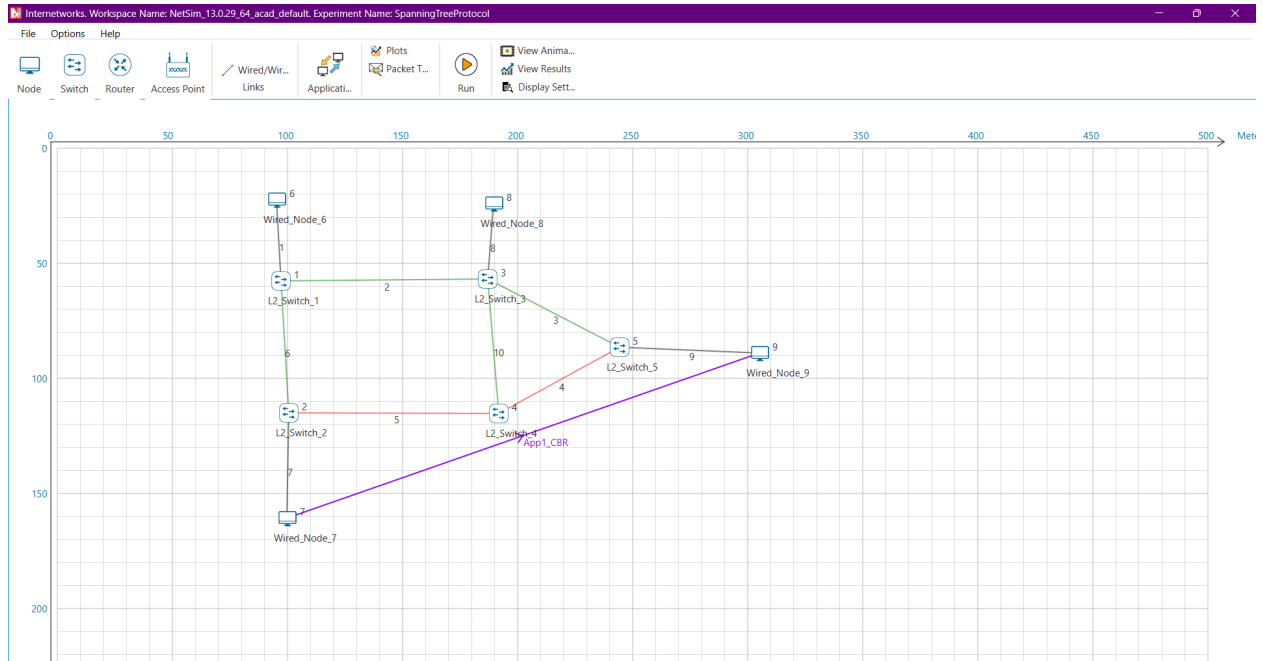
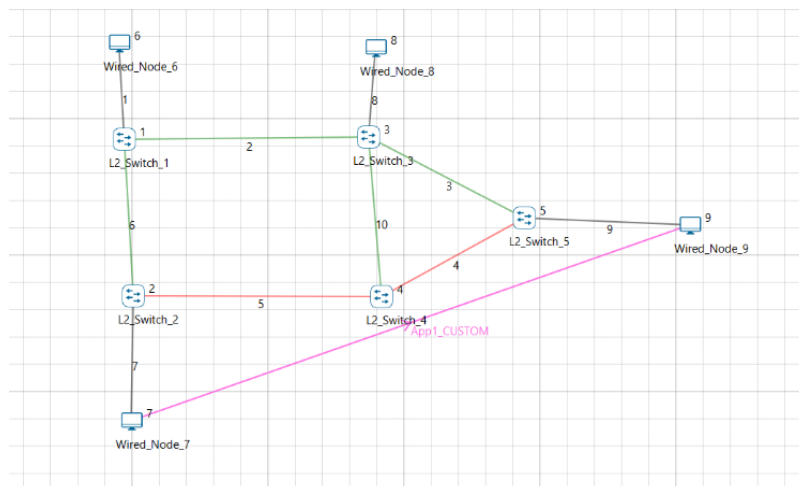


# Experiment 1



Que1	Switch	BLOCKED PORTS	
	Switch 2	Output 1 - Switch 4	
	Switch 4	Output 2 - Switch 2	
		Output 1 - Switch 5	
	Switch 5	Output 2- Switch 4	

## Que2



### Que3

The screenshot displays a network simulation results window with a sidebar on the left and a main content area. The sidebar includes a tree view with 'IP Forwarding Table' and 'Switch Mac address' expanded. Below the tree are buttons for 'Export Results (.xml/.csv)', 'Print Results (.html)', 'Open Packet Traces', 'Open Event Traces', 'Log Files', and 'Revert To Original View'. The main content area contains five overlapping windows, each showing a table for a specific L2 switch. Each table has columns for 'Mac Address', 'Type', and 'OutPort'. The windows are titled 'L2\_SWITCH\_1\_Table', 'L2\_SWITCH\_2\_Table', 'L2\_SWITCH\_3\_Table', 'L2\_SWITCH\_4\_Table', and 'L2\_SWITCH\_5\_Table'. Each table also has a 'Detailed View' checkbox.

Mac Address	Type	OutPort
AF1D00000501	Dynamic	1
AF1D00000301	Dynamic	2
AF1D00000202	Dynamic	3
AF1D00000701	Dynamic	3
AF1D00000901	Dynamic	2

Mac Address	Type	OutPort
AF1D00000402	Dynamic	1
AF1D00000103	Dynamic	2
AF1D00000701	Dynamic	3
AF1D00000901	Dynamic	2

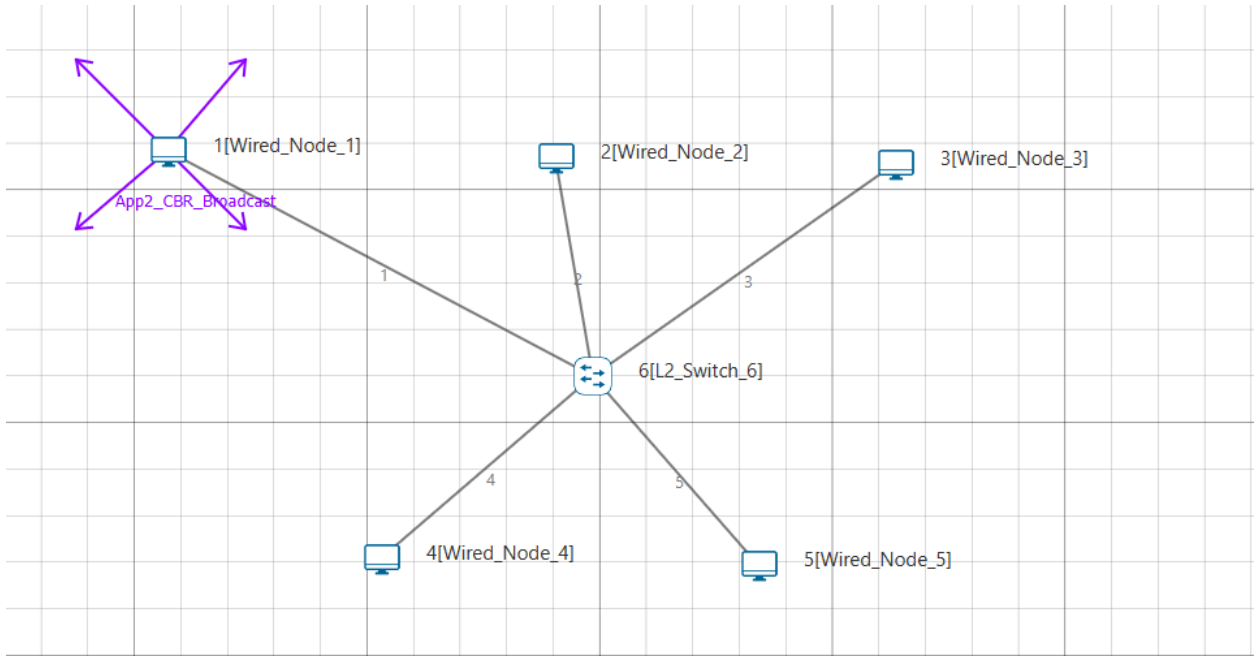
Mac Address	Type	OutPort
AF1D00000102	Dynamic	1
AF1D00000501	Dynamic	2
AF1D00000801	Dynamic	3
AF1D00000403	Dynamic	4
AF1D00000701	Dynamic	1
AF1D00000901	Dynamic	2

Mac Address	Type	OutPort
AF1D00000502	Dynamic	1
AF1D00000701	Dynamic	2
AF1D00000304	Dynamic	3
AF1D00000701	Dynamic	3

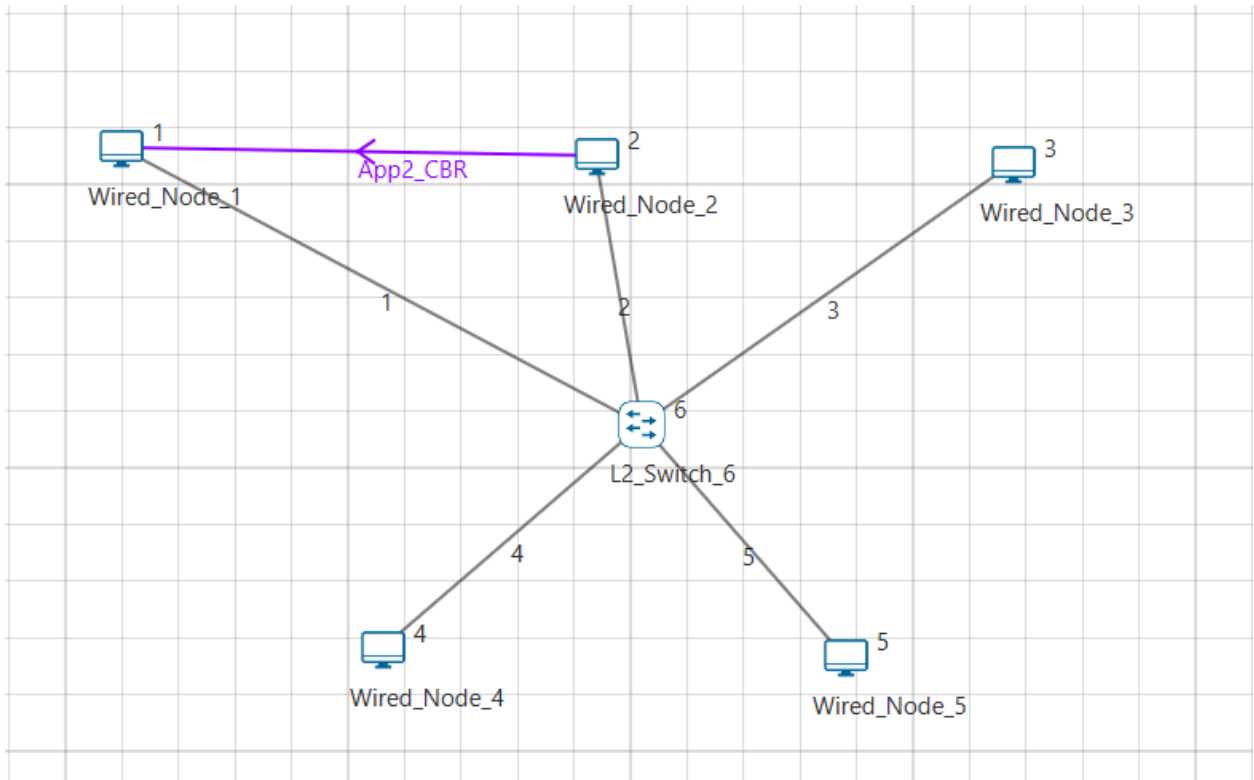
Mac Address	Type	OutPort
AF1D00000302	Dynamic	1
AF1D00000401	Dynamic	2
AF1D00000901	Dynamic	3
AF1D00000701	Dynamic	1

### Experiment 2

a)

[illegible]

b)



Application\_Metrics\_Table

Application\_Metrics

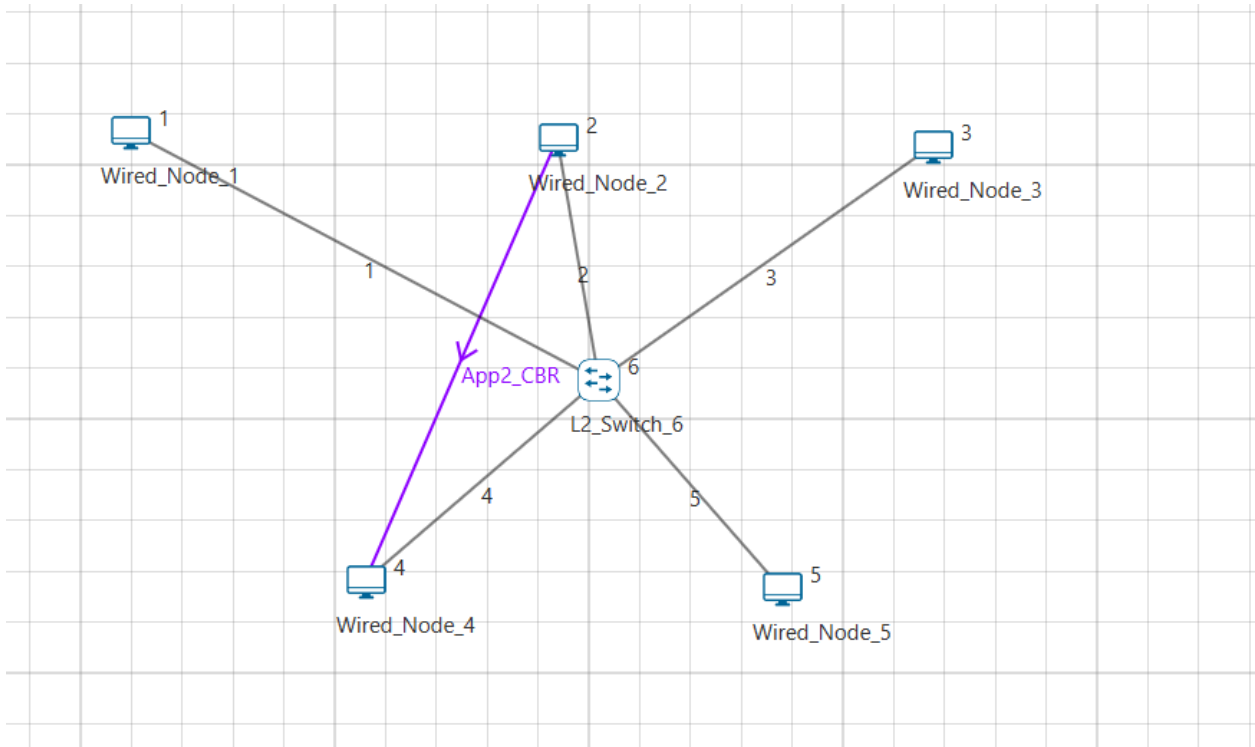
Detailed View

Application Id	Application Name	Source Id	Destination Id	Packet generated		Packet received		Payload generated (bytes)		Payload received (bytes)		Throughput (Mbps)	Delay(microsec)	Jitter(microsec)
2	App2_CBR	2	1	1000		1000		1460000		1460000		0.584000	19412.638013	2965.517512

Throughput = 0.5840

Packet Errored = 2

c)

[illegible]

Throughput = 0

Observation : VLANs divide a larger network into smaller, logical networks

Devices within the same VLAN can communicate directly with each other, but communication between VLANs requires a router or Layer 3 switch. So node 2 cannot transfer to node 4 here.

