debugagent.com

Developer Observability

Developer Observability

The Forth Pillar

Shai Almog

@debugagent

```
Speaker ShaiAlmog = Speaker.builder()
  .withProfessionalExperience(30, TimeUnit.YEARS)
  .withTopCompanies("Sun", "Oracle", "Codename One", "Lightrun")
  .withBlog("debugagent.com")
  .withYouTube("youtube.com/@debugagent")
  .withMastodon("@debugagent@mastodon.social")
  .withGitHub("github.com/shai-almog")
  .withLinkedIn("linkedin.com/in/shai-almog-81a42/")
  .withTwitter("twitter.com/debugagent").withDms(OPEN)
  .build();
```



Practical Debugging at Scale

Cloud Native Debugging in Kubernetes and Production

Shai Almog

#1 New Release

amazon.com/dp/1484290410/

- debugagent.com
- github.com/shai-almog
- @debugagent@mastodon.social
- youtube.com/@debugagent



Apress

3 Pillars

Logs

Traces

Metrics

They are Fantastic

They are Static

Add a: Log/Metric/Span

Development

Version Control

CI/CD/QA

Production

End User

Add a Log (metric etc). Pull Request

Development

Version Control

CI/CD/QA

Production

End User

Add a Log (metric etc). Pull Request

Version Control

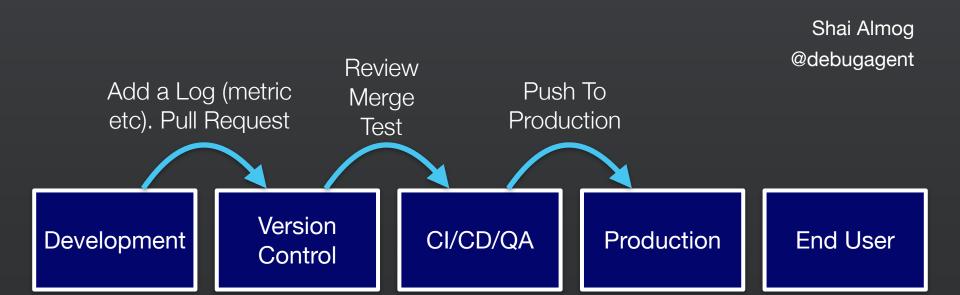
CI/CD/QA

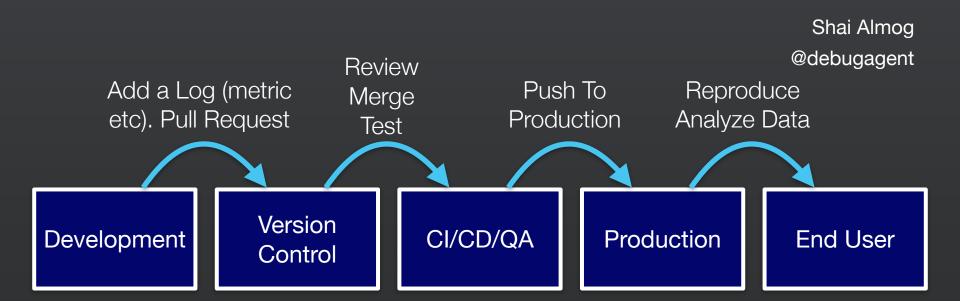
Production

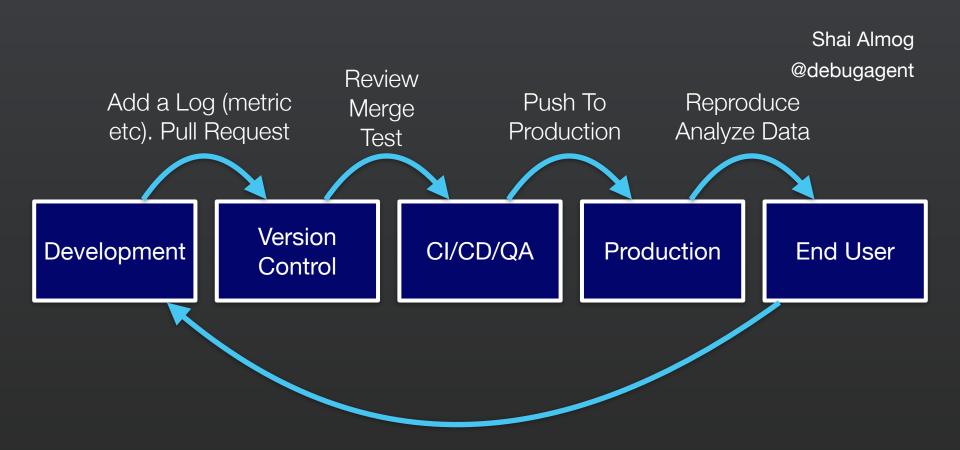
Shai Almog @debugagent

Production

End User







CI/CD Cycle of Death...

There are Other Problems

Over Observing...

Logging = 1/3rd Cloud Costs



engineerL · 24 days ago

A team at my company accidentally blew ~100k on Azure Log Analytics during the span of a few days. They set the logging verbosity to a hitherto untested level and threw in some extra replicas as well. When they announced their mistake on Slack, I learned that yes, there is such a thing as too much logging.



https://www.reddit.com/r/devops/comments/udgohy/comment/i6i3oyo

It Doesn't Help

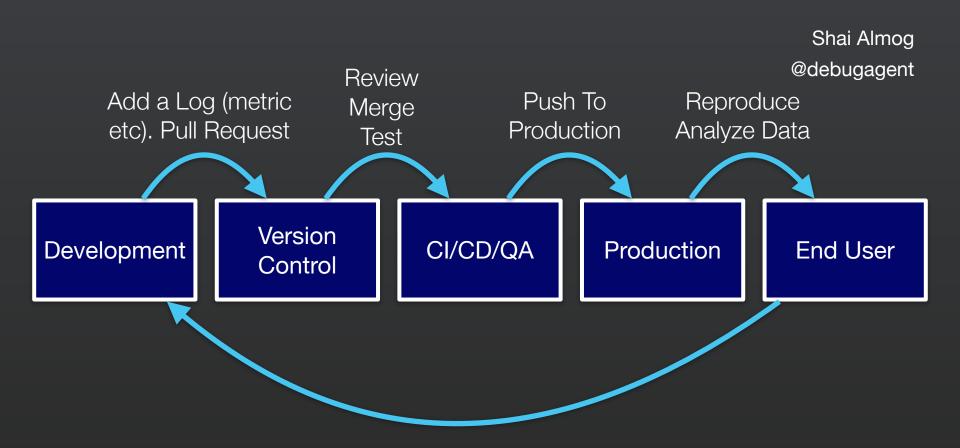
Focused on DevOps

Microservices & Serverless

Solution: Developer Observability

Works in IDE

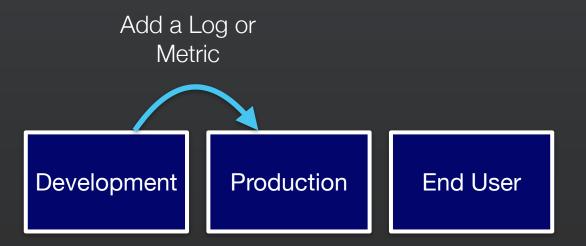
Inject: Logs, Metrics, Snapshots

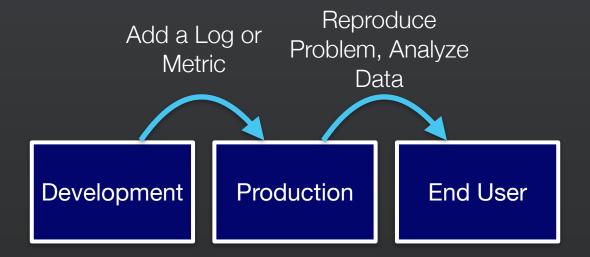


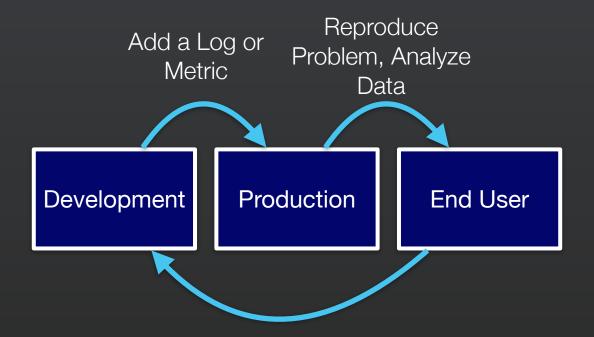
Development

Production

End User

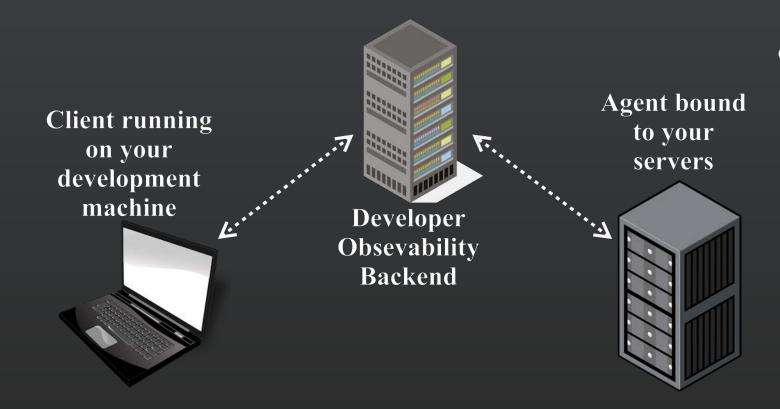






Injecting???

Security...



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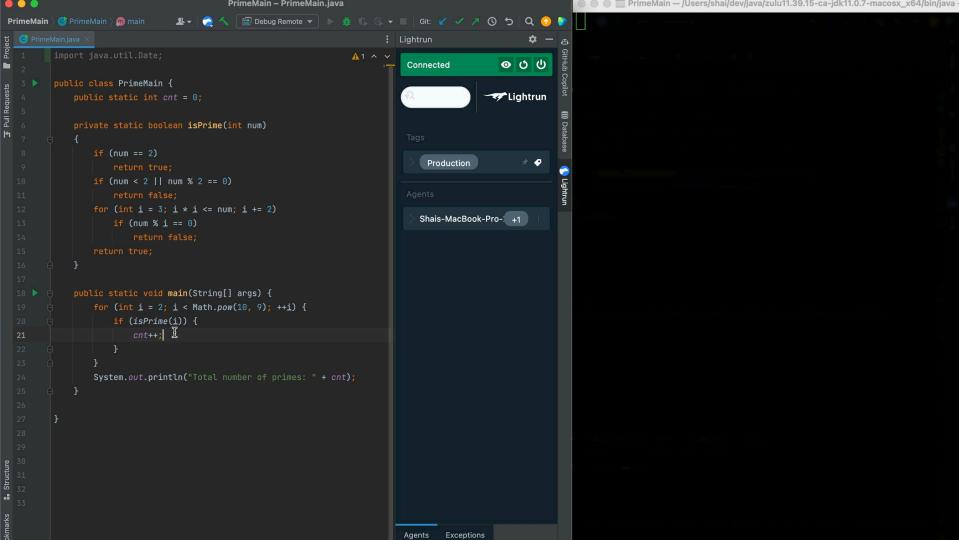
Sandbox

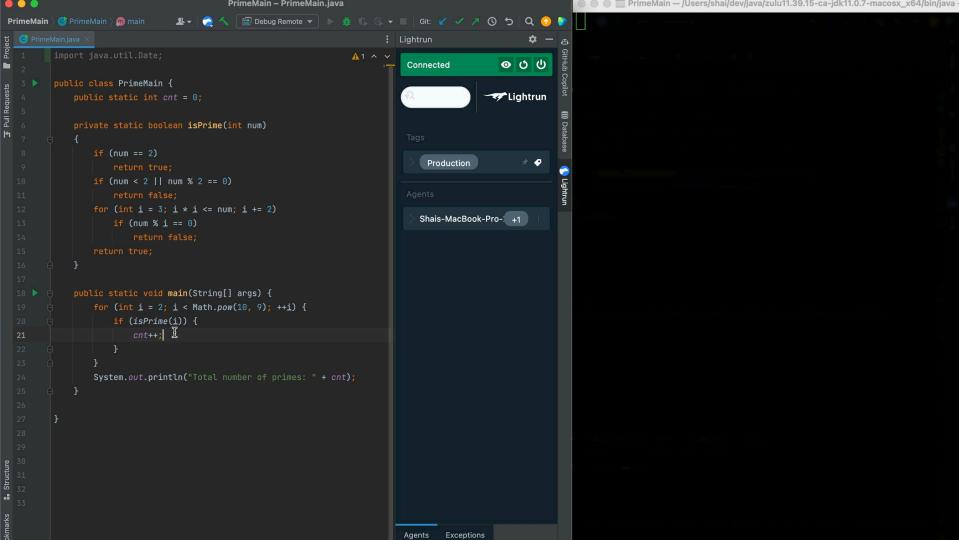
Admin Logs

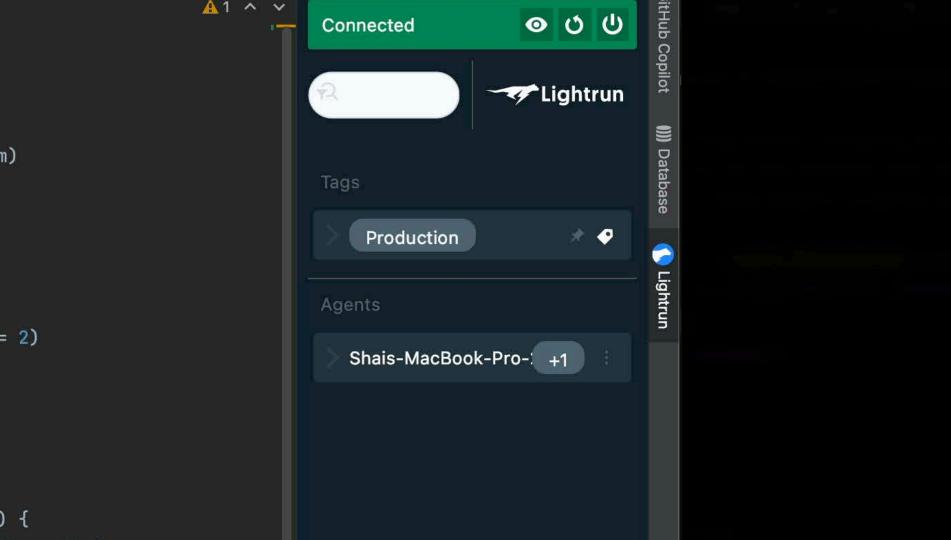
PII Reduction

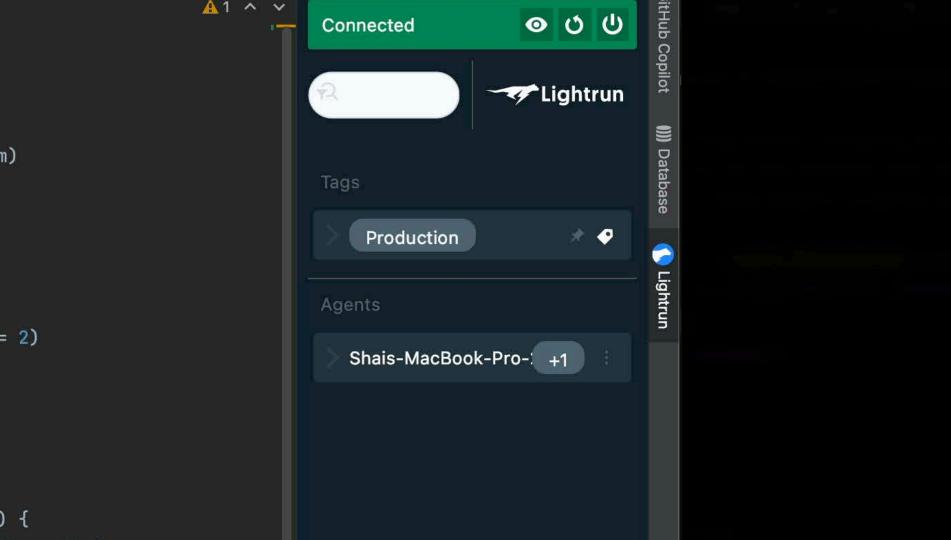
Block Lists

Demo









INFO: LOGPOINT: The value of i is 298611 cnt is 16181220 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: The value of i is 298611 cnt is 16181221 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: The value of i is 298611 cnt is 16181222 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: The value of i is 298611 cnt is 16181223 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: breakpointId: [be8431bd-0-83fd-0b0745a6dc68]: Logpoint is paused v plugin version high call rate until log quota is restor

ons

INFO: LOGPOINT: The value of i is 298611 cnt is 16181220 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: The value of i is 298611 cnt is 16181221 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: The value of i is 298611 cnt is 16181222 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: The value of i is 298611 cnt is 16181223 May 15, 2022 1:36:18 PM PrimeMain main INFO: LOGPOINT: breakpointId: [be8431bd-0-83fd-0b0745a6dc68]: Logpoint is paused ons v plugin version high call rate until log quota is restor

Ephemeral

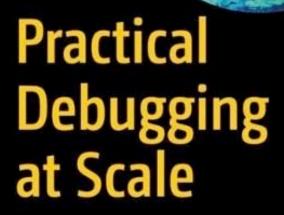
Insight

Summary

Thank You

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