Accelerating Development at Airbnb



Agenda

Development at Airbnb

High value recent investments

What's next?



Anna Sulkina

Head of Developer Platform & Core Services

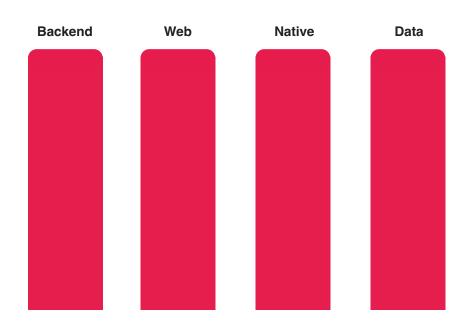
Airbnb

Development at Airbnb

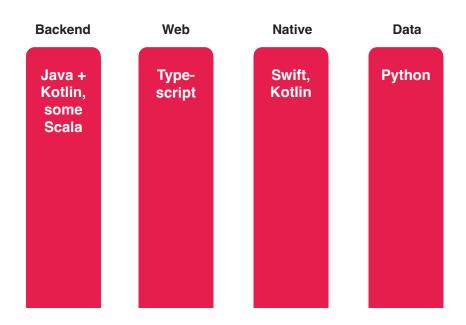
at Airbnb?

What does development look like

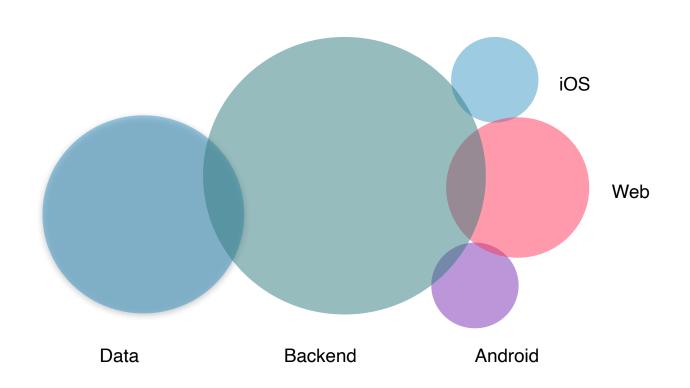
Multi-monorepo



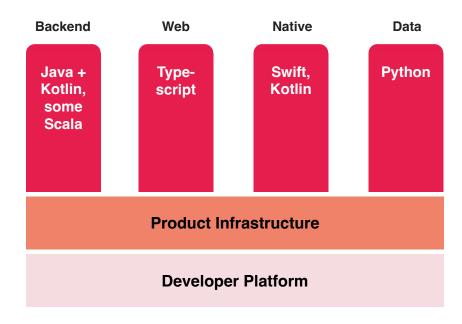
Multi-monorepo



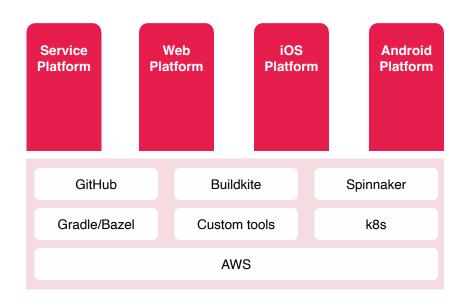
Share of Developers



Development Infrastructure



Developer Platform



7k

PRs per week

50k

CI builds per week

Work From Anywhere





Service owners carry the pager

High Value Recent Investments

Challenges

Lack of clear paved path

Slow builds & IDE

Hard to test code changes

Successful Investments

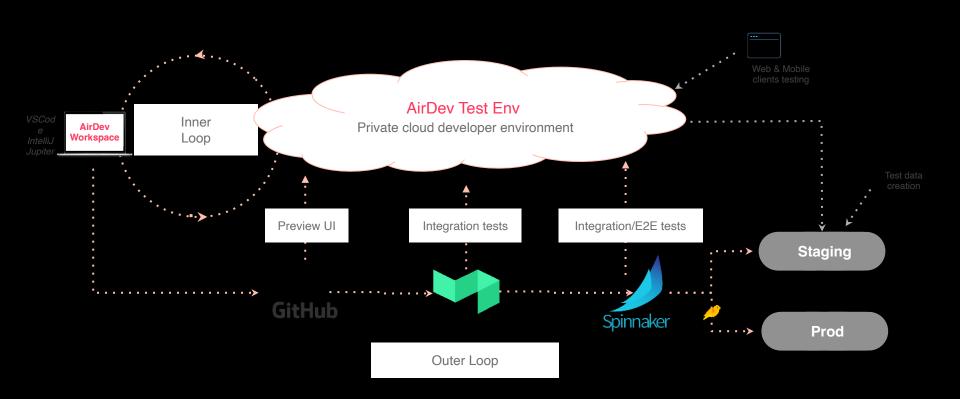
Cloud development environment

More opinionated paved path

Understanding developers better

Cloud Development Environment



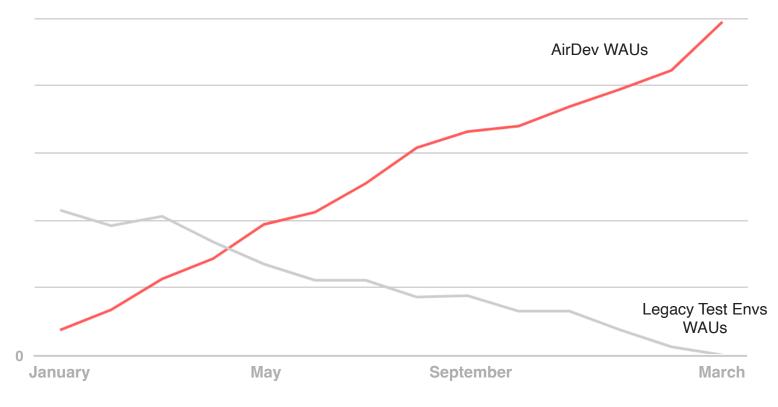


2-4x

Faster Deploys

2.2x

Faster Builds



2022-2023

Opinionated Paved Path

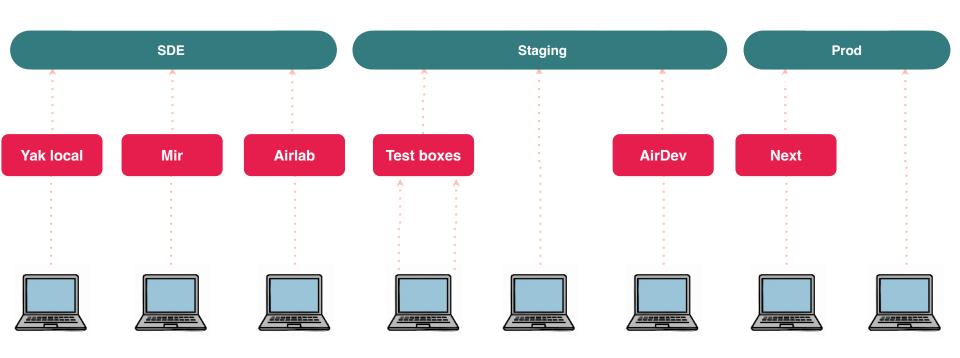
Paved path

Opinionated

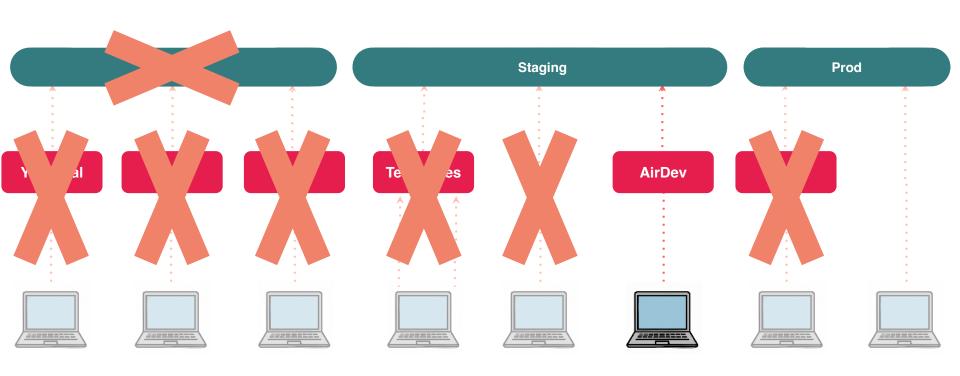
Platformized

Explicit standards

Developer Testing



Developer Testing



Understanding Our Developers Better



Collaboration

X-org partnerships Early prototypes Alpha users



DevX Metrics

Quantitative data DORA metrics SPACE Framework



DevX Survey

Bi-annual <5 min to complete Consistent structure Summarize with AI

What's Next?

Goals

Faster feedback loops

Lower failure rates

Happier developers

What's Next?

Migrating to Bazel

Faster inner loop

Safe testing against production

Al-powered development

Migrating to Bazel

Bazel

Parallelized and incremental

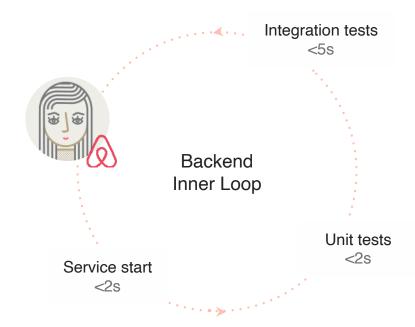
Automation and incentives

Forked IntelliJ Bazel plugin

Custom Bazel files generator

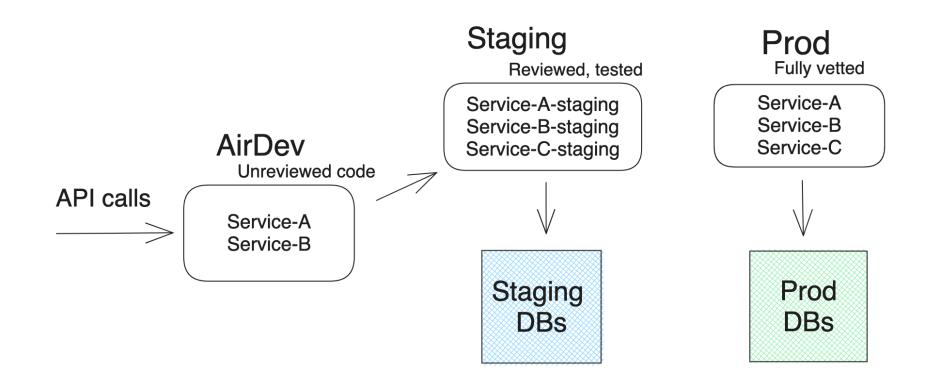
Faster inner loop

Future

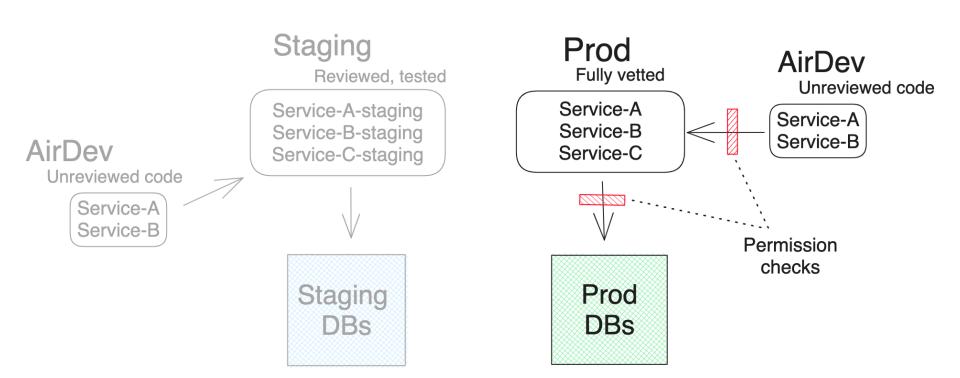


Safe testing against production

Current paved path



AirDev + Production North Star



Al-powered development

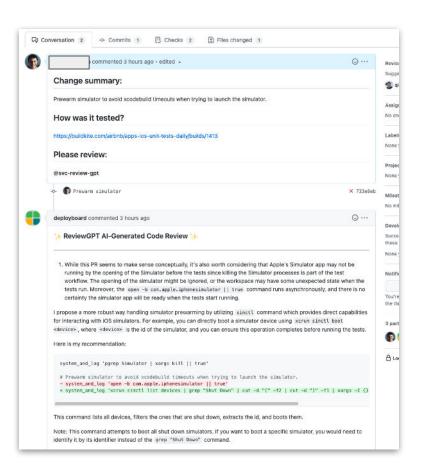
Al-powered

ChatGPT

Github Copilot

Build your own

Review GPT







Thank you!