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Week number: 8

Name of experiment: IPv4 Static Addressing and Routing

Date: 08-11-2020

Objectives of the experiment: Understand the building blocks and usage of ClayNet Network

Virtualization platform with reference to OSI Layer.

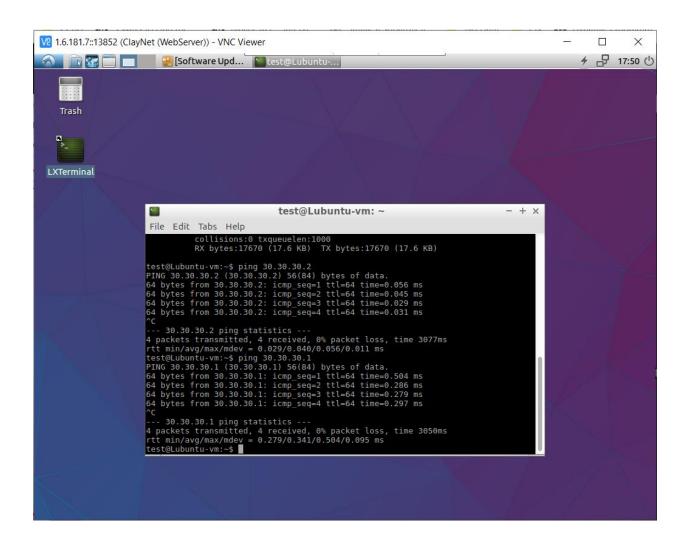
Topology 1:

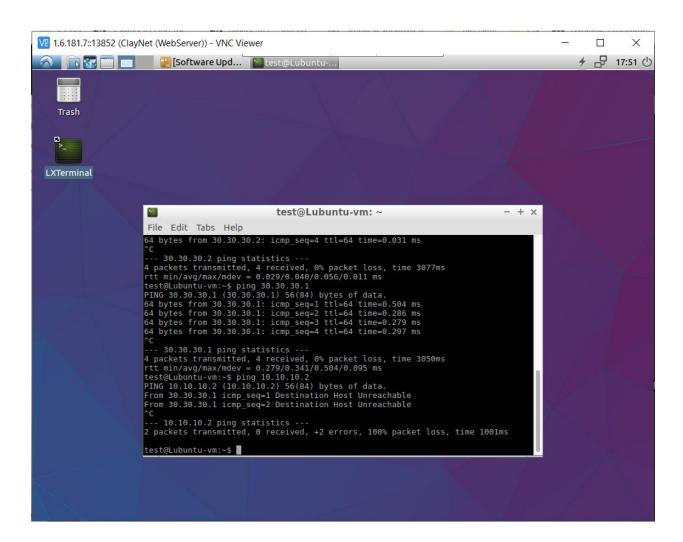
Topology-



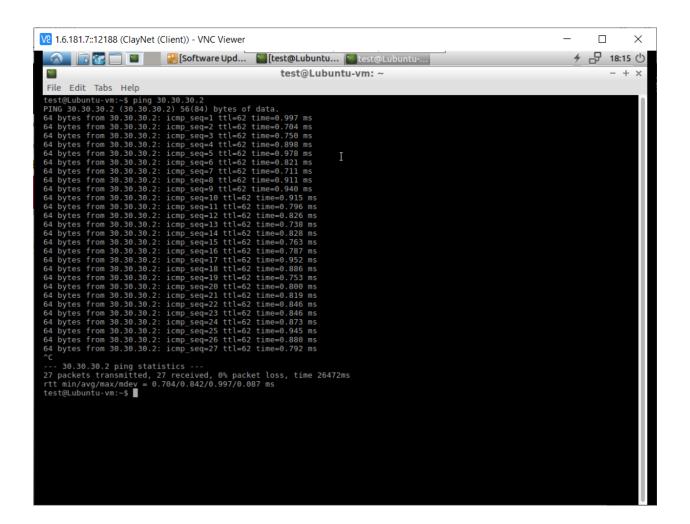
Pinging-

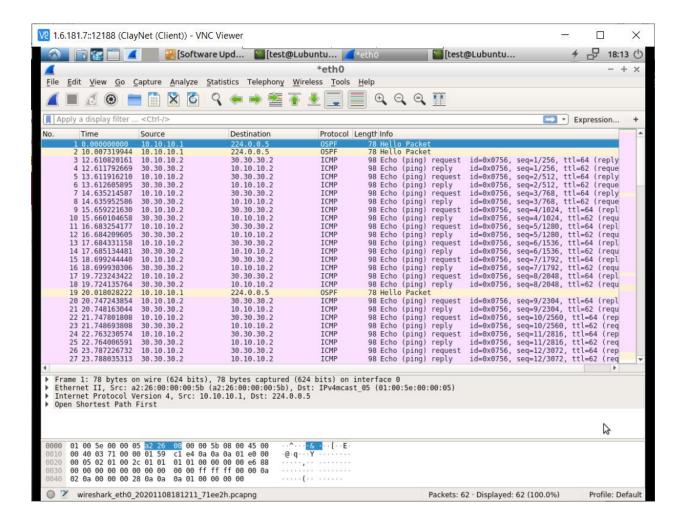
Web server-





Client-

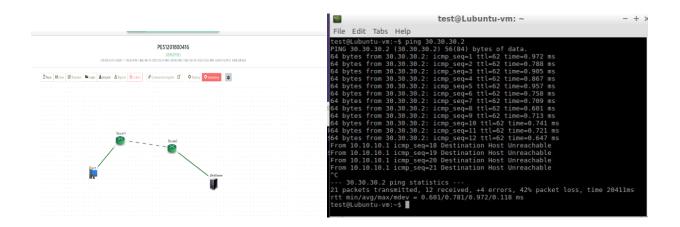




Observations:

- How many hops will client take to reach the server?
- It takes three hops.
- Observe the RTT and justify your observation.
- 0.842 ms is the average RTT. The number of hops are few, hence the RTT is also low.
- While pinging, cut the link between Router1 and Router3. What will happen now?

We get a message saying 'Destination host unreachable'.



33 29.143976098	10.10.10.2	30.30.30.2	ICMP	98 Echo (ping) request id=0x07e1, seq=18/4608, ttl=64 (no
34 29.144178162	10.10.10.1	10.10.10.2	ICMP	70 Destination unreachable (Host unreachable)
35 30.030462760	10.10.10.1	224.0.0.5	0SPF	78 Hello Packet
36 30.167985168	10.10.10.2	30.30.30.2	ICMP	98 Echo (ping) request id=0x07e1, seq=19/4864, ttl=64 (no
37 30.168164220	10.10.10.1	10.10.10.2	ICMP	70 Destination unreachable (Host unreachable)
38 31.192004309	10.10.10.2	30.30.30.2	ICMP	98 Echo (ping) request id=0x07e1, seq=20/5120, ttl=64 (no
39 31.192281186	10.10.10.1	10.10.10.2	ICMP	70 Destination unreachable (Host unreachable)
40 32.216018418	10.10.10.2	30.30.30.2	ICMP	98 Echo (ping) request id=0x07e1, seq=21/5376, ttl=64 (no
41 32.216301261	10.10.10.1	10.10.10.2	ICMP	70 Destination unreachable (Host unreachable)
42 40.040668773	10.10.10.1	224.0.0.5	0SPF	78 Hello Packet
43 50.054185745	10.10.10.1	224.0.0.5	0SPF	78 Hello Packet
44 60.061084091	10.10.10.1	224.0.0.5	0SPF	78 Hello Packet
4.1				