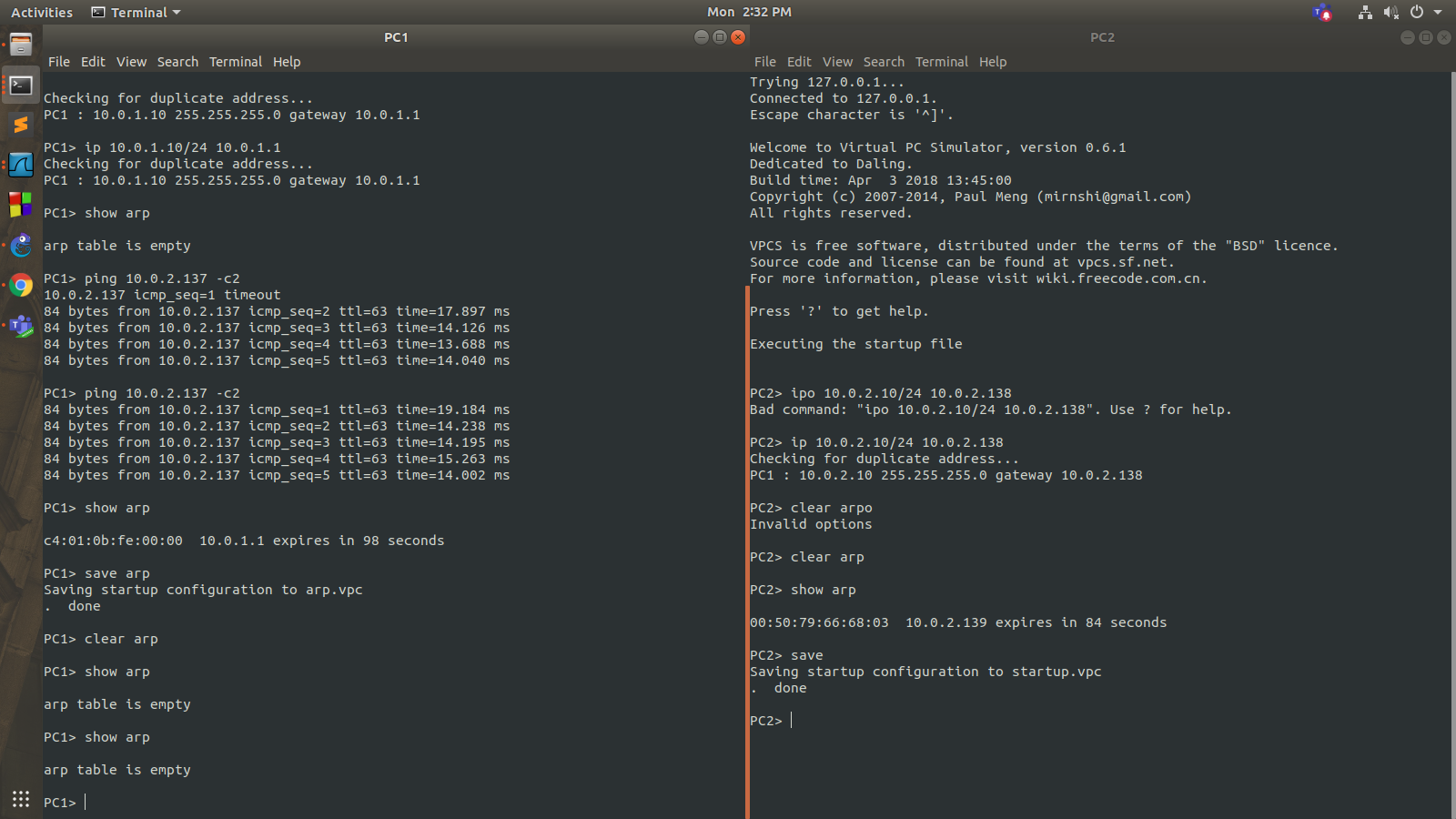


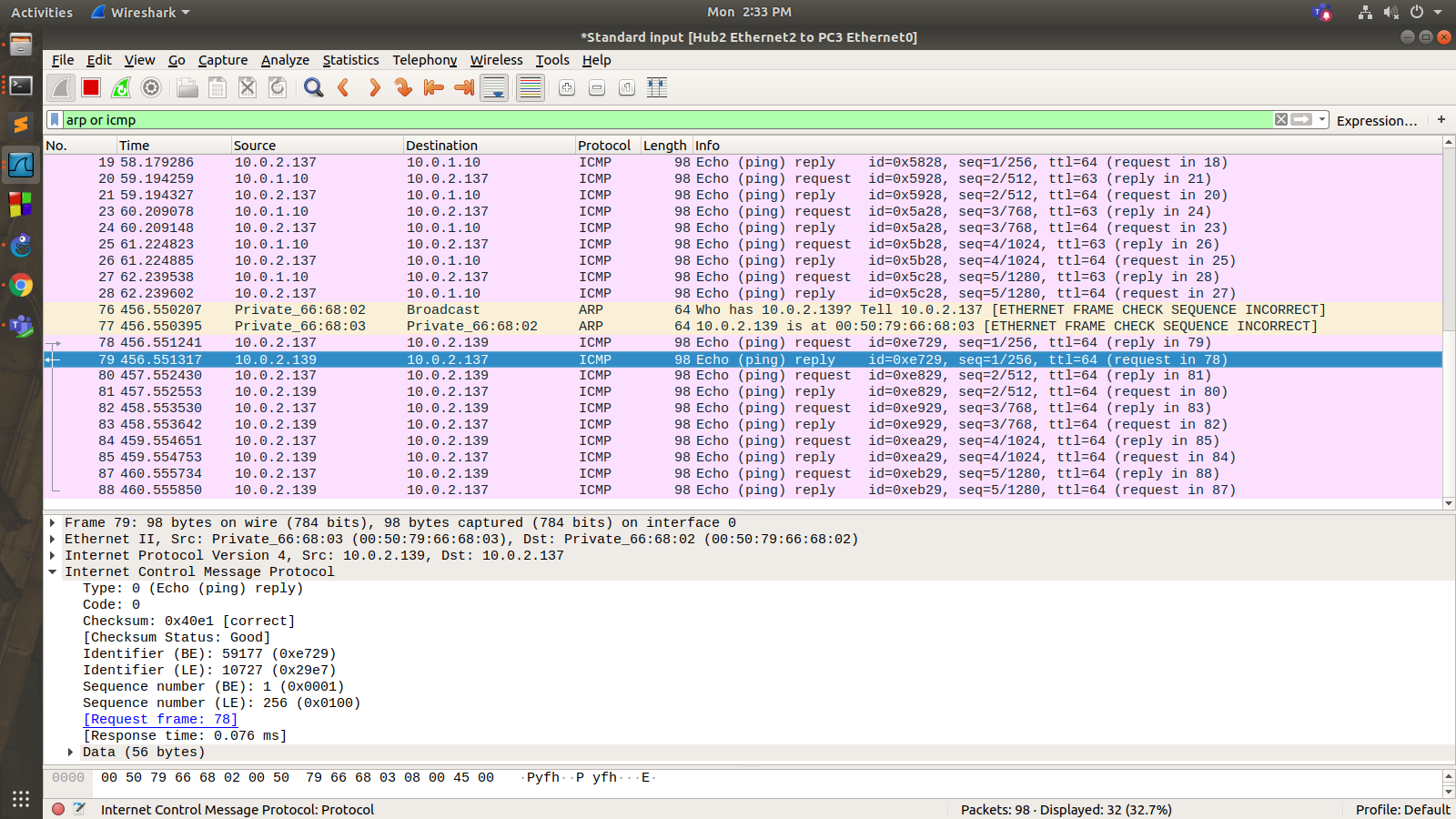
Ping from PC1 to PC2 and PC4



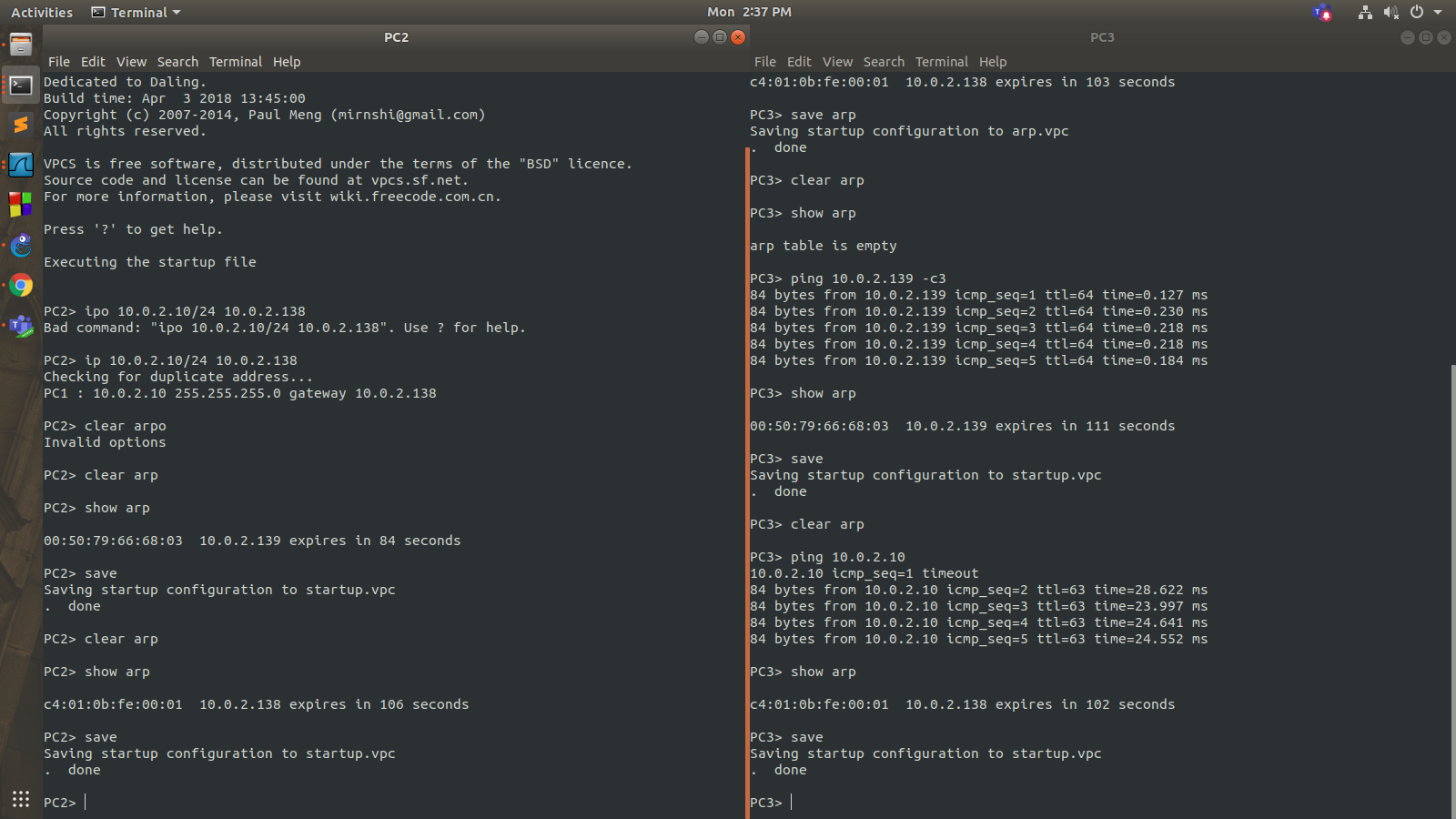
Ping from PC3 to PC4

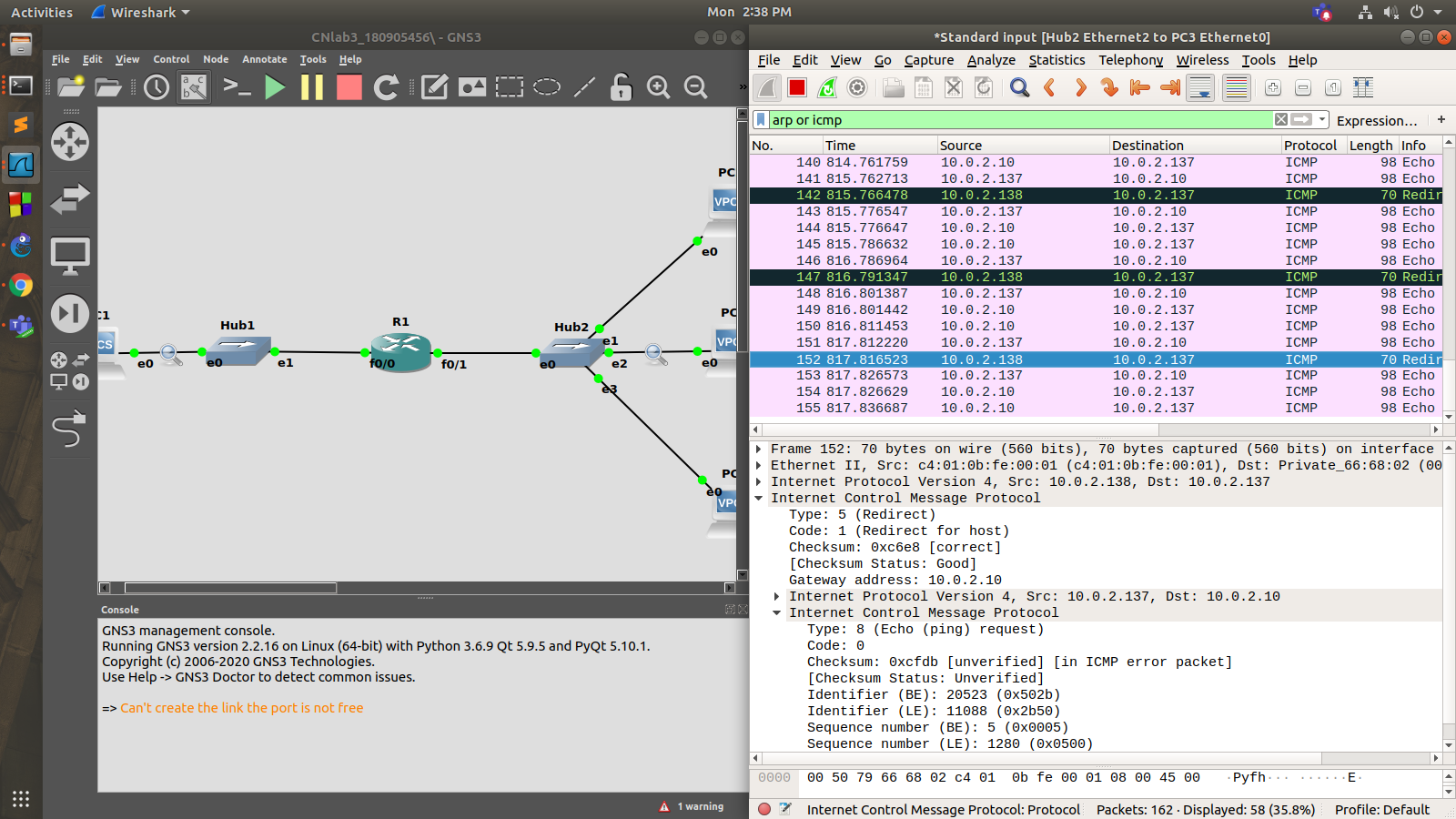






Ping from PC3 to PC2





**Question 2**

Router configurations

**R1:**

R1#enable

R1#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R1(config)#interface f0/0

R1(config-if)#ip add 14.24.74.193 255.255.255.240

R1(config-if)#no shutdown

R1(config-if)#

\*Mar 1 00:01:37.895: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up

\*Mar 1 00:01:38.895: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R1(config-if)#exit

R1(config)#interface f0/1

R1(config-if)#ip add 10.0.1.1 255.255.255.0

R1(config-if)#no shutdown

R1(config-if)#

\*Mar 1 00:02:10.395: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up

\*Mar 1 00:02:11.395: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

R1(config-if)#exit

R1(config)#end

R1#

\*Mar 1 00:02:18.031: %SYS-5-CONFIG\_I: Configured from console by console

R1#write

Building configuration...

[OK]

R1#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R1(config)#ip route 14.24.74.128 255.255.255.192 10.0.1.2

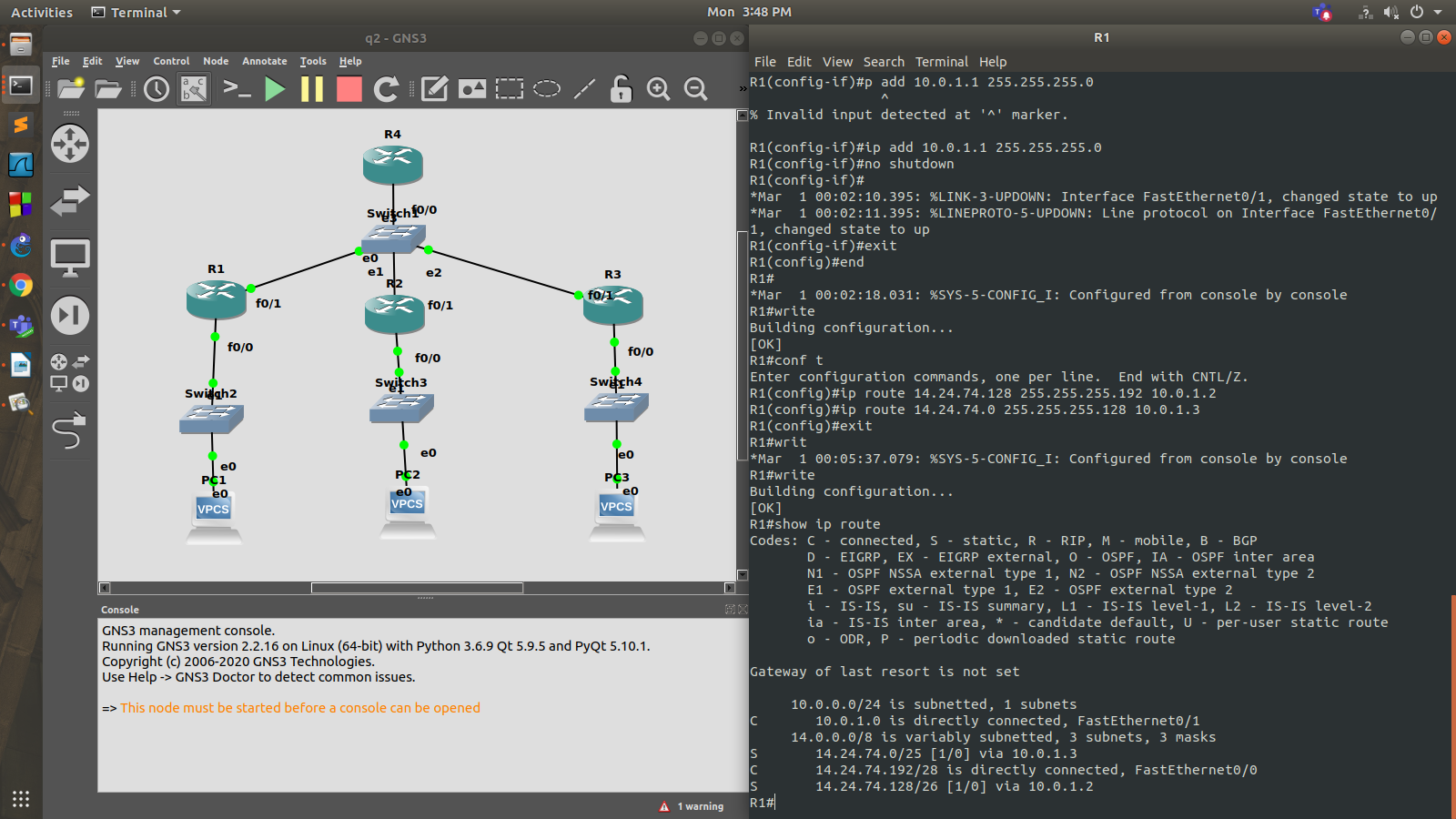
R1(config)#ip route 14.24.74.0 255.255.255.128 10.0.1.3

R1(config)#exit

R1#writ

\*Mar 1 00:05:37.079: %SYS-5-CONFIG\_I: Configured from console by console

R1#write



**R2:**

R2#enable

R2#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R2(config)#interface f0/1

R2(config-if)#ip add 10.0.1.2 255.255.255.0

R2(config-if)#no shutdown

R2(config-if)#

\*Mar 1 00:03:07.707: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up

\*Mar 1 00:03:08.707: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

R2(config-if)#exit

R2(config)#interface f0/0

R2(config-if)#ip add 14.24.74.129 255.255.255.192

R2(config-if)#no shutdown

R2(config-if)#

\*Mar 1 00:03:39.551: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up

\*Mar 1 00:03:40.551: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R2(config-if)#end

R2#

\*Mar 1 00:03:43.811: %SYS-5-CONFIG\_I: Configured from console by console

R2#write

Building configuration...

[OK]

R2#conf t

Enter configuration commands, one per line. End with CNTL/Z.

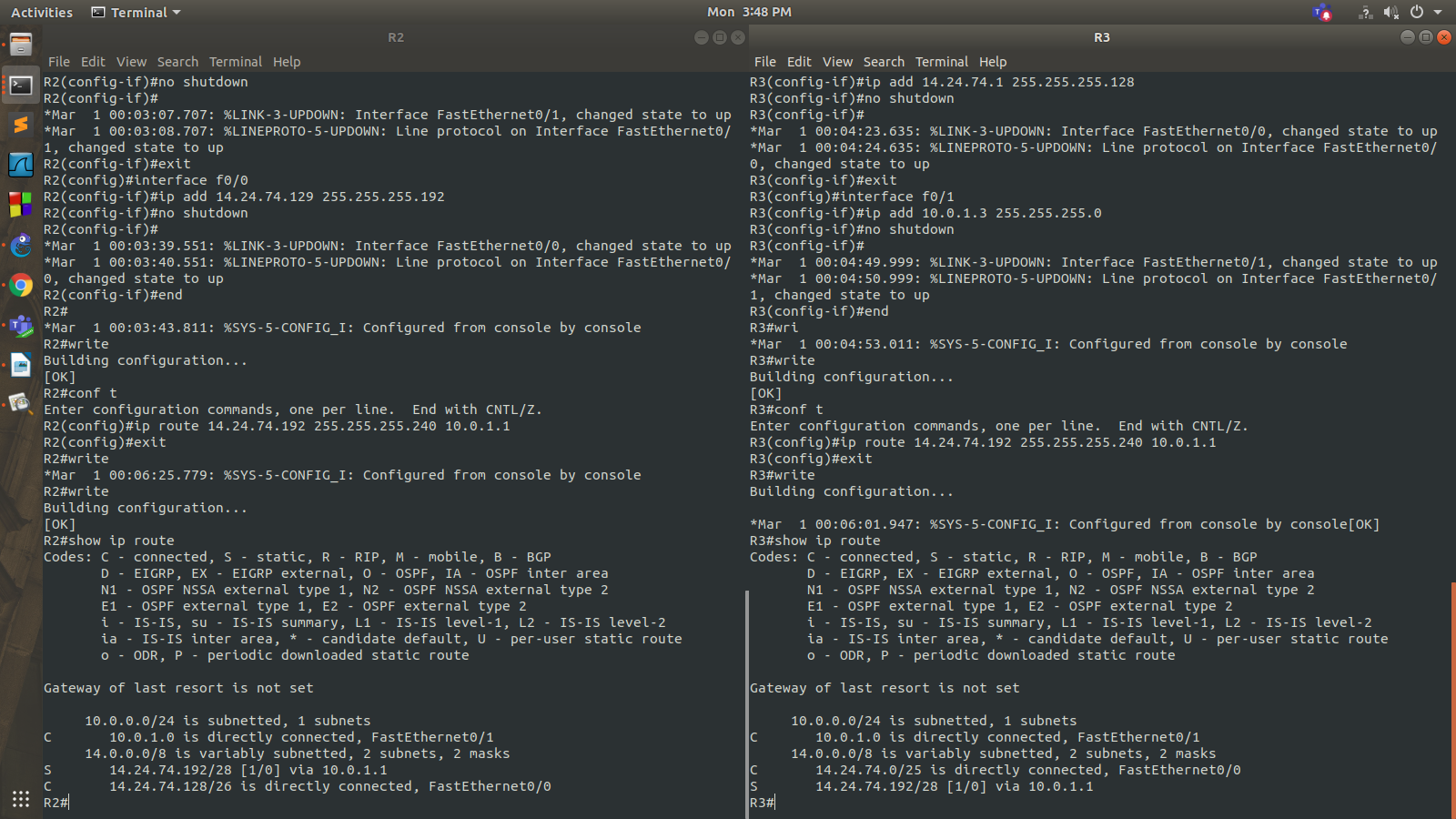
R2(config)#ip route 14.24.74.192 255.255.255.240 10.0.1.1

R2(config)#exit

R2#write

\*Mar 1 00:06:25.779: %SYS-5-CONFIG\_I: Configured from console by console

R2#write



**R3:**

R3#enable

R3#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R3(config)#interface f0/0

R3(config-if)#ip add 14.24.74.1 255.255.255.128

R3(config-if)#no shutdown

R3(config-if)#

\*Mar 1 00:04:23.635: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up

\*Mar 1 00:04:24.635: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R3(config-if)#exit

R3(config)#interface f0/1

R3(config-if)#ip add 10.0.1.3 255.255.255.0

R3(config-if)#no shutdown

R3(config-if)#

\*Mar 1 00:04:49.999: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up

\*Mar 1 00:04:50.999: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

R3(config-if)#end

R3#wri

\*Mar 1 00:04:53.011: %SYS-5-CONFIG\_I: Configured from console by console

R3#write

Building configuration...

[OK]

R3#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R3(config)#ip route 14.24.74.192 255.255.255.240 10.0.1.1

R3(config)#exit

R3#write

PC configurations and pinging from PC1 to PC2 and PC3

