COMPUTER NETWORKS LABORATORY

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5 'A'

WEEK – 8 - Understand the building blocks and usage of ClayNet Network Virtualization platform with reference to OSI Layer.

Date: 16/11/2020

Objectives of the Lab:

• Understand the building blocks of ClayNet.

• Build a simple client-server network using routers, switches, and network hosts.

• To learn the static IP routing behavior such as default and static routes and routing tables.

• Use common network utilities to verify LAN operation and analyze data traffic.

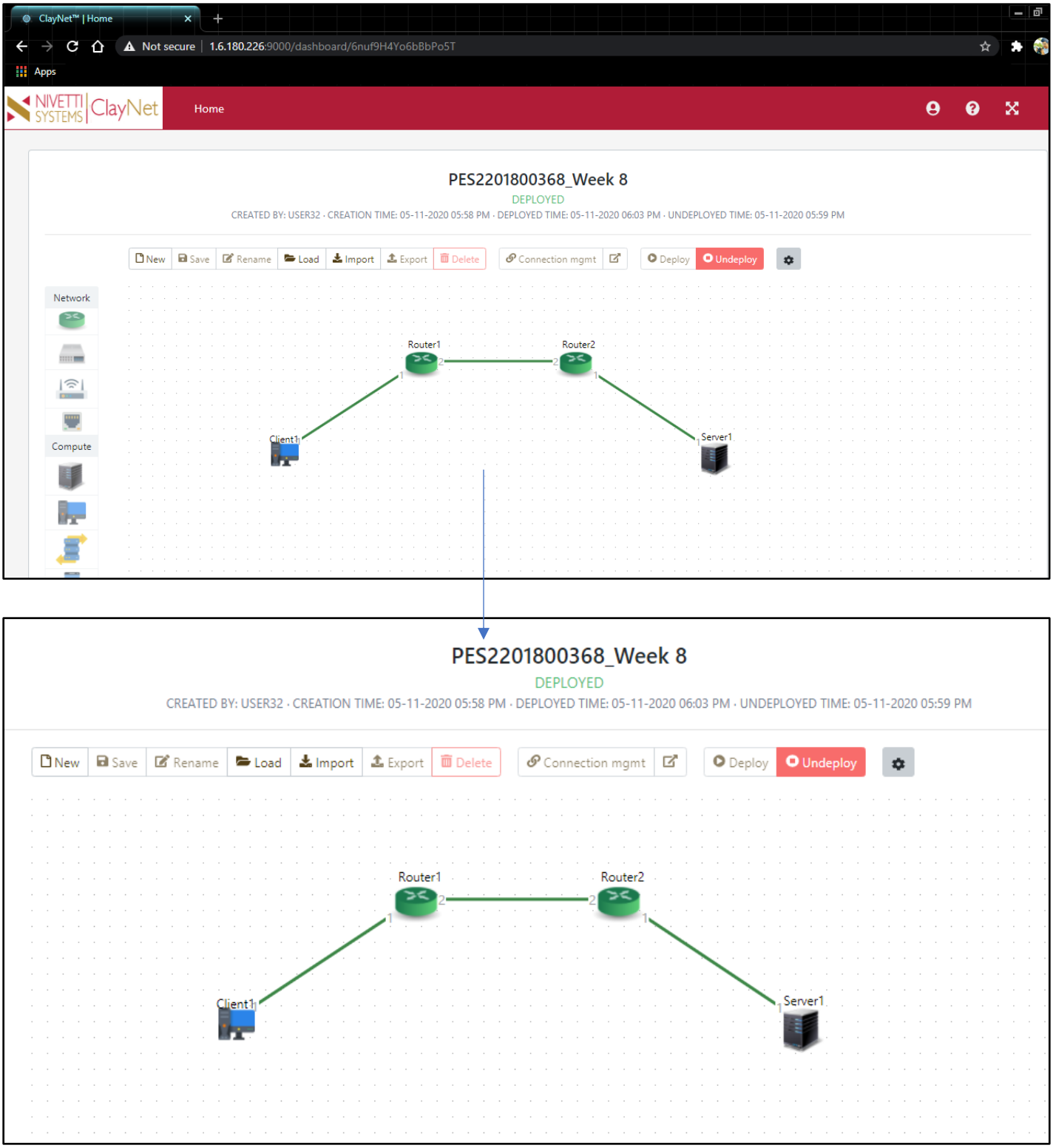
Prerequisites:

This lab assumes some understanding of the building blocks of communication networks and basic client-server architecture.

To access ClayNet, type **http://1.6.180.226:9000/** in browser**.**

Topology 1:

Create a topology in ClayNet, as shown in following figure.



All the configurations and connections to the topology are made by following the instructions given. The routing table entries are manually provided using commands in the router console.

Client1

IP Address ---> 10.10.10.2

Gateway ---> 10.10.10.1

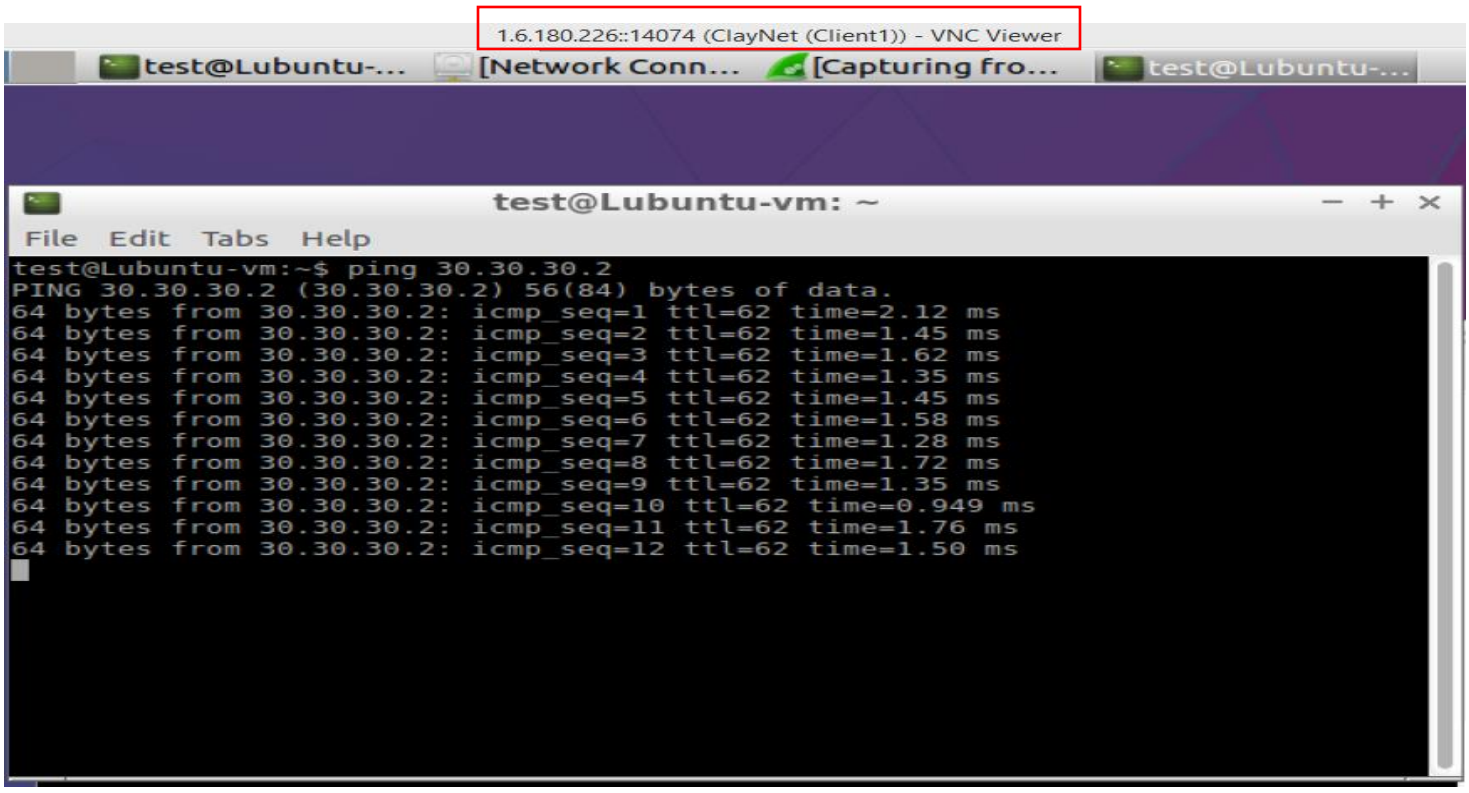
Server1:

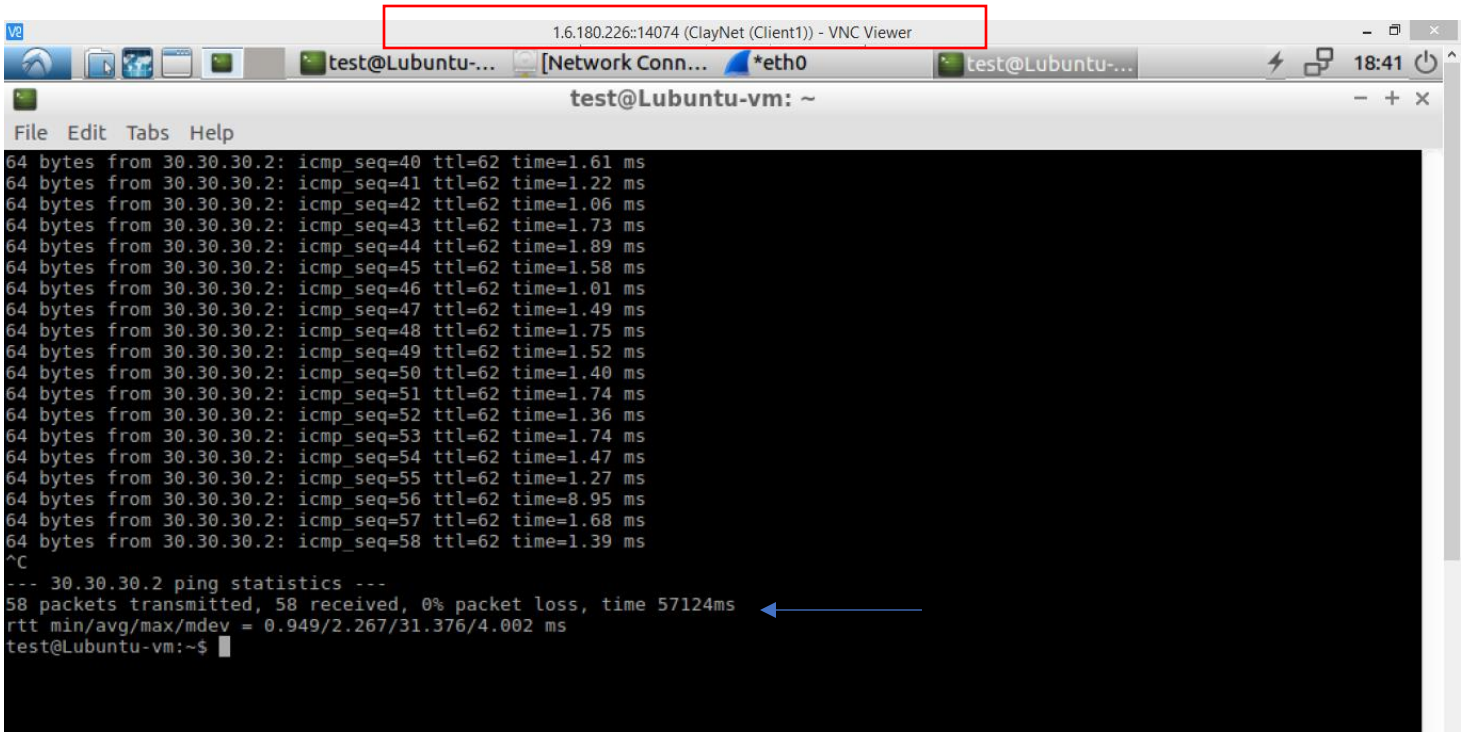
IP Address ---> 30.30.30.2

Gateway ---> 30.30.30.1

ROUTERS	DESTINATION	NEXT HOP GATEWAY	VIA
Router1	30.30.30.0	20.20.20.2	Direct
Router2	10.10.10.0	20.20.20.1	Direct

From the remote Desktop in Client1, we ping the server1 using the IP address. If all the connections and routing table entries are correct, we can capture packets transferred to and received from server1.





WIRESHARK CAPTURE:-