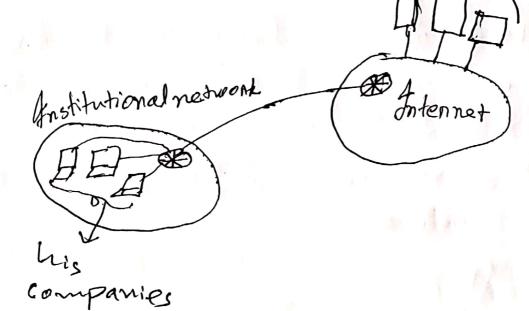
## 西· Proposed Solution:

Mr. Faruk owns was couple of companies and need to have a fast connection his companies requires massive amount of data bandwidth. We can connect his companies of institutional network.

Ex'.



Now let's consider between average request nate from borowsen to serven is 15/sec, average cluta nate the transpose of the serven is 15/sec, average cluta nate to serve to serve to serve is 15/sec, average cluta

lacal

RTT from istitutional moviter to any origin serven is 2 sec o and access link pate is 1.54 Mbps.

So, pin this seenanto access link utilization.

Would be (1.5/1.54)×100/. - 99%. this is a

problem. Cause the link. 1/3 featmost fully

whilited and overloaded with trustice.

So the de lay would be = Internet delay +

access delay + LAN delay - 2sec + minutes +

micro seconds. Just thinking so if we

increase the bandwielth of the access lete

link to 154Mbps we can get 9.9% of

utilization on the access let link which

will decrease the delay to less than a

nimite.

But from a business view this will be a loss cost very costly. So maintaining it isn't a good choice.

so my advice will be to establishe a Local web cache in the institutional network.

If b we install web cache the delay will be reduced to bless than 2 sec, considering à 16bps LAN. Son this this more usable and profitable approach as the access link is still 1.54 Mbps and the company can use high data bandryidth of locat their institutional metason 4 and internet will be fasten due to local web eache and less traffic on accessitions. But then a pusiness view this north ing to Buinistures of Alter Lien 4: Briss to my addice will be to establishe a local usb cacke in the inetitional maturals