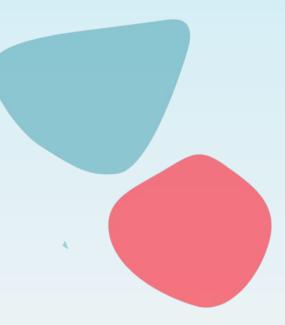
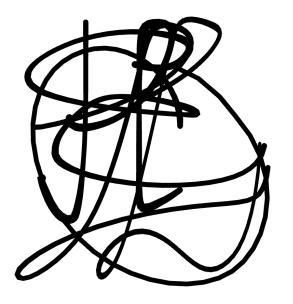
Observability with OTel and Grafana

Nadya Shakhat





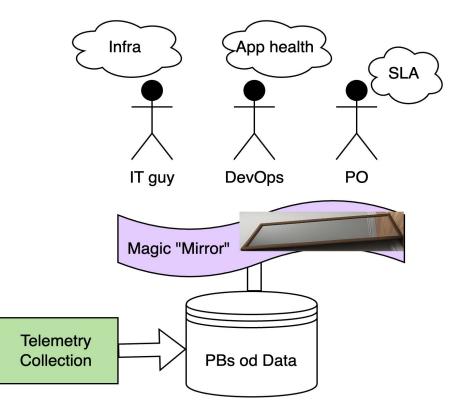






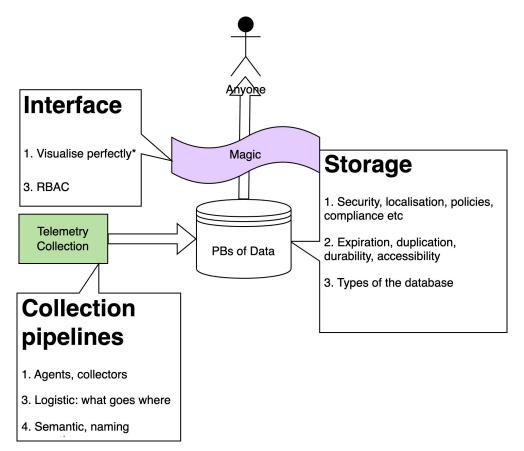


Very high level





Little bit lower





OpenTelemetry



Key components:

- SDK, API
- Agents/Collectors

Key conceptual components:

- Standardisation
- Semantic conventions
- OTLP protocol

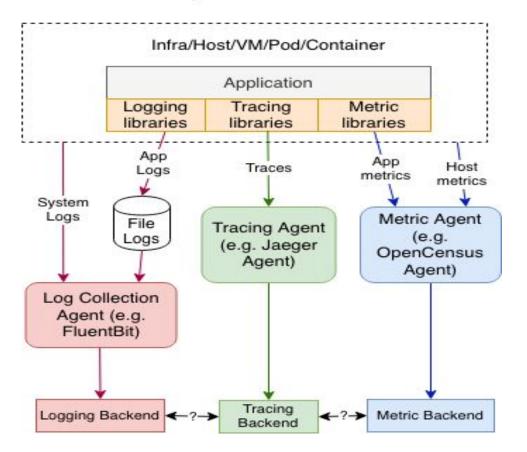
Contributors 814

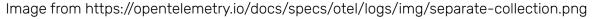


+ 800 contributors



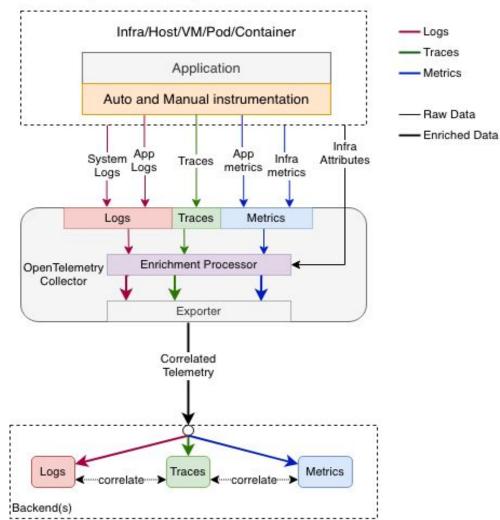
Separate Collection







OpenTelemetry Collection



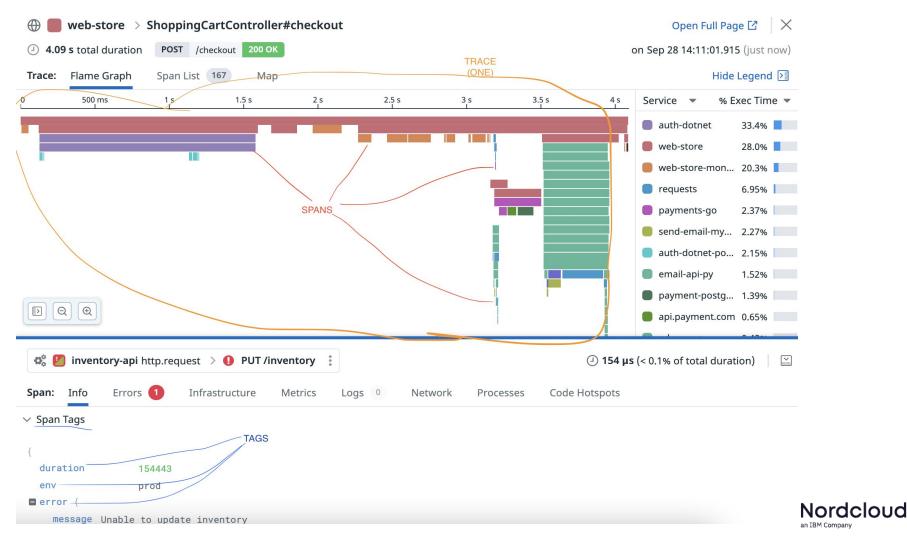
Nordcloud

an IBM Company

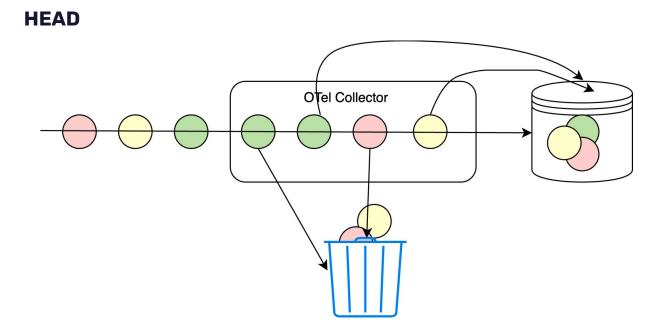
Challenges in OpenTelemetry Adoption

- Protocol Integration and Compatibility
- Scalability and Efficiency
- Complex Configuration Management:
- Minimizing Performance Impact
- Staying Up-to-date with Community Developments





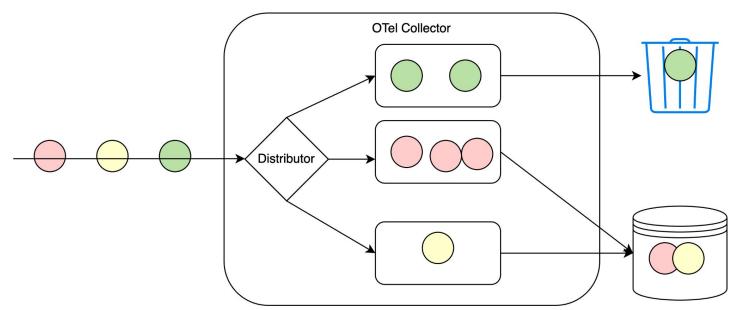
Sampling of traces





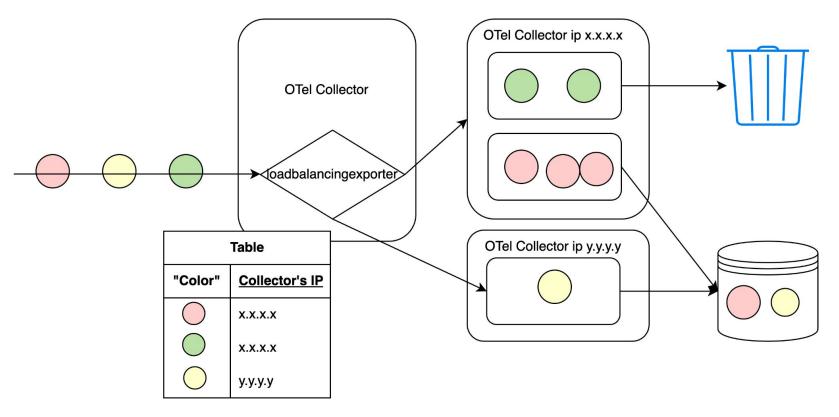
Sampling of traces

TAIL



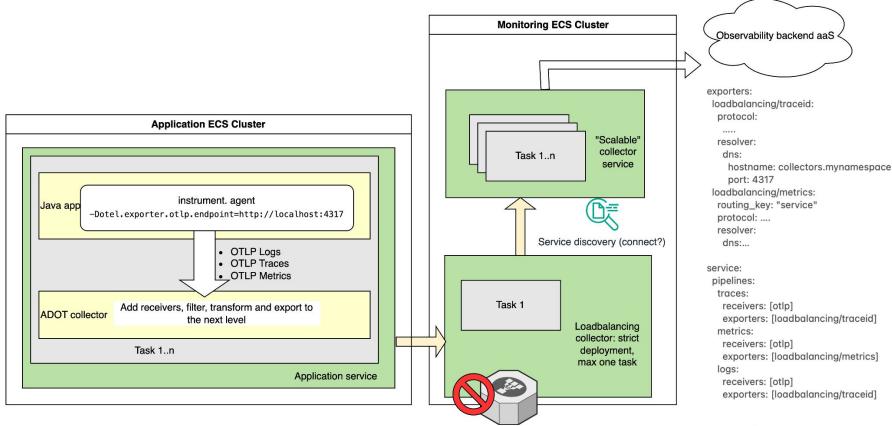


OTel solution: loadbalancingexporter



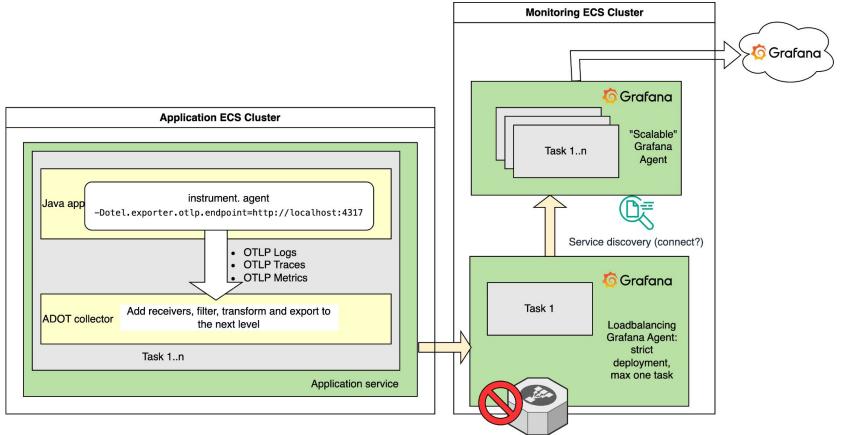


Example architecture





Example architecture





ETL vs ELT in Observability

Might **ELT** be achieved with:

Compression Batching

+ Other sampling and filtering techniques

?

