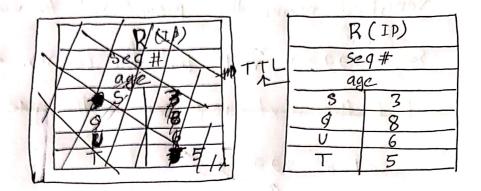
11 W I IN WAR THE THE CAR CO

The link-state packet for R is given below



Lets consider read ennor has occurred at sequence 9. In after every 10 sequence the next sequence occurre appear.

 $\begin{array}{c} | \text{lo sec} \longrightarrow \text{seq} \# 1_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \# 2_{\text{A}} \times \\ | \text{lo sec} \longrightarrow \text{seq} \#$ 

10 sec -> seq # 9 -> hene nead ennorm

occurred. it read 999999

instade of 19.

now this will not take value biggen then 999999. Then it will be a huge problem. Every packet will be lost with 9 to 999999. To solve this problem we insent age.

This determines the time to live of a packet.

Here set the age value as 60 ms.

Then aften 60 ms the a sequence will be vanished means the part will be vanished.

sequence so 999999 will lost for 60 ms. after that the next sequence will aspec.

168 - 3 - 6 - Elog

set # 999999

seq # 10)x seq # 10)x seq # 00)x seq # 150x seq # 1600

1

now it will accep seq 16. If we set the value of age as 6 ms then aften 6 ms the data will vanish. Then the next data which will come after 10 ms will take ms dotato compane with. So we have to set the age value canefully.

This is how dunation of age short on long, in the link state packets can play a vital note of the time of sequence number ennon.

## 2017-2-60-096 Ruashed Md. Banket-E-Khuda

4

present threshold is 500 KB

present congestion window is 64KB

Time out point is 502 KB

so the next congestive congestion windows anc;

64 x2 = 128 KB -> 1st congestion 128x2 = 256 KB -> 2nd congestion

256x2 =512 KB

But the threshold is DuoKB

so the 3nd congestion window is 500 KB

50, Ath congestion window = 501 KB

5th congestion window = 502 KB

here the time out point is 502 KB. 50We need to set a new thneshold. So  $502 \times \frac{1}{2} = 251 \text{ KB}$ 

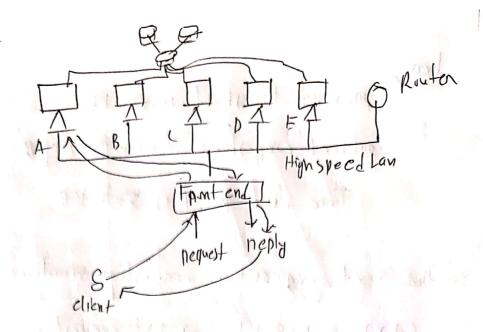
6th congestion is 1 KB

7th congestion is 2 KB

8th esugestion is 2x2 = 4 KB

of the still state of the seal of

5



Every processing mode has its own cashe memory. Fon having own cache mamony it can sare mone data. When a client hold on nequest for a spesific in formation it goes through front end to the server farm. Lets gay a elient want to visit CNH.com. so he seanched for it. This information repuest gues to hode A. It the Inhonmation is on in the cache of node A it will neply tasten. But if has not in the cache the node A will take if from the HDD. Then hit will save it to its eache. Next time any one search for CHA. com node A can peply fastenty to the client. This will true for all the nodes at the server farm.

9-11-2. - 10 198

They will also act as the same type of neprest will handed oven the same machine.

For having own cache mamony they will reply faster to the client.

If there are many nequest from the clients on their and many mone client we can use top hand off. Then the serven will directly neply to the client.

who the observes is soony him

is not the second of the met of

time marating

3

Hene seemanio 2 has Low sitten. Because the difference of delay between the packets are low here than seemanio 1.

so scenario 2 has low sitten.

or store is at the

Low diffen is necessary for multimedia communication. In multimedia communication buth sides internaction happens. So here we need a very smooth flow of data. If the vaniation is high means the siften i) high then there will be synchronization problem of listening and seeing at the same time. If the vaniation is low means the sitten is Low then we can easily communicate and able to understand what the other penson is gaying from the other side. So Low sitten is important in multimedia communication.

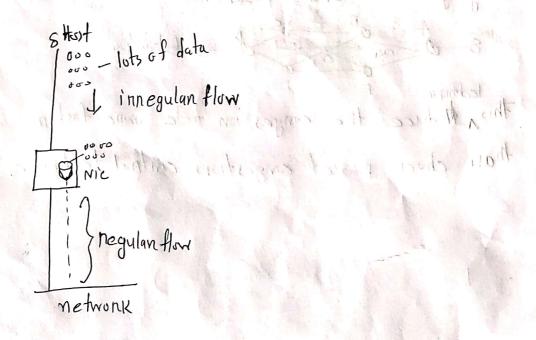


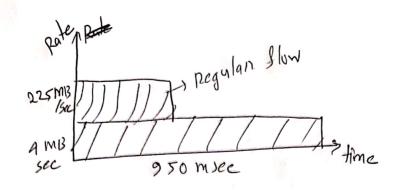
2

The punpose of leaky bucket algorithm is to have a negular flow of data.

To achive good quality of service we can we leaky bucket algorithm, of traffic shaping technique.

when lots of data entens a network with innegular flow this leaky bucket algorithm can be implemented. Then a negular flow can be achieved. When the bucket is tull the data will be in the queue. The bucket will act as buffer. Data as needed will flow from the leak to the network,





hene, imput = 225 MB/sec with 950 msec.

Metwork data nate 4 MB/sec.

time = total data = 213.75 MB X SCC

AMB

213.75 MB X 1000 M Dee

AMB

= 53.4375 MB 2

= 53.4375 m sec Ans.