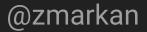
Practical Tips & Tricks For CI/CD Success

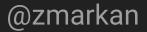
Things you should and shouldn't ever do in your CI/CD setup





Practical Tips & Tricks For CI/CD Success

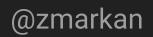
Things you should and shouldn't ever do in your CI/CD setup







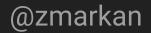




click



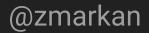






silence

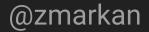




Do you...

a) Sweat and wait to see if it blows up 😱



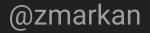


Do you...

a) Sweat and wait to see if it blows up 😱

b) Pack up, go home & enjoy the sunshine 😎





It all boils down to automation.



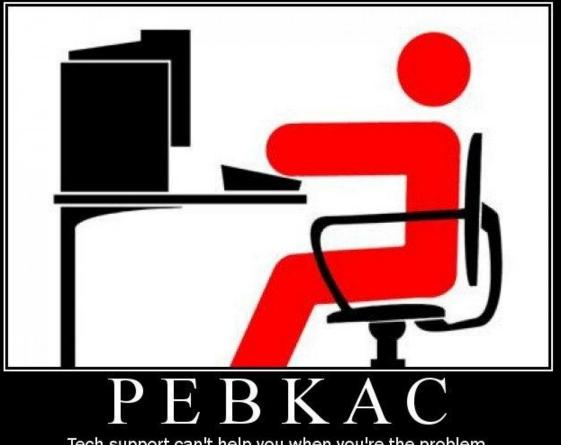






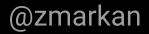






Tech support can't help you when you're the problem.





Hi, I'm Zan 👋

First of my name. Breaker of builds, downer of deploys, tanker of tests, YOLOer of YAML, and developer advocate at CircleCl.



twitter.com/zmarkan

github.com/zmarkan

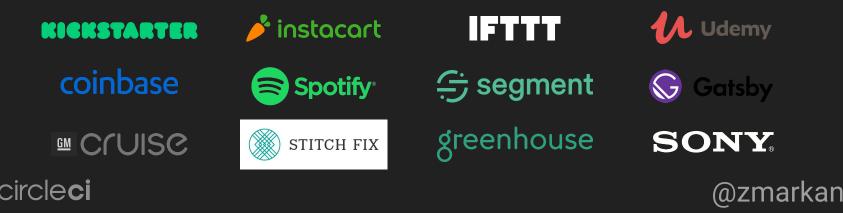
zan@circleci.com





About CircleCl

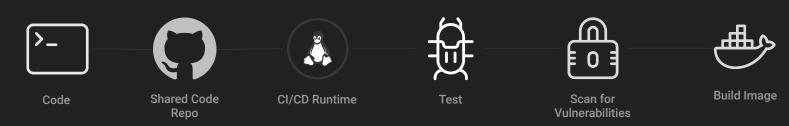
- Founded in 2011, now at 600+ employees across 5 continents
- We help teams build better software, faster
- Currently the world's largest shared CI/CD platform
- Running cool raffles and stickers downstairs
- Built for the cloud 2.5M+ jobs per day on our platform



CI == Continuous Integration

circle**ci**

the practice of verifying all contributions to a shared code repository



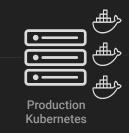
@zmarkan

CD == Continuous Deployment

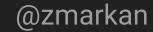
the **practice** of automatically deploying new software releases to **target environments**



Build Image



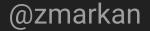




⊙ circle**ci**

Multiple dimensions of CI/CD success

CIECÍ







Time to run the CI/CD pipeline Time to recover from a failing build Time to ship a feature





Running your pipelines faster

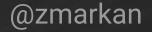
Use rightsized resources

Cache everything

Run jobs and tests in parallel

Run workloads when they work for you







CI/CD is like an ambulance 🚑

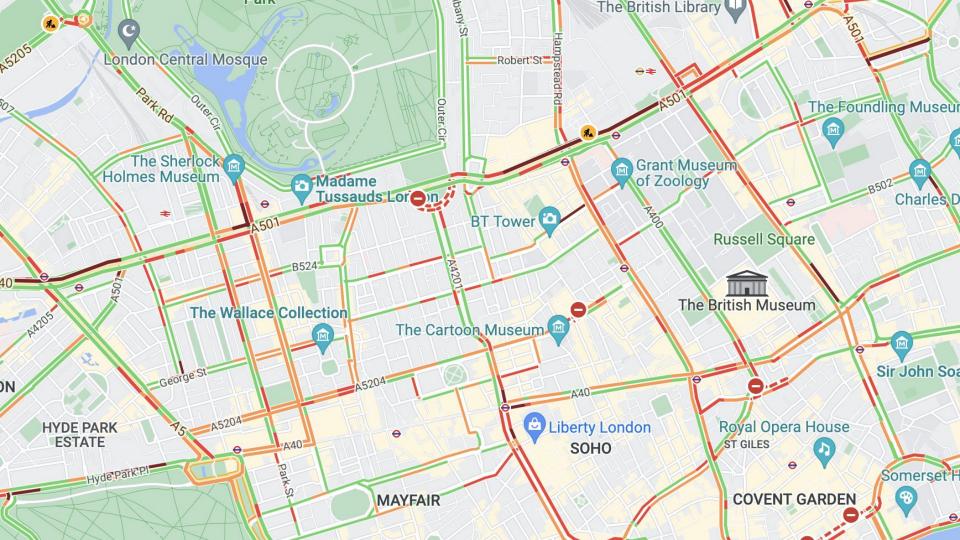
Go fast... but not too fast

Payload is the signal

... when you see the red lights flashing - fix ASAP!







Recovering from failures 🥒



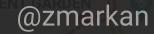
Insight into what's happening with your workloads

Log everything

Easy access to logs & build artifacts

Debug your builds as they fail

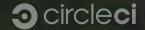


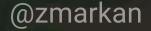


THAT should do it.

Security & Risk management

Keeping credentials safe Automating security scanning Principle of least privilege Access control Manual approvals



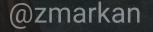






Validating changes in production Integrating with other tools you use Build/Deploy information - where you need it? Who needs to know about it?





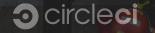


DevOps is about people 🙌

CI/CD is the whole org's responsibility

Spread the knowledge to avoid bottlenecks

CI/CD configuration is an onboarding aid







Revert what's broken 🔀

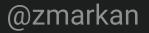
Broken deploys will happen

Enable fast recovery & reverts

Favour small changes over large releases

Plan, Prepare, Practice







CI/CD Success = Freedom to deliver software on **your own** terms





CI/CD Success = Freedom 🦋

Focus on quality and team wellbeing

Faster adaptation to changes

Self-documenting build/test/deploy

Easy recovery from failure (and Friday deploys)



