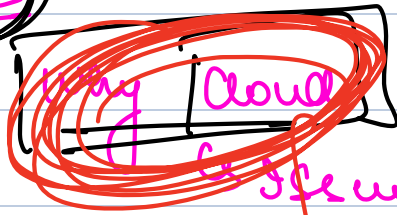


# Intro to AWS

10:10

①



a) Static IPs

b) NAT

c) Global Delivery

②

Managed Infra

③

Diff Cloud Providers

④

EC2

core of AWS

AWS

GCloud

Azure

machines b/c of everything AWS

Simple Website on EC2

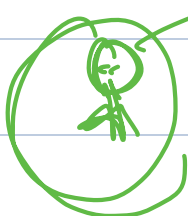
⑤

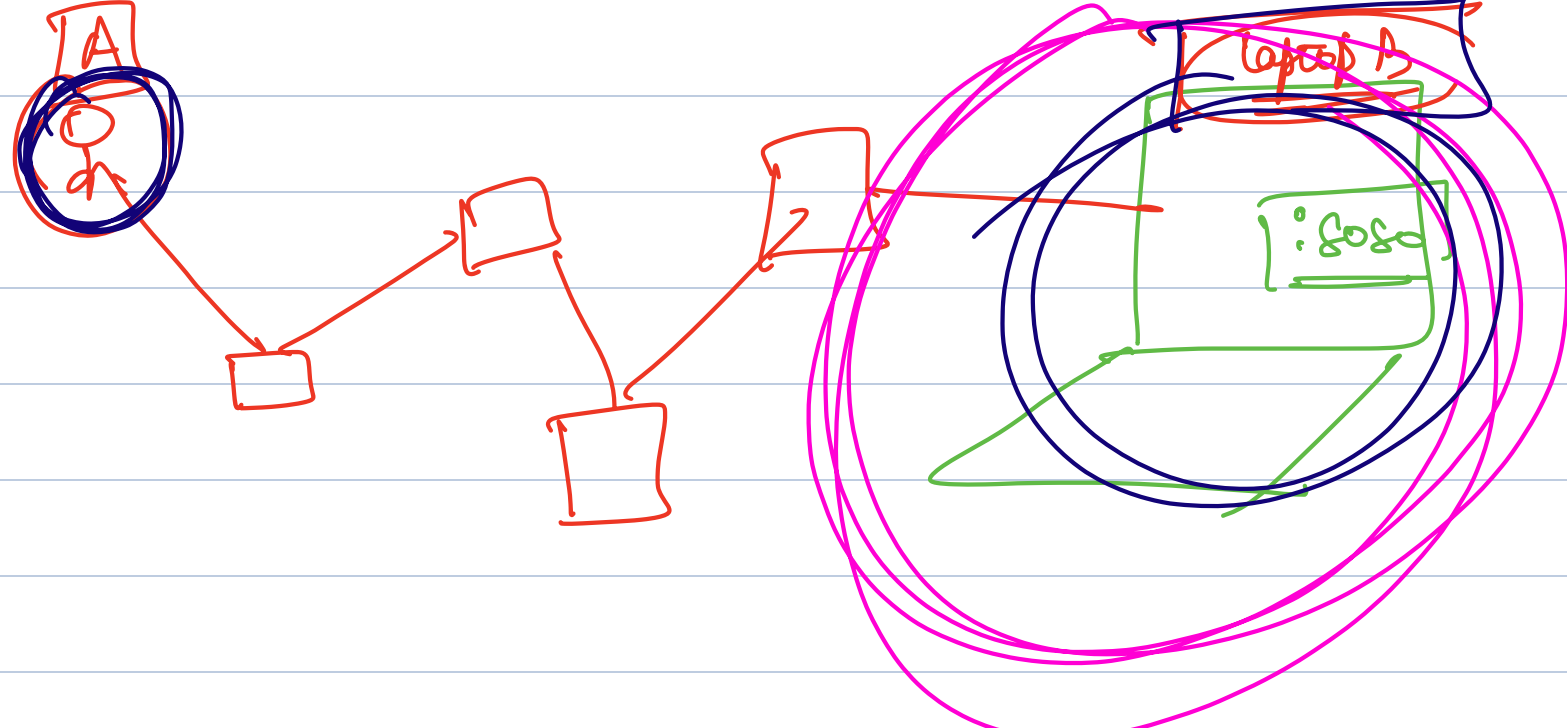
RDS

AWS Managed Infra.

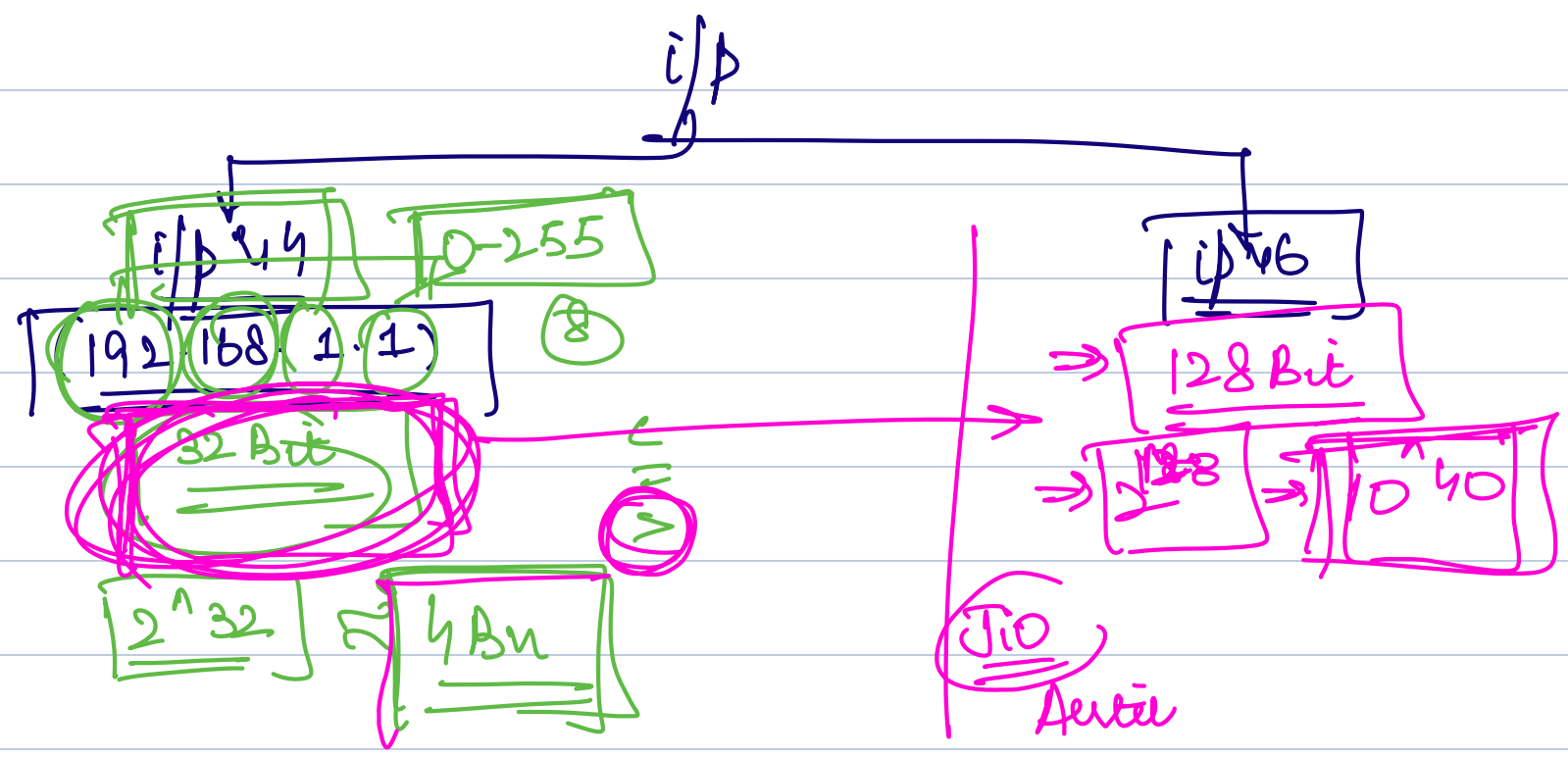
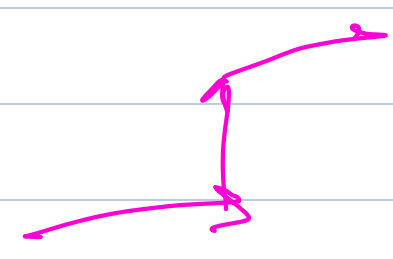
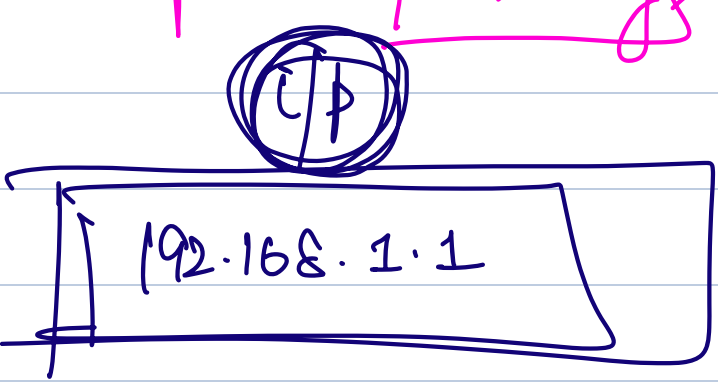
## Why Cloud

Another app<sup>n</sup> sitting on the same laptop only can access my service





$op^n 1 \rightarrow$  address  
 $op^n 2 \rightarrow$  lat, long  
 ← ambiguous  
exit



NAT

⇒ N/W address translator

⇒ allows to create an internet  
within internet

ICANN

⇒ assign IP addresses to diff orgs

⇒ auctions

⇒ sell IP address ranges in  
wholesale.

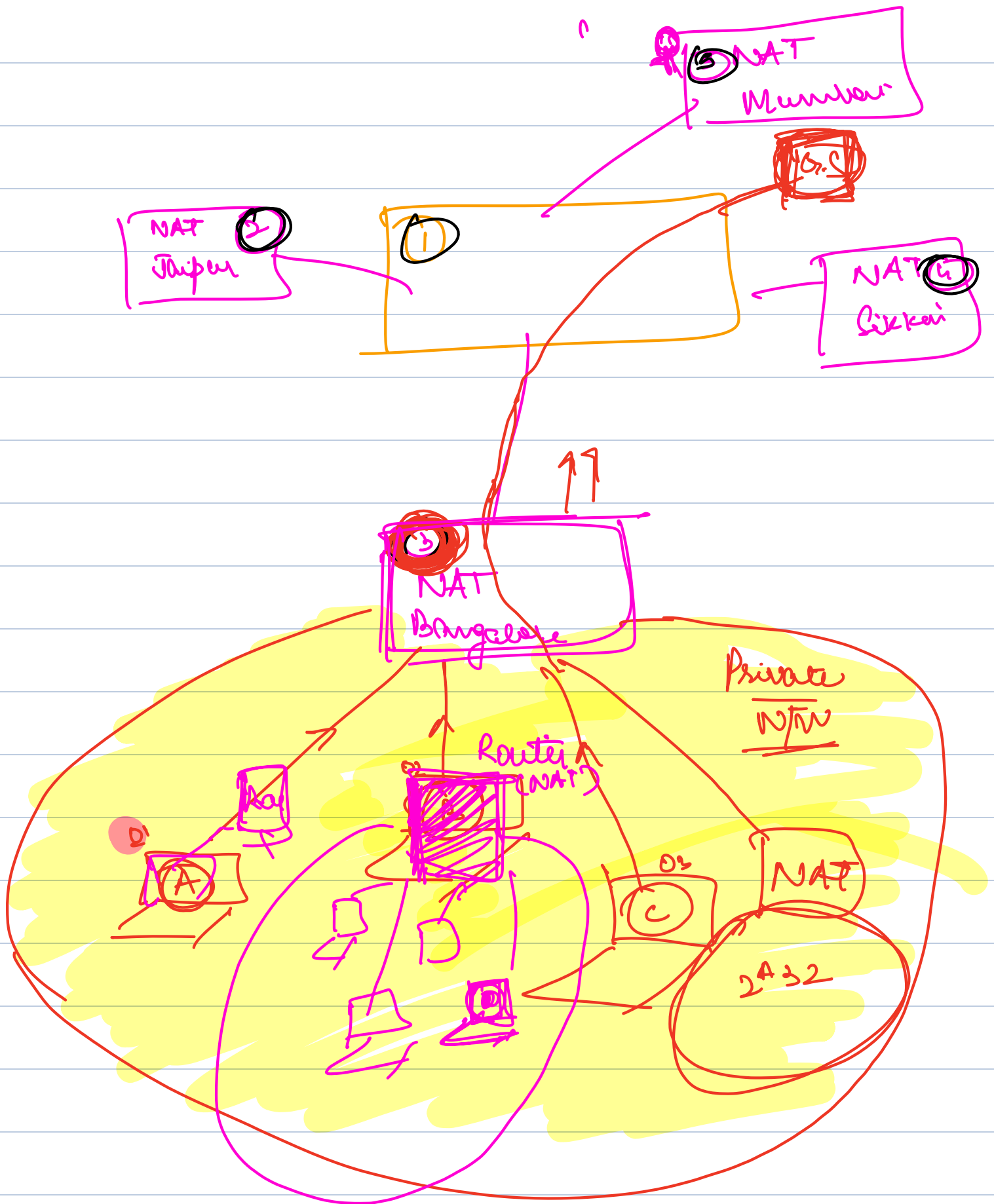
(ISPs, cloud providers)

AWS

10.41. xxx . xxx

15. xx . xx . xx

Aster ⇒ 5 IP addresses



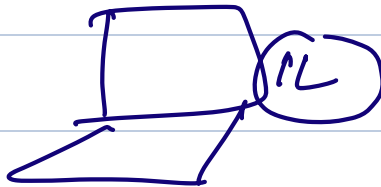
10M  $\Rightarrow$  100M (1:10)

① Public <sup>State</sup> IP

⇒ ₹ 8000/month

① Buy public IP and host ourselves.  
⇒ NO

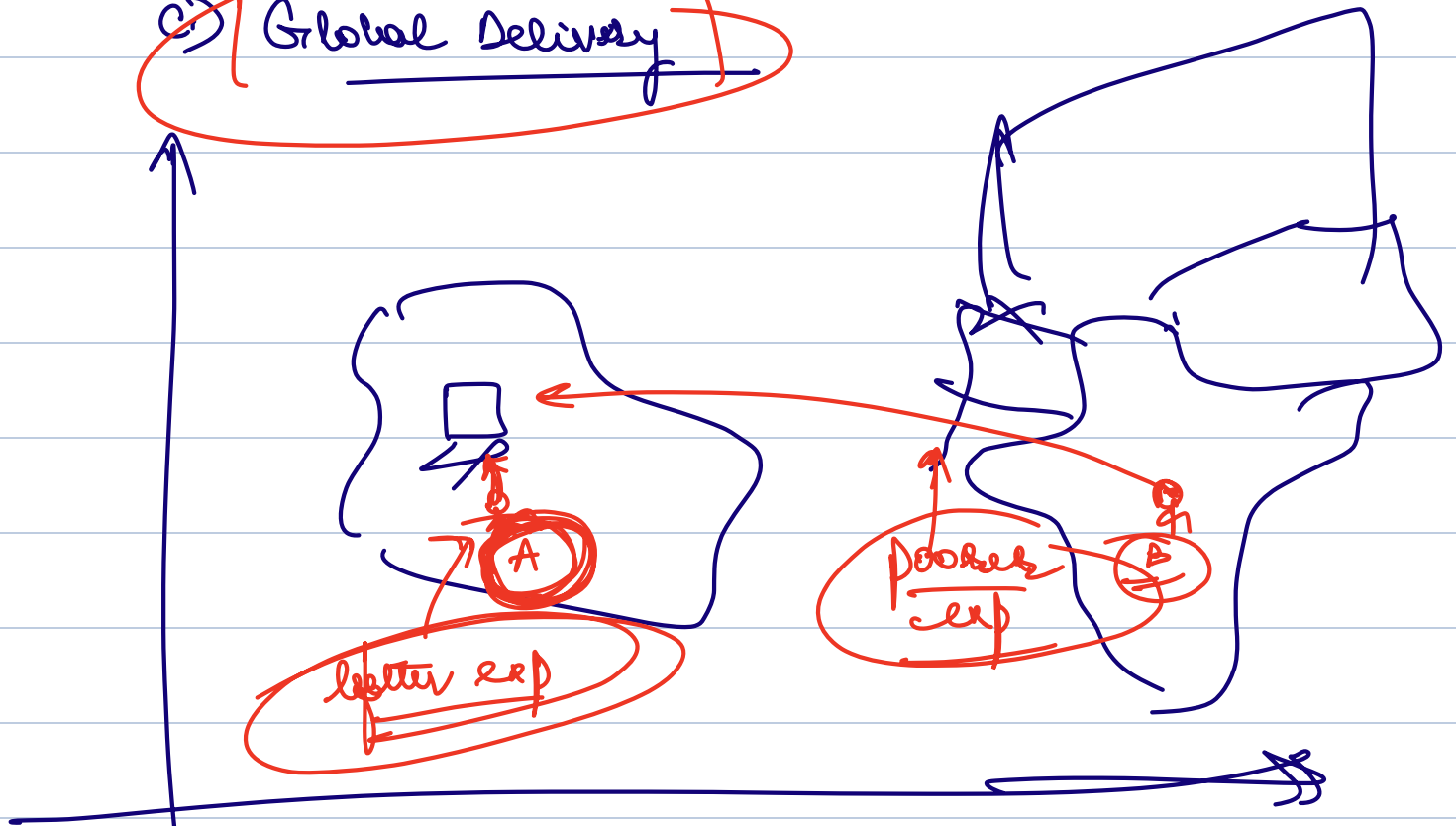
a.) Upfront investment



b.) Scaling



## c) Global Delivery

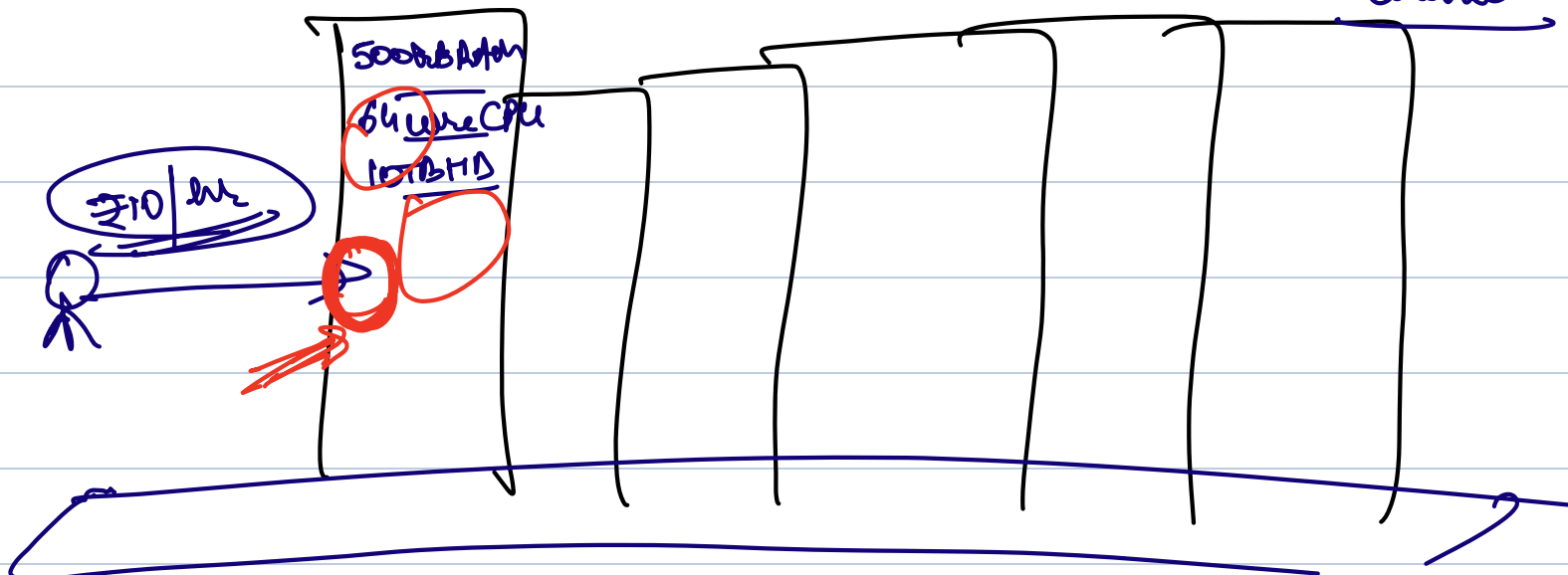


## Why Cloud

- ↳ Amazon
- ↳ Google
- ↳ Microsoft

## renting them

Servers: leasing them



- 1 core CPU
- 1GB RAM
- 10GB HD

Examples

AWS → Amazon

Azure → MS

: Google Cloud → Google

Lindy's  
effect

Linux

v1

v2

# DB Hosting

① Backups

② Redundancy

③ Security

④ Upgrades

(only app<sup>m</sup> servers should be able to connect)

RDS

① Kafka

② Redis

③ E.S.

(MKS)

Elastic Cache

Managed Infra

↳ Infra being managed by cloud provider directly

↳ you will only be required to configure it a bit



AWS

EC2

⇒ Service of AWS that allows you to lease a machine of your liking

Elastic Compute

(1) Leasing Machines to you

AWS > EC2 > Create Machine

EC2

Machine

① Ubuntu 22.04

② 8 GB RAM

③ 4 core CPU

④ 1 TB HDD

AWS  
RDS

or

AWS  
MSK

or

AWS  
ElasticCache

EC2  
Machine

