

Last9

# The Telemetry Data Platform



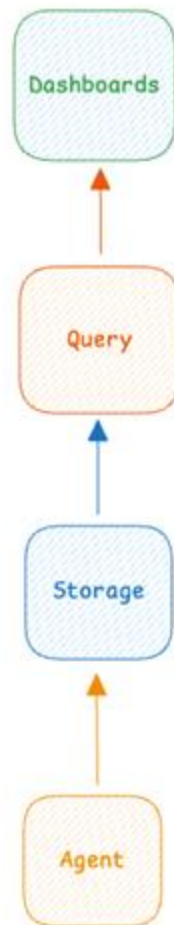
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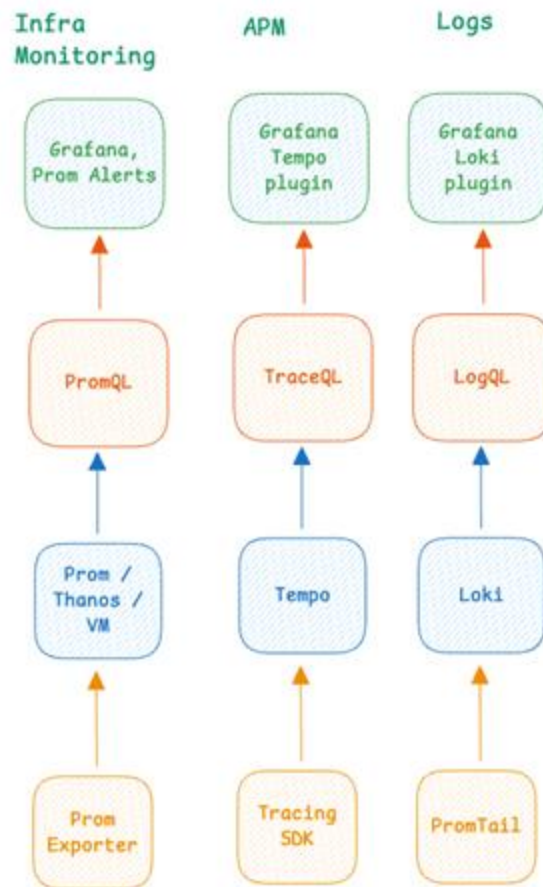
# About me

- CTO, Last9
- Mainframes, Embedded systems, Linux and FreeBSD kernel, Computer Vision, Cloud applications and infrastructure products, High scale data processing pipelines
- Tennis, Dungeons and Dragons, Physics

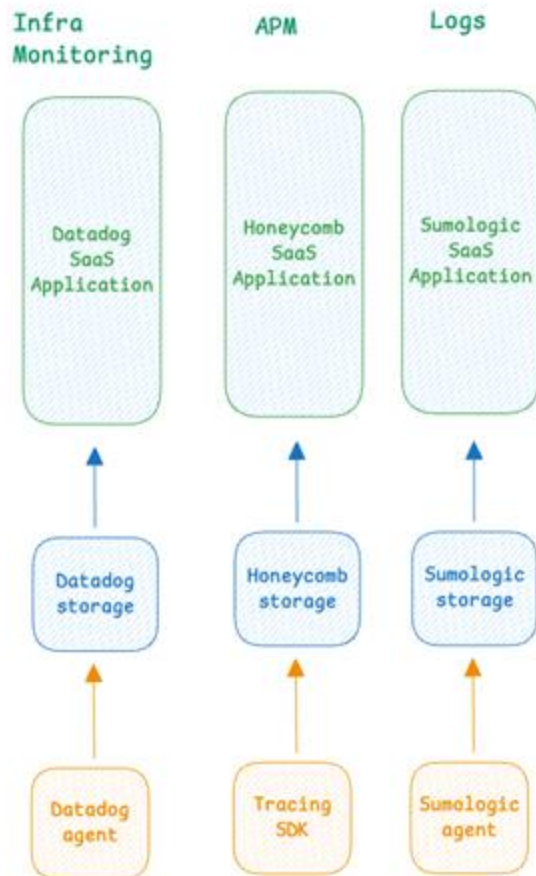
Typical  
Observability product  
Architecture



## The Open-Source Stack

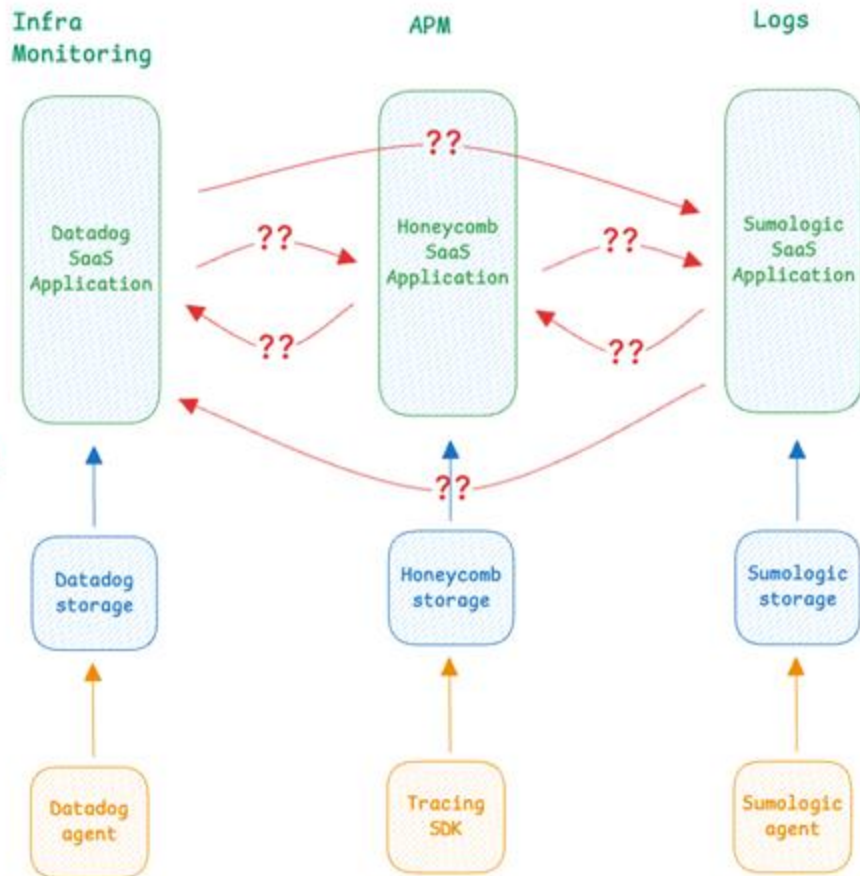


The Enterprise  
Stack

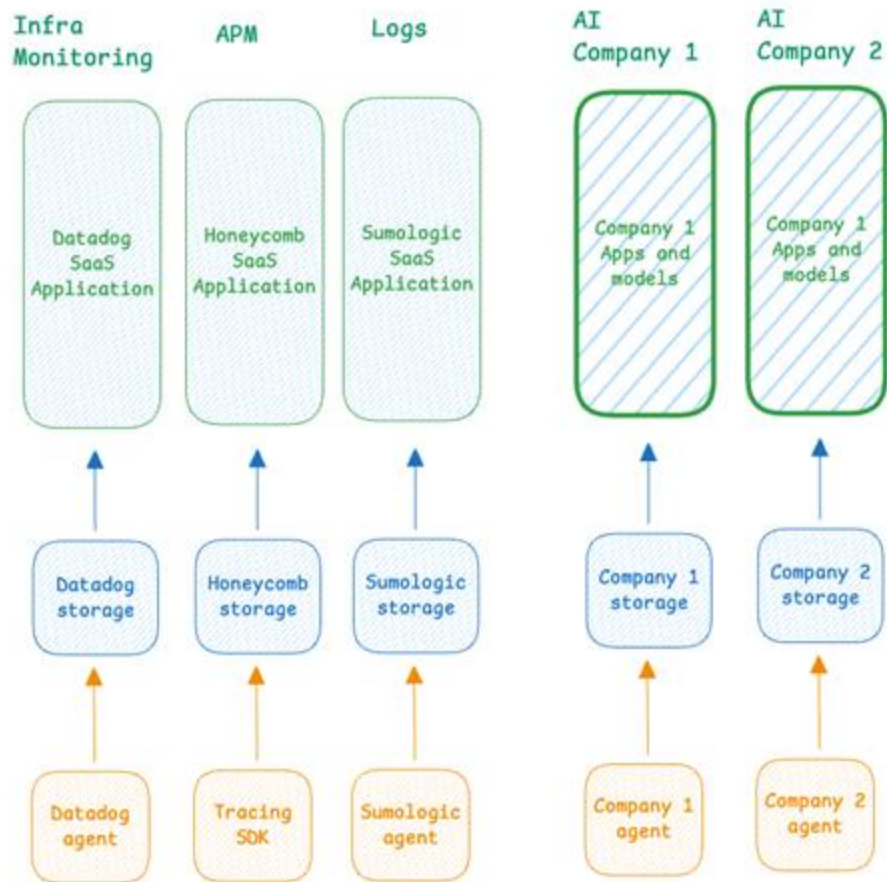


# MTTR

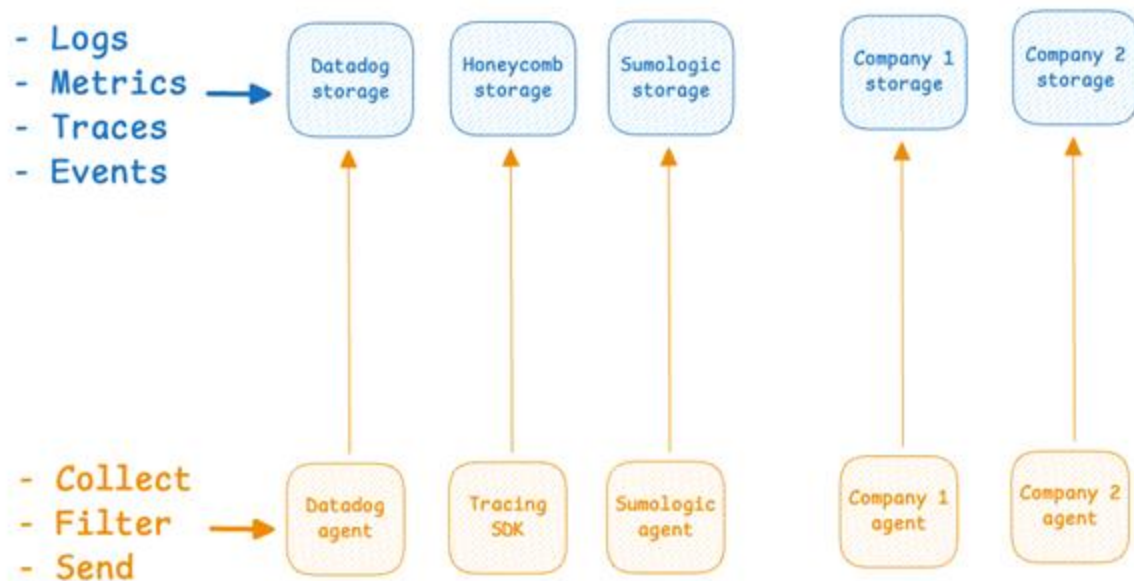
- Whats the load and CPU of the Pod for this log line?
- What are the traces corresponding to this bunch of 5xx?
- For these high latency spans, what were the node metrics?



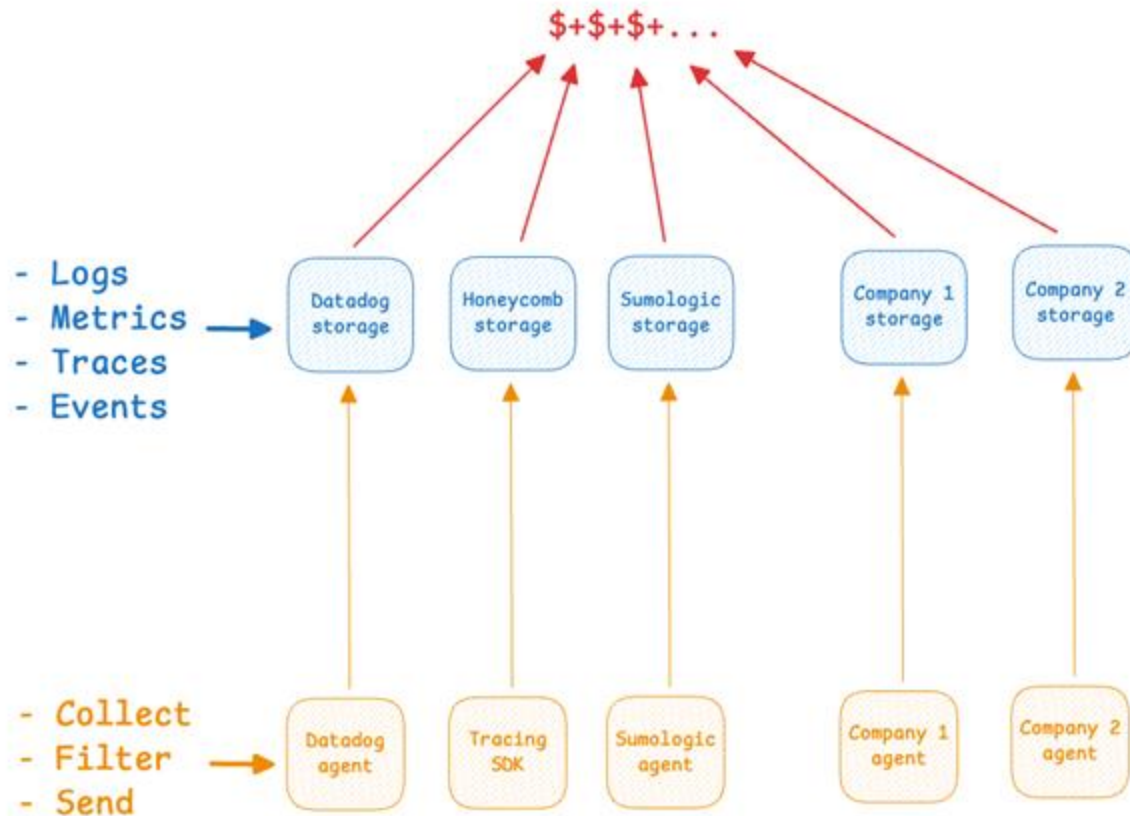
## Brave New World



## Repeating / Reinventing



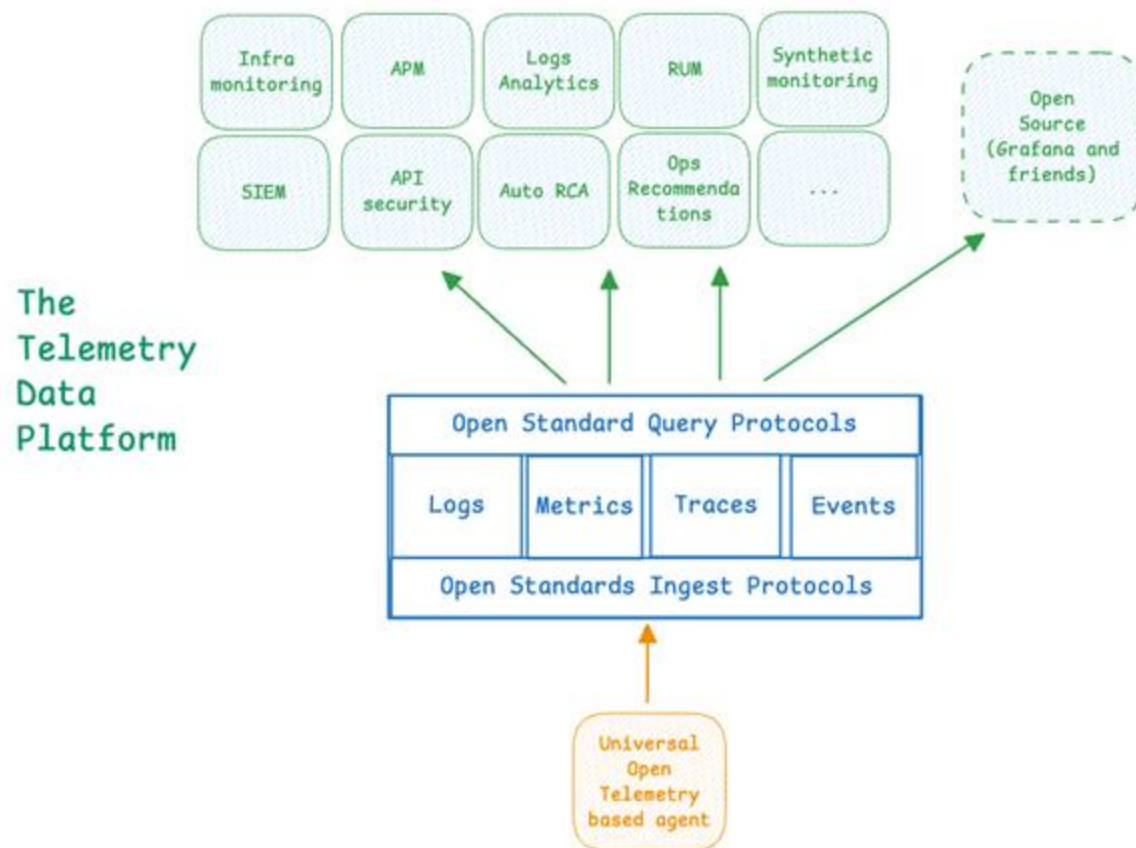




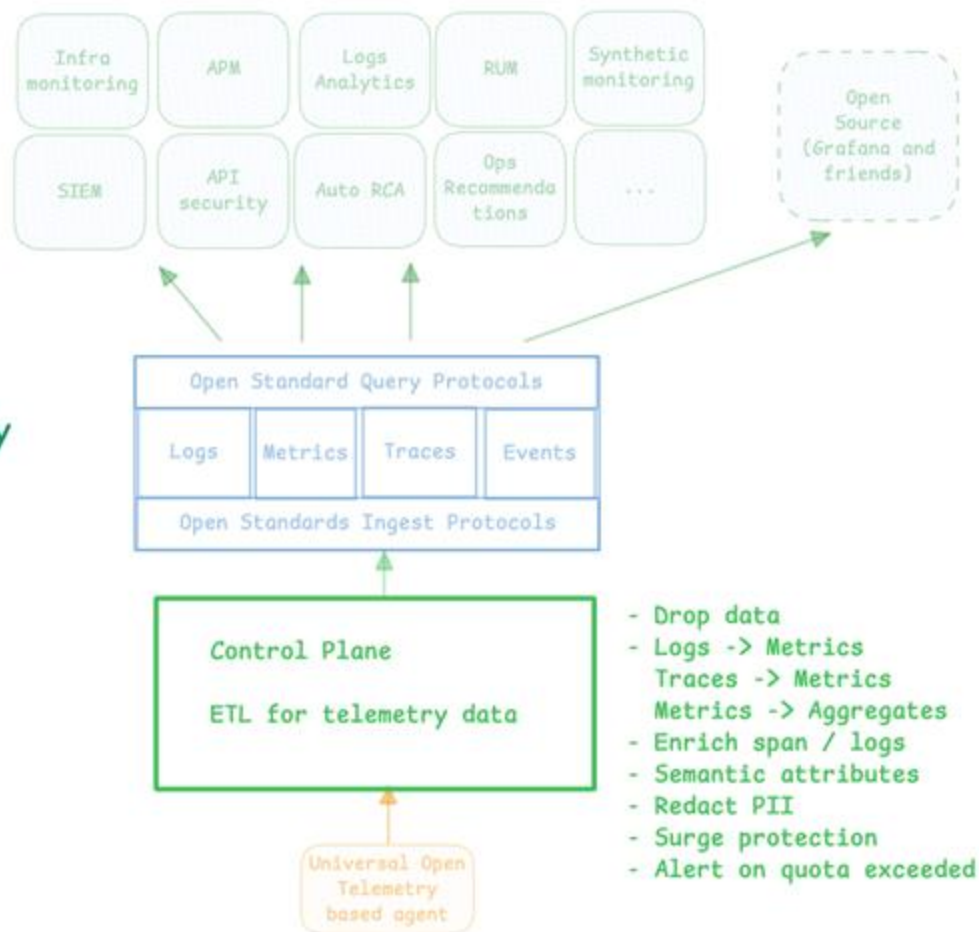
## The problems with today's landscape

- Everyone is re-inventing the datastore layer
- Everyone is installing their own agent
- Everyone is locking in your telemetry data
- Costs are adding up
- Correlation is limited to side-by-side dashboards on two monitors. Does not improve MTTR
- Amazing progress in AI for Ops, but everyone building their own "Databricks"

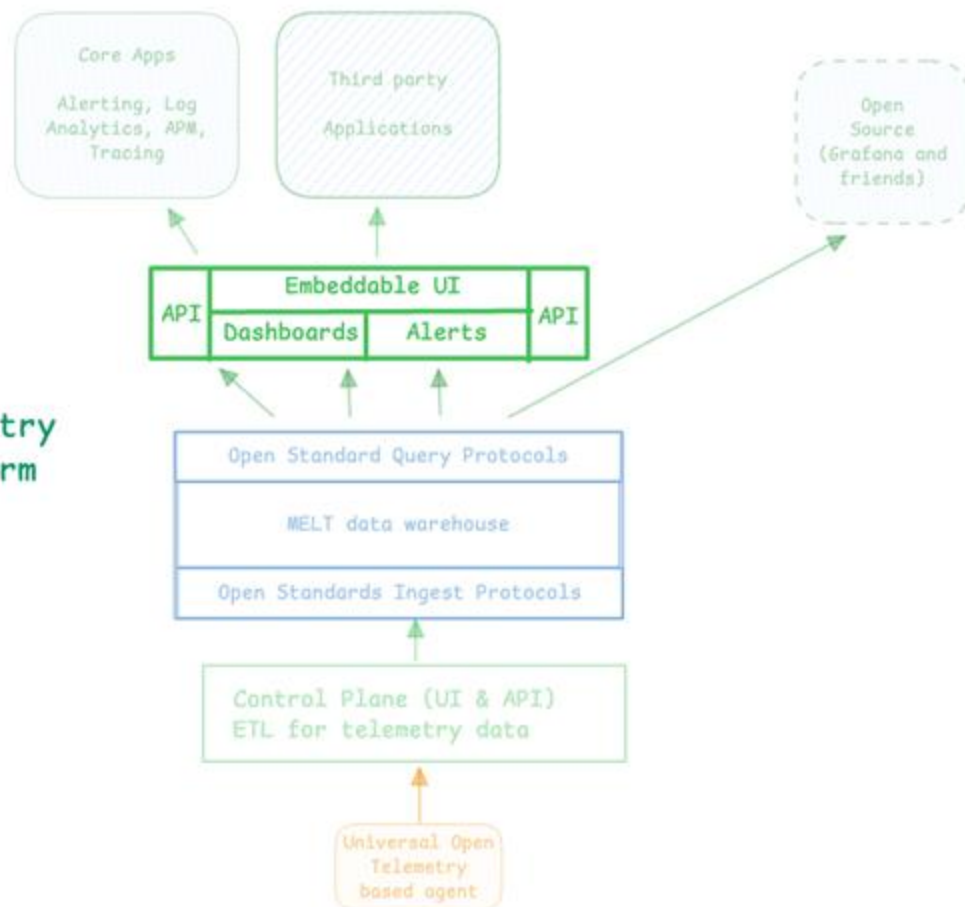
What is the solution?

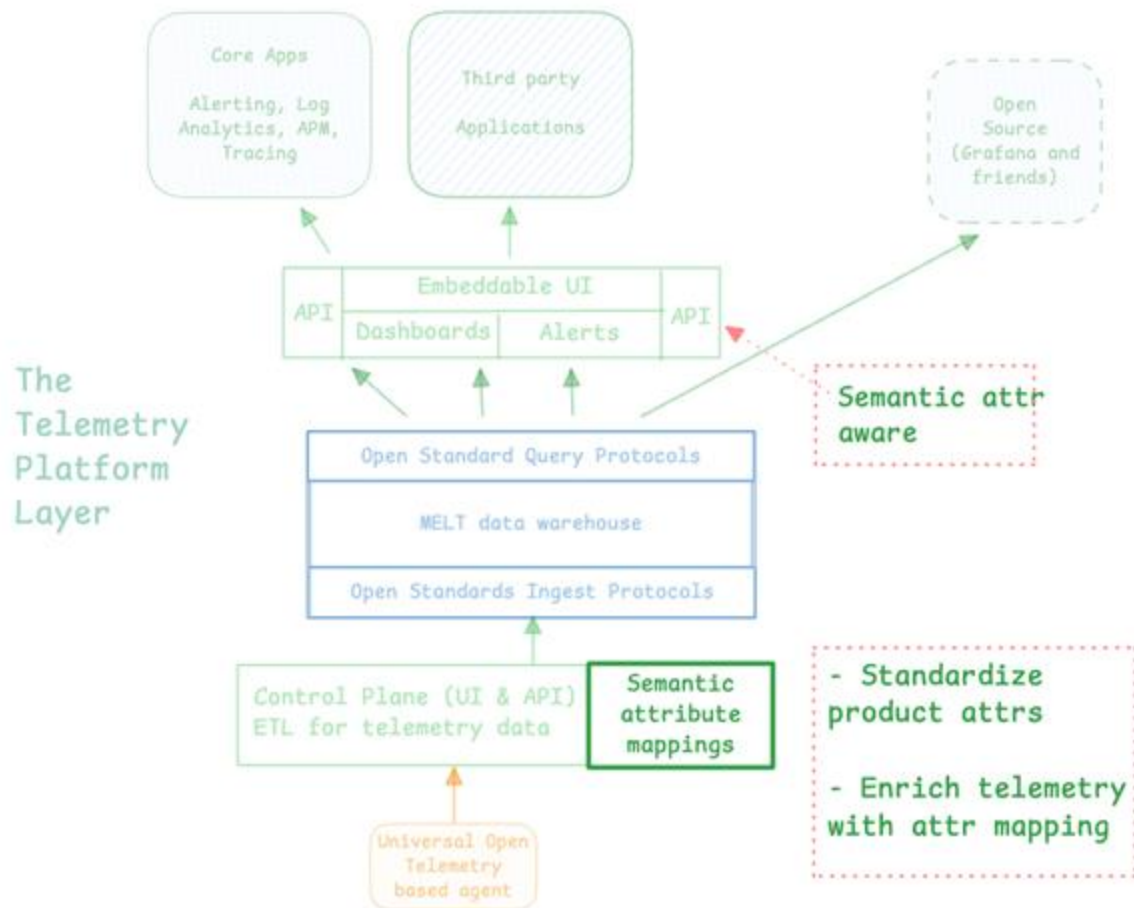


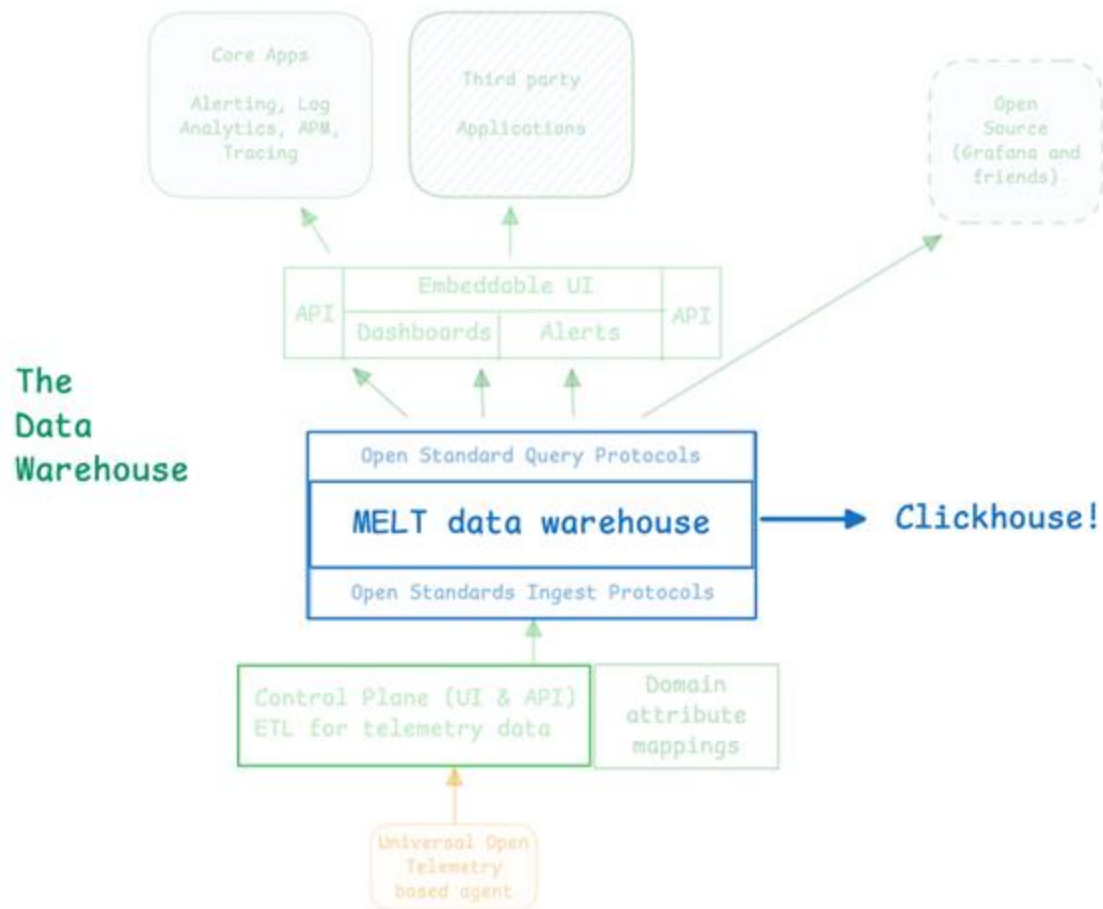
## The Telemetry Control Plane



## The Telemetry Platform Layer







## Why Clickhouse?

- One of the best performance / \$
- Fast in the absolute sense
- Last9 scale: 480 mil logs / min
- Engines and data modelling facilities for efficient implementation of Logs, Metrics, Traces and Events
- SQL makes writing translations easy
- Allows us to not re-invent the wheel!



## To summarise ...

- Proprietary data silos are killing observability
- Telemetry data needs its "databricks" moment
- Get your apps to the data, not the data to the apps



And that is it!

THANK YOU.

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Let's keep the conversation going.  
We would love to hear from you.

*We are hiring! ([careers@last9.io](mailto:careers@last9.io))*

