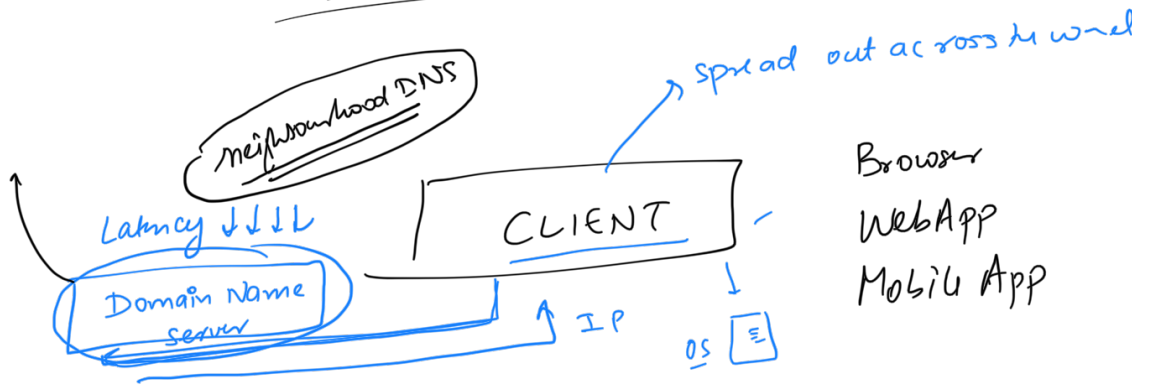
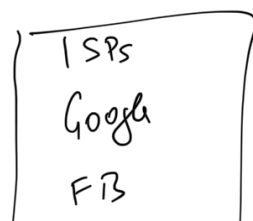
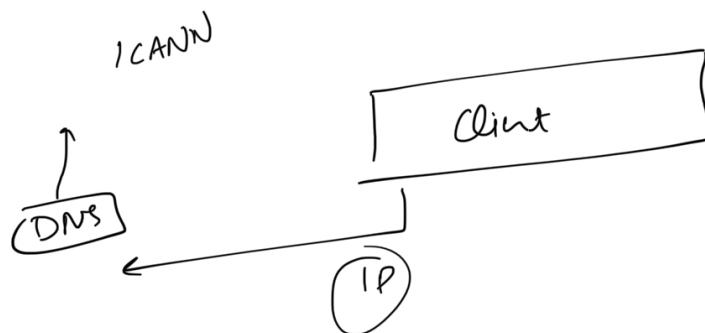
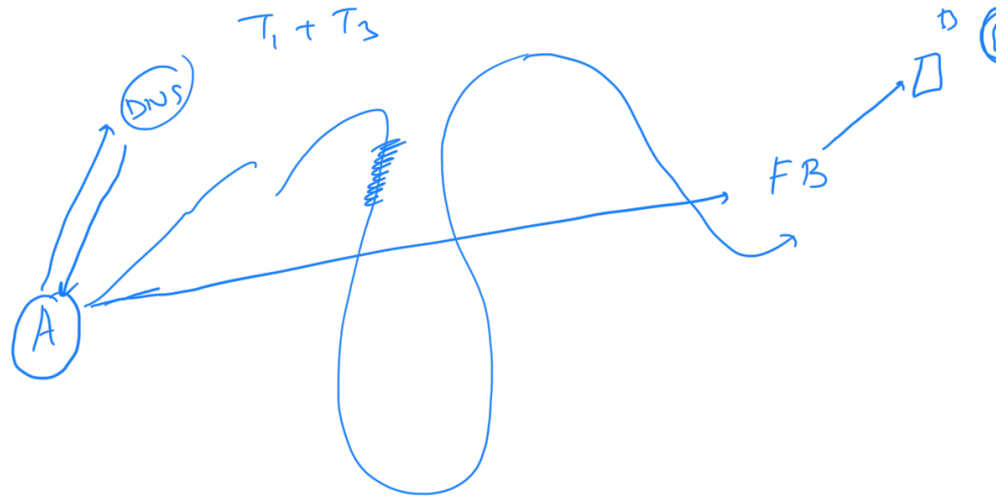
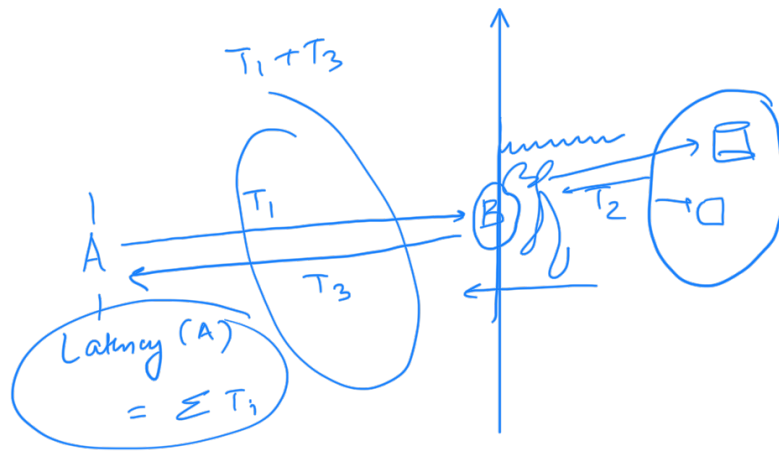


High Level Design



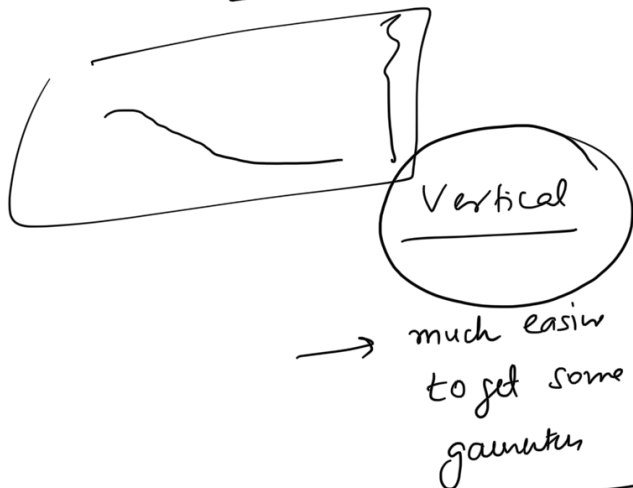
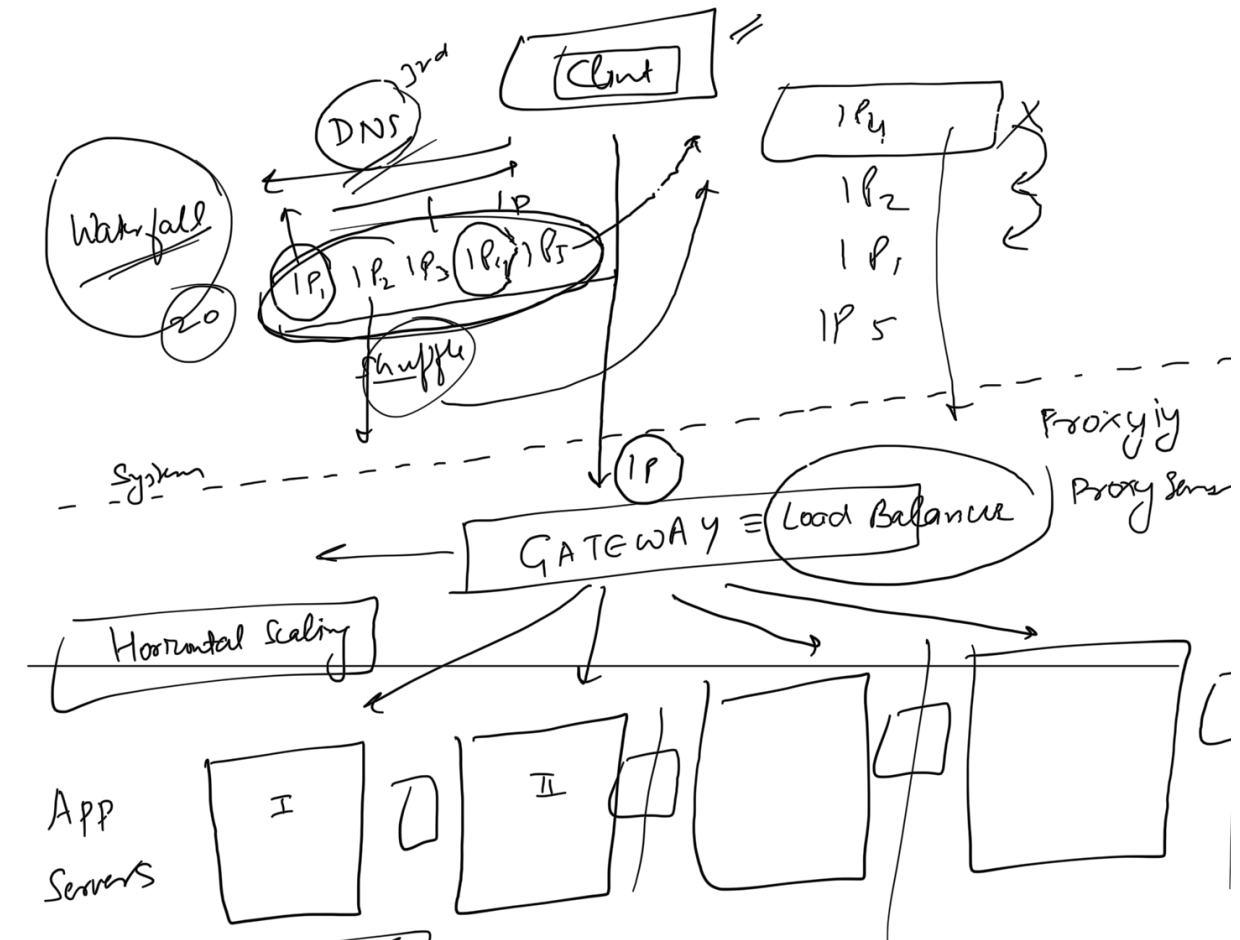
1





FB.com
IP
newFB.com

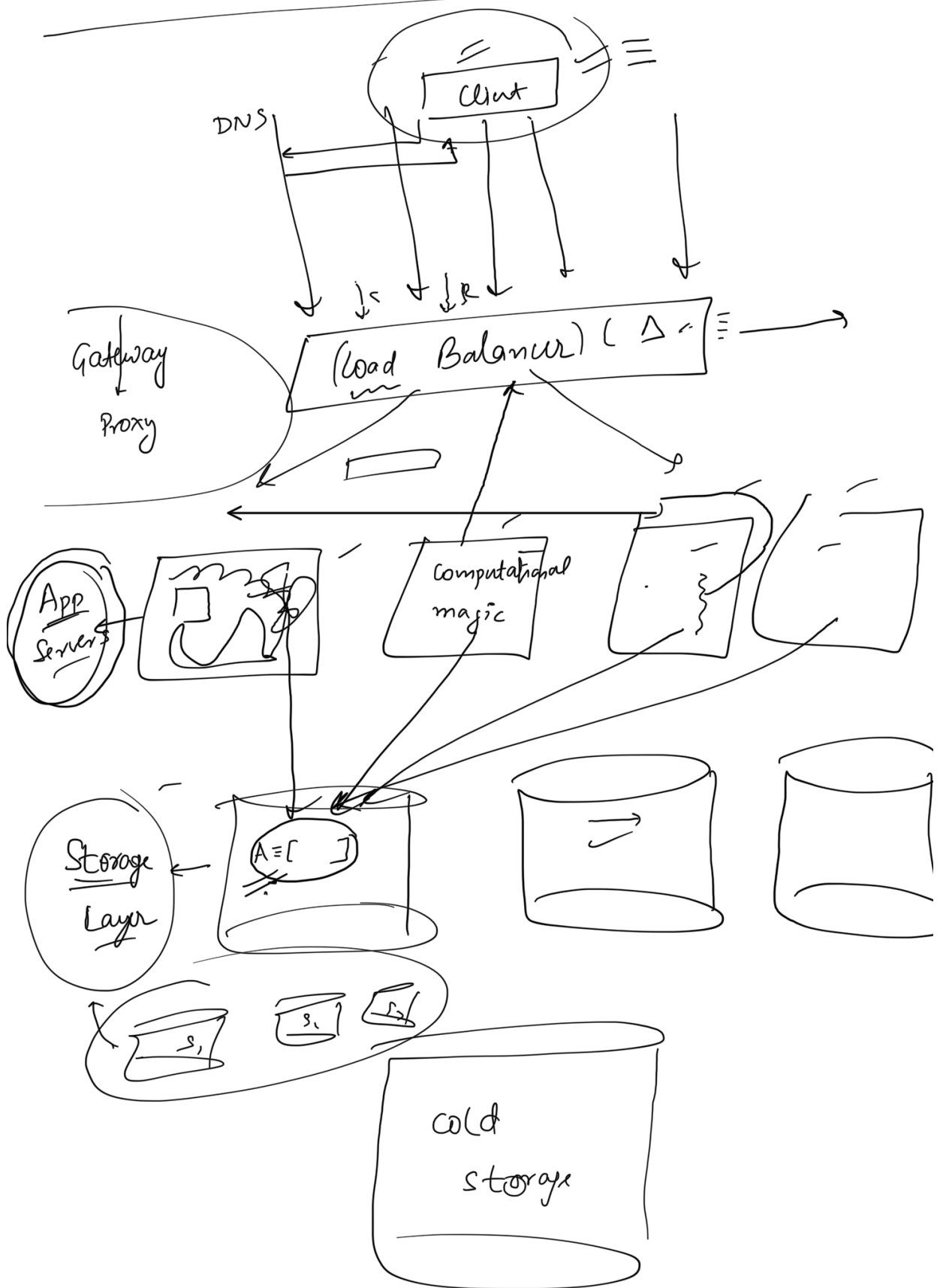
hdg.com



CAP Theorem

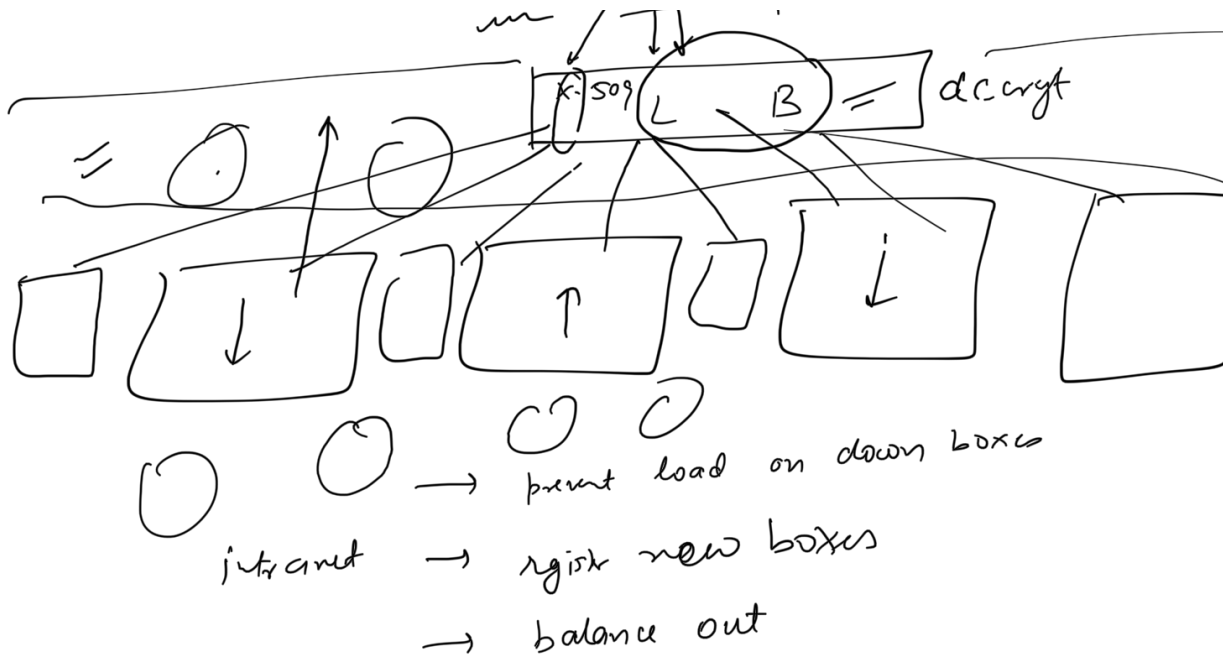
Horizontal

- flexibility with changing load
- cost effective

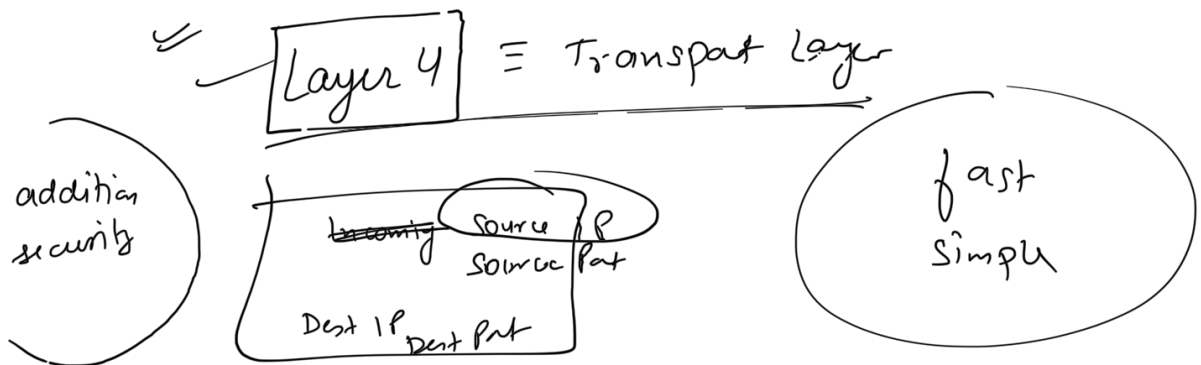


internet

client
open internet



— X.509 —

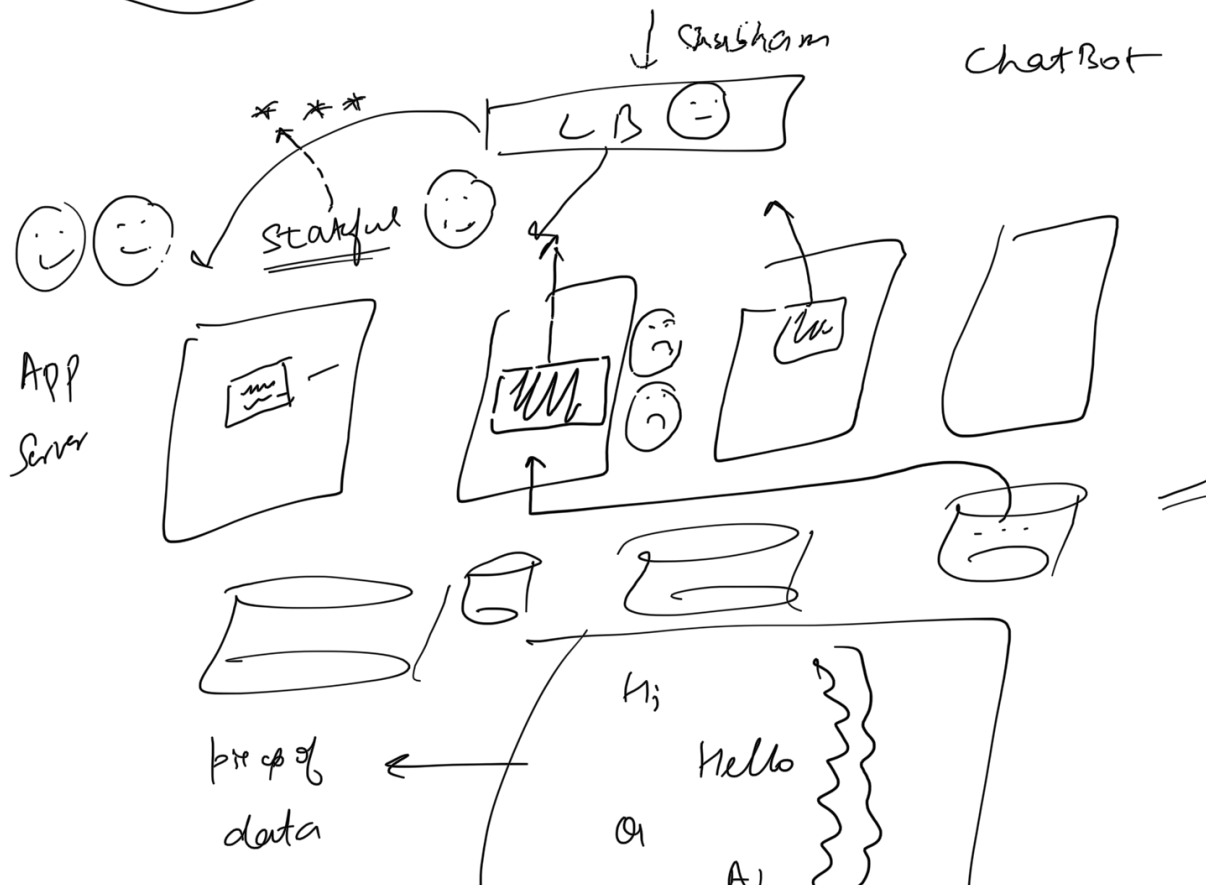
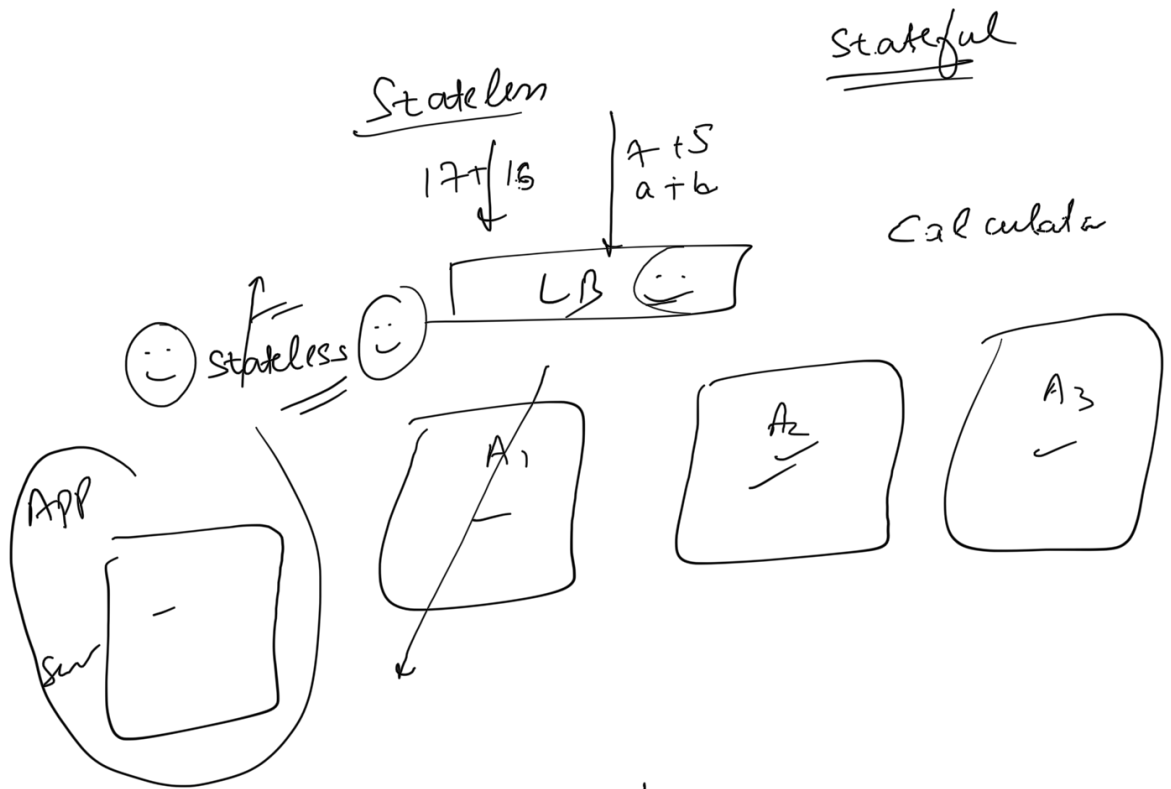


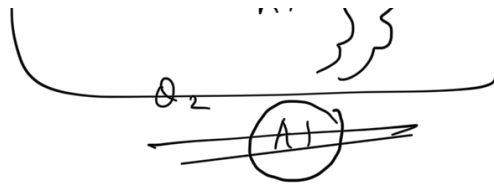
✓ Layer 7 LB ≡ Application

user id ≡ 707
vid = 107

✓ much ~~latter~~ flexibility

Slower

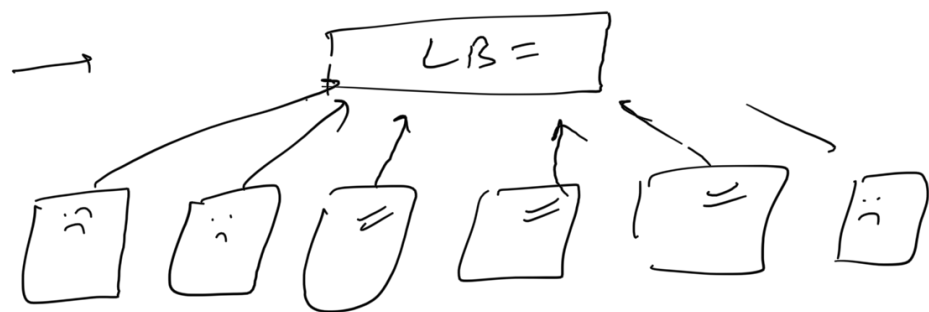
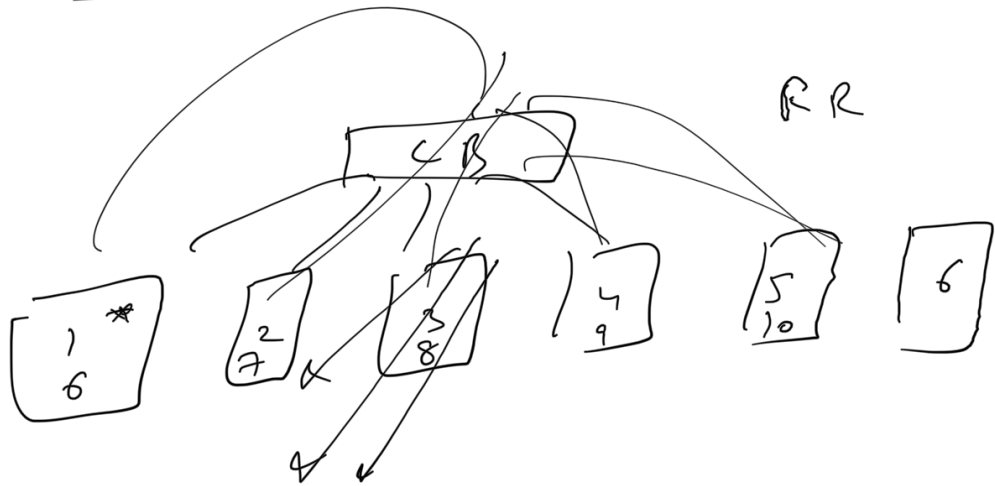




Load Balancing

statiken

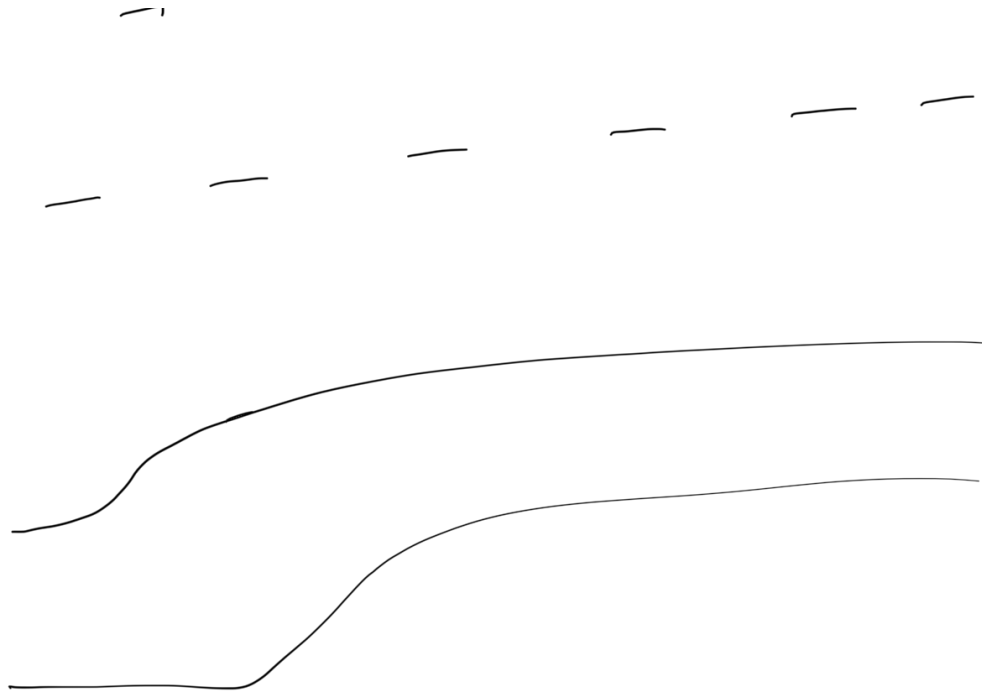
→ Round Robin



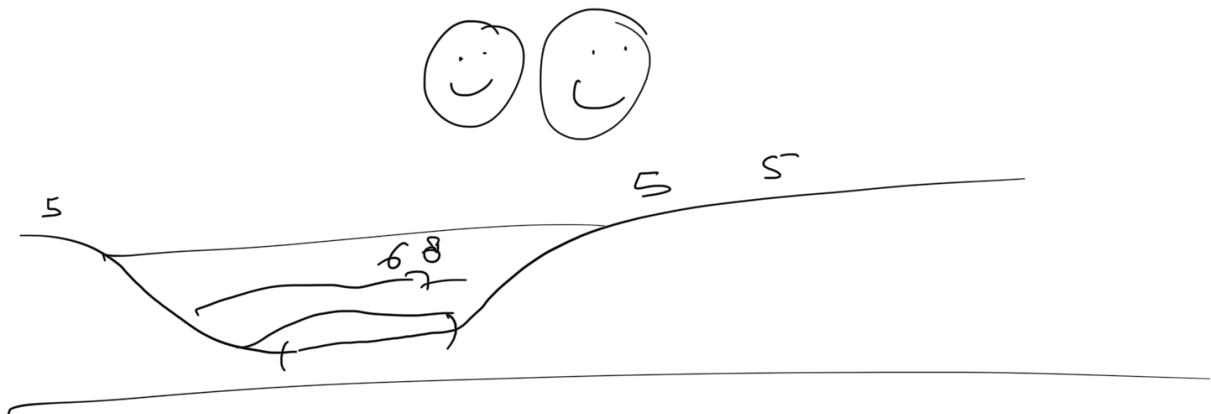
WRR

→ (Least Connection first)

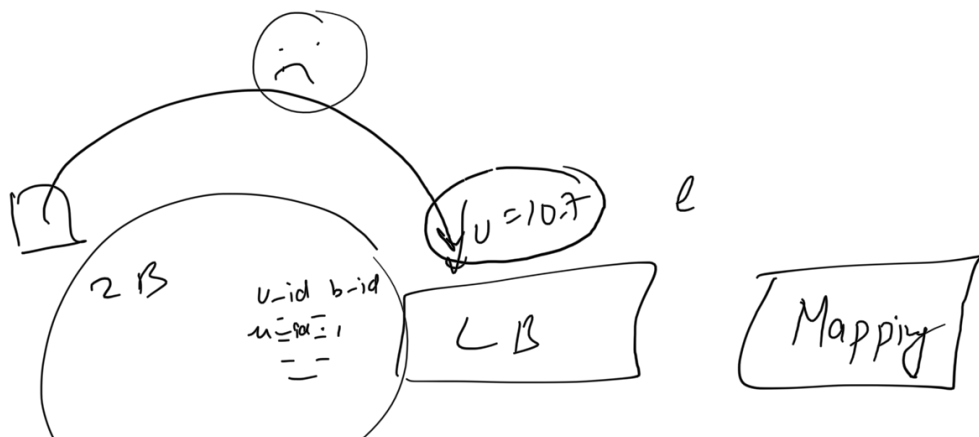
WRR ARR



equib



Load Balancing in Statful



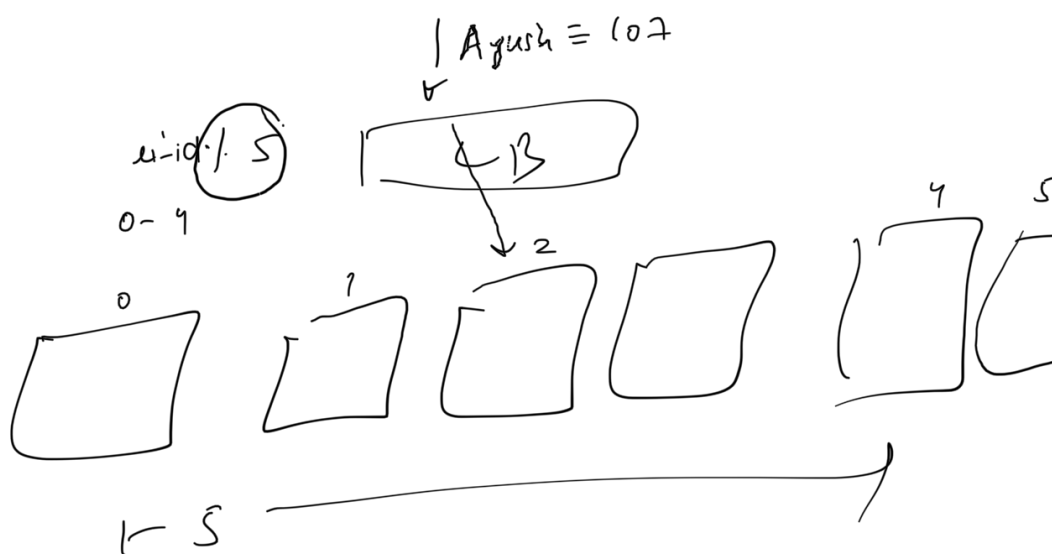


✓✓✓✓✓ Sol ① Mandatory Map **BAD**

Sol ② Hash

10 boxes \equiv 10 App Store

$$\text{uid} \% 10 = \boxed{}$$



→ amount of stickiness ... hashin

... 0 0 using ...

→ L3 ☺

Download
on server in c/dic
you will have 1.6
to move state of all boxes
internally

1	1.5	→	1	1.6	1
2		→	2		2
3		→	3		3
4		→	4		4
5		→	5		5
6		→	6		6
7		→	7		1
8		→	8		2
9		→	9		3

