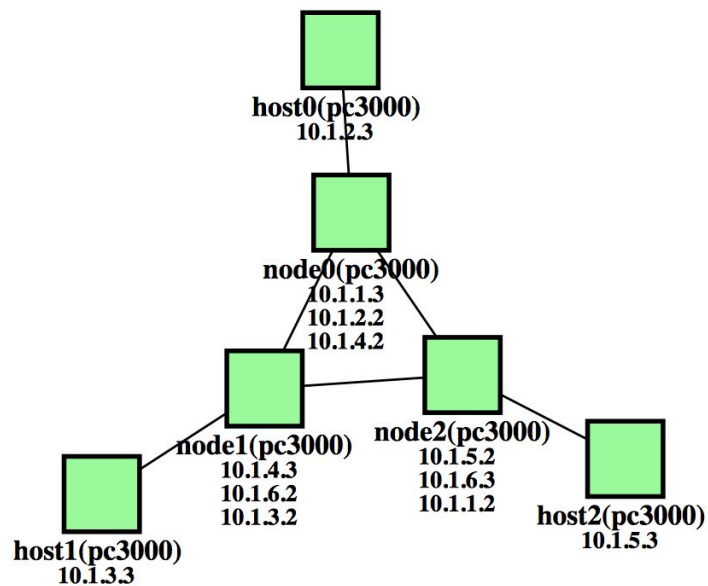## Tasks completed:

1. Hello periodic message.
2. Hello NULL message.
3. VID Advertisements.
4. Local Host port table.
5. Child PVID Table.
6. Broadcast handling via Child PVID Table.
7. Link Failure Detection.
8. Switching to backup path when periodic message is not received corresponding to active PVID.
9. Changing child PVID table when active path changes.

Topologies Tested:

In the above topology,
host 0, host 1 and host 2 are all hosts
node0, node 1 and node 2 are running MTP.

Logs:

Node 0 Table entries: (ROOT)

#######Main VID Table#########

MT_VID	Ethname	Path Cost	Membership	MAC
1	self	0	1	0:0:0:0:0:0

#######Child PVID Table#########

Child PVID	PORT	MAC
1.5	eth5	0:4:23:b7:42:ba
1.2	eth2	0:4:23:b7:1e:9a

#######Local Host Broadcast Table#########

PORT
eth4

Node 1 Table entries:

#######Main VID Table#########

MT_VID	Ethname	Path Cost	Membership	MAC
1.5	eth2	1	1	0:4:23:b7:17:e7
1.2.3	eth3	2	2	0:4:23:b7:1e:9b

#######Child PVID Table#########

Child PVID	PORT	MAC

#######Local Host Broadcast Table#########

PORT
eth4

Node 2 Table entries:

#######Main VID Table#########

MT_VID	Ethname	Path Cost	Membership	MAC
1.2	eth2	1	1	0:4:23:b7:26:b4
1.5.3	eth3	2	2	0:4:23:b7:42:bb

#######Child PVID Table#########

Child PVID	PORT	MAC

#######Local Host Broadcast Table#########

PORT
eth4

Topology currently verifying: (5 nodes)

host1(pc3000)
10.1.1.3

host2(pc3000)
10.1.3.3

node3(pc3000)
10.1.8.2
10.1.1.2
10.1.4.3

node4(pc3000)
10.1.6.3
10.1.3.2
10.1.8.3

node1(pc3000)
10.1.7.3
10.1.2.2
10.1.4.2

node2(pc3000)
10.1.2.3
10.1.6.2
10.1.9.3

node0(pc3000)
10.1.7.2
10.1.5.2
10.1.9.2

host0(pc3000)
10.1.5.3
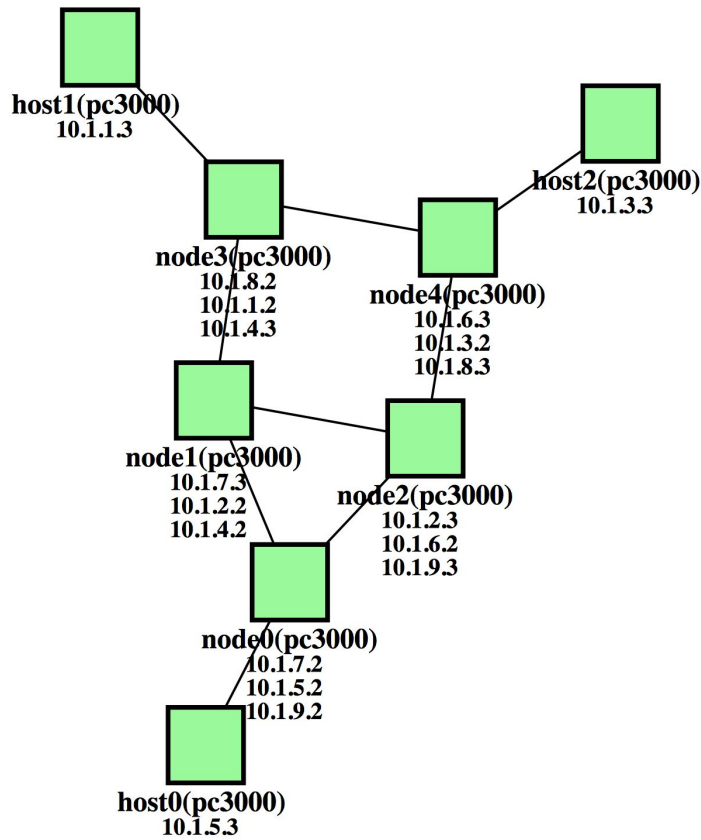
In the above topology,
host 0, host 1 and host 2 are all hosts
node0, node 1, node 2, node 3 and node 4 are running MTP.