BROOK SHELLEY

CANARY IN THE INTERNET MINE

WHO IS THIS TALK FOR?

FOLKS WHO:

▸ make applications or websites that you visit in a browser.

▸ launch a new versions - even a minor one.

▸ need to respond to a downtime page.

▸ ever make mistakes.

THIS IS FOR YOU

EVERYONE SHOULD BE ABLE TO RELEASE CODE.

If a dev deploys code on your infrastructure,
but no one can see it, does it matter?

IT'S COOL, THERE'S A CHANGELOG

brook (me)

*Please note no birds were harmed while writing this talk

CANARY? YES, PLEASE.

TERMS

▸ Blue/Green:

  ▸ two production environments as identical as possible. usually, only one is live at a time.

▸ Canary:

  ▸ testing term originally referring to live canaries used to check for dangerous gasses in mines.

  ▸ in tech: server/service/deploy dies, there's problems.

CANARY

▸ A small portion of live traffic.

▸ Testing in production.

▸ If the release dies, abandon that route.

😰😰😰

CURRENT STATE

▸ Your app is a monolith or maybe microservicces

▸ QA & Testing are expensive.

▸ Things still break.

▸ Rolling back your code takes ⏱️ & costs 💰 .

99 SERVICES, 99 PROBLEMS?

▸ Each service or endpoint runs as a microservice.

▸ Incremental release of your application is possible.

▸ Combine with canary releases for success.

▸ Release or roll back service by service.

MONITOR

▸ Early.

▸ Often.

▸ Customer focused metrics.

INDIVIDUAL SERVICES

▸ Per-endpoint/per-service testing.

▸ Measure often - metrics.

▸ Take immediate action.

▸ Stop ruining weekends.

HOW DO WE GET THERE? IT SOUNDS HARD.

PROXIES & ROUTING.

Blue/Green Releases
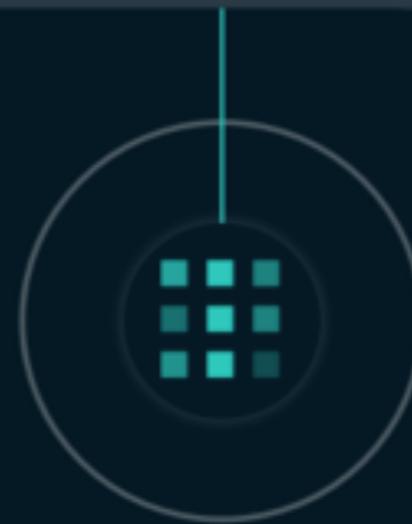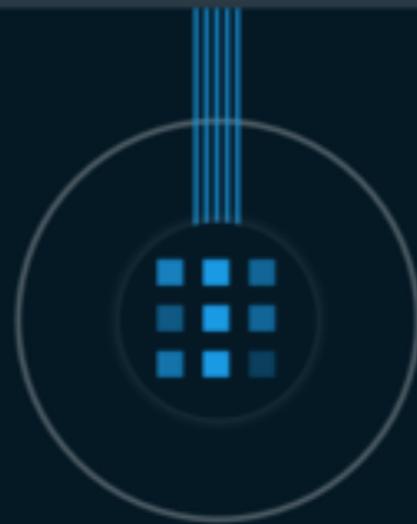
DEMO TIME.

WRAP-UP

▸ Per-endpoint/per-service releasing.

▸ Measure often with user-centric metrics.

▸ Routing makes roll-back easy and quick.

▸ Stop ruining weekends.

▸ Developers triage at their leisure.

THANKS!

@brookshelley
brook@turbinelabs.io

TURBINE LABS