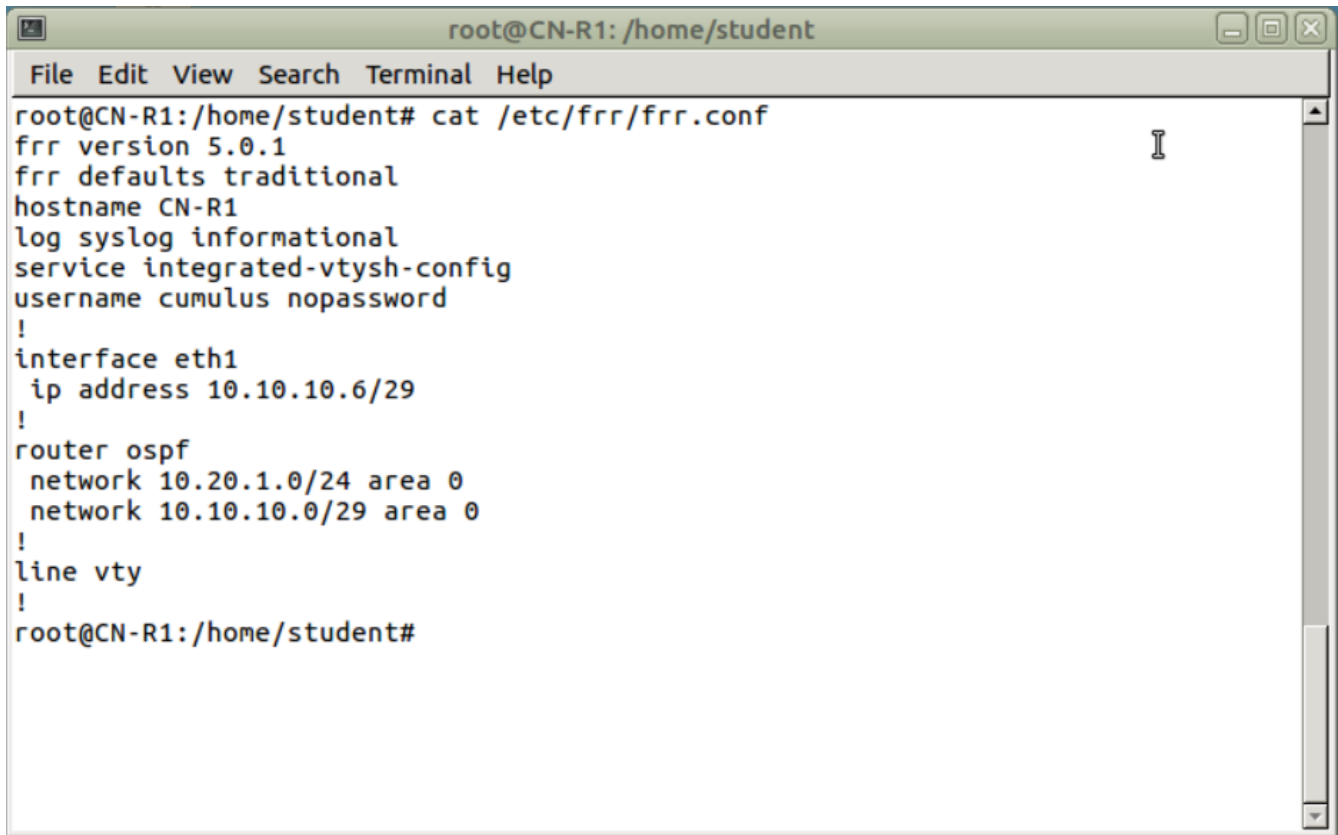


Assignment : OSPF
Computer Networking
Tanmay Dureja (td1391)

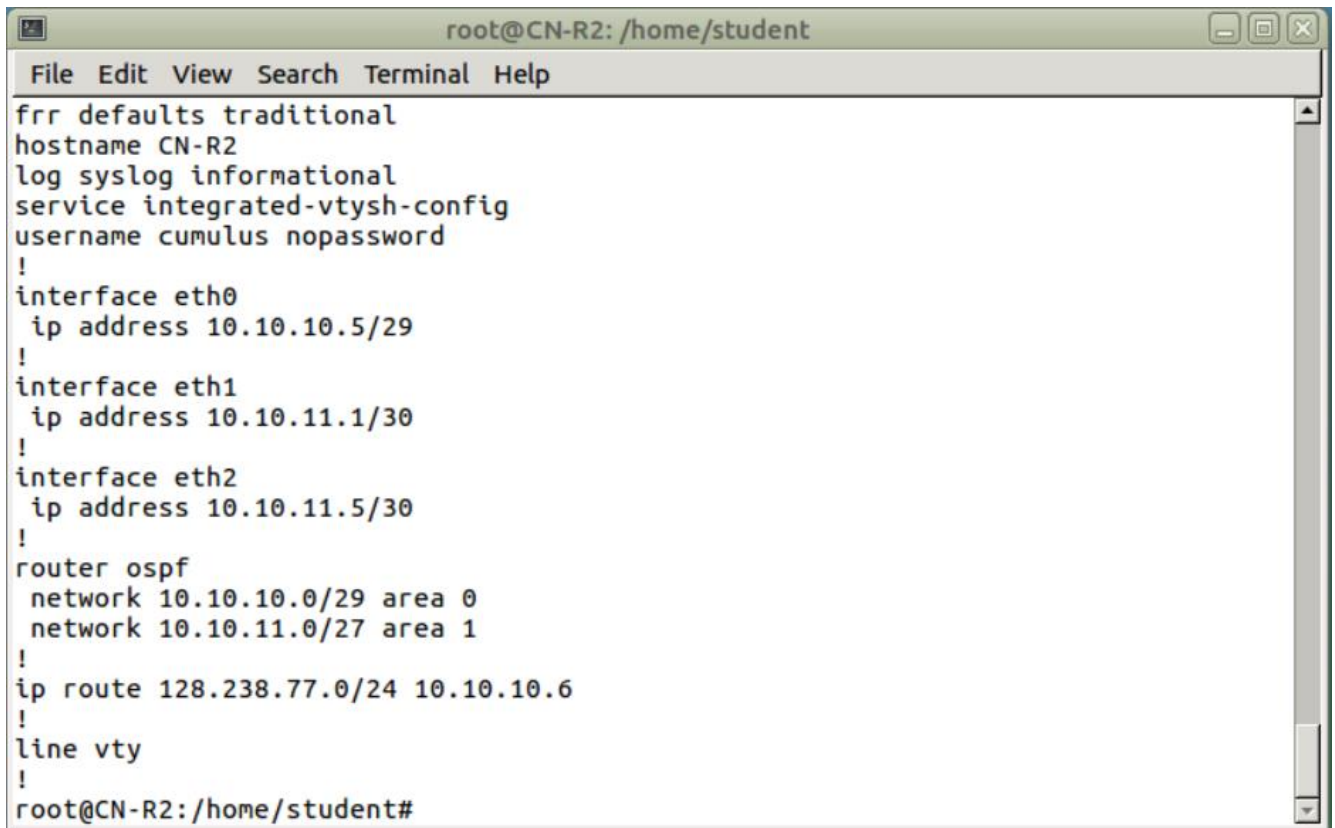
1. Screenshot configurations of R1, R2, R3, and R4.



A terminal window titled 'root@CN-R1: /home/student' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal displays the output of the command 'cat /etc/frr/frr.conf'. The configuration includes frr version 5.0.1, traditional defaults, hostname CN-R1, informational syslog, integrated vtysh service, and a username 'cumulus' with no password. It also shows OSPF configuration for interfaces eth1 and eth0, and a vty line.

```
root@CN-R1:/home/student# cat /etc/frr/frr.conf
frr version 5.0.1
frr defaults traditional
hostname CN-R1
log syslog informational
service integrated-vtysh-config
username cumulus nopassword
!
interface eth1
 ip address 10.10.10.6/29
!
router ospf
 network 10.20.1.0/24 area 0
 network 10.10.10.0/29 area 0
!
line vty
!
root@CN-R1:/home/student#
```

Capture 1 Config File for R1



A terminal window titled 'root@CN-R2: /home/student' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal displays the output of the command 'cat /etc/frr/frr.conf'. The configuration includes traditional defaults, hostname CN-R2, informational syslog, integrated vtysh service, and a username 'cumulus' with no password. It shows OSPF configuration for interfaces eth0, eth1, and eth2, and a static route to 128.238.77.0/24 via 10.10.10.6. It also shows a vty line.

```
root@CN-R2:/home/student# cat /etc/frr/frr.conf
frr defaults traditional
hostname CN-R2
log syslog informational
service integrated-vtysh-config
username cumulus nopassword
!
interface eth0
 ip address 10.10.10.5/29
!
interface eth1
 ip address 10.10.11.1/30
!
interface eth2
 ip address 10.10.11.5/30
!
router ospf
 network 10.10.10.0/29 area 0
 network 10.10.11.0/27 area 1
!
ip route 128.238.77.0/24 10.10.10.6
!
line vty
!
root@CN-R2:/home/student#
```

Capture 2 Config File for R2

```
root@CN-R3: /home/student
File Edit View Search Terminal Help
root@CN-R3:/home/student# cat /etc/frr/frr.conf
frr version 5.0.1
frr defaults traditional
hostname CN-R3
log syslog informational
service integrated-vtysh-config
username cumulus nopassword
!
interface eth0
 ip address 10.10.11.2/30
!
interface eth1
 ip address 10.10.11.9/30
!
router ospf
 network 10.10.11.0/28 area 1
!
ip route 128.238.77.0/24 10.10.11.1
!
line vty
!
root@CN-R3:/home/student#
```

Capture 3 Config File for R3

```
root@CN-R4: /etc/frr
File Edit View Search Terminal Help
frr version 5.0.1
frr defaults traditional
hostname CN-R4
log syslog informational
service integrated-vtysh-config
username cumulus nopassword
!
interface eth0
 ip address 10.10.11.10/30
!
interface eth1
 ip address 10.10.11.6/30
!
interface eth2
 ip address 10.10.11.17/28
!
router ospf
 network 10.10.11.0/27 area 1
!
ip route 128.238.77.0/24 10.10.11.5
!
line vty
!
root@CN-R4:/etc/frr#
```

Capture 4 Config File for R4

2. ICMP results and Wireshark screenshots on R1.

Capturing from eth1 (as superuser)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
2	4.779370581	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
3	10.000101936	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
4	14.779492301	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
5	20.000072608	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
6	24.779632690	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
7	30.000424585	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
8	34.779813788	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
9	40.000379243	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
10	44.780003015	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
11	50.000414530	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
12	54.780059120	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
13	60.000427835	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
14	64.780204440	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
15	70.000502559	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
16	74.780348284	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
17	80.000610487	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
18	84.781682745	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
19	90.000871024	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet

▶ Frame 1: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0
 ▶ Ethernet II, Src: 00:00:00 00:00:04 (00:00:00:00:00:04), Dst: IPv4mcast_05 (01:00:5e:00:00:05)
 ▶ Internet Protocol Version 4, Src: 10.10.10.5, Dst: 224.0.0.5
 ▶ Open Shortest Path First

Capture 5

R2 to R1

```

root@CN-R2: /home/student
File Edit View Search Terminal Help
root@CN-R2:/home/student# ping -c5 10.10.10.6
PING 10.10.10.6 (10.10.10.6) 56(84) bytes of data.
64 bytes from 10.10.10.6: icmp_seq=1 ttl=64 time=0.314 ms
64 bytes from 10.10.10.6: icmp_seq=2 ttl=64 time=0.280 ms
64 bytes from 10.10.10.6: icmp_seq=3 ttl=64 time=0.325 ms
64 bytes from 10.10.10.6: icmp_seq=4 ttl=64 time=0.307 ms
64 bytes from 10.10.10.6: icmp_seq=5 ttl=64 time=0.277 ms

--- 10.10.10.6 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4000ms
rtt min/avg/max/mdev = 0.277/0.300/0.325/0.026 ms
root@CN-R2:/home/student#

```

Capturing from eth1 (as superuser)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
102	125.887073310	10.10.10.6	224.0.0.5	OSPF	138	LS Update
103	126.347492716	10.10.10.5	224.0.0.5	OSPF	98	LS Acknowledge
104	130.002821355	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
105	135.237838612	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
106	137.035415986	10.10.10.5	10.10.10.6	ICMP	98	Echo (ping) request id=0x0e90, seq=1/256, ttl=64 (reply in
107	137.035462819	10.10.10.6	10.10.10.5	ICMP	98	Echo (ping) reply id=0x0e90, seq=1/256, ttl=64 (request i
108	138.034464579	10.10.10.5	10.10.10.6	ICMP	98	Echo (ping) request id=0x0e90, seq=2/512, ttl=64 (reply in
109	138.034499399	10.10.10.6	10.10.10.5	ICMP	98	Echo (ping) reply id=0x0e90, seq=2/512, ttl=64 (request i
110	139.035409065	10.10.10.5	10.10.10.6	ICMP	98	Echo (ping) request id=0x0e90, seq=3/768, ttl=64 (reply in
111	139.035454235	10.10.10.6	10.10.10.5	ICMP	98	Echo (ping) reply id=0x0e90, seq=3/768, ttl=64 (request i
112	140.002941029	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
113	140.034406388	10.10.10.5	10.10.10.6	ICMP	98	Echo (ping) request id=0x0e90, seq=4/1024, ttl=64 (reply in
114	140.034438844	10.10.10.6	10.10.10.5	ICMP	98	Echo (ping) reply id=0x0e90, seq=4/1024, ttl=64 (request
115	141.035570067	10.10.10.5	10.10.10.6	ICMP	98	Echo (ping) request id=0x0e90, seq=5/1280, ttl=64 (reply in
116	141.035598547	10.10.10.6	10.10.10.5	ICMP	98	Echo (ping) reply id=0x0e90, seq=5/1280, ttl=64 (request
117	142.041056255	00:00:00 00:00:02	00:00:00 00:00:04	ARP	42	Who has 10.10.10.5? Tell 10.10.10.6
118	142.041315906	00:00:00 00:00:04	00:00:00 00:00:02	ARP	42	10.10.10.5 is at 00:00:00 00:00:04
119	145.237929124	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
120	150.003010790	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet

▶ Frame 123: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0
 ▶ Ethernet II, Src: 00:00:00 00:00:04 (00:00:00 00:00:04), Dst: IPv4mcast_05 (01:00:5e:00:00:05)
 ▶ Internet Protocol Version 4, Src: 10.10.10.5, Dst: 224.0.0.5
 ▶ Open Shortest Path First

Capture 6 Ping R2 to R1

R3 to R1

```

root@CN-R3: /home/student
File Edit View Search Terminal Help
root@CN-R3:/home/student# ping -c5 10.10.10.6
PING 10.10.10.6 (10.10.10.6) 56(84) bytes of data.
64 bytes from 10.10.10.6: icmp_seq=1 ttl=63 time=0.570 ms
64 bytes from 10.10.10.6: icmp_seq=2 ttl=63 time=0.506 ms
64 bytes from 10.10.10.6: icmp_seq=3 ttl=63 time=0.602 ms
64 bytes from 10.10.10.6: icmp_seq=4 ttl=63 time=0.548 ms
64 bytes from 10.10.10.6: icmp_seq=5 ttl=63 time=0.559 ms

--- 10.10.10.6 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 3997ms
rtt min/avg/max/mdev = 0.506/0.557/0.602/0.031 ms
root@CN-R3:/home/student#

```

Capturing from eth1 (as superuser)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
146	260.004577415	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
147	265.238530129	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
148	269.810348532	10.10.11.2	10.10.10.6	ICMP	98	Echo (ping) request id=0x0d73, seq=1/256, ttl=63 (reply in
149	269.810392419	10.10.10.6	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0d73, seq=1/256, ttl=64 (request i
150	270.004633625	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
151	270.809318093	10.10.11.2	10.10.10.6	ICMP	98	Echo (ping) request id=0x0d73, seq=2/512, ttl=63 (reply in
152	270.809352612	10.10.10.6	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0d73, seq=2/512, ttl=64 (request i
153	271.033323293	10.10.10.6	224.0.0.5	OSPF	194	LS Update
154	271.372657621	10.10.10.5	224.0.0.5	OSPF	98	LS Acknowledge
155	271.393048521	10.10.10.6	224.0.0.5	OSPF	350	LS Update
156	271.393127888	10.10.10.6	224.0.0.5	OSPF	110	LS Update
157	271.808383726	10.10.11.2	10.10.10.6	ICMP	98	Echo (ping) request id=0x0d73, seq=3/768, ttl=63 (reply in
158	271.808417858	10.10.10.6	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0d73, seq=3/768, ttl=64 (request i
159	272.373625722	10.10.10.5	224.0.0.5	OSPF	218	LS Acknowledge
160	272.807488025	10.10.11.2	10.10.10.6	ICMP	98	Echo (ping) request id=0x0d73, seq=4/1024, ttl=63 (reply in
161	272.807524519	10.10.10.6	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0d73, seq=4/1024, ttl=64 (request
162	273.807527471	10.10.11.2	10.10.10.6	ICMP	98	Echo (ping) request id=0x0d73, seq=5/1280, ttl=63 (reply in
163	273.807573604	10.10.10.6	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0d73, seq=5/1280, ttl=64 (request
164	274.818178078	00:00:00:00:00:04	00:00:00:00:00:02	ARP	42	Who has 10.10.10.6? Tell 10.10.10.5

Frame 147: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0
 Ethernet II, Src: 00:00:00:00:00:04 (00:00:00:00:00:04), Dst: IPv4mcast_05 (01:00:5e:00:00:05)
 Internet Protocol Version 4, Src: 10.10.10.5, Dst: 224.0.0.5
 Open Shortest Path First

Capture 7 Ping R3 to R1

R4 to R1

```

root@CN-R4: /etc/frr
File Edit View Search Terminal Help

root@CN-R4:/etc/frr# ping -c5 10.10.10.6
PING 10.10.10.6 (10.10.10.6) 56(84) bytes of data.
64 bytes from 10.10.10.6: icmp_seq=1 ttl=63 time=0.563 ms
64 bytes from 10.10.10.6: icmp_seq=2 ttl=63 time=0.495 ms
64 bytes from 10.10.10.6: icmp_seq=3 ttl=63 time=0.490 ms
64 bytes from 10.10.10.6: icmp_seq=4 ttl=63 time=0.501 ms
64 bytes from 10.10.10.6: icmp_seq=5 ttl=63 time=0.599 ms

--- 10.10.10.6 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4000ms
rtt min/avg/max/mdev = 0.490/0.529/0.599/0.050 ms
root@CN-R4:/etc/frr#

```

Capturing from eth1 (as superuser)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

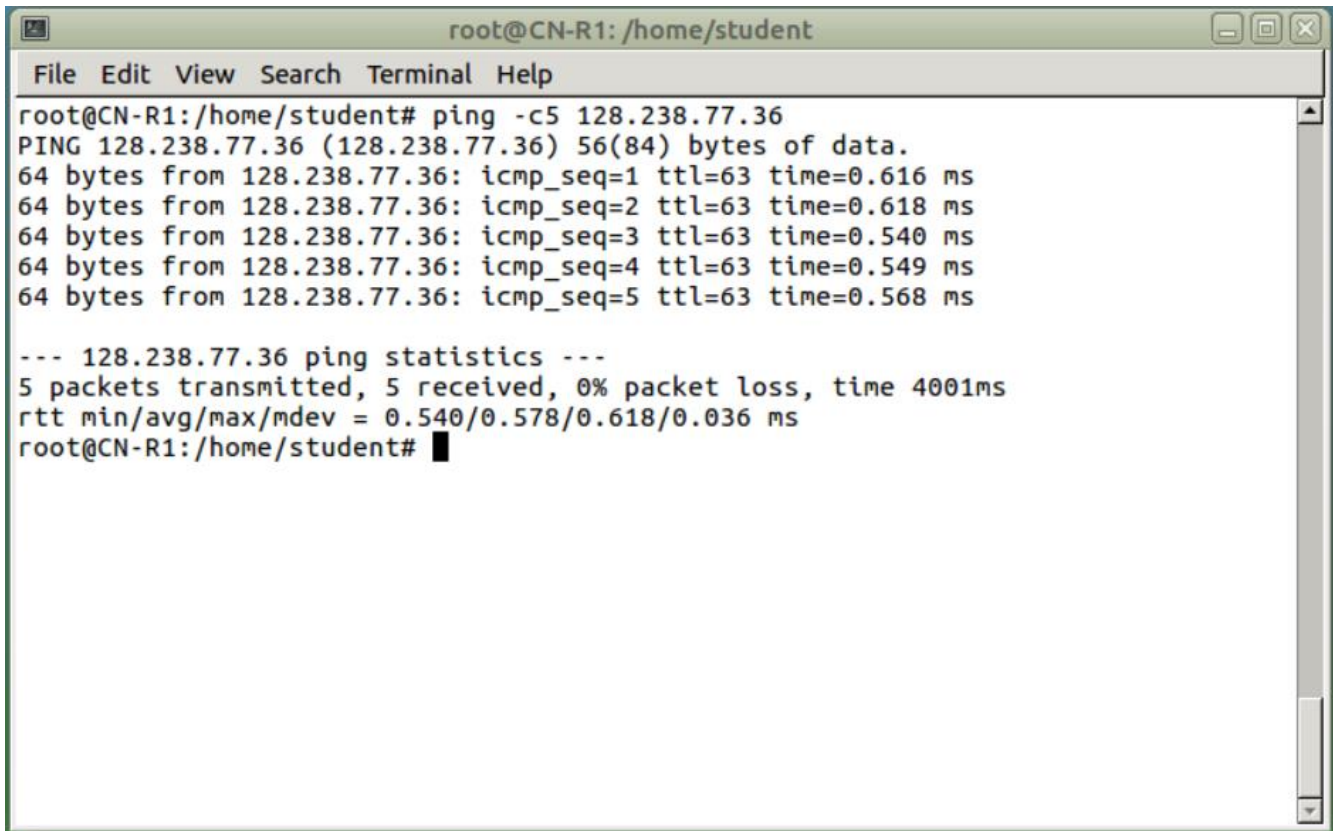
Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
22	25.025090839	10.10.10.5	10.10.10.6	OSPF	98	LS Update
23	25.237185173	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
24	25.812708082	10.10.10.6	224.0.0.5	OSPF	78	LS Acknowledge
25	29.736687218	10.10.11.6	10.10.10.6	ICMP	98	Echo (ping) request id=0x0b11, seq=1/256, ttl=63 (reply in
26	29.736733004	10.10.10.6	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0b11, seq=1/256, ttl=64 (request i
27	30.001868339	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
28	30.034220088	00:00:00 00:00:04	00:00:00 00:00:02	ARP	42	Who has 10.10.10.6? Tell 10.10.10.5
29	30.034258544	00:00:00 00:00:02	00:00:00 00:00:04	ARP	42	10.10.10.6 is at 00:00:00:00:00:02
30	30.736389939	10.10.11.6	10.10.10.6	ICMP	98	Echo (ping) request id=0x0b11, seq=2/512, ttl=63 (reply in
31	30.736423138	10.10.10.6	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0b11, seq=2/512, ttl=64 (request i
32	31.736653412	10.10.11.6	10.10.10.6	ICMP	98	Echo (ping) request id=0x0b11, seq=3/768, ttl=63 (reply in
33	31.736684995	10.10.10.6	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0b11, seq=3/768, ttl=64 (request i
34	32.736671438	10.10.11.6	10.10.10.6	ICMP	98	Echo (ping) request id=0x0b11, seq=4/1024, ttl=63 (reply in
35	32.736705281	10.10.10.6	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0b11, seq=4/1024, ttl=64 (request
36	33.736753803	10.10.11.6	10.10.10.6	ICMP	98	Echo (ping) request id=0x0b11, seq=5/1280, ttl=63 (reply in
37	33.736788256	10.10.10.6	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0b11, seq=5/1280, ttl=64 (request
38	35.237171241	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
39	35.631137474	10.10.10.6	224.0.0.5	OSPF	110	LS Update
40	35.631194514	10.10.10.6	224.0.0.5	OSPF	94	LS Update

Frame 1: 82 bytes on wire (656 bits), 82 bytes captured (656 bits) on interface 0
 Ethernet II, Src: 00:00:00 00:00:02 (00:00:00:00:00:02), Dst: IPv4mcast_05 (01:00:5e:00:00:05)
 Internet Protocol Version 4, Src: 10.10.10.6, Dst: 224.0.0.5
 Open Shortest Path First

Capture 8 Ping R4 to R1

3. Screenshots depicting successful ping requests to 128.238.77.36 from R1, R2, R3, and R4

A terminal window titled 'root@CN-R1: /home/student' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the execution of a ping command: 'root@CN-R1:/home/student# ping -c5 128.238.77.36'. The output displays five successful ping responses with 64 bytes of data, TTL of 63, and round-trip times ranging from 0.540 ms to 0.618 ms. It concludes with statistics: '5 packets transmitted, 5 received, 0% packet loss, time 4001ms' and 'rtt min/avg/max/mdev = 0.540/0.578/0.618/0.036 ms'. The prompt 'root@CN-R1:/home/student#' is followed by a cursor.

```
root@CN-R1: /home/student
File Edit View Search Terminal Help
root@CN-R1:/home/student# ping -c5 128.238.77.36
PING 128.238.77.36 (128.238.77.36) 56(84) bytes of data.
64 bytes from 128.238.77.36: icmp_seq=1 ttl=63 time=0.616 ms
64 bytes from 128.238.77.36: icmp_seq=2 ttl=63 time=0.618 ms
64 bytes from 128.238.77.36: icmp_seq=3 ttl=63 time=0.540 ms
64 bytes from 128.238.77.36: icmp_seq=4 ttl=63 time=0.549 ms
64 bytes from 128.238.77.36: icmp_seq=5 ttl=63 time=0.568 ms

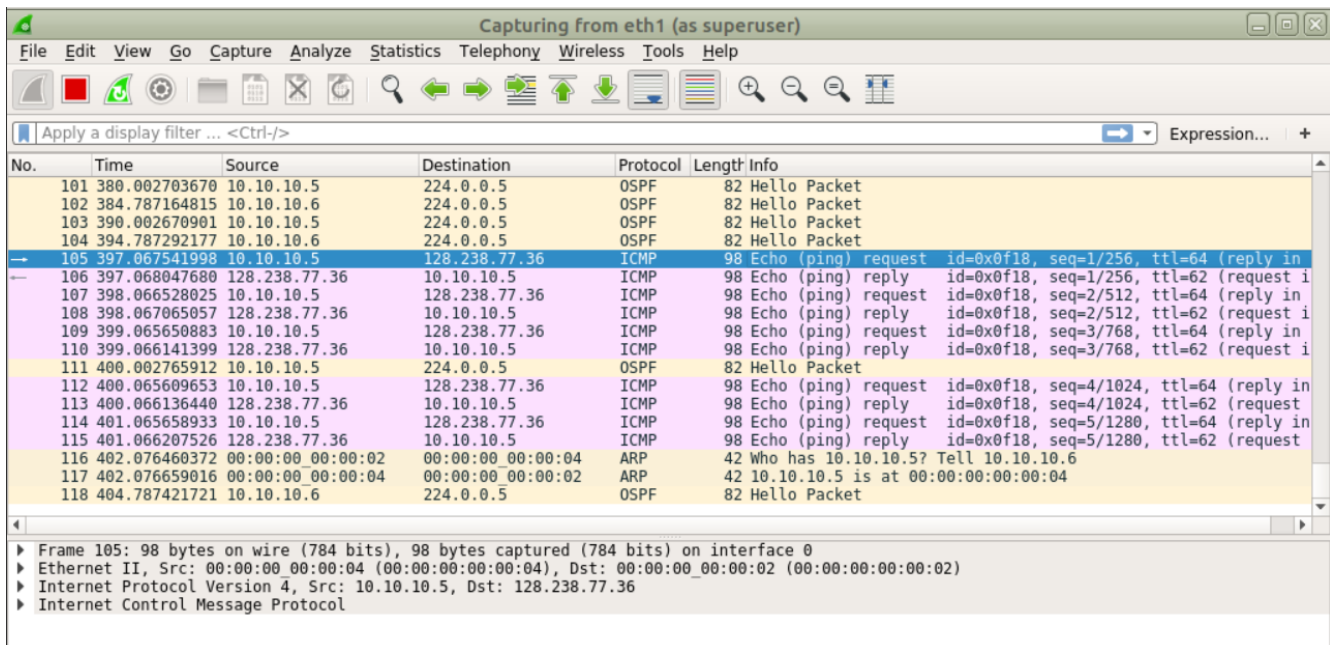
--- 128.238.77.36 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4001ms
rtt min/avg/max/mdev = 0.540/0.578/0.618/0.036 ms
root@CN-R1:/home/student#
```

Capture 9 Ping 128.238.77.36 from R1


```
root@CN-R2: /home/student
File Edit View Search Terminal Help
root@CN-R2:/home/student# ping -c5 128.238.77.36
PING 128.238.77.36 (128.238.77.36) 56(84) bytes of data.
64 bytes from 128.238.77.36: icmp_seq=1 ttl=62 time=0.963 ms
64 bytes from 128.238.77.36: icmp_seq=2 ttl=62 time=0.896 ms
64 bytes from 128.238.77.36: icmp_seq=3 ttl=62 time=0.820 ms
64 bytes from 128.238.77.36: icmp_seq=4 ttl=62 time=0.755 ms
64 bytes from 128.238.77.36: icmp_seq=5 ttl=62 time=0.829 ms

--- 128.238.77.36 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4000ms
rtt min/avg/max/mdev = 0.755/0.852/0.963/0.077 ms
root@CN-R2:/home/student#
```

Capture 10 Ping 128.238.77.36 from R2



Capturing from eth1 (as superuser)

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
101	380.002703670	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
102	384.787164815	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
103	390.002670901	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
104	394.787292177	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
105	397.067541998	10.10.10.5	128.238.77.36	ICMP	98	Echo (ping) request id=0xf18, seq=1/256, ttl=64 (reply in
106	397.068047680	128.238.77.36	10.10.10.5	ICMP	98	Echo (ping) reply id=0xf18, seq=1/256, ttl=62 (request i
107	398.066528025	10.10.10.5	128.238.77.36	ICMP	98	Echo (ping) request id=0xf18, seq=2/512, ttl=64 (reply in
108	398.067065057	128.238.77.36	10.10.10.5	ICMP	98	Echo (ping) reply id=0xf18, seq=2/512, ttl=62 (request i
109	399.065650883	10.10.10.5	128.238.77.36	ICMP	98	Echo (ping) request id=0xf18, seq=3/768, ttl=64 (reply in
110	399.066141399	128.238.77.36	10.10.10.5	ICMP	98	Echo (ping) reply id=0xf18, seq=3/768, ttl=62 (request i
111	400.002765912	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
112	400.065609653	10.10.10.5	128.238.77.36	ICMP	98	Echo (ping) request id=0xf18, seq=4/1024, ttl=64 (reply in
113	400.066136440	128.238.77.36	10.10.10.5	ICMP	98	Echo (ping) reply id=0xf18, seq=4/1024, ttl=62 (request
114	401.065658933	10.10.10.5	128.238.77.36	ICMP	98	Echo (ping) request id=0xf18, seq=5/1280, ttl=64 (reply in
115	401.066207526	128.238.77.36	10.10.10.5	ICMP	98	Echo (ping) reply id=0xf18, seq=5/1280, ttl=62 (request
116	402.076460372	00:00:00:00:00:02	00:00:00:00:00:04	ARP	42	Who has 10.10.10.5? Tell 10.10.10.6
117	402.076659016	00:00:00:00:00:04	00:00:00:00:00:02	ARP	42	10.10.10.5 is at 00:00:00:00:00:04
118	404.787421721	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet

Frame 105: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
Ethernet II, Src: 00:00:00:00:00:04 (00:00:00:00:00:04), Dst: 00:00:00:00:00:02 (00:00:00:00:00:02)
Internet Protocol Version 4, Src: 10.10.10.5, Dst: 128.238.77.36
Internet Control Message Protocol

Capture 11 Wireshark Ping 128.238.77.36 from R2

```
root@CN-R3: /home/student
File Edit View Search Terminal Help
root@CN-R3:/home/student# ping -c5 128.238.77.36
PING 128.238.77.36 (128.238.77.36) 56(84) bytes of data.
64 bytes from 128.238.77.36: icmp_seq=1 ttl=61 time=1.14 ms
64 bytes from 128.238.77.36: icmp_seq=2 ttl=61 time=1.20 ms
64 bytes from 128.238.77.36: icmp_seq=3 ttl=61 time=1.02 ms
64 bytes from 128.238.77.36: icmp_seq=4 ttl=61 time=1.16 ms
64 bytes from 128.238.77.36: icmp_seq=5 ttl=61 time=1.06 ms

--- 128.238.77.36 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4004ms
rtt min/avg/max/mdev = 1.023/1.118/1.202/0.078 ms
root@CN-R3:/home/student#
```

Capture 12 Ping 128.238.77.36 from R3

Capturing from eth1 (as superuser)

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression... +

No.	Time	Source	Destination	Protocol	Length	Info
68	274.784098694	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
69	280.001788645	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
70	284.784207844	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
71	290.001857659	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
72	293.625530748	10.10.11.2	128.238.77.36	ICMP	98	Echo (ping) request id=0x0dfb, seq=1/256, ttl=63 (reply in
73	293.626031197	128.238.77.36	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0dfb, seq=1/256, ttl=62 (request i
74	294.626703294	10.10.11.2	128.238.77.36	ICMP	98	Echo (ping) request id=0x0dfb, seq=2/512, ttl=63 (reply in
75	294.627236466	128.238.77.36	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0dfb, seq=2/512, ttl=62 (request i
76	294.784338129	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
77	295.627994137	10.10.11.2	128.238.77.36	ICMP	98	Echo (ping) request id=0x0dfb, seq=3/768, ttl=63 (reply in
78	295.628506380	128.238.77.36	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0dfb, seq=3/768, ttl=62 (request i
79	296.629163820	10.10.11.2	128.238.77.36	ICMP	98	Echo (ping) request id=0x0dfb, seq=4/1024, ttl=63 (reply in
80	296.629718417	128.238.77.36	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0dfb, seq=4/1024, ttl=62 (request
81	297.630319816	10.10.11.2	128.238.77.36	ICMP	98	Echo (ping) request id=0x0dfb, seq=5/1280, ttl=63 (reply in
82	297.630782788	128.238.77.36	10.10.11.2	ICMP	98	Echo (ping) reply id=0x0dfb, seq=5/1280, ttl=62 (request
83	298.636476970	00:00:00 00:00:02	00:00:00 00:00:04	ARP	42	Who has 10.10.10.5? Tell 10.10.10.6
84	298.636746788	00:00:00 00:00:04	00:00:00 00:00:02	ARP	42	10.10.10.5 is at 00:00:00:00:00:04
85	300.001974545	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
86	304.784500988	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet

Frame 72: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
Ethernet II, Src: 00:00:00 00:00:04 (00:00:00:00:00:04), Dst: 00:00:00 00:00:02 (00:00:00:00:00:02)
Internet Protocol Version 4, Src: 10.10.11.2, Dst: 128.238.77.36
Internet Control Message Protocol

Capture 13 Wireshark Ping 128.238.77.36 from R3

```
root@CN-R4: /etc/frr
File Edit View Search Terminal Help
root@CN-R4:/etc/frr# ping -c5 128.238.77.36
PING 128.238.77.36 (128.238.77.36) 56(84) bytes of data.
64 bytes from 128.238.77.36: icmp_seq=1 ttl=61 time=1.22 ms
64 bytes from 128.238.77.36: icmp_seq=2 ttl=61 time=1.20 ms
64 bytes from 128.238.77.36: icmp_seq=3 ttl=61 time=1.21 ms
64 bytes from 128.238.77.36: icmp_seq=4 ttl=61 time=1.16 ms
64 bytes from 128.238.77.36: icmp_seq=5 ttl=61 time=1.02 ms

--- 128.238.77.36 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 1.029/1.167/1.225/0.072 ms
root@CN-R4:/etc/frr#
```

Capture 14 Ping 128.238.77.36 from R4

No.	Time	Source	Destination	Protocol	Length	Info
38	184.782963553	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
39	186.050754842	10.10.11.6	128.238.77.36	ICMP	98	Echo (ping) request id=0x0bc3, seq=1/256, ttl=63 (reply in
40	186.051331496	128.238.77.36	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0bc3, seq=1/256, ttl=62 (request i
41	187.051964781	10.10.11.6	128.238.77.36	ICMP	98	Echo (ping) request id=0x0bc3, seq=2/512, ttl=63 (reply in
42	187.052456201	128.238.77.36	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0bc3, seq=2/512, ttl=62 (request i
43	188.053291432	10.10.11.6	128.238.77.36	ICMP	98	Echo (ping) request id=0x0bc3, seq=3/768, ttl=63 (reply in
44	188.053843205	128.238.77.36	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0bc3, seq=3/768, ttl=62 (request i
45	189.054476605	10.10.11.6	128.238.77.36	ICMP	98	Echo (ping) request id=0x0bc3, seq=4/1024, ttl=63 (reply in
46	189.055045482	128.238.77.36	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0bc3, seq=4/1024, ttl=62 (request
47	190.001305272	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
48	190.056213323	10.10.11.6	128.238.77.36	ICMP	98	Echo (ping) request id=0x0bc3, seq=5/1280, ttl=63 (reply in
49	190.056739251	128.238.77.36	10.10.11.6	ICMP	98	Echo (ping) reply id=0x0bc3, seq=5/1280, ttl=62 (request
50	191.057570594	00:00:00_00:00:04	00:00:00_00:00:02	ARP	42	Who has 10.10.10.6? Tell 10.10.10.5
51	191.057611208	00:00:00_00:00:02	00:00:00_00:00:04	ARP	42	10.10.10.6 is at 00:00:00:00:00:02
52	194.783079884	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
53	200.001299656	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet
54	204.783188474	10.10.10.6	224.0.0.5	OSPF	82	Hello Packet
55	210.001283491	10.10.10.5	224.0.0.5	OSPF	82	Hello Packet

Frame 39: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
Ethernet II, Src: 00:00:00_00:00:04 (00:00:00:00:00:04), Dst: 00:00:00_00:00:02 (00:00:00:00:00:02)
Internet Protocol Version 4, Src: 10.10.11.6, Dst: 128.238.77.36
Internet Control Message Protocol

Capture 15 Wireshark Ping 128.238.77.36 from R4