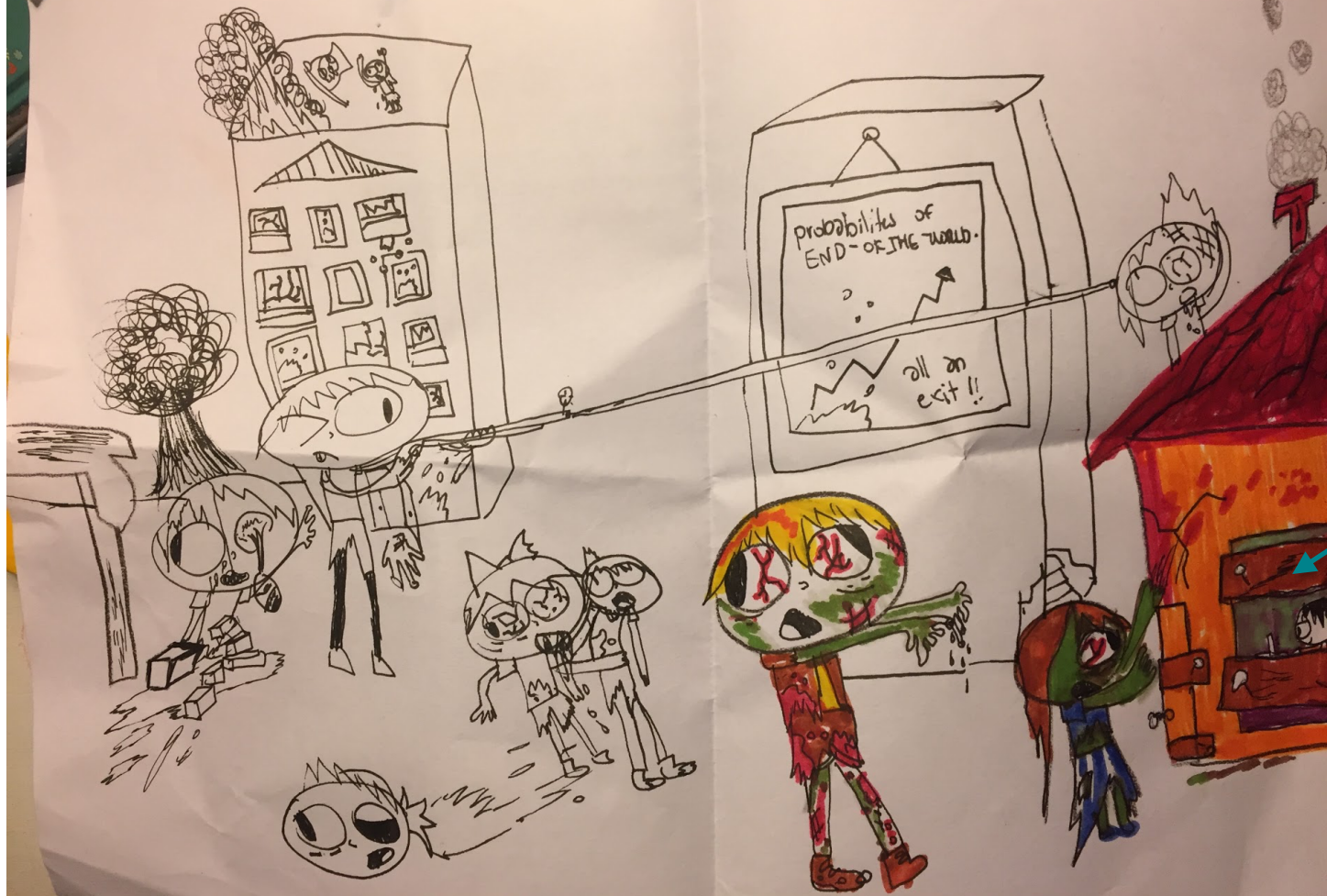


CockroachDB

A database for the zombie apocalypse

Fernando Ipar / Open Source Persistence Meetup / Nov 2016

Pythian



Zombie
Apocalypse

stress-free
cockroachdb
DBA



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Please change name. #3151

[New issue](#)

Closed

phynalle opened this issue on Nov 17, 2015 · 1 comment



phynalle commented on Nov 17, 2015

Contributor



I'm sorry to post a issue that doesn't relate to bug.
I was interested in your cockroachdb, I become a fan of it.
I wanted to know more information of it, I tried to google it. However, unluckily, I missed the spell 'db', the results made me shocked. Images of cockroach appeared.
I know your intention to name like this. you might hoped the database would be strong, durable, and resistant against unstable environment. but I think the name was the result of overaction.
Somebody may say that i am insectist, or think I'm just kidding. but i'm really serious.

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Notifications

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spencerkimball commented on Nov 17, 2015

Owner



Like most things in life, if what you're doing doesn't generate a reaction, nobody pays attention. There are a lot of databases out there and it can be difficult for people who don't have enough time to fully understand the differences and follow up with the subset which do what they want. We think we're building the right set of capabilities and the name is not only evocative (as you say), but it grabs attention and focuses it.

CockroachDB Intro

- SQL (postgresql dialect)
- ACID
- Distributed (serializable isolation level guaranteed)
- Synchronous replication
- Auto sharding (ranges)
- No dependencies on special hardware (read: works with just NTP)
- Correct **First**.
- CP in CAP

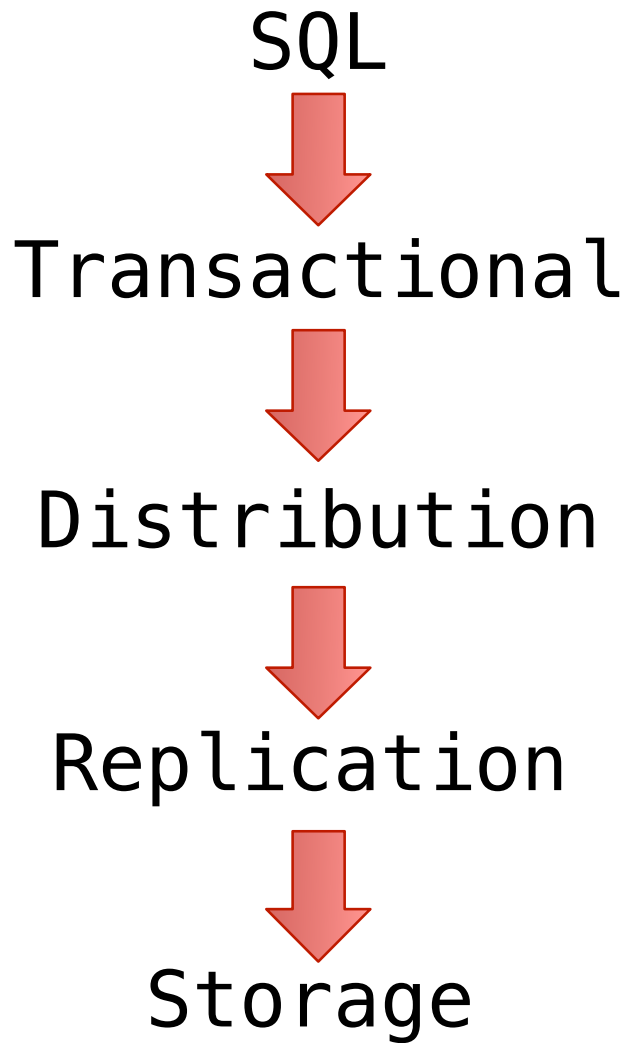
CockroachDB current use cases

Good for:

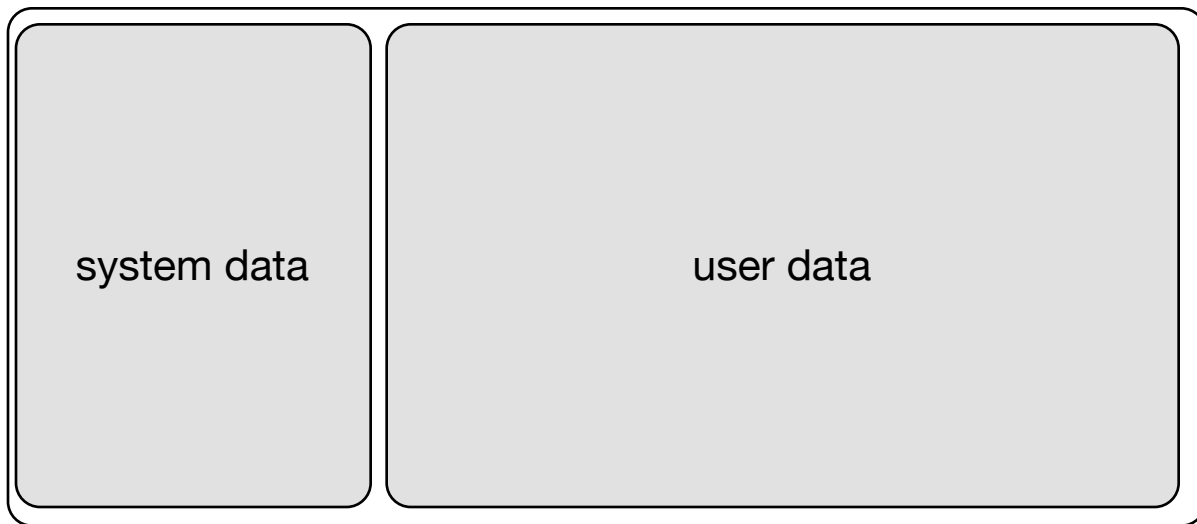
- Distributed or replicated OLTP
- Multi-datacenter deployments
- Cloud-native infrastructure

Bad for:

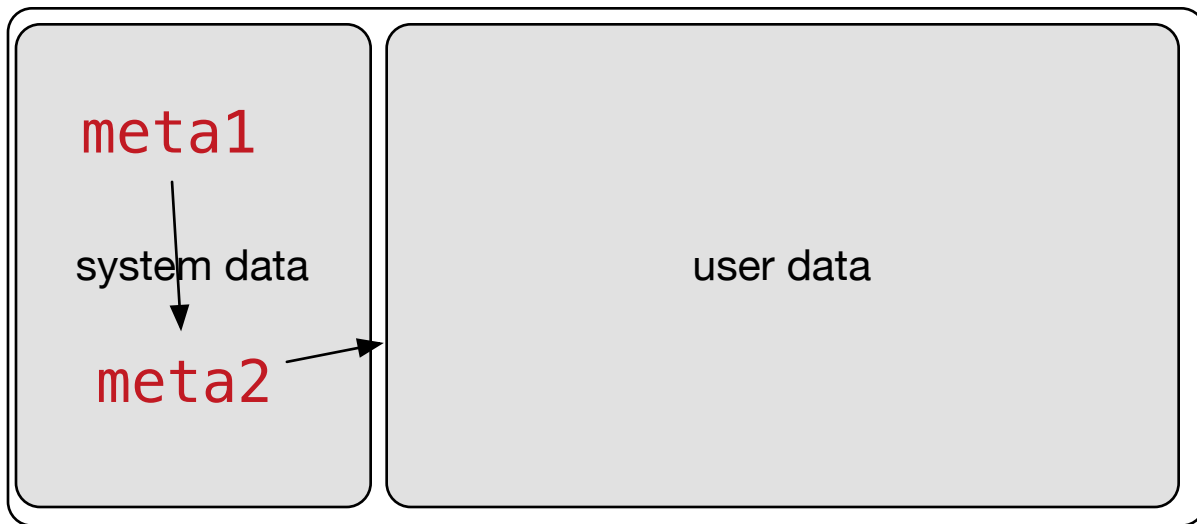
- Complex Joins (being improved)
- OLAP



Monolithic Sorted Map



Monolithic Sorted Map



- Example for alphabetically sorted column, meta1 (taken from manual)

Points to meta2 range for keys [A-M)

meta1/**M** -> node1:26257, node2:26257, node3:26257

Points to meta2 range for keys [M-Z]

meta1/**maxKey** -> node4:26257, node5:26257, node6:26257

CockroachDB

- Example for alphabetically sorted column, meta2 (taken from manual)

Contains [A-G)

meta2/**G** -> node1:26257, node2:26257, node3:26257

Contains [G-M)

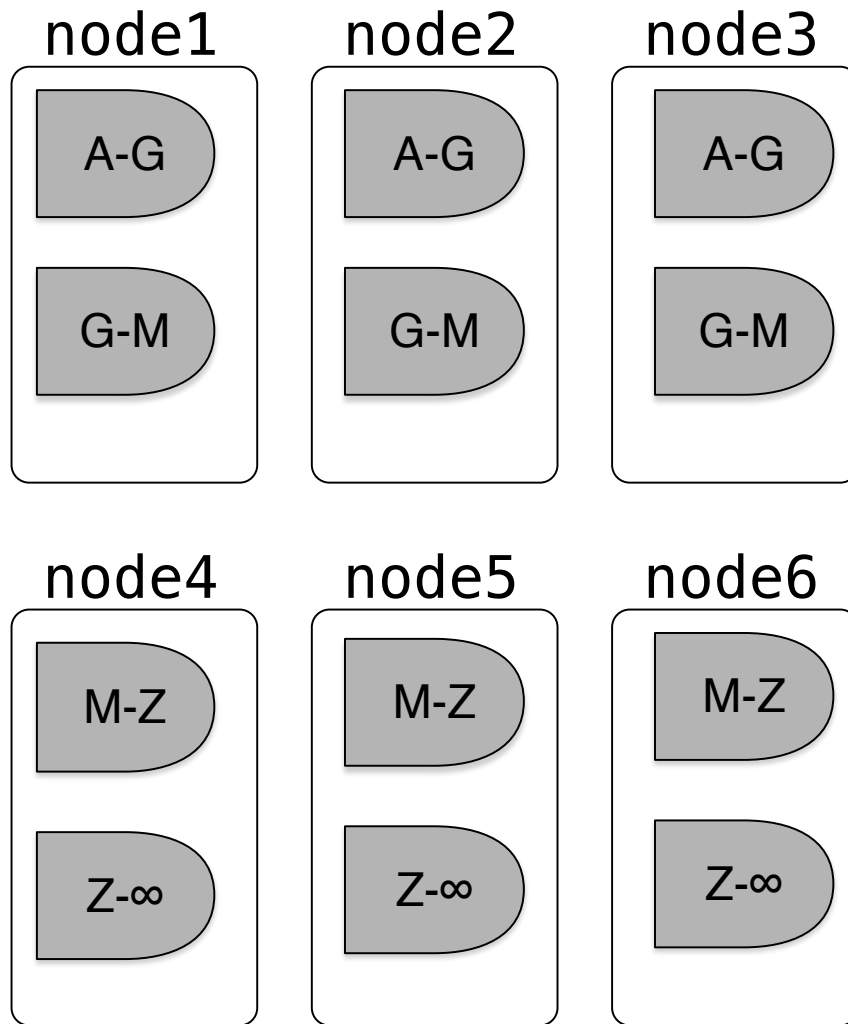
meta2/**M** -> node1:26257, node2:26257, node3:26257

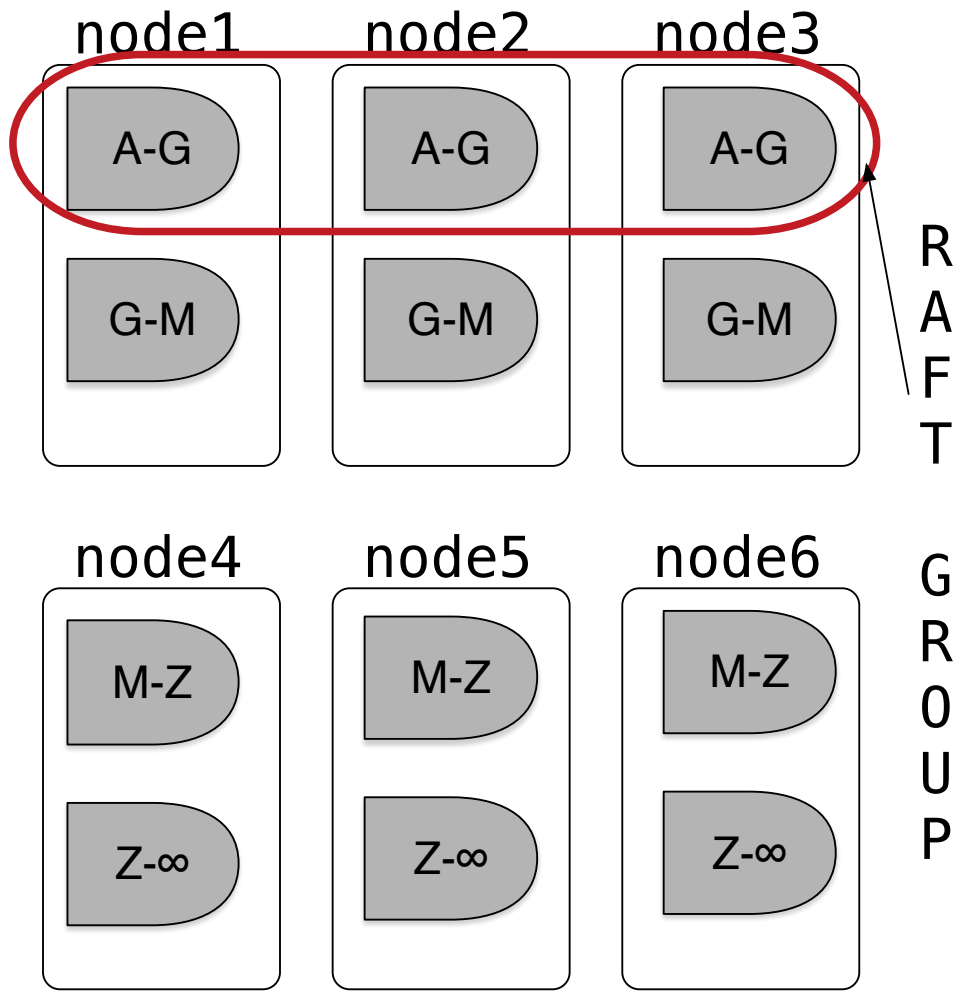
Contains [M-Z)

meta2/**Z** -> node4:26257, node5:26257, node6:26257

Contains [Z-maxKey)

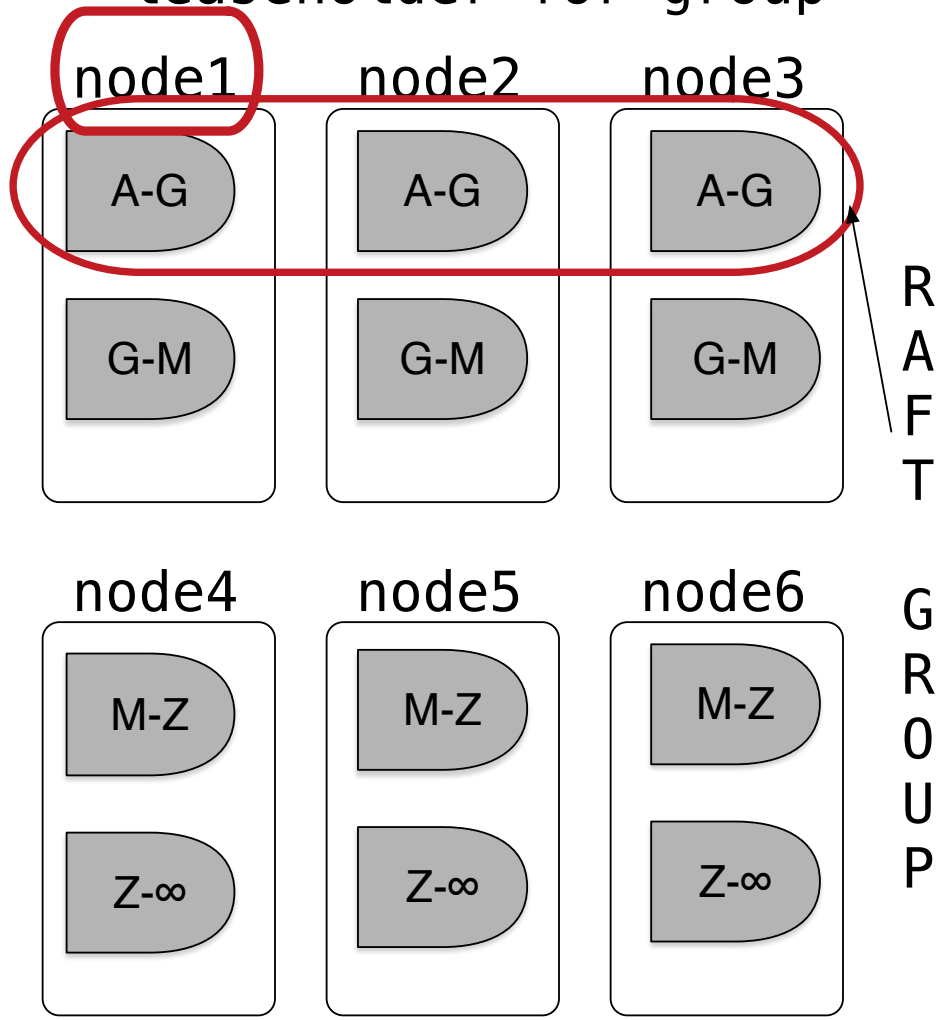
meta2/**maxKey** -> node4:26257, node5:26257, node6:26257





leaseholder for group

CockroachDB



A teal diagonal overlay covers the left side of the image. The background is a grayscale photograph of a desk with papers, a pen, and a cup of coffee.

THANK YOU

We are hiring!