

Typescript - microsoft

Hadoop -
new to world.

(Doug Cutting) →

GFS →

Premium services.

Google File System

Search engine -

① Donated it to a Foundation (Technological charity)
Active.

Hadoop 3.3.0.

Format
1
ENTER

② Google donated Kubernetes (Orchestration tool) Linux - 1.0
(Linux Foundation)

1.2
500/-

Hadoop -

Google -

white paper → open source code.

File System

windows -

Doug Cutting - Yahoo -

Hadoop 1.0

To manage the large amount of data.



unix.

① NTFS

② FAT32

15 GB

BTFS (Bit Torrent) \leftarrow seeding \rightarrow
 \leftarrow leeching \rightarrow

open source / free.

charge for the distribution
(45%)

Cloudera - (provides Hadoop Distribution)

GLE - Google Kubernetes Engine.

Kafka - Confluent Kafka

Dr. APT Aban
Ichen

Dr. Hari Krishna Pradhan.

1st Man of India.

Aug 1, 2010 - due to covid.

WHO

research
arrow.

Nikola Tesla

Thomas
Edison...

1350.
Director of Intel
in CMOS.

Spark

open source

Data brick / Distribution
of spark

Radio wave.

ray, X-ray,

AC/DC

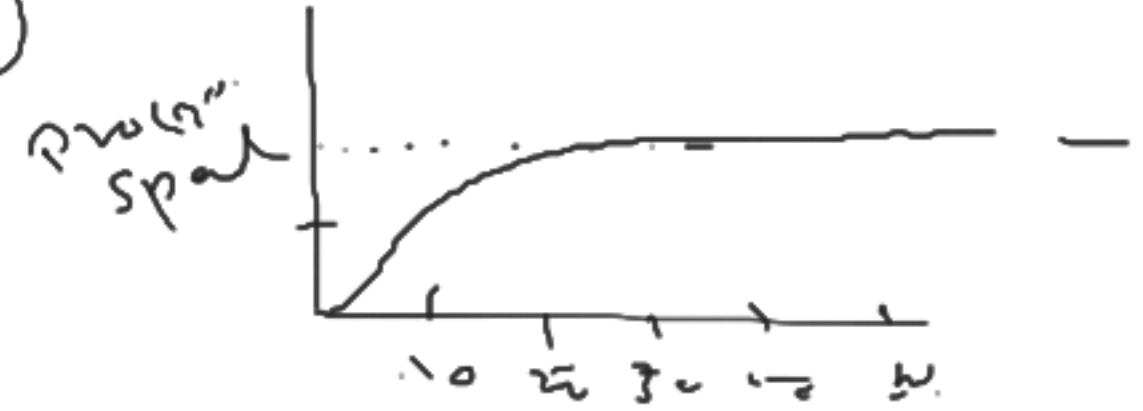
tesla towers

mentally weak (conceptual.)

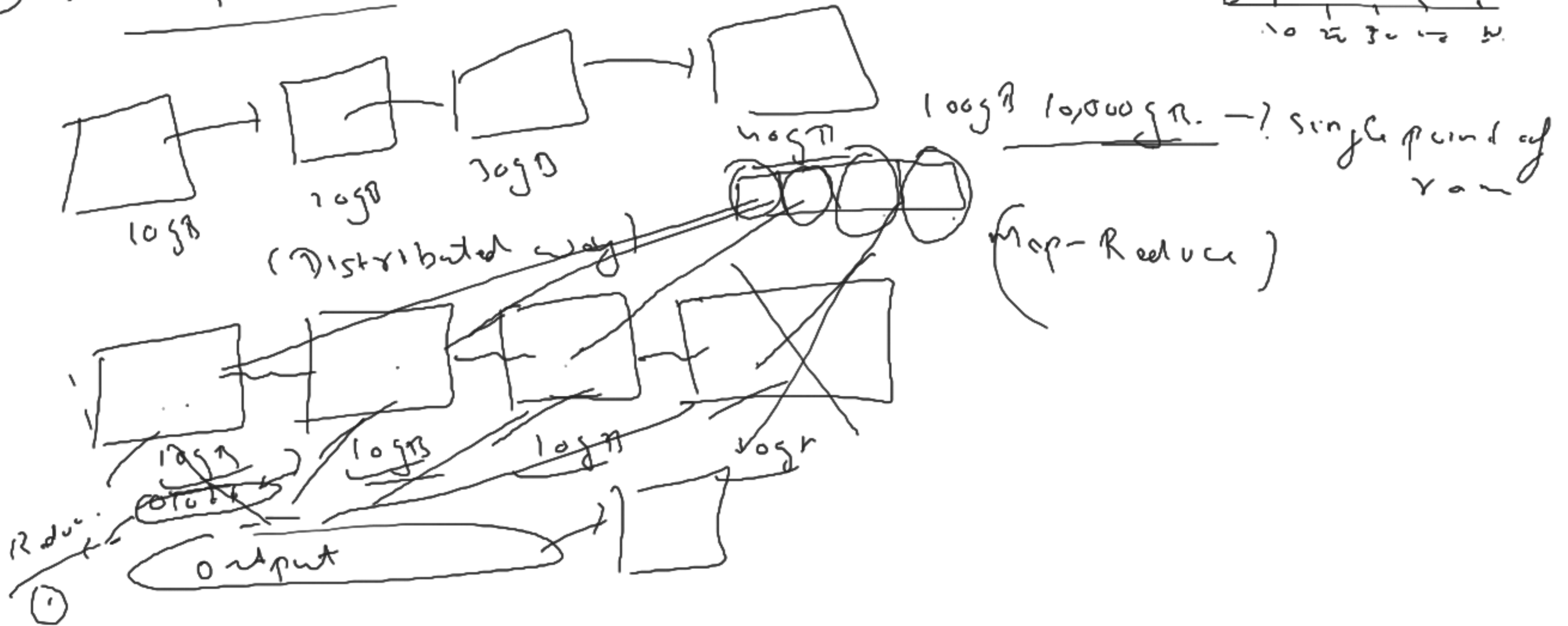
Died in a hotel room
was eating brown bread.

Unit of current
0.50p.

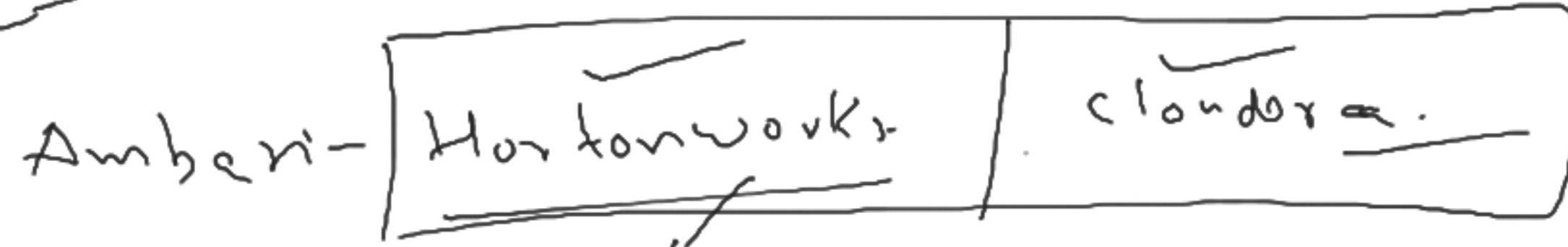
mozilla firefox - Foundation (pages) wikipedia (pages)
Googlechrome - (free) -> marketing, () -> Using it -> Revenue
 Quantum computing.



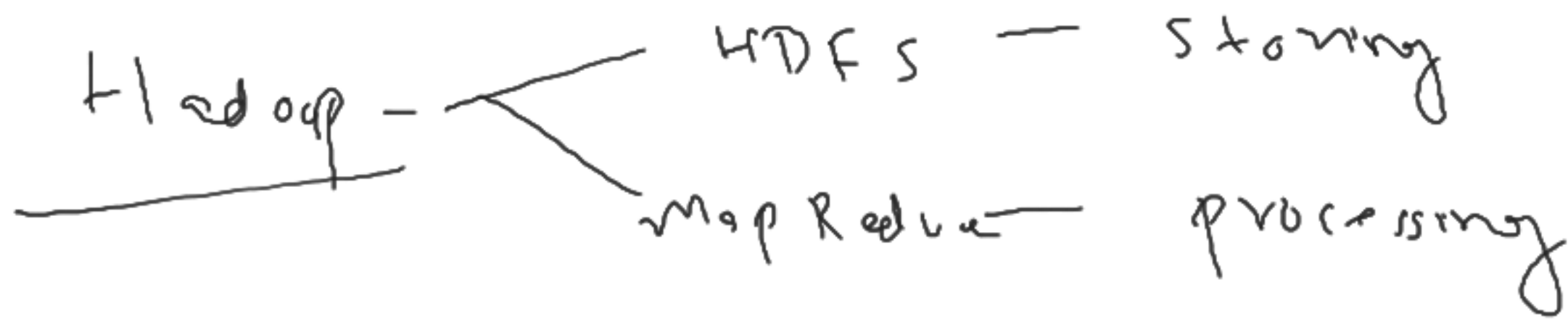
① scale up scale out



Ad-1, want you top → bottom. (work thing) → gmail.



Sandbox
version.

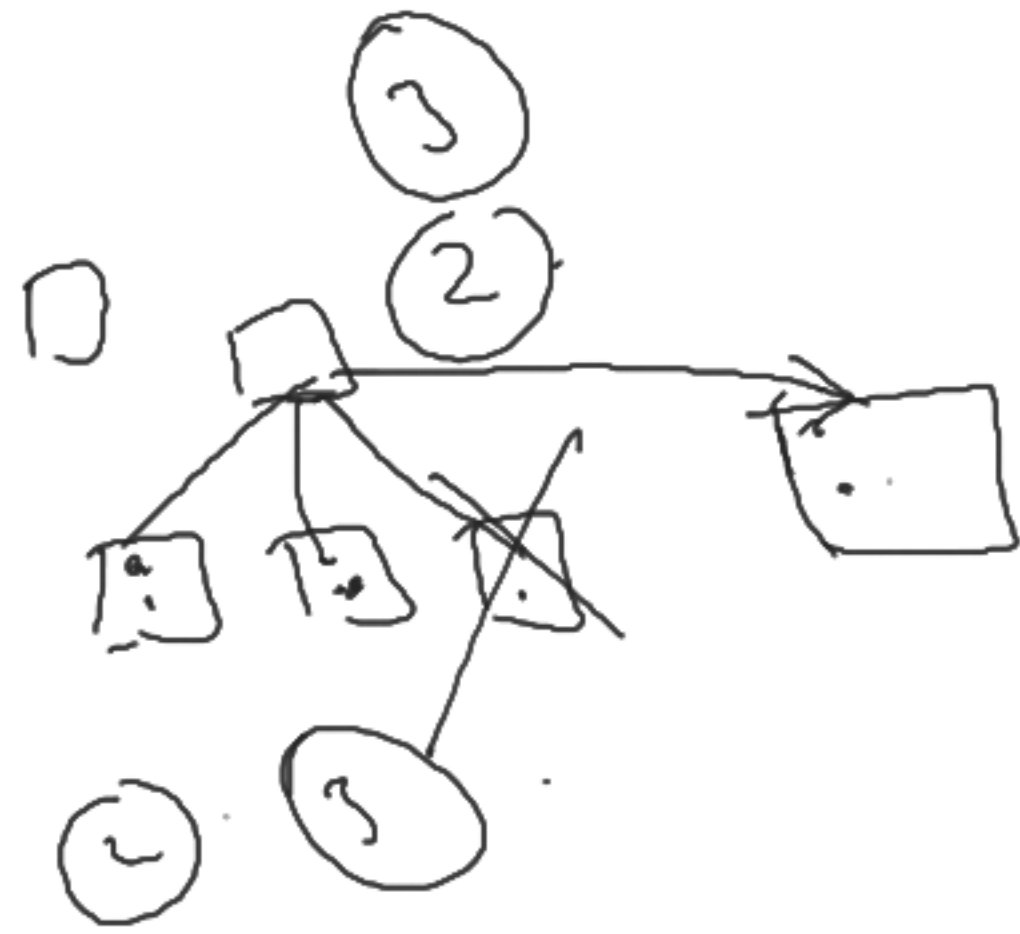
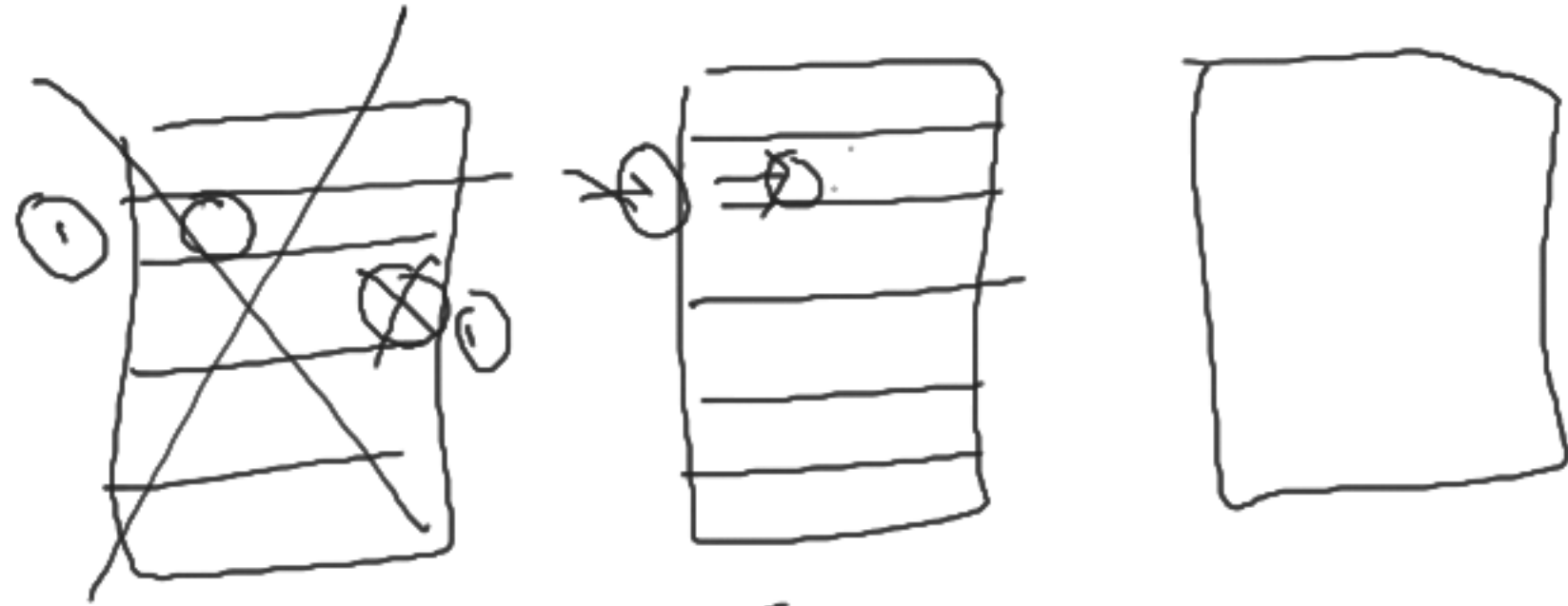


(Master-slave
Architecture).

Master — Name Node, Job Tracker.

Slave → Data Node, Task Tracker.

replication Factor - (replicating) -> 3.



NameNode
 (log) (3) - (0)
 NameNode will getting a ^{signal} heartbeat from File Node 1

3 times.

Hadop 1

Hadop 2

Hadop 3.

Single

Secondary

Name Node.

Name Node

Sync.



Journal Name Node.



SN

SN

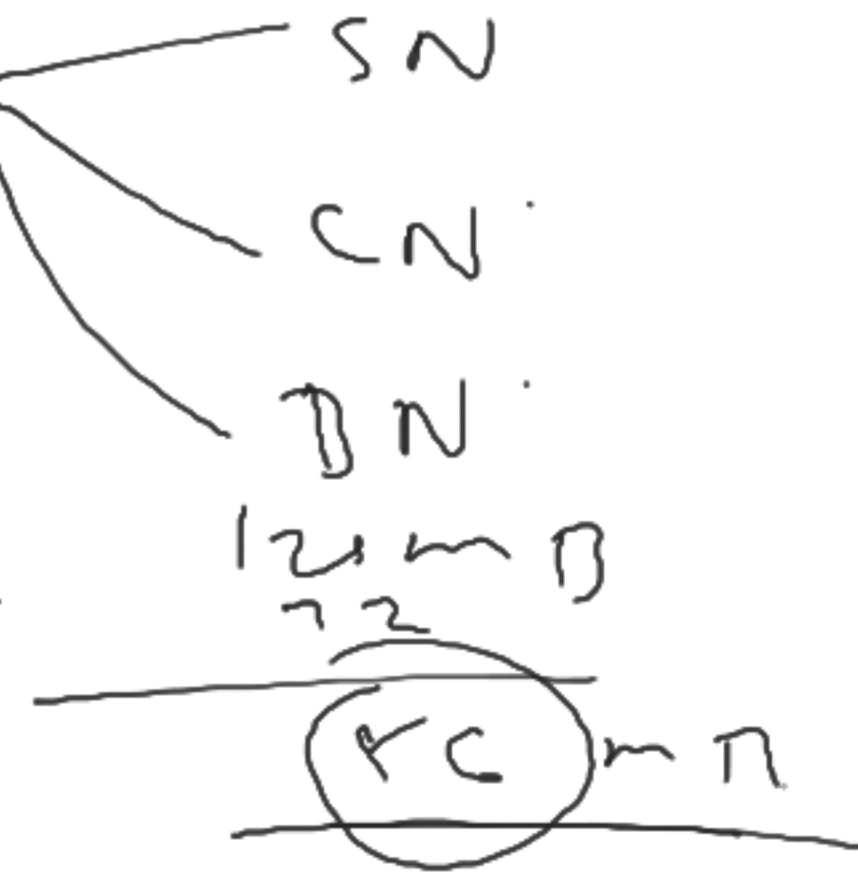
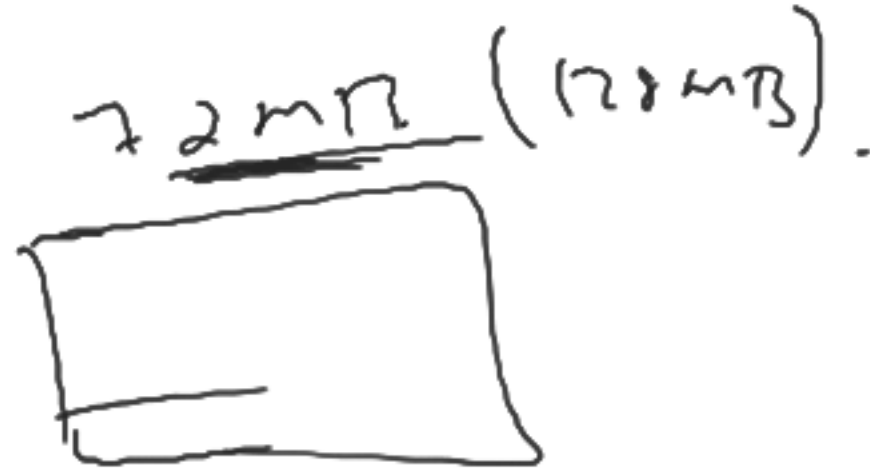
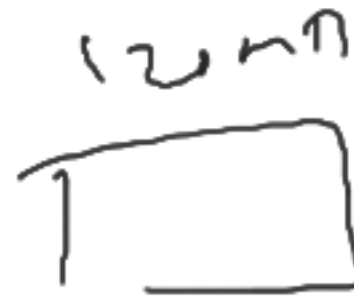
SN

128MB

128MB

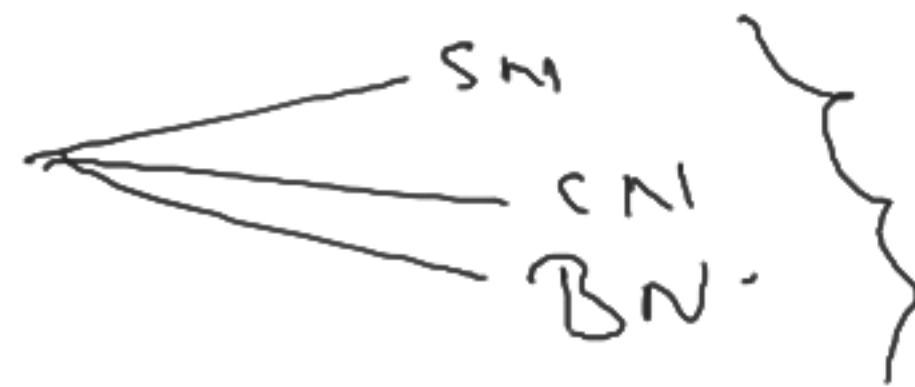
64MB.

High Available - NameNode failure



200MB
NameNode
Master -

(reduce failure)



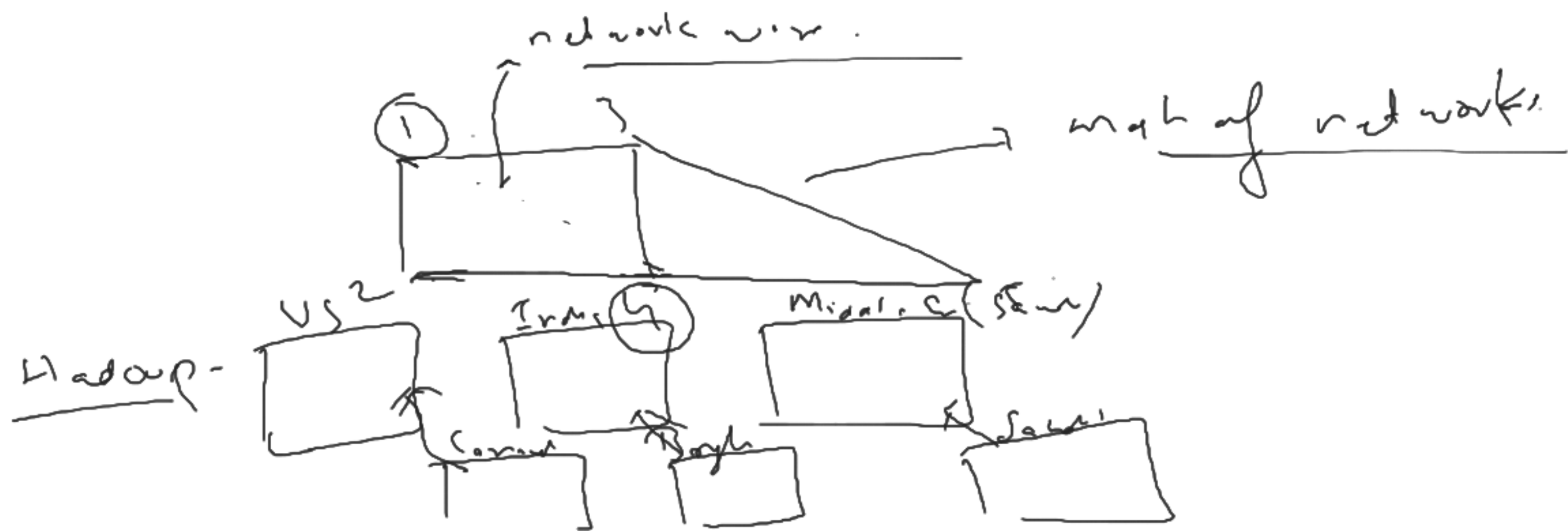
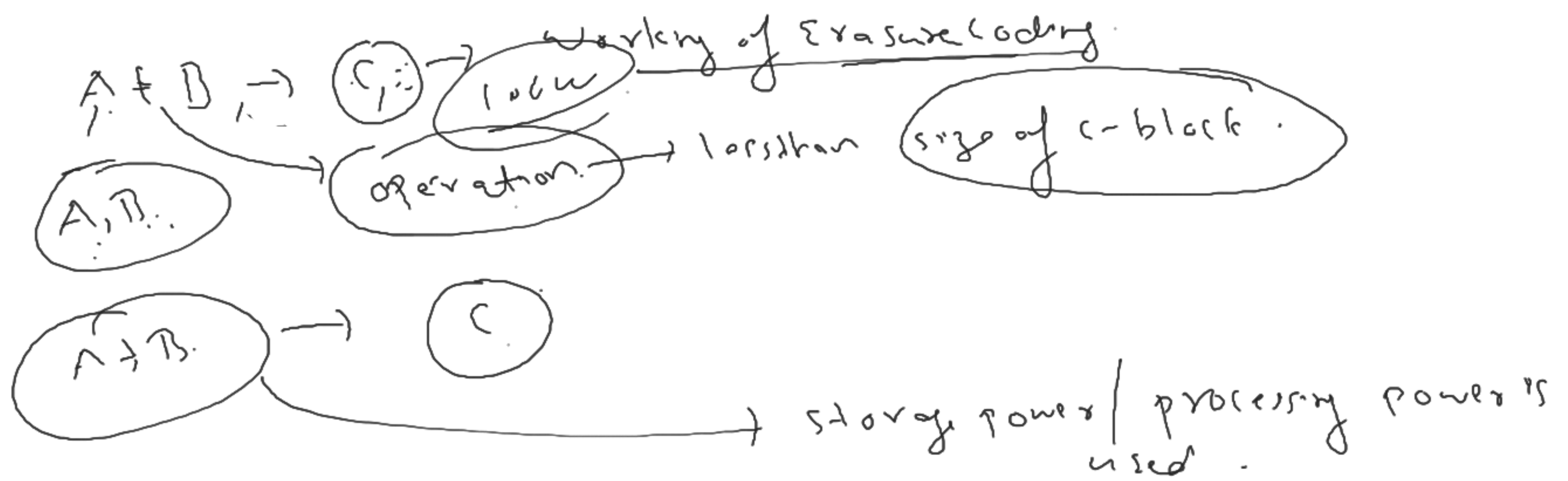
Slow

DataNode - (Fault tolerance)

Before Hadoop 3 - replica creation

replication management
erasure coding.





- ① Miami -
- ② LAS - PLAS.
- ② LAS - P LAS.
- ③ Corvado - Toronto -
- ④ Atlanta.
- ⑤ Brazil →
- ⑥ Europe →
- ⑦ India → operation.

