

Thanos Cheatsheet

Connection

thanos query --endpoint=<thanos-server-ip>:10902
Connect to a Thanos query instance

thanos query --endpoint=<thanos-server-ip>:10902 --store=<store-api-server>:10901
Connect to Thanos query with store API endpoint

thanos query-frontend --query-endpoint=<query-ip>:10902
Connect to query frontend

Querying Data

thanos query --http-address=0.0.0.0:19192 --store=<store-api>:10901
Start a query instance that pulls data from store API

curl -X POST http://<thanos-ip>:10902/api/v1/query?query=<promql_query>
Execute a PromQL query

curl -X POST http://<thanos-ip>:10902/api/v1/query_range?query=<promql_query>&start=<time>&end=<time>&step=<duration>
Execute a range query

Storage Management

thanos compact --data-dir=<path> --retention.resolution-raw=<duration>
Compact and downsample metrics

thanos store --data-dir=<path> --objstore.config-file=<bucket_config>
Start a store gateway to access object storage

thanos bucket verify --objstore.config-file=<bucket_config>
Verify bucket consistency

thanos bucket web --objstore.config-file=<bucket_config>
Start a web UI for the bucket

Sidecar Operations

thanos sidecar --prometheus.url=http://<prom-url> --tsdb.path=<tsdb-path>
Start a sidecar for Prometheus

thanos sidecar --prometheus.url=http://<prom-url> --tsdb.path=<tsdb-path> --objstore.config-file=<bucket_config>
Start a sidecar with object storage upload

thanos receive --tsdb.path=<receive-path> --remote-write.address=0.0.0.0:19291
Start a receiver for remote write

Configuration

thanos tools bucket web --objstore.config-file=bucket.yml
Check bucket web UI

thanos check rules --objstore.config-file=bucket.yml
Check rules syntax

thanos tools rules-check --rules=rules.yaml
Check rule files for correctness

Debugging

thanos tools bucket inspect --objstore.config-file=bucket.yml
Inspect object storage

thanos tools bucket ls --objstore.config-file=bucket.yml
List items in bucket

thanos tools bucket replicate --objstore.config-file=source.yml --objstore.config-to-file=dest.yml
Replicate data between buckets