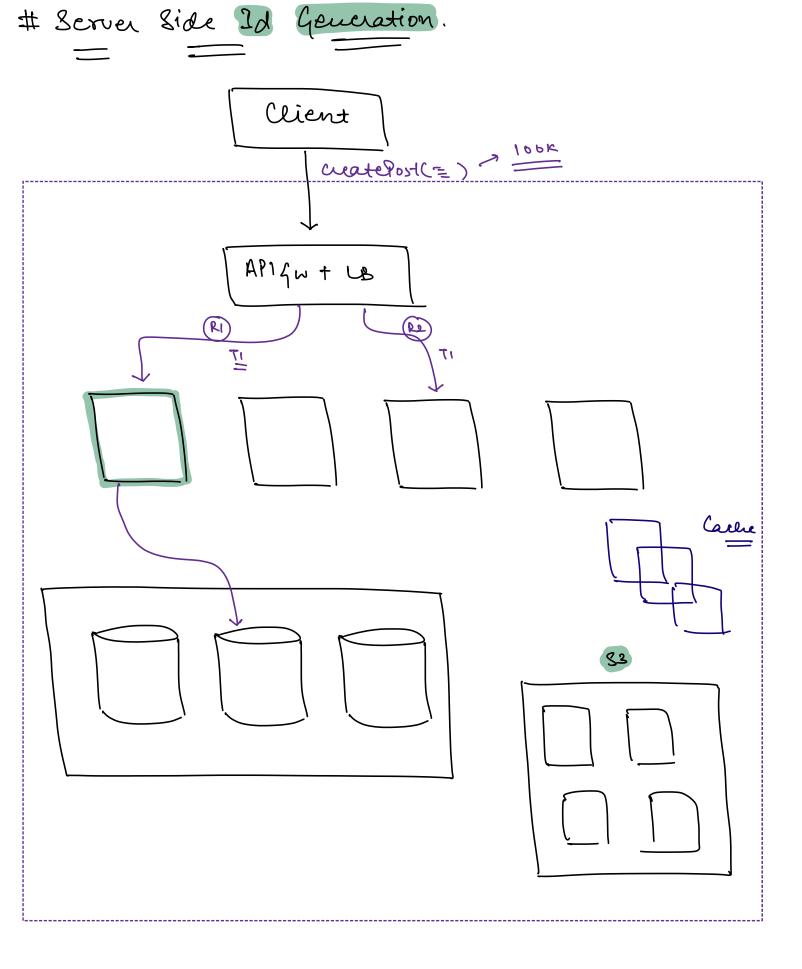


=> both client and server needs to have a feature et generating unique <u>id.</u> => hohen client is required to generate a unique L. To make the API's idempotent. convid gender? d sending (102, (2) Client Server.

7	I dempotency.
=>	Same request should n't processed truice by the server.
	by the server.
7	Client generates a renique Id (Idempotency key on their side to make sure that the
	en their side to make sure that the
	deruer mill not process the same request
	tuice.
今	Client
•	Mobile App
	Mobile App Browser Web App Browser
	MAC/191

id: Client-id + device-info + timestamp. (+...)

Orique 2d.



=> In the backend architecture, id should be linique across the entire chuser.

7 Id be unique globally.

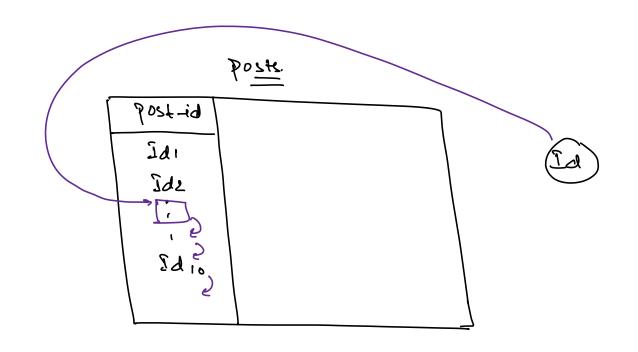
=> Id's should be incremental.

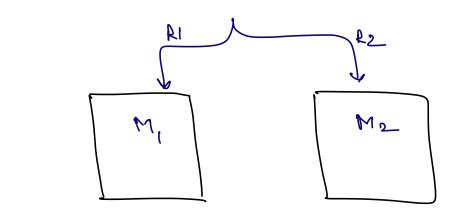
id 2 id1

14 (+2>+1) { id27 id2

2a9b98f1-b360-42b2a0d1-7ab1d9e20ff3 7 128 bit Number

UUID.





- -> machine Id
- -> timestamp
 - -> device-info
 - -> user_info

→ 64 Bit Number

MSB

(1) (-S-) (-S-) (-S-) (-S-)

LSB.

41 Bits => Timestamp.

(epoch)

5 Bits => Pata Centre Id

5 Bits => Machine Id in the Pata Centre.

12 Bits => Sequence Number

[Counter].

Timestamp.: Epoch

=> No. of milliseconds passed after a particular dater.

1, 01 01 1940 00:00:00

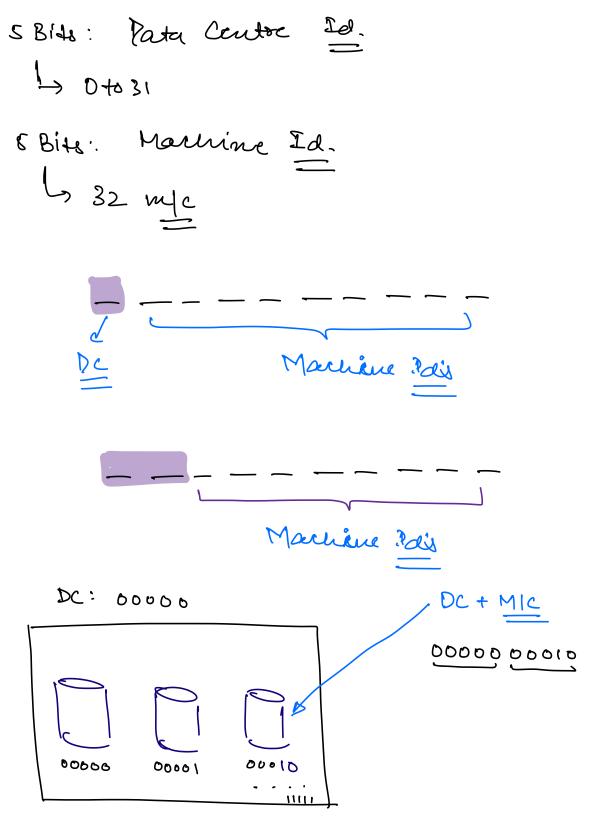
Truiter: Start Date

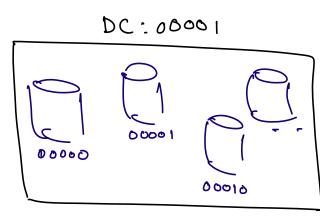
4th Nov, 2010. \$\rightarrow\$ 2080.

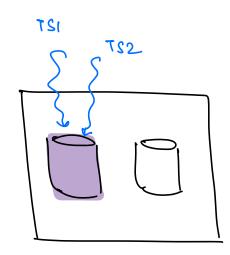
41 Bits => 241 milliseconds.

2199023255552 ms

y Years
u yo Years.







I me
$$\Rightarrow$$
 4096
18ec \Rightarrow 4096 × 10³
 \Rightarrow 4×10⁶ \Rightarrow 4M rps

