

Assignment-6

Simulate a network in **NS-3** as shown below according to following scenarios.

Scenario 1

- 1) TCP transmission from N0 to N3.
- 2) UDP transmission from N7 to N4
- 3) UDP transmission from N8 to N5
- 4) UDP transmission from N9 to N6

Scenario 2

- 1) TCP transmission from N0 to N3.
- 2) TCP transmission from N7 to N4
- 3) TCP transmission from N8 to N5
- 4) TCP transmission from N9 to N6

Every link should have bandwidth 1Mbps with 2ms delay but bandwidth of N1-N2 as 100kbps with 10ms delay.

Install DropTail Queue on all links, PfifoFastQueueDisc on all netdevice container except link N1-N2 where RedQueueDisc is installed.

Red-Queue Parameters

Min Threshold 5

Max Threshold 15

QueueLimit 1000 Packets

Record the statistics in **number of packets transmitted, received, lost** in **1 minute** in a **ReadMe** file in **following scenarios**:

Send the **zip** file with following files:

- 1) The code
- 2) Read Me file in which output will be displayed
- 3) Trace file, flow-mon, NetAnim files generated

