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Assignment B1

* Atle: Study of Network Simulation

* Objectives: · To learn & understand network simulation NS2.

to create a network north three modes by establish a TCP sonnection between node 0 & node 1 such that mode 0 new send 1 cP packet to node 2 via mode 1.

Mory:

Network Simulator

- A network simulator is a software that predicts the behaviour of computer network

- In simulators, the computer network is modeled with slevius, hiks, applications, etc & the performance is analysed.

Commercial & Open Source simulators.

Commercial: OPNET, QualNET

Open Source: NS2, NS3, OMNET++, SSF Net J-Jim

2. Sniple 18 Complex:

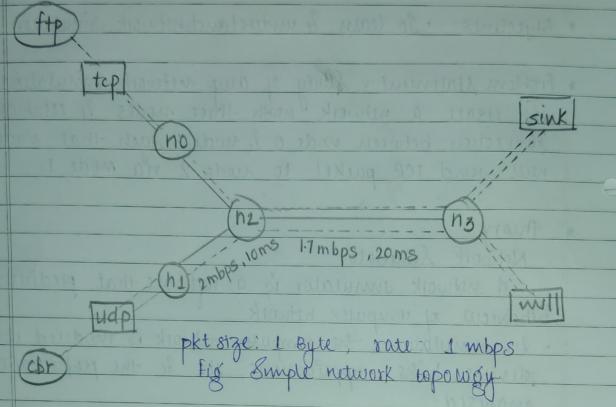
Simple network simulators enable users to represent a network topology, specifying the modes on network, the links between those modes between the modes.

protocols used to process traffic.

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script that creates the simple network configuration, Errus
the simulation semario:



The network shower in fig. consists of 4 modes. The duplex links between no & ne, on 2 m2 hande 2 mbps of bandwidth & 10ms of delay. The duplex link between no 22003 has 1.7 mbps of bandwerath & 20 ms allow.

Each node uses a droptail grune of which the max tize is 10. A "top" agent is attached to no, he a connection is established to top "sink" agent attached to no. As default, the max size of packet that "top" agent congenerate is IK byte. A top "sink" agent generales and sends Ack packets to the under (top agent) he freed the received packets.

A "Jap" agent that is attached to no is connected to a "mull' agent attached to no. A 'mull' he 'cbr' traffic generators.

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one attached to 'top' le 'udp' agent suspectively & the 'obr' is configured to generate 1k byte, packets at the rate of 1 mbps. The cor is set to start at 0.1 sec & stop at 4.8 sec. le ftp is est to start at 1.0 sec. & stop at 4.0 sec.

+ Conclusion:

whe learned and understood the concept of network simulation using next successfully

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