

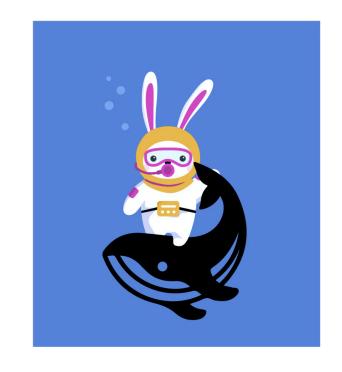
Choosing, Using and Extending Trino as a Primary Datastore





I am Rob Dickinson CTO at Resurface Labs

You can find me at @robfromboulder



Our Use Case

Purpose-built database for API traffic To see API failures, threats & slowdowns Because guessing is lame

Workload characteristics:

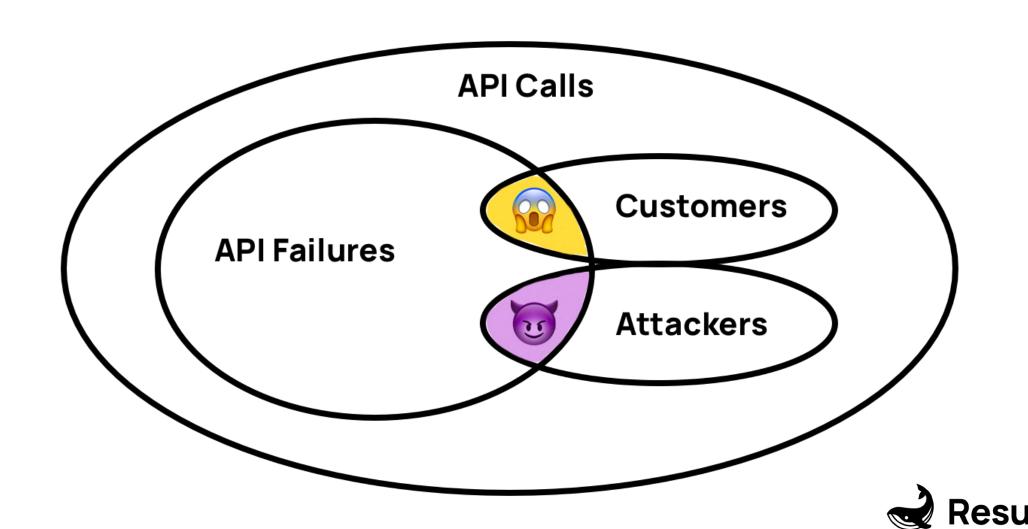
Writes – sequential appends (lots)

Deletes - drop partition (periodically)

Updates - only through views (as needed)

Reads – query all columns / all rows 🤔

Super-columnar queries (all columns)



Let's talk about Trino...



What's Trino (formerly known as PrestoSQL)

- If you know Presto...
- If you've been using PrestoSQL...
- ... same software, same people, same community
- ... under a shiny new name and a cute bunny

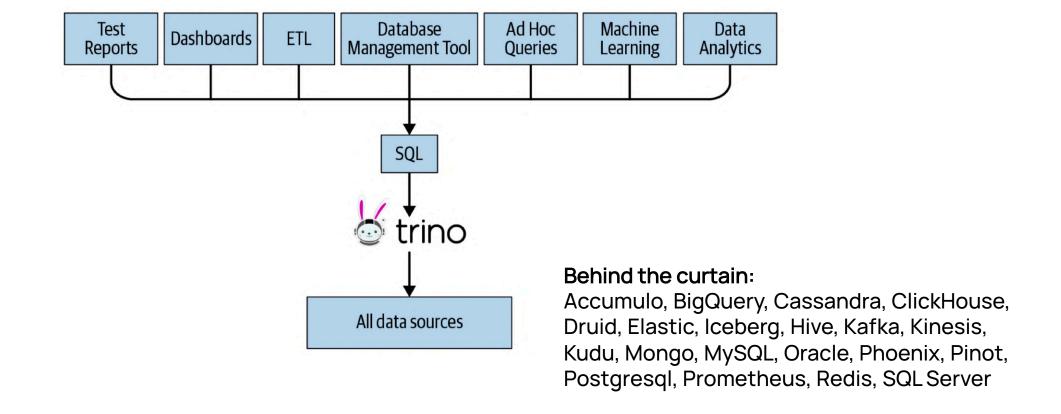


Why We Trino

Trino hides data sources behind SQL
Trino offers advanced SQL features
Trino pushes queries down to data
Trino is easy to extend
Trino scales up and down well
Trino has advantages over Presto

Trino hides many sources of data behind SQL





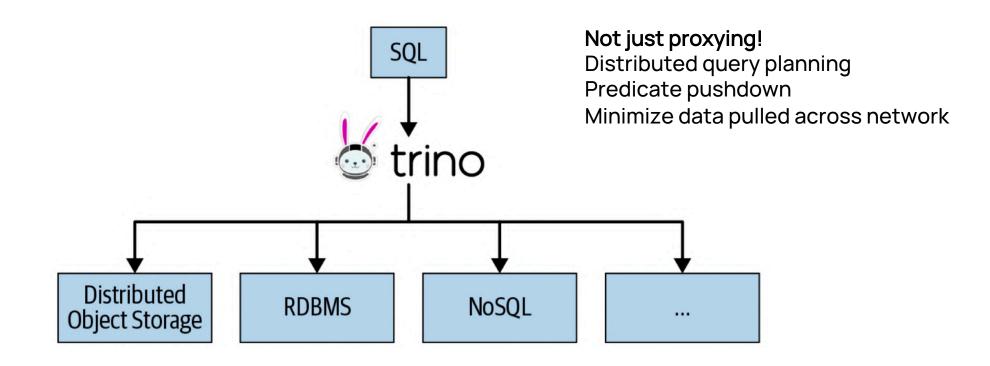
Trino supports advanced SQL



- Not just some reduced subset of SQL
- Ouch-that-hurts-my-brain SQL
- Inner/outer joins and subqueries (even across datastores)
- Built-in JSON and GEO functions
- Histogram function is awesome 💗
- Recent additions: OFFSET, WINDOW, RANGE, UNNEST

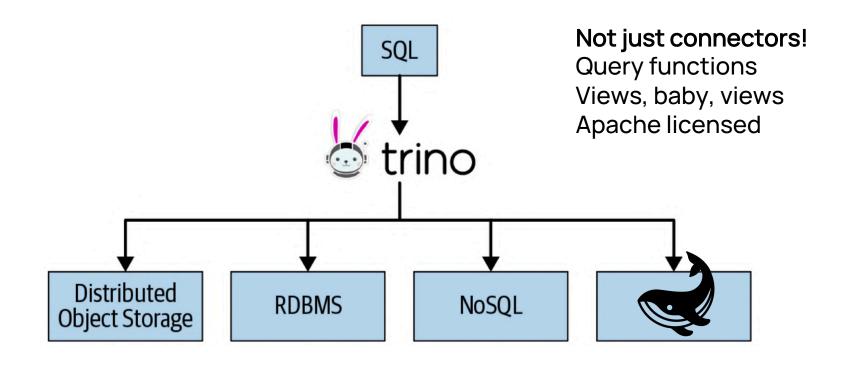
Trino pushes queries down to data





Trino is easy to tweak and extend





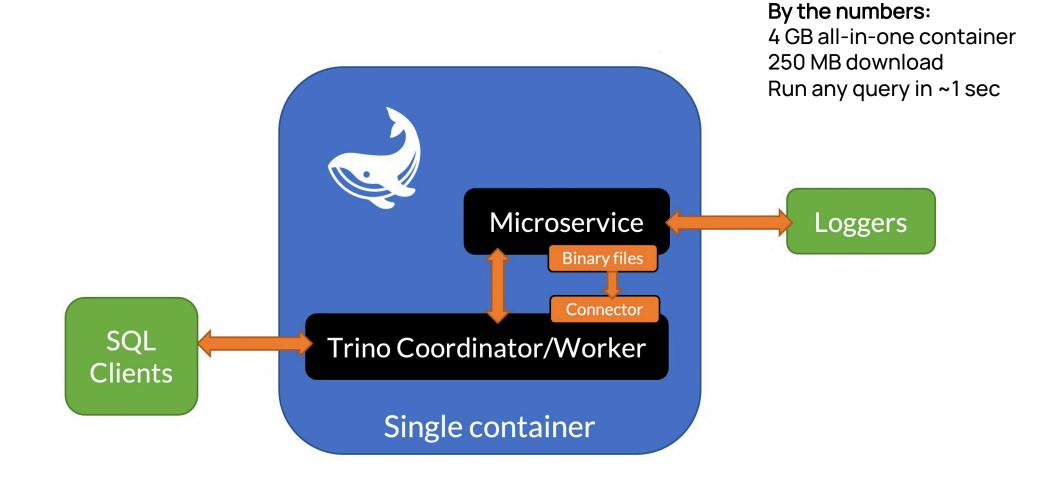
Trino scales up and down



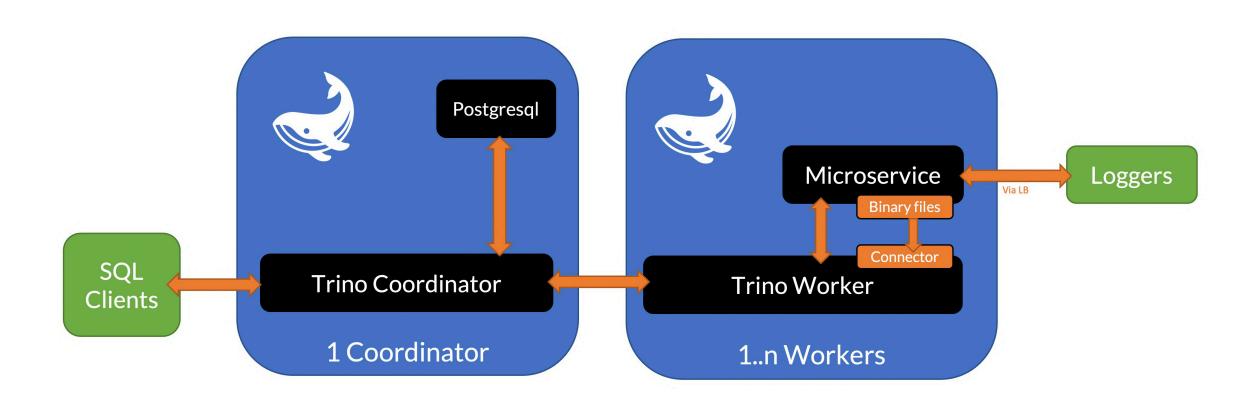
- Trino deployments in the wild scale to 20k+ nodes
- Which is great if you're Facebook (or trying to be)

- Most of us need cost efficiency with least caretaking
- Trino runs on a single node, runs on cheap nodes
- Doesn't have the weight of Hadoop, Zookeeper

Resurface Pilot Edition



Scaling up to many workers

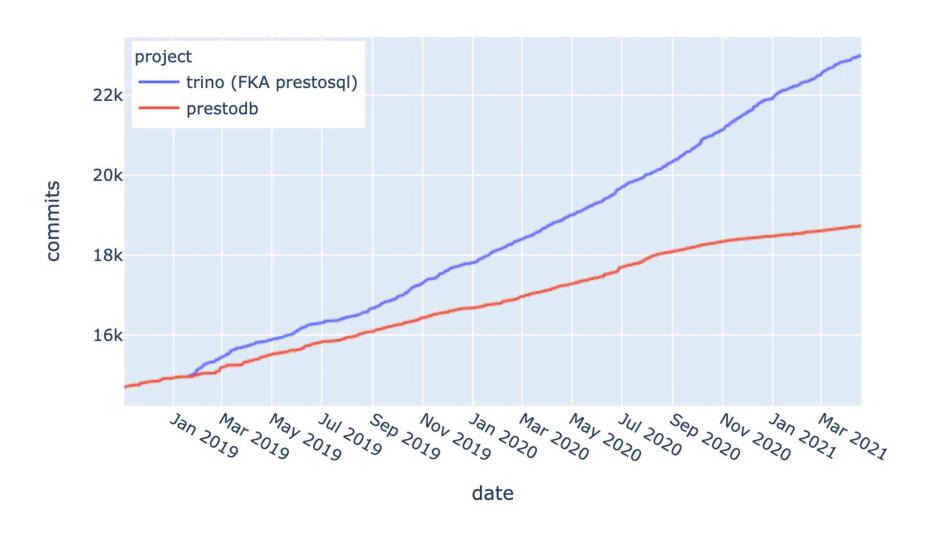


Trino has the upper hand over Presto

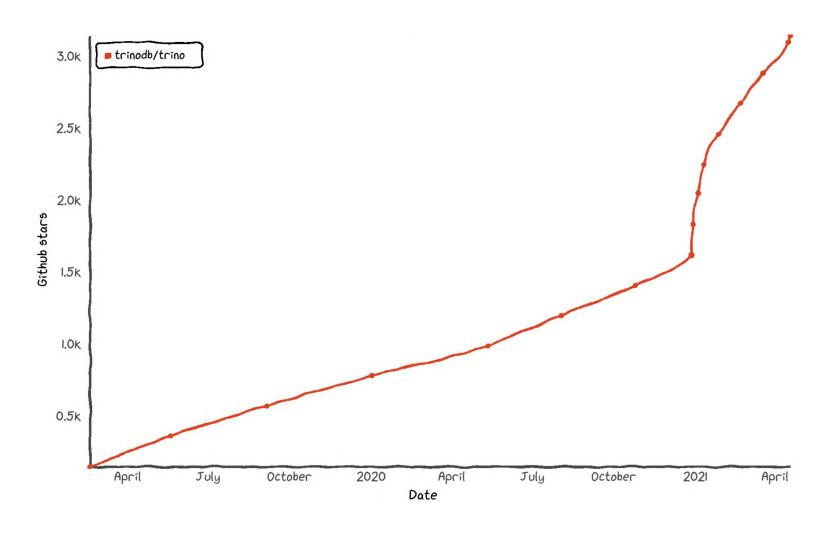


- Majority of the original founding contributors
- 461 current contributors
- 4036 Slack members (500+ weekly)
- 55 releases since split (one every two weeks)
- 8043 commits since split

Trino is getting more commits



Trino community growth after rename



The word is out about Trino







PERCONA LIVEONLINE MAY 12 - 13th 2021

Thank you!

Any questions?

You can find me at @robfromboulder or rob@resurface.io

