Continuous Delivery

continuous

integration

integrate early & often

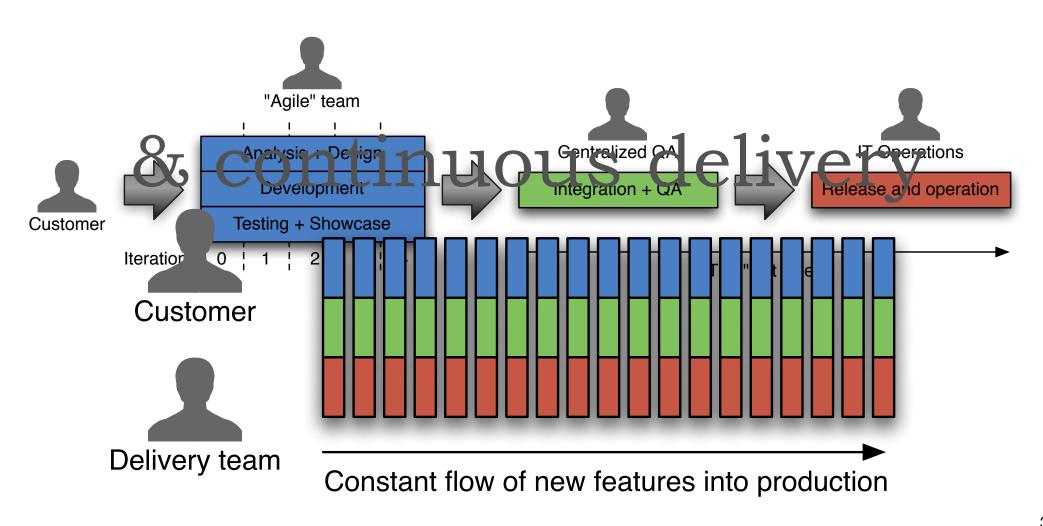
deployment

deploy as the final stage of CI

delivery

software is always deployable

agile 101



continuous integration

Fast, automated feedback on the correctness of your application every time there is a change to code

continuous delivery

Fast, automated feedback on the production readiness of your application every time there is a change — to code, infrastructure, or configuration

continuous delivery ideal

software is always production ready

deployments are reliable and commonplace

everyone can self-service deployments

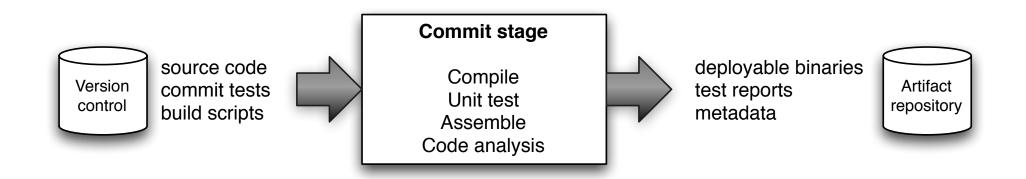
releases occur according to business needs, not operational constraints

prerequisites

comprehensive configuration management excellent automated testing at multiple levels

continuous integration

commit Stage

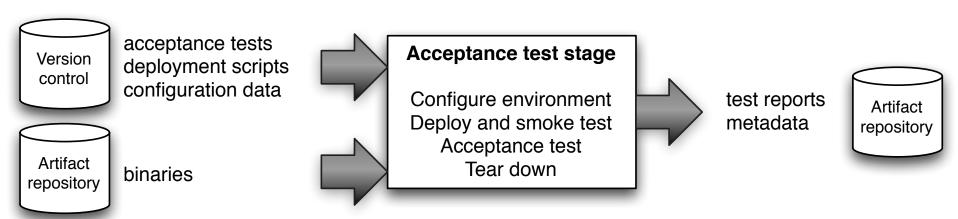


run against each check-in (continuous integration)

builds downstream artifacts

fix immediately upon failure

acceptance Stage

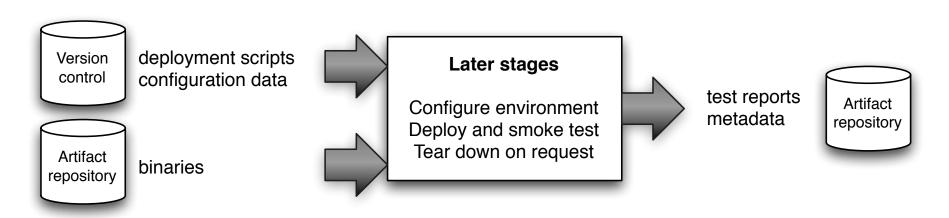


end-to-end tests in a production-like environment

triggered by upstream success

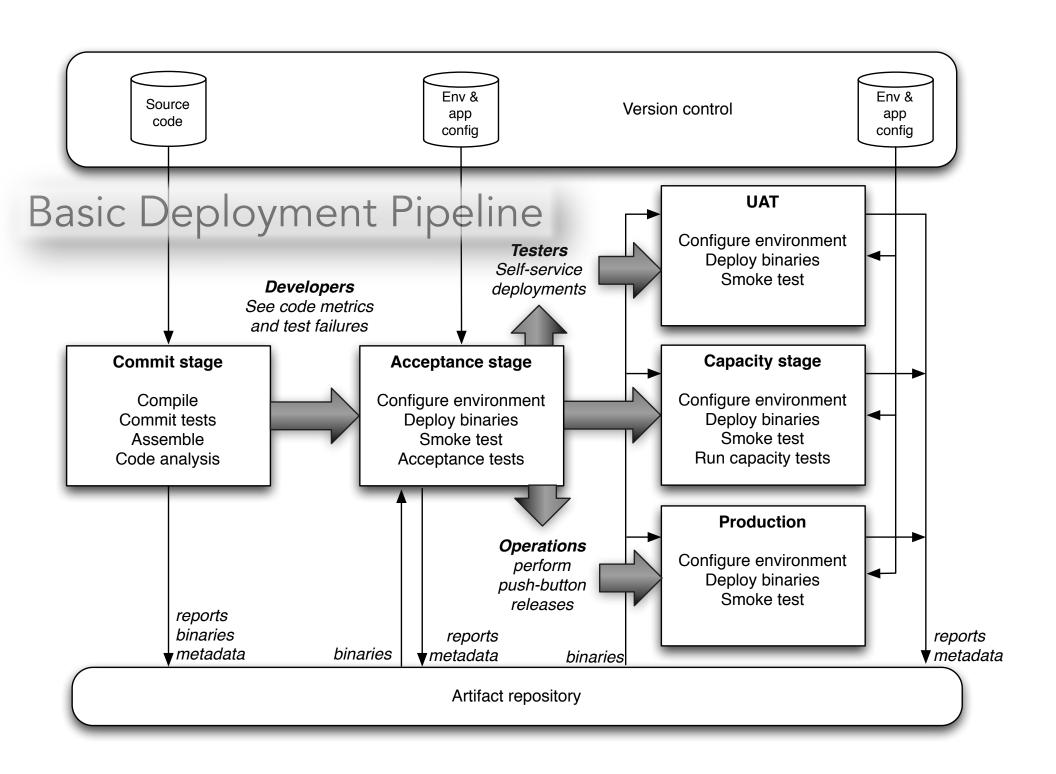
fix immediately upon failure

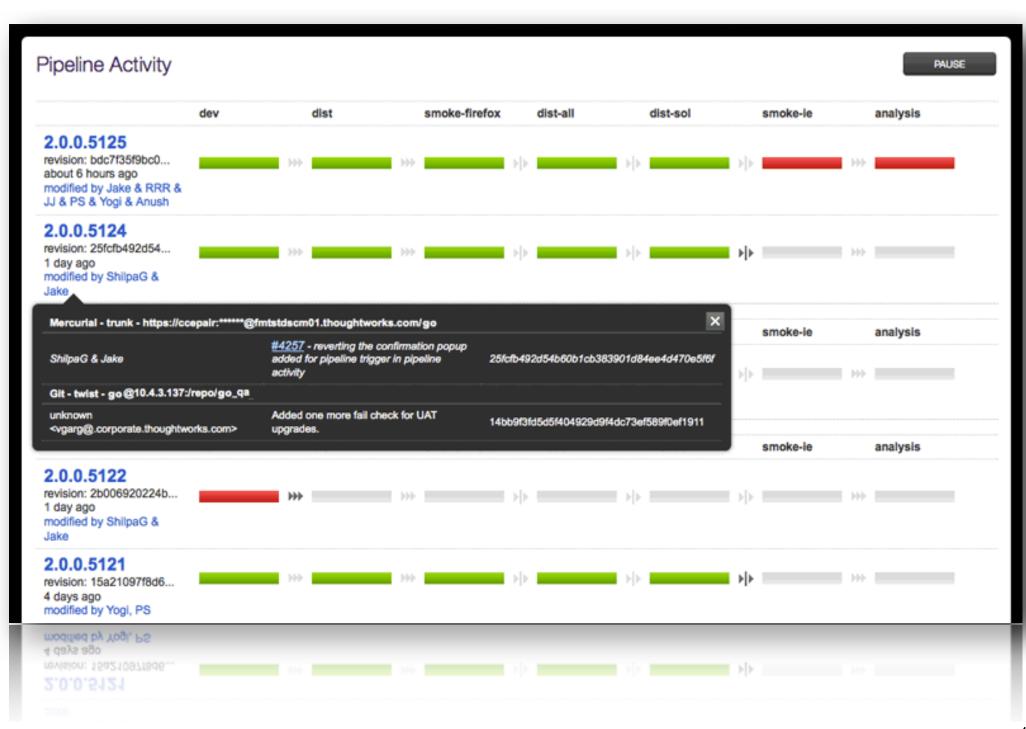
manual stage(s)



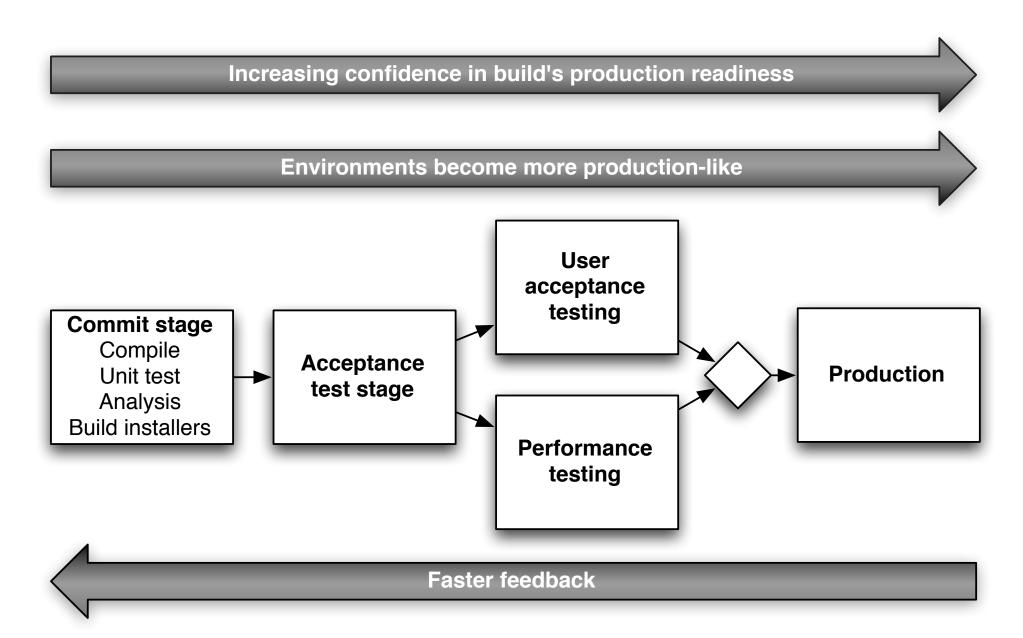
UAT, staging, integration, production deployments self-serviced (push button)

push vs. pull systems





"production-like"





principles of software delivery

create a repeatable, reliable process for releasing software



Provisioning boxes



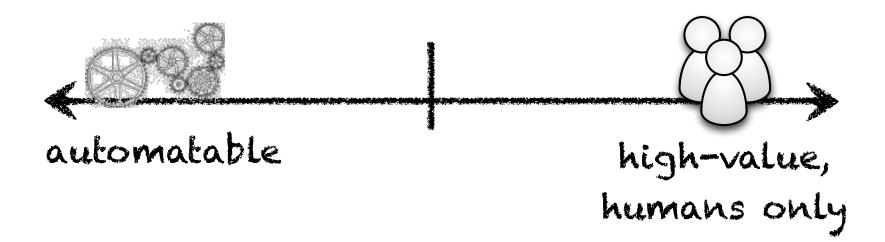


the more you do it, the better tested it is

automate almost everything

build, deploy, test, release

manual testing, approvals



keep everything you need to build, deploy, test, & release in version control

requirements documents

test scripts

automated test cases

network config scripts

technical documentation

database creation, manipulation, & initialization scripts

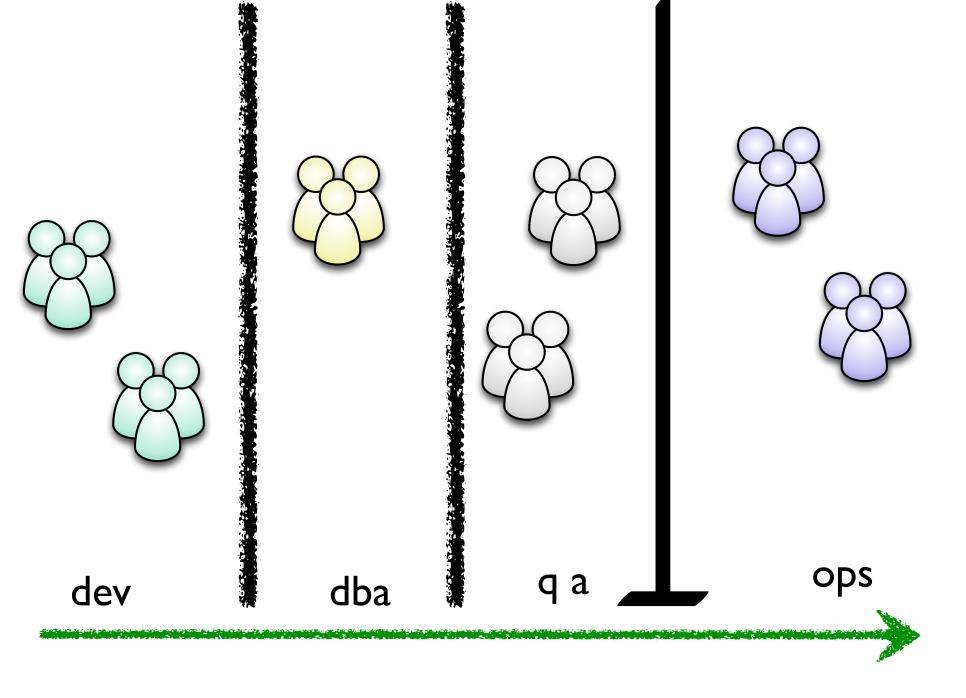
application scripts

libraries

tool chains

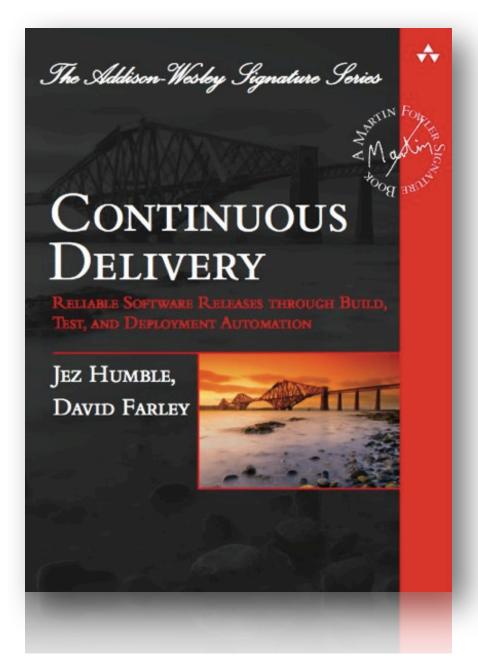
If it hurts... ... do it **more** often bring the

time



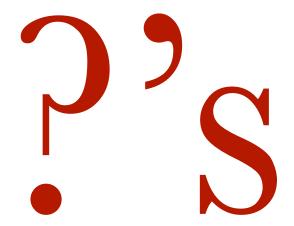
everyone is responsible for delivery

Continuous Delivery



Jez Humble David Farley

more to come about architectural impacts of continuous delivery...





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