groundcover

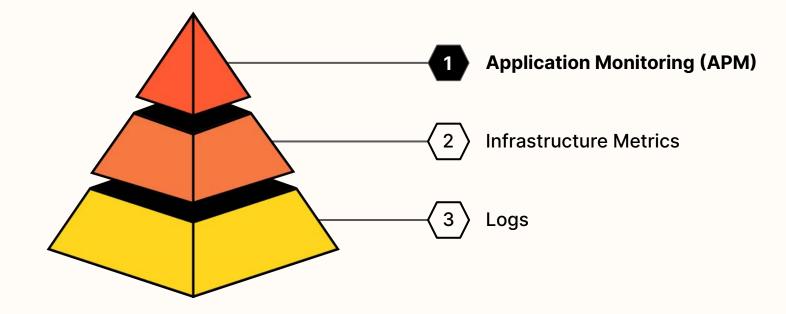
Cloud-Native Observability at Scale

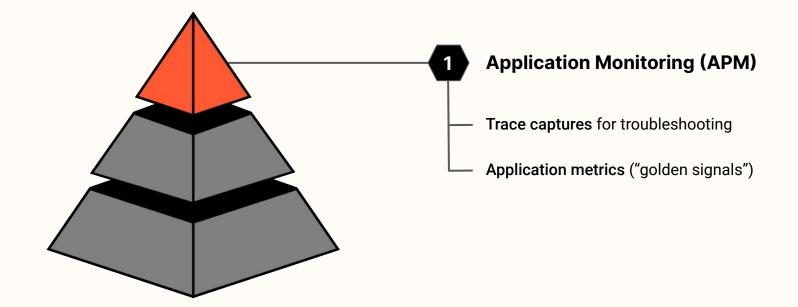
Conf42 Kube Native October 2022





Cyber R&D Group Leader @ MOD Head of Research @ DayTwo ML Manager @ Apple CEO @ groundcover

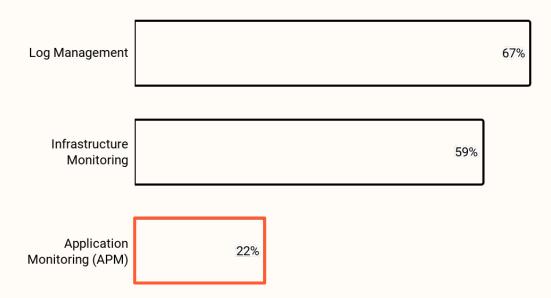




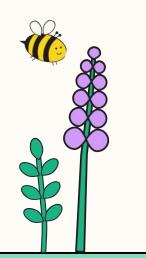
If you can only measure four metrics of your user-facing system, focus on the four golden signals.

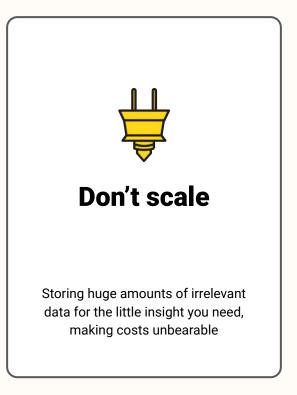
Google, SRE book

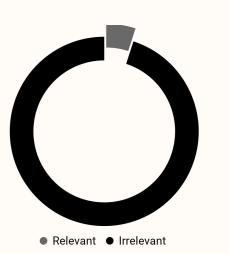
Reality says different.

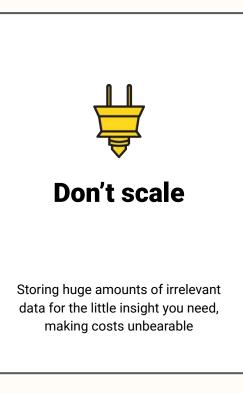


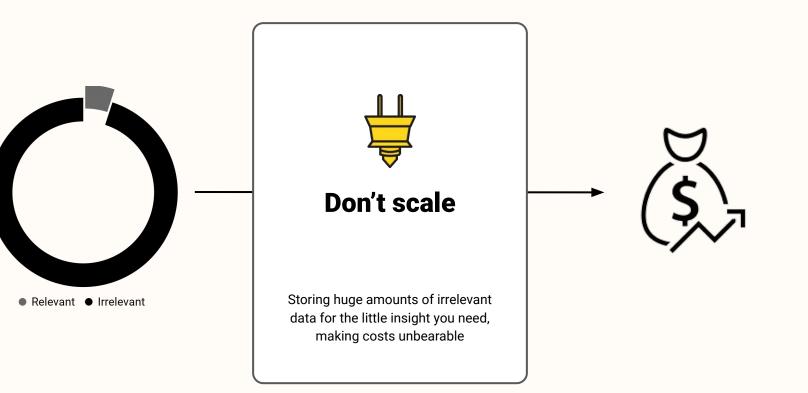
BUT WHY?



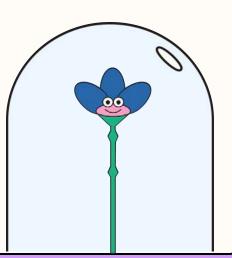


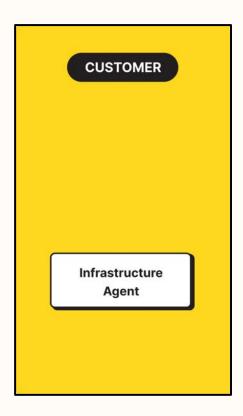


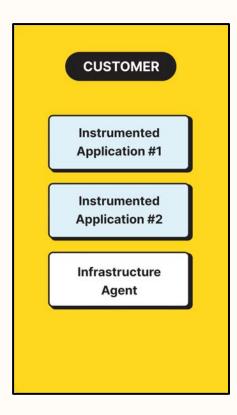


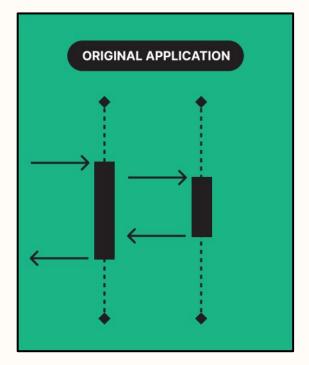


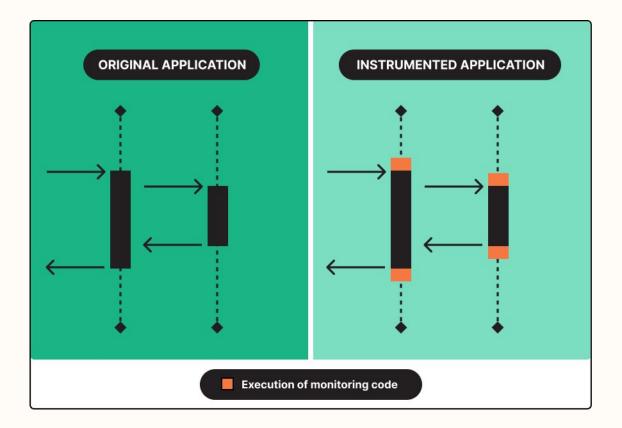
THE TALE OF THE CENTRALIZED ARCHITECTURE

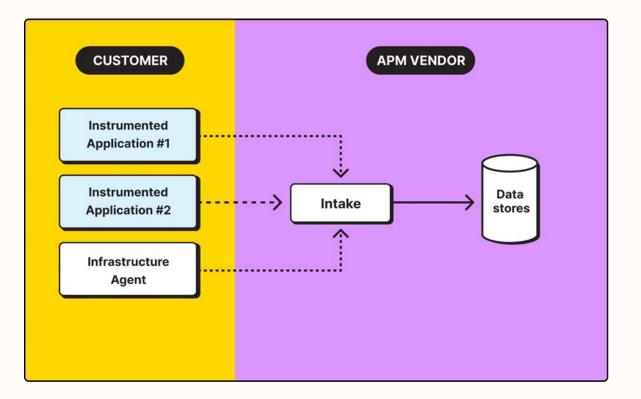


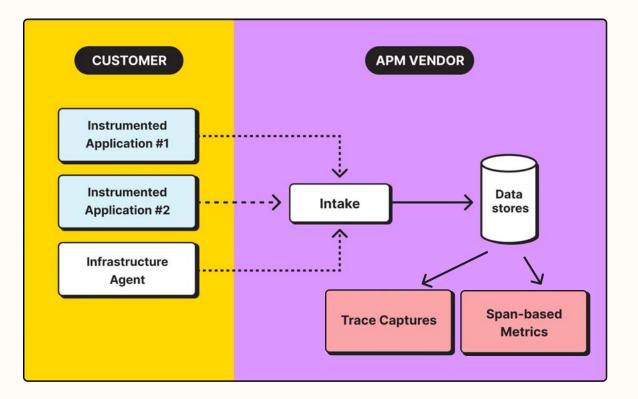






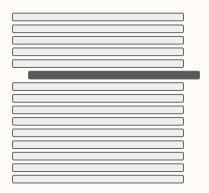


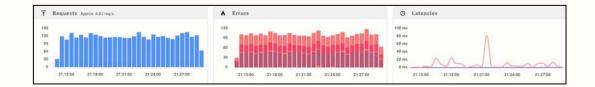




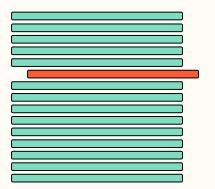


But you really want digested insights.

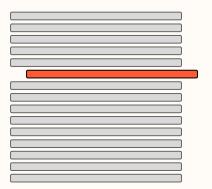




Data is collected with equal depth.



But **not** everything is equally important.



That's the visibility depth - cost tradeoff.



That's the visibility depth - cost tradeoff.

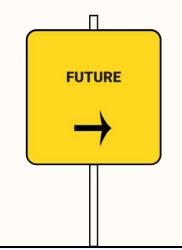


"Let's store only warning logs and up"

"Remove that metric, the cardinality is killing us"

"Let's reduce sampling rate to 1%, we pay too much for tracing"





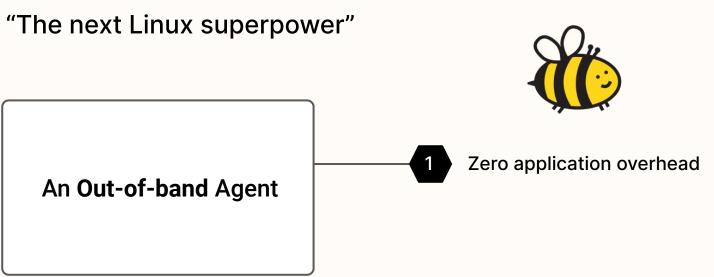
"The next Linux superpower"

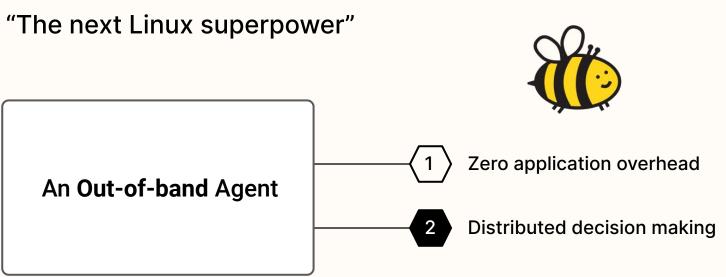


"The next Linux superpower"



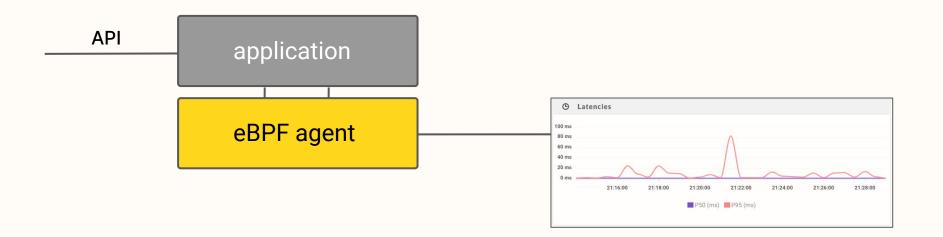
An Out-of-band Agent

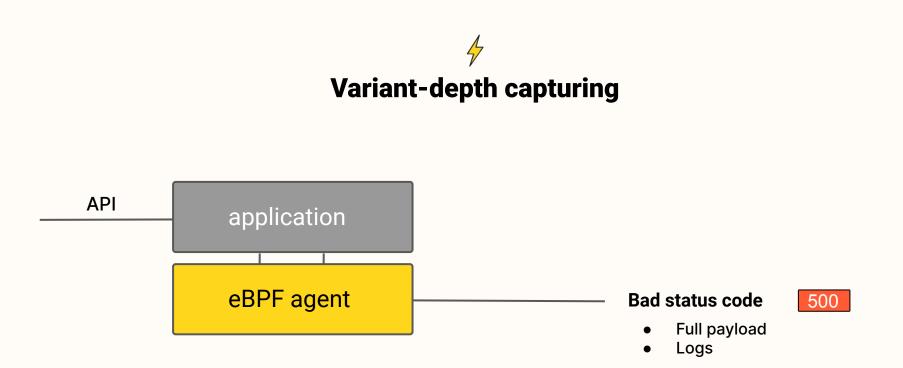


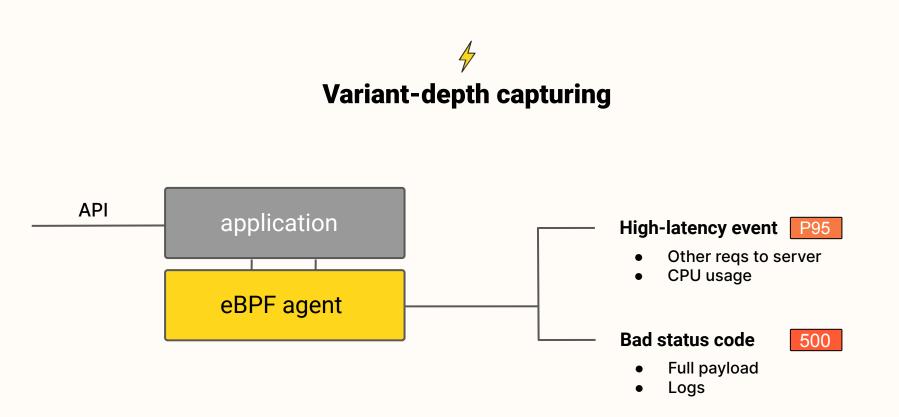


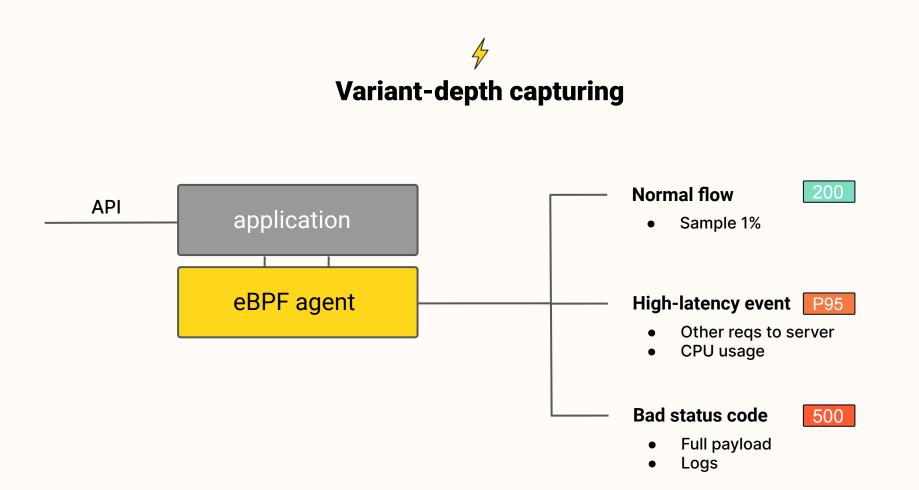


In-host span-based metrics









This is our current reality.

- eBPF instrumentation
 - Immediate time-to-value
 - Out-of-band deployment
- Edge-based observability
 - Built for scale
 - Breaks all tradeoffs







join our community Slack!

Shahar Azulay

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