

Thanos ContribFest

Contribute to Thanos!

Prometheus



Prometheus

- Standalone monitoring server
- Deployed close to applications
- No external dependencies
- Stores data locally
- Flexible query language (PromQL)
- Yells at you when something is wrong

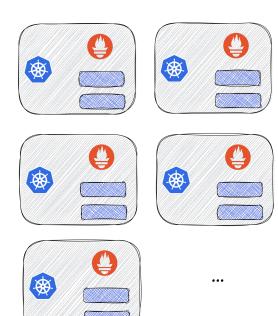




Limitations

- Lack of global overview of the data
- Hard to retain data for long periods of time
- Inadequate resolution for long range queries
- ...and more







Thanos: "Distributed Prometheus ++"

Thanos: Horizontally Scalable Metric Monitoring System

- Highly available and scalable components
- Global view
- Long term retention
- Downsampling
- Multi-Tenancy







Prometheus

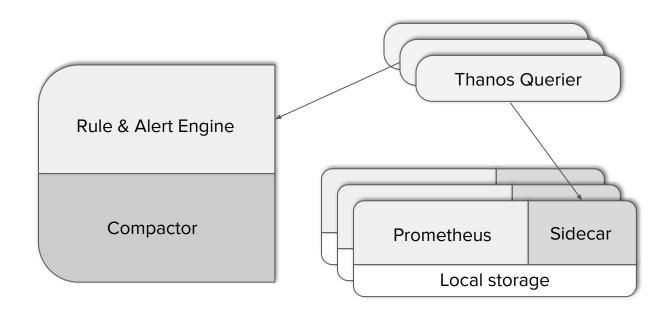


Prometheus decomposed

Rule Engine	Query Engine
TSDB	Compactor

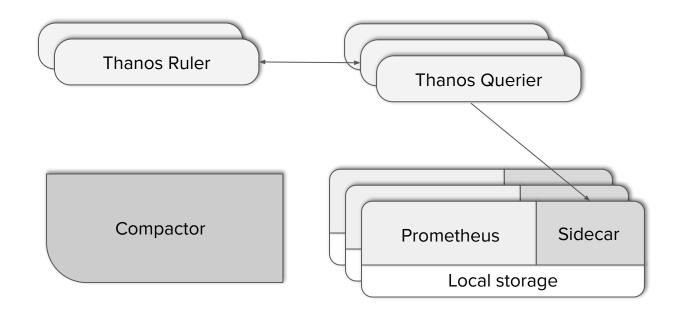


Thanos Sidecar



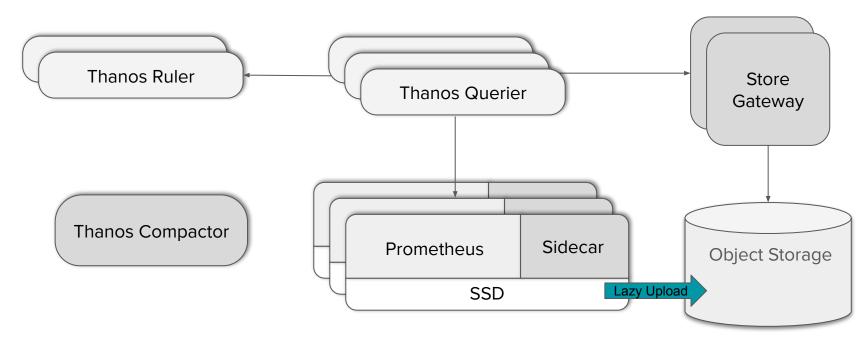


Thanos Ruler



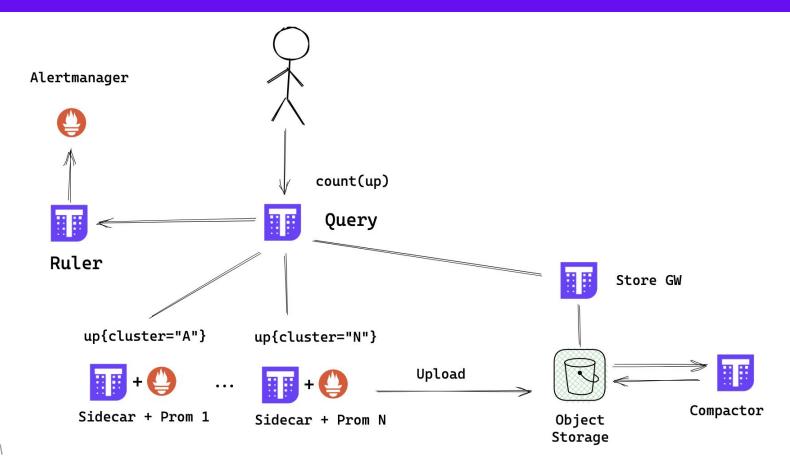


Thanos Store





Query with Unlimited Retention







Prerequisites

- Computer
- git, make
- Go (preferably 1.20.X) => install
- Docker => install
- NodeJS + npm (if working on frontend)
- Prometheus => install

More detailed:

https://thanos.io/tip/contributing/contributing/ng.md/





First steps

- Getting started
 - Clone (and fork) <u>aithub.com/thanos-io/thanos</u>
- make is your friend
 - o make help
 - make build
 - make test-local
 - make test-e2e-local
 - make quickstart
- Spinning up multiple Thanos components
 - scripts/quickstart.sh script
 - GitHub Codespaces / GitPod
- Interactive tutorial
 - https://killercoda.com/thanos/





Opening a PR

- Formatted? Linted? Tested?
- Signed your commits?
 - o git commit -s
- Update CHANGELOG.md
- Good description, link GitHub issue(s)
- What we look for?
 - Correctness
 - Readability / coding style
 - Guide
 - Efficiency (benchmarks?)
 - Backwards compatibility





Opening a PR

Demonstration





Issues!

- Frontend
 - https://github.com/thanos-io/thanos/issues/6
 270
- Backend
 - https://github.com/thanos-io/thanos/issues/6284
- Bring your own issue!





Outro

- Want to learn more about Thanos and community?
 - Session tomorrow at 11:00!
 - https://sched.co/1HzdL

