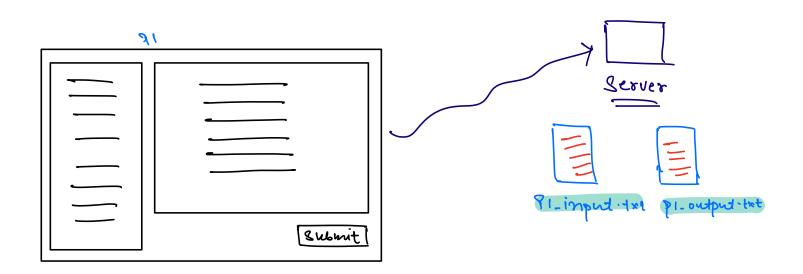
Agenda.

- => Case studies on Carring
  - 1) Scaler Code Judge.
  - 2) Scaler Contest Leaderboard.



Size of input file

- > 100 Test Cases \* 106 indegers \* 8B
- = 800 × 10 Bytes
- = 200 MB.

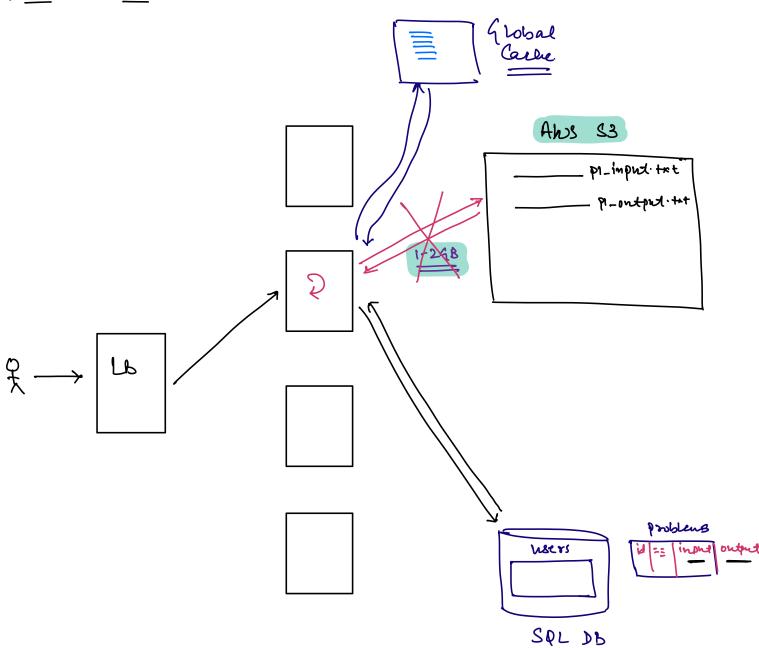
\_ problem n 1-24B. total 2000 problem.

2000 x 1.5 98. 3 TB. file Storage
Aws Aznre <u>22</u> 8206 Aws s3 \_\_\_\_ p1\_inpud: txt 1-298 WELKS SQL DB

=> tuge n/10 bandnidth.

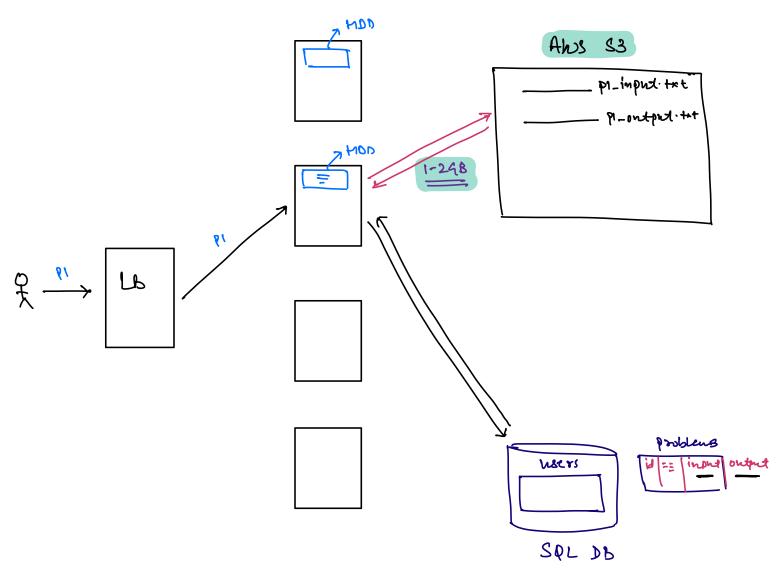
=> 1-2 90 data transfer per submission.

Global Carre



=> Not solving the problem of n/w bandmidth.

docal Caula.



Cache Invalidation

→ Can TC files change?.

> Extremely rare.

7 Eventual or Immediate Consistency.

TTLX

Innin

I sec

I hr

Iohr

2448

Write Around x

Write Back x

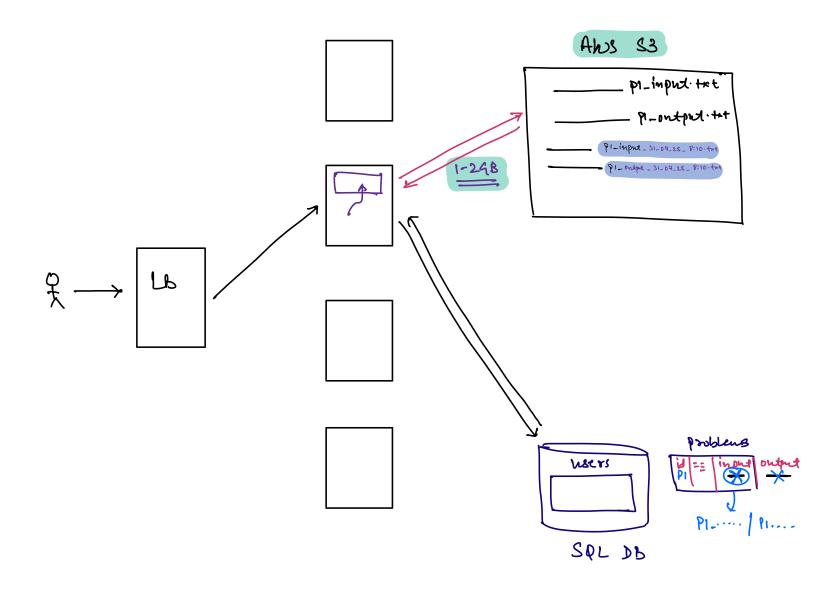
Write Through. x

P1-input.txt

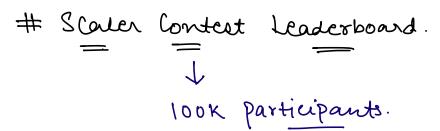
PI\_ ontput . txt

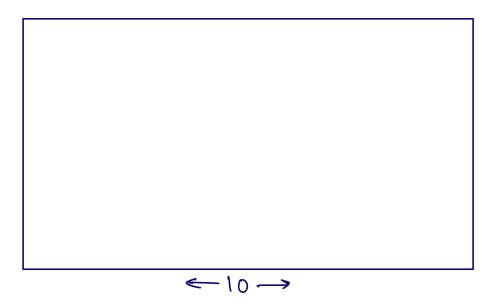
P1-input\_31-07-25\_8:10.4xt

P1\_ Ontput \_ 31\_07\_25\_ 8:10.+xt



→ Immediate Consistency.





- → Paginated response.
- >> 3 hrs: Contest Duration
  100 h neers.

  5 problems.

Aug Submissions

- 1 submission | noer | problem x 5 probleme
- => S Submissions (neer

Total Submissions = 5 × 100k Submissions

3 hrs -> 500 K

3x60x60 sec -> 500K

$$\frac{1 \text{Sec}}{2 \times 3600} = \frac{500 \times 1000}{1 \times 1000}$$

= 50 & ubmissions | sec.

Pata for beaderboard.

userid => {Contest-id, problem-id, marus, # of susm.

500 B

100 K X 500 B

=> 500 × 10 Bytes.

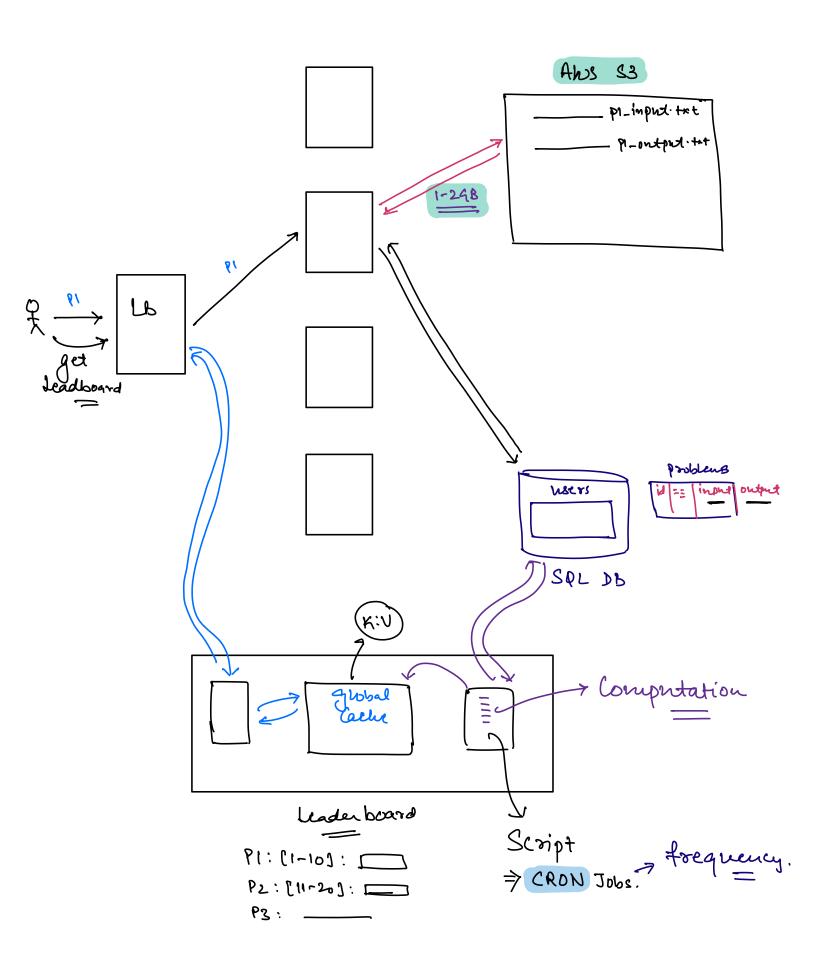
>> 50×106 B.

→ 50 MB.

=> Aug # of requests for tradeusoard 100 K \* (20/3 Nrs) 20x 100x 1000 20x 100x1000 10000 3x60x60 = 200 Views | sec. > Carre.

Local OR Global.

X Single (OR) Distributed.



Cache Invalidat	10M.		
Eventual	(VS)	Immediate	Consistency.
TTL 10 mine.			
Carre Eviction.  No 2	ced.		
		*	