Prometheus Agent vs. OpenTelemetry Collector

A look at scrape & forward use cases

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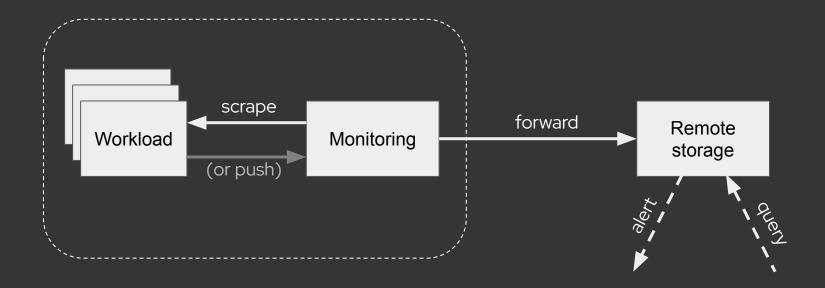
Scrape & Forward

Small footprint deployments, like workloads running on edge devices, require a different monitoring architecture:

- Strict resource limits (CPU, memory, network)
- No local persistent storage
- No local querying and alerting
- ► No inbound network connections (no pull possible)



Architecture



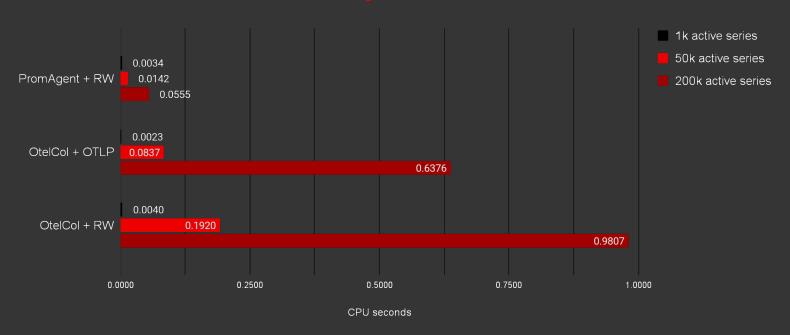
Setup

- github.com/prometheus-community/avalanche as metrics producer
- Prometheus as remote storage
- ► Three scenarios
 - 1. Prometheus Agent + remote write
- 2. OTel collector + OTLP
- 3. OTel collector + remote write

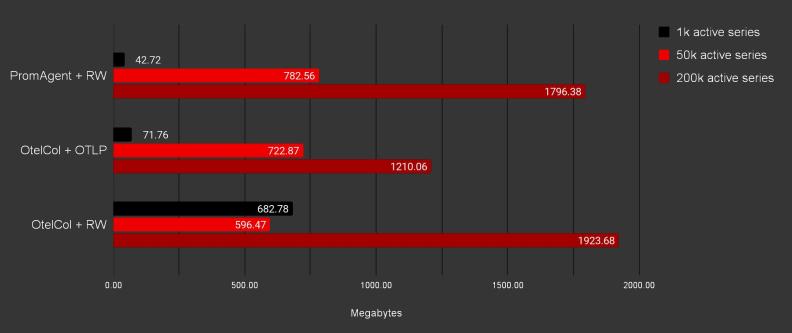


github.com/danielm0hr/ edge-metrics-measurements

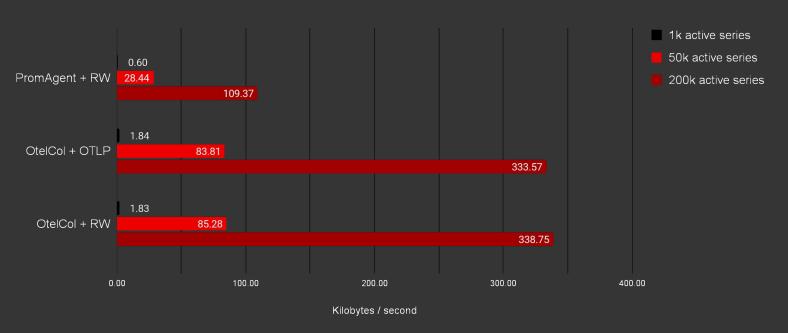
CPU



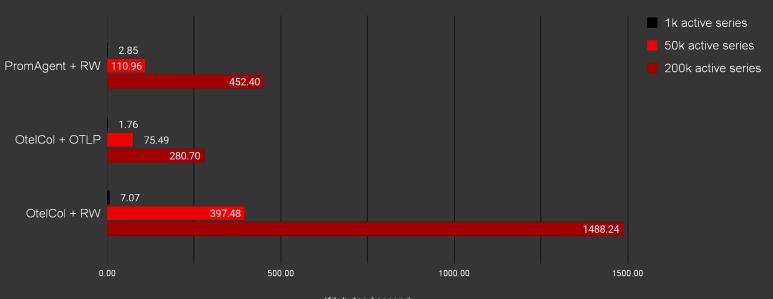
Memory



Net receive



Net transmit



Thank you!

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