Lec 10 Learning

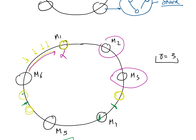
9:05 AM

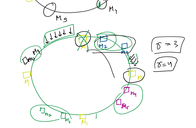
- MLO Framework
- Graph Synchronous Learning

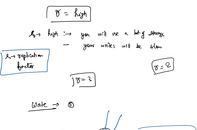
Agenda

- Replication in Multi-master
- Tunable Consistency
- Mdsus
- Slow Fitx ★

Multi-master







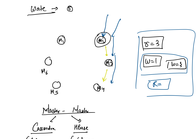
B = high

A_f = high → you will see a lot of stores
→ your writes will be slow

A = replication factor

B = 2

Write →



Mongo / Mdsus

Cassandra / Mdsus

(Column Family Store) / (Column Family Store)

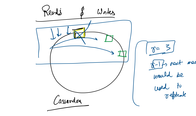
Reads & Writes

Cassandra

In Multi-Mdsus

→ I have optional for machines going down

Adding a machine → Warming up + Block-catchup



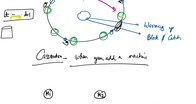
Cassandra when you add a machine

(Available)

R=2
W=2

2+2>3

$R_f = 3$



① $R_f = 3$ R:
W=1 W : [1-3]

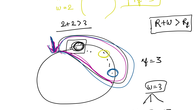
For a user → Replication factor (R_f)

R+W>N
L
highly consistent

R=1 W=1

|1| < 3

R=2, W=2
2+2>3 highly consistent



$R_f = 3$
R=1, W=3

$R_f = 5$
R=1 W=1

$R_f = 5$

R+W < R_f

R=2
W=2

$R_f = 2$

Hb
Write optional
Read optional
Mdsus

$R_f = 5$

R=1 W=1 { Read optional

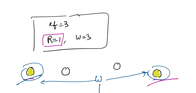
R=5 W=1 { Write optional

R=5 W=3 { Mdsus write

✓ Tunable Consistency

Work in Cassandra

Storage


Log
Log Folder
Log
Memtable
Log
Memtable
Log
Memtable