2	22 Dec/2023
) has	d Trus
icer 7	

Gathway	+	Load	Balan (ev	
)
			Filh stor	- Blob
				0430

STORING LARGE FILES

Client

Why NOT a SEL DB?

NOSOLX

distributed file system (i)

HDFS

AWS S3

Go Scaler

39 B X 10,000 Viduos

39B × 109



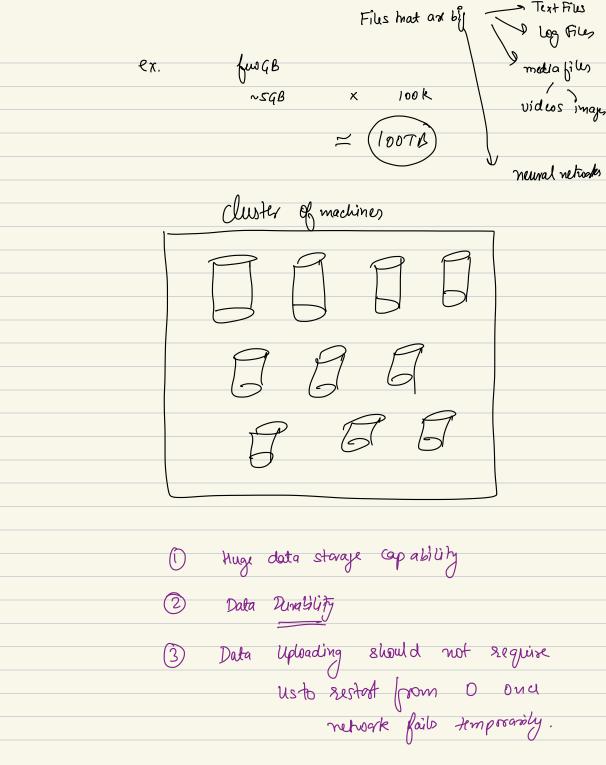
) replicate

HDFS

07

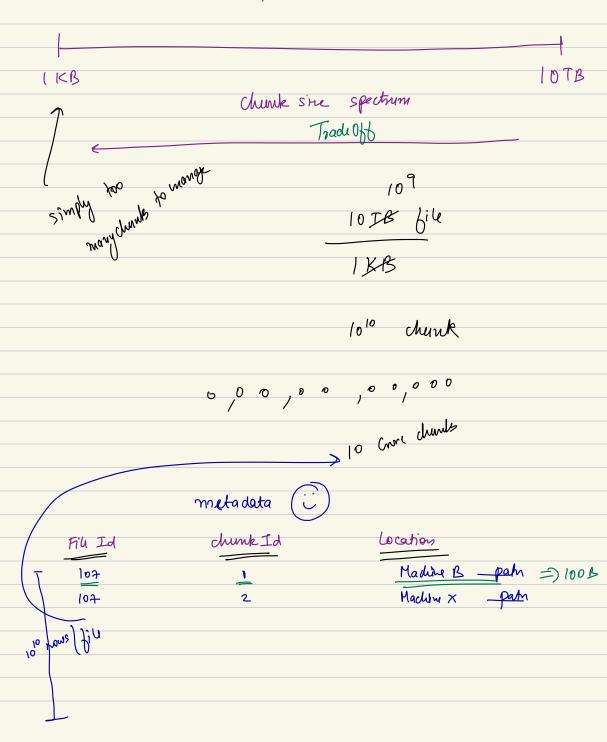
Aws 53



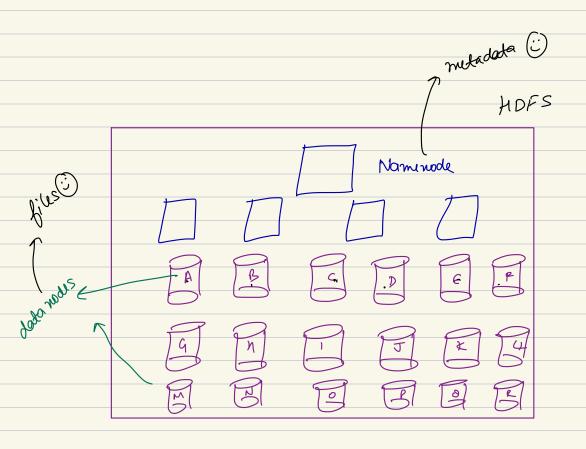


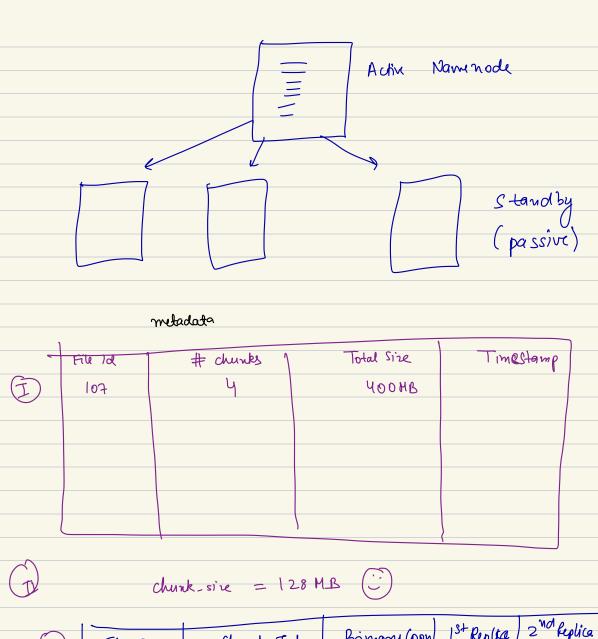
Downloading - not require to restart from O after new failur Chuster NDFS Client upload dates Problems 1 Fili itself myht be too big to save madine. Fragmentation under - Utilizing your cluster -FIL 2TB 1.573

Parallel doumloading is not possible if you star entire file as I unit Files are going to chunkified Cluster 27DH Eln Joy save a 10TB/ile Wient Red 107 Um 7 Thread 10 TB - into churches of =) 10,000 chunks of 1 GB each



10 to × 100 B metadata 10 TB 616 HDFS 64 MB church default chunk size -> /128 MB duruk 2.0 10TB divide 128 HB chunk Hw. modadate 100 bytes metadata = ?





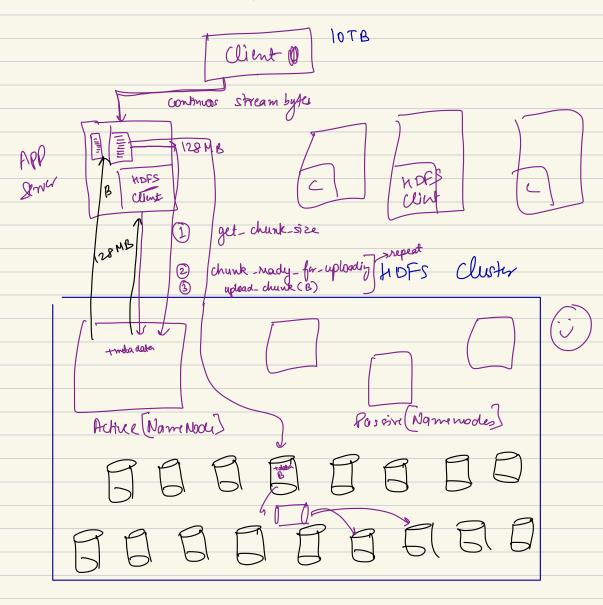
Chanac si le = (20 1)						
(45)	Fil Id	Chunk Id	frimary Copy	1st Replica	2 nd Replie	
	107)	2	Ε	A	
	107	2_	М	0	P	
	107	3	A	D	F	
	102	ÿ	C	E	H	

Mor Ruable 0

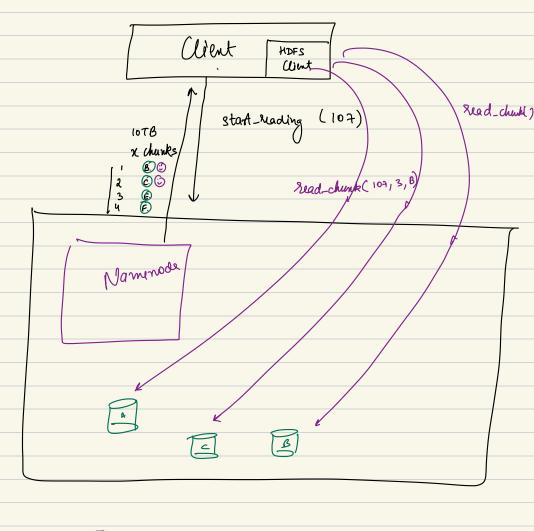
Rack Award Algorithm (i)

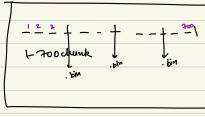
(

Write Flow | Upland Flu



Read Flow | Down boad

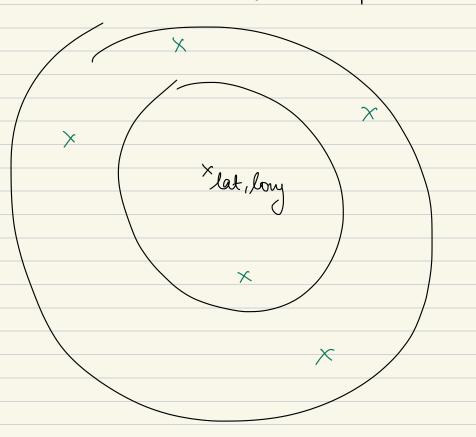






google maps

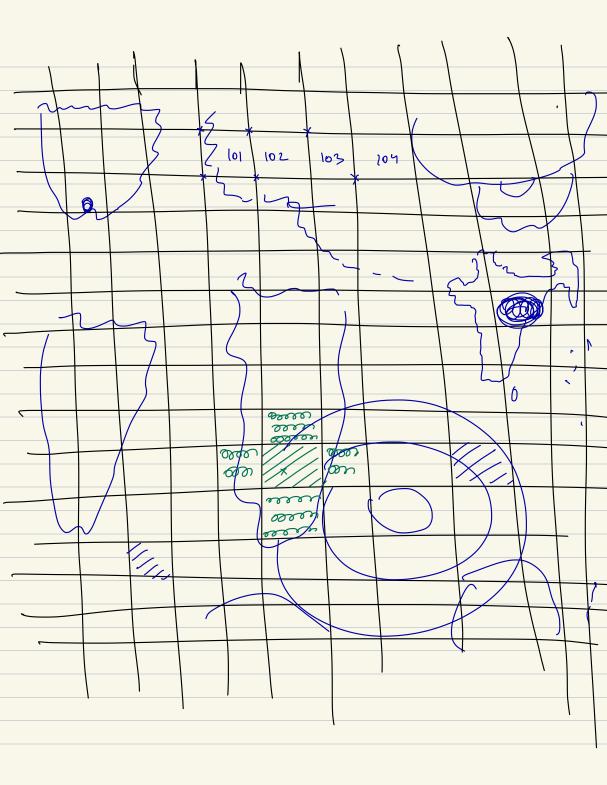
barber shops near me



Places near me

(Nace	of	interest	nor	me
		-) Te	mple		
			Harrant Uro station		(lat, long)
					(300)
	7				
Step	1 :	12	ty pe Bobrshop	1 Norme Alim Hakim	below Ratilony
10h July					
land Ingres					
7					
		,			
			1	•	

(lat, long)



Simple indexing OR shording will not straken Solve he issue as; even after it you will have to consider los of Thousands of Comparisons.

=) Normal SOZ/ NosOZ dBs worit work (i) Divide he world into grids; and hen band on my query, Identify grid-id and hen perform a blow of interest search only in mat grid cell

[+ neighbouring grid cells]

PROBLEM:

Even mough a grid cell solution is a solution
in the sight direction, but it is NOT

without problems

Unequal denoity of places of interest transplant the world

Flexible Grid Solution

