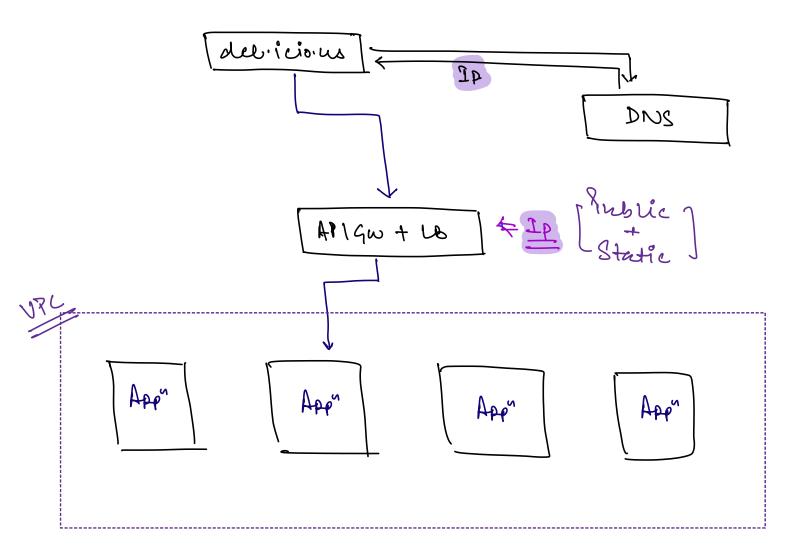
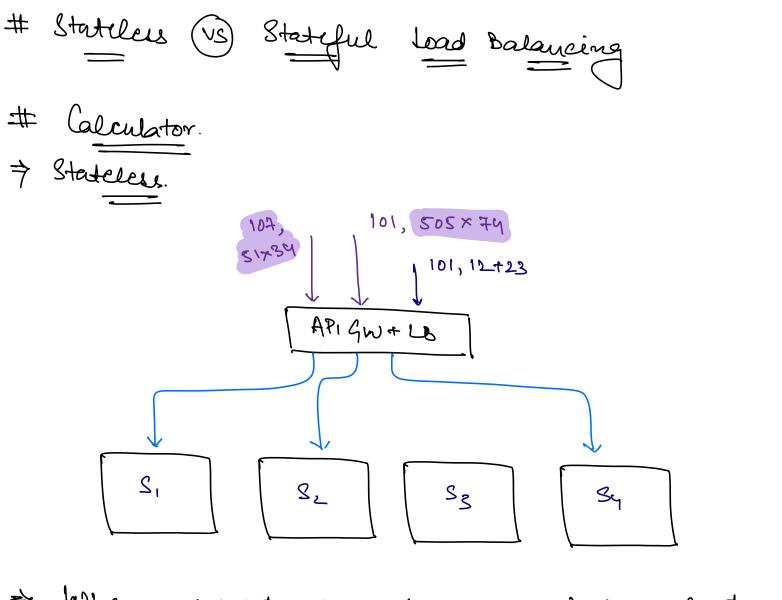
Agenda. -> load balancing -> Consistent Hashing. # bookmarking App". del·icio·us.	
	2 Core CPU 409B 512 MB RAM.
Adding myc mith more resources. Timited Scaling SPOF. No Elastisity.	Horizontal Scaling → No Spof → No Vinnit on Scaling → Elasticity.





De can route them to any server randowly.

ChatGPT

B: Fell we of Indian Cricket team

wore about in 2011 wc?

APIGW+ LB

S1

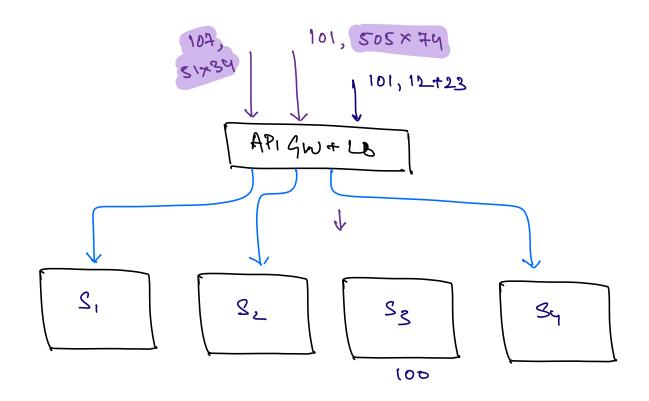
S2

S3

S4

Stateful.

Stateless.



-> Round Robin

-> least Connections first.

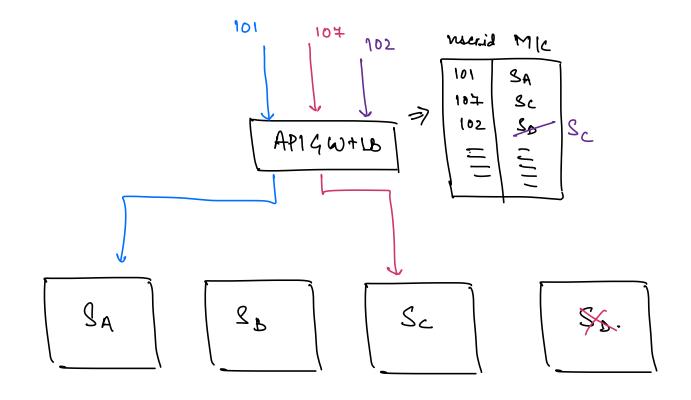
-> least response time.

Aug Lespouse time $\frac{1}{S_2}$ $\frac{1}{S_3}$

Servers.

Stateful Load balancing

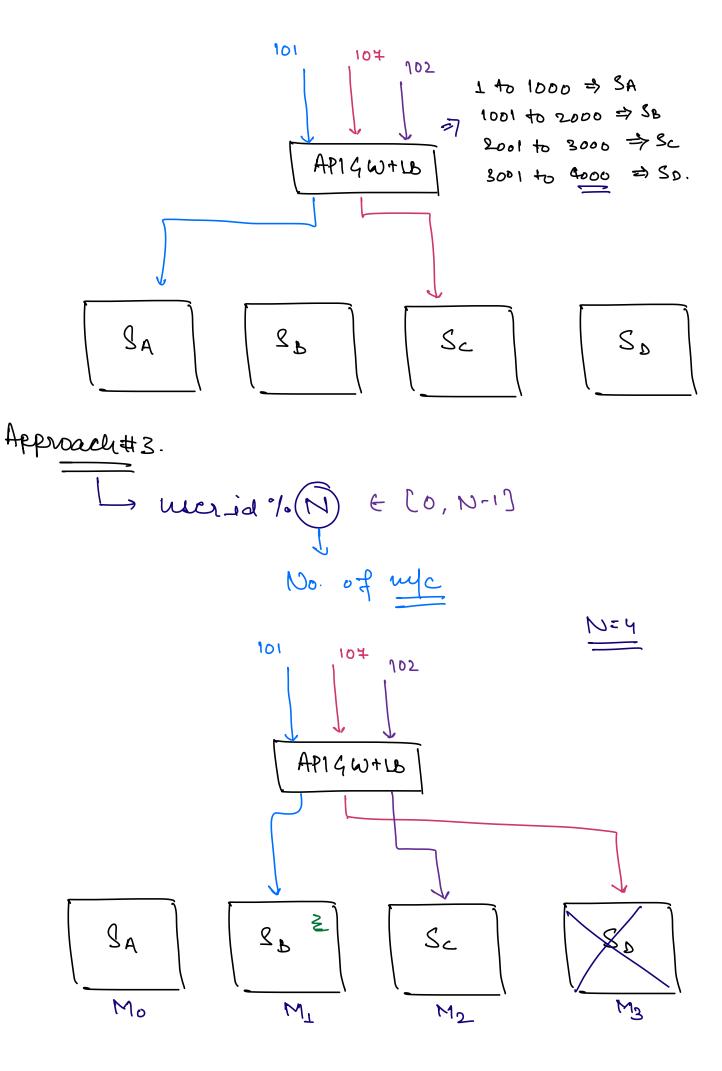
Approach #1



Size of the Map can be truge = User base.

Approach#2

Ly large based mapping.



 $101\%4 = 1 \Rightarrow 101\%3 \Rightarrow 2$ 102%4 = 2 $101\%6 \Rightarrow 5$ 103%4 = 3 $104\%6 \Rightarrow 5$

No mapping required on LB.

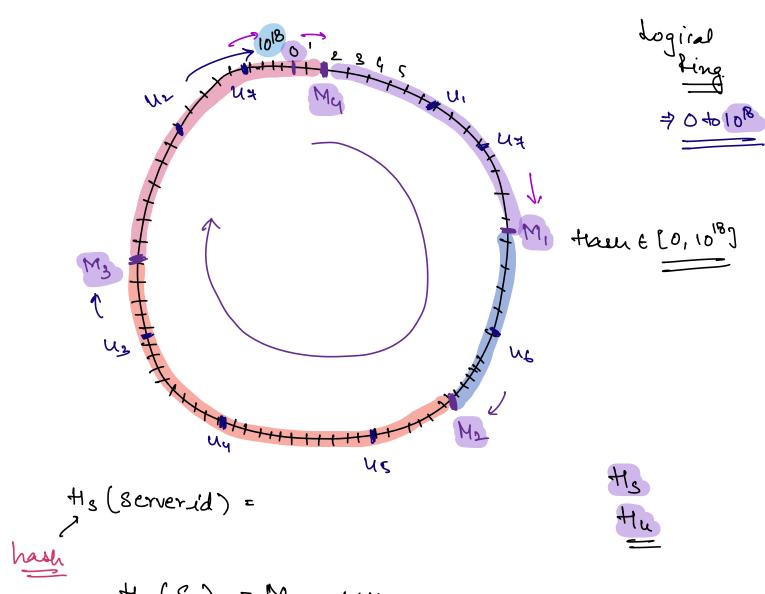
Cone:

L, Scale Up | Stale Down | MIc goes down.

Challerging =

Approach # 4. Consistent Hashing

- 1) Stateful load balancing.
- 2) We need to decrease the chaos that gets acated because of Scaling Up | Scaling down & When a mpc goes down.
- 8) kasy to mauntain at LB.



$$H_{S}(S_{1}) = M_{1} = 6,64,81,234$$
 $H_{S}(S_{2}) = M_{2}$
 $H_{S}(S_{3}) = M_{3}$
 $H_{S}(S_{4}) = M_{4}$

Lucrid

Hulmeria) E [0,1018]

[401] uH Hu [102] thy tears

- Du a Consistent Hasting ring.
- => the => To place wers on a Consistent trasling sing.
- the first server coming in the Clockenise direction.

Trade 04f