System Design = MLD. genda. 7 Intro to System Design & CN. 7 Case Study: del·icio.us 7 ton Internet mosks? # HLD. HLD. > Architecture of Servers. OBS SQL NosQL Cache file States Cot apple SORT) SORT nhogn. microsoft facebook abd file sorte) Size: 10PB

$$1PB = 1000 TB$$
 $1TB = 1000 GB$ 
 $1PB = 10^6 GB$ 

# Core Study: del·icio·ne

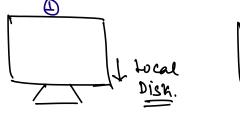
YT: 2004

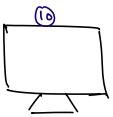
Chrome: 2008

=> Simple Bookmarking website.

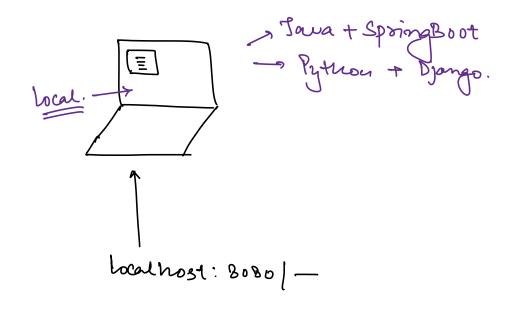
AWS: 2006.

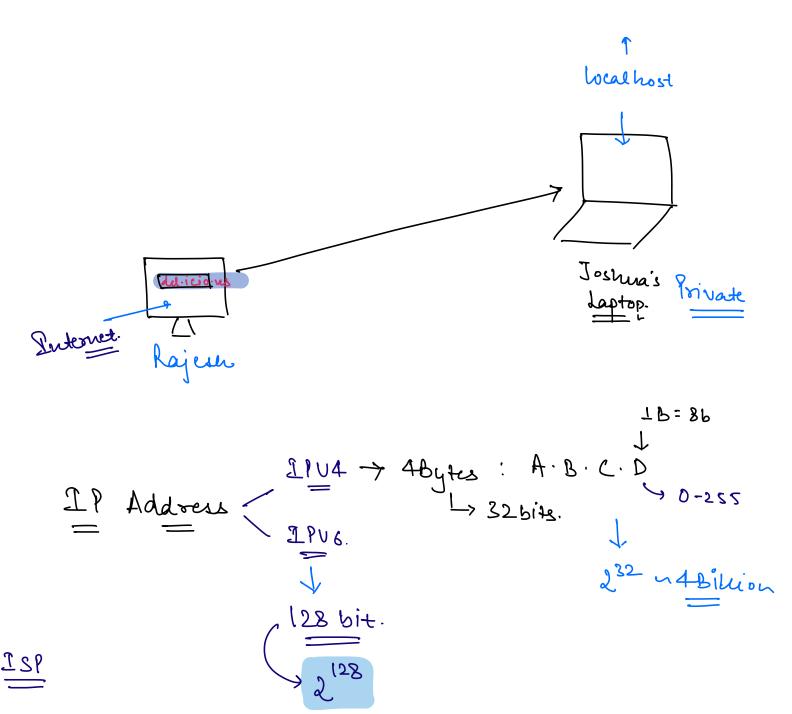
→ Gber Cafe → Internet Explorer.





del·icio·us

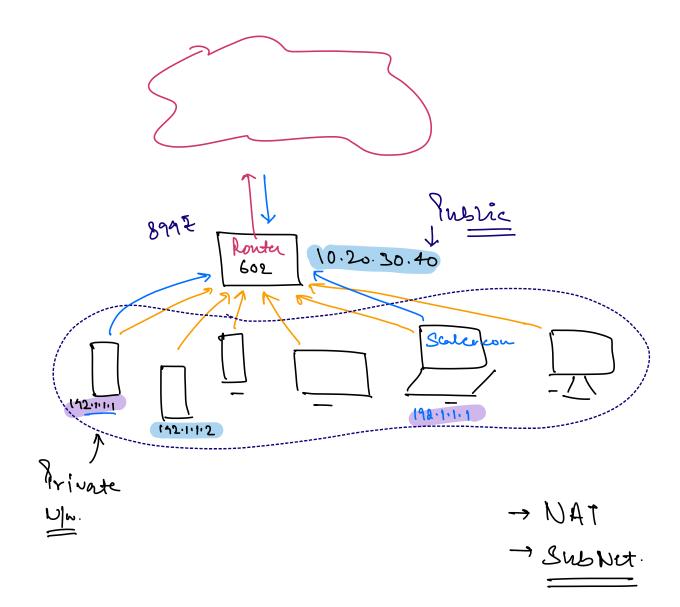


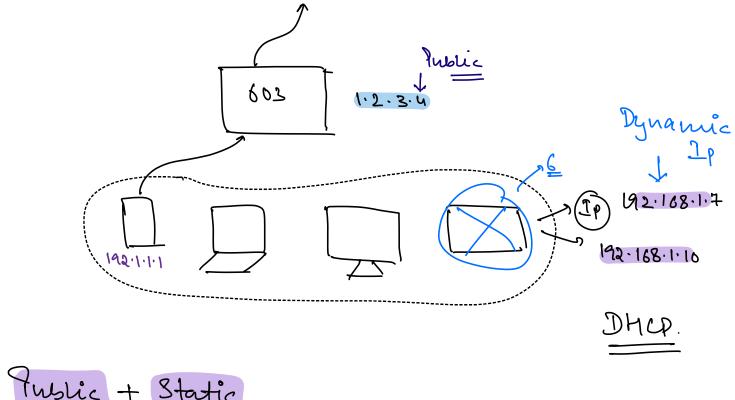


I CANN

Airtel. JIM Ipie.

20 M

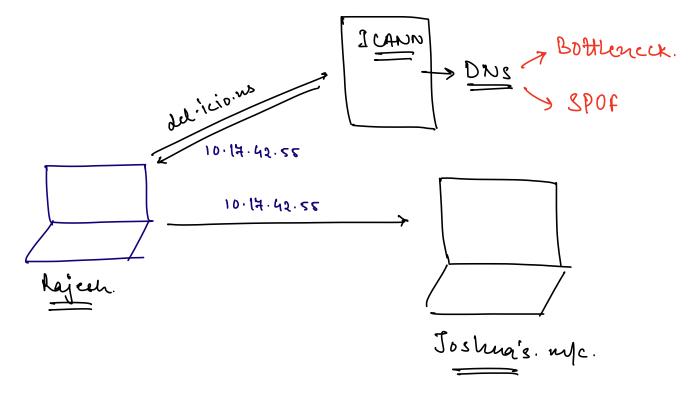




Joshna's.

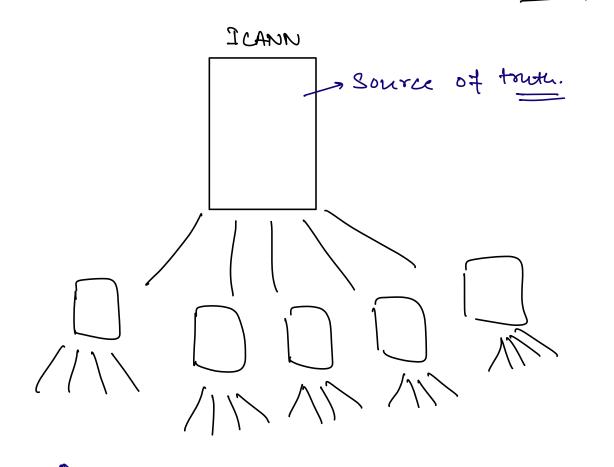
1 CANN.

Domain: Ip Address.



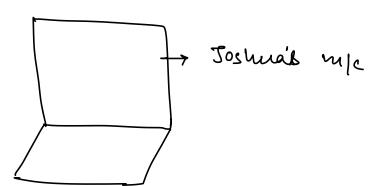
DNS.

Distributed, Decentralized & Relibale.



Scaler. com: 10.20.30.40 google. com: 1.2.3.7

Staling Challenges.



> IM bookmasks | Day.

2003. 128 MB RAM 40GB HDD 2 Core CPU.

>> Store data

herid | cmail | passmord

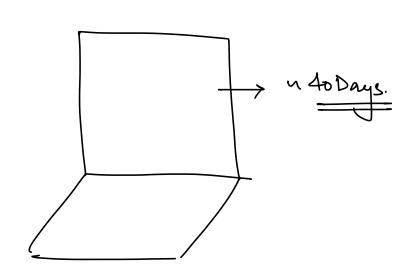
Ly loods

Abytes.

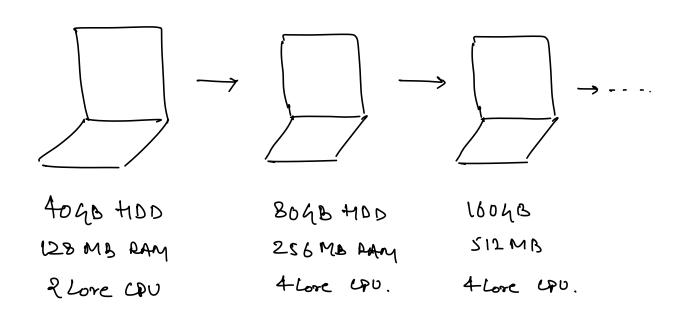
Ab (unsigned)

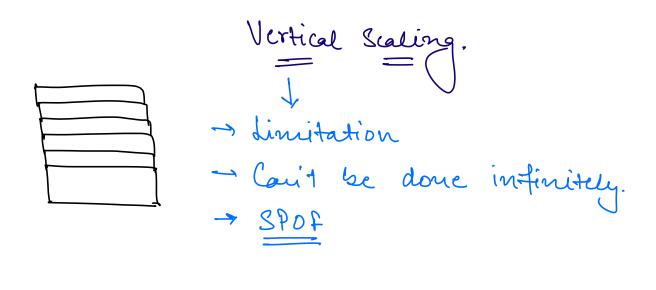
-28 to 28.

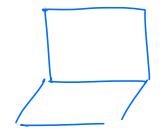
(YT)
int
| 128



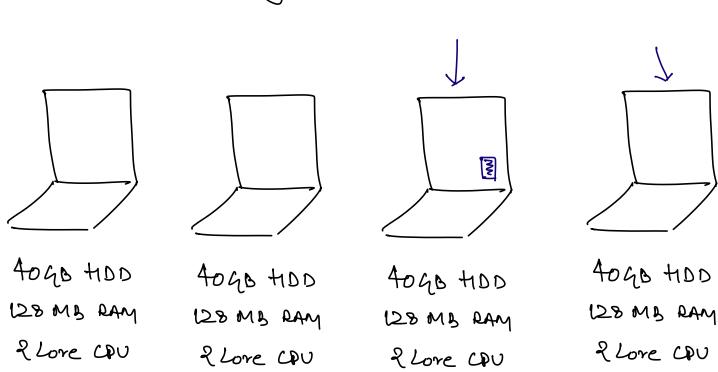
Scale Up.







Horizontal Scaling



- -> Can be done infinitely.
- -> No SPOT.
- > hot of Challenges are there mity Horizontal Scaling
  - 1) Why Ip to register at DNS.
  - 2) Dorta Sync issue.
  - 3) Load Balancing ....

