UNIVERSIDAD TECNOLÓGICA NACIONAL
FACULTAD REGIONAL CÓRDOBA
INGENIERÍA EN SISTEMAS DE INFORMACIÓN
CÁTEDRA DE INGENIERÍA DE SOFTWARE

Continuous Deployment

GRUPO 9

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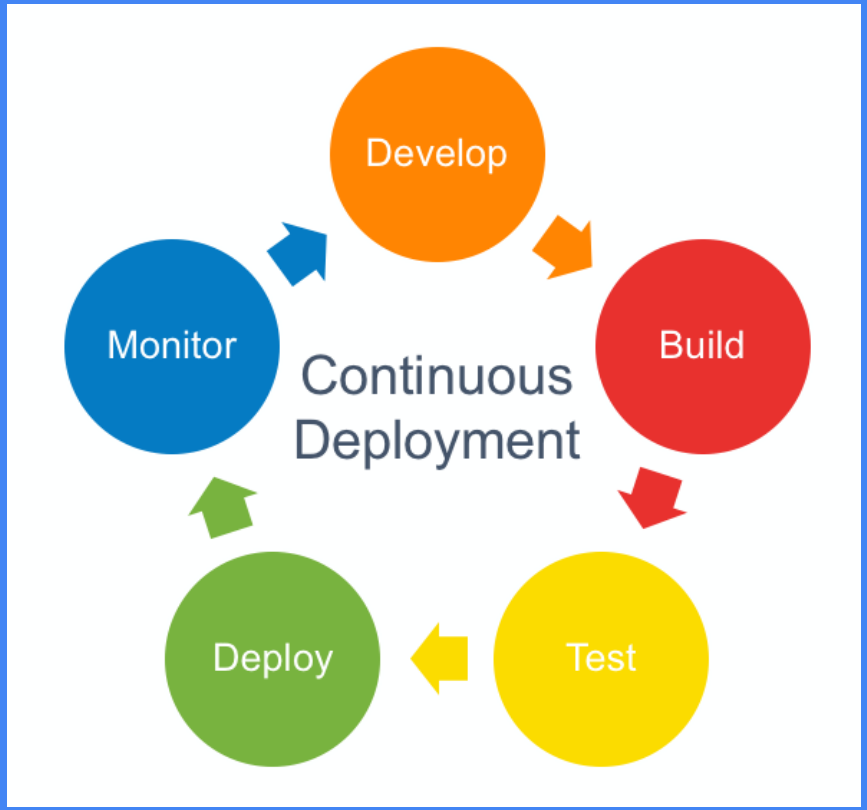
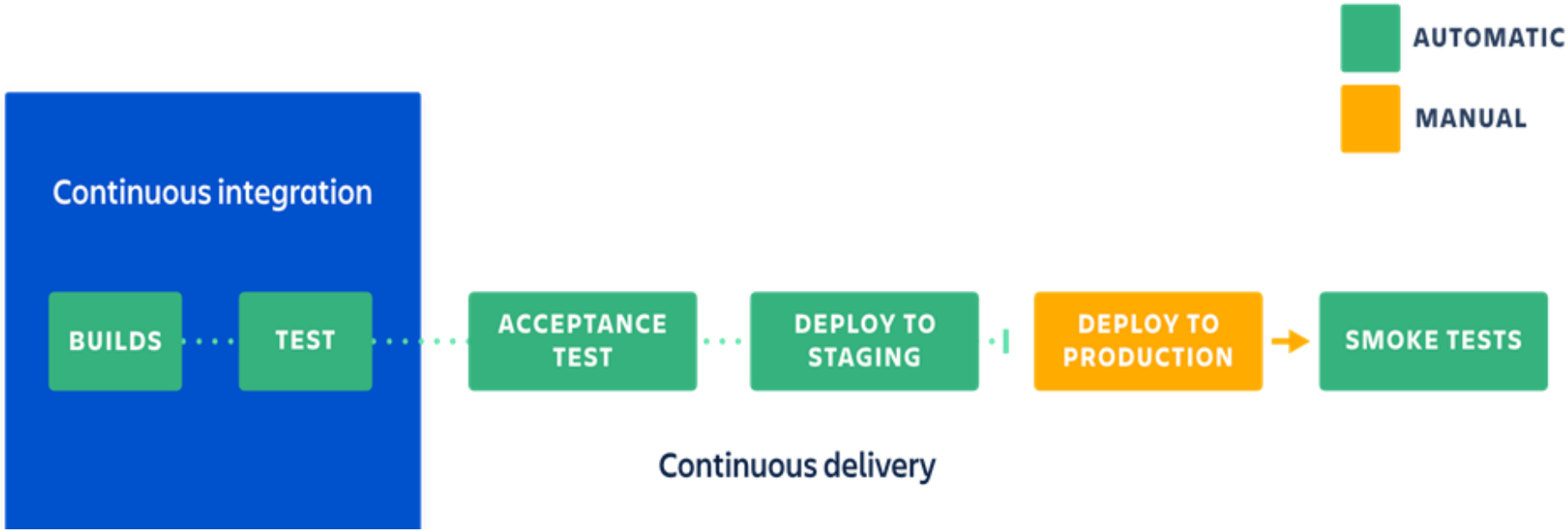
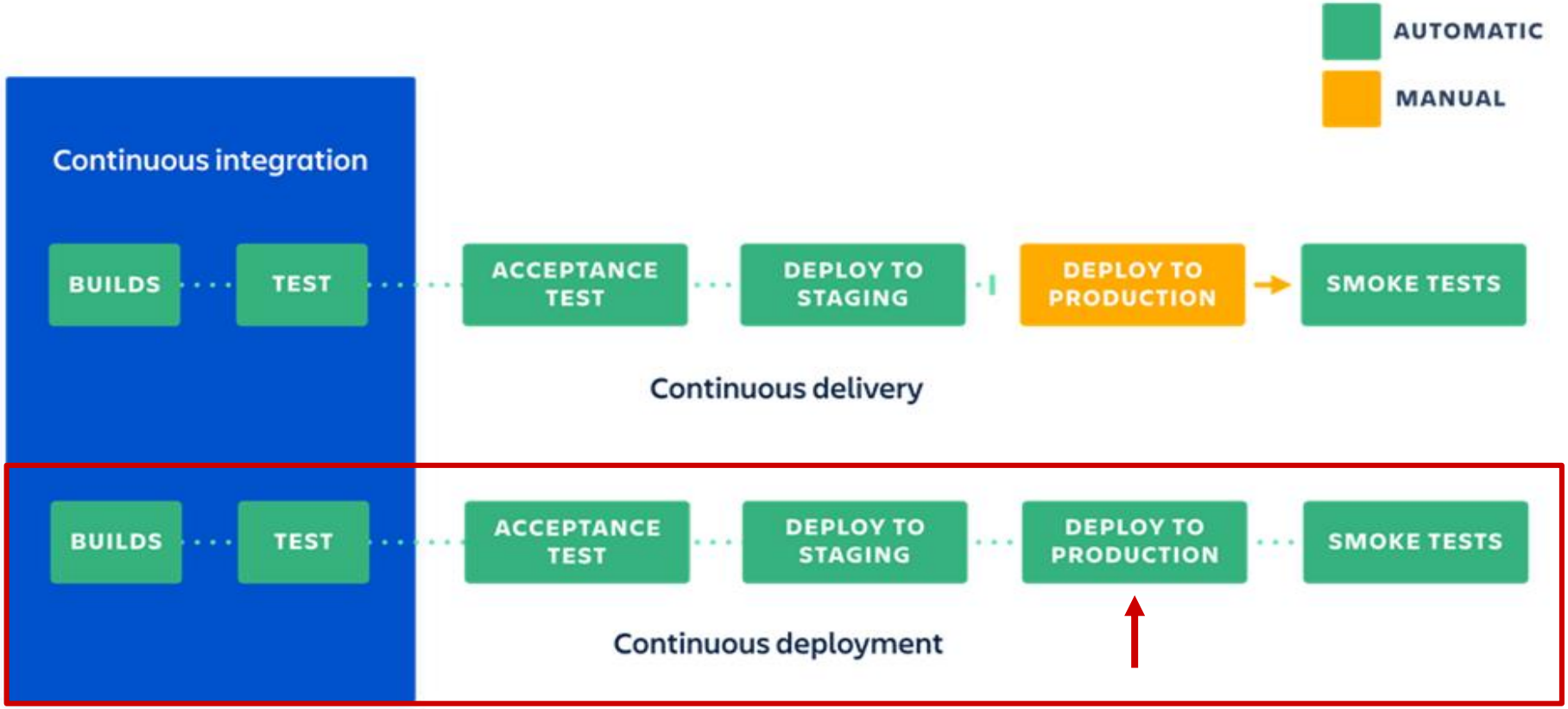
ROBLES, JOAQUÍN LEONEL (JTP)

BELLI, GIULIANA (AYUDANTE 1RA)

MARTINFOWLER.COM


Develop
Build
Test
Deploy
Monitor
Continuous
Deployment


AUTOMATIC
MANUAL
Continuous integration
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous delivery


AUTOMATIC
MANUAL
Continuous integration
BUILDS
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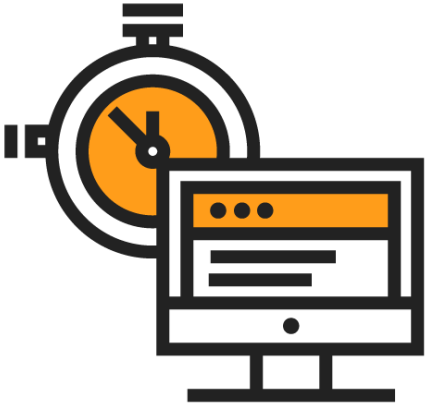
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous delivery
BUILDS
TEST
ACCEPTANCE TEST
DEPLOY TO STAGING
DEPLOY TO PRODUCTION
SMOKE TESTS
Continuous deployment

VS

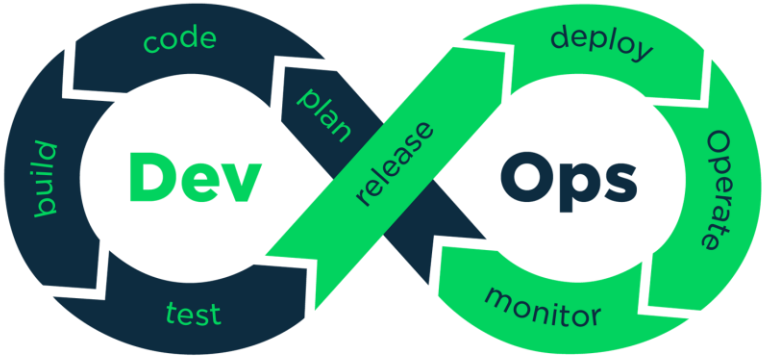
Reduce
Risk!

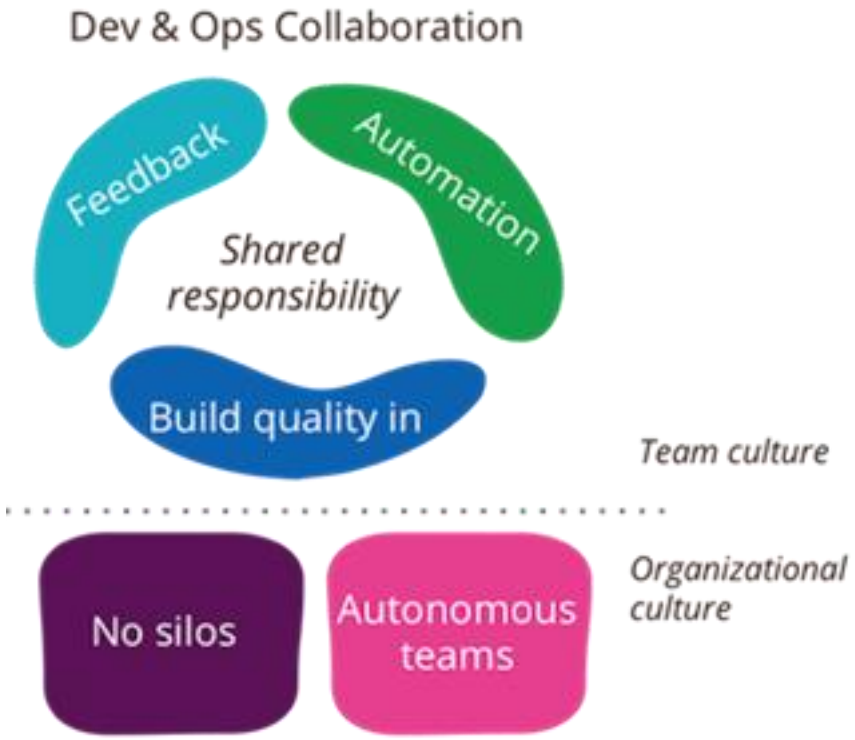
Advantages

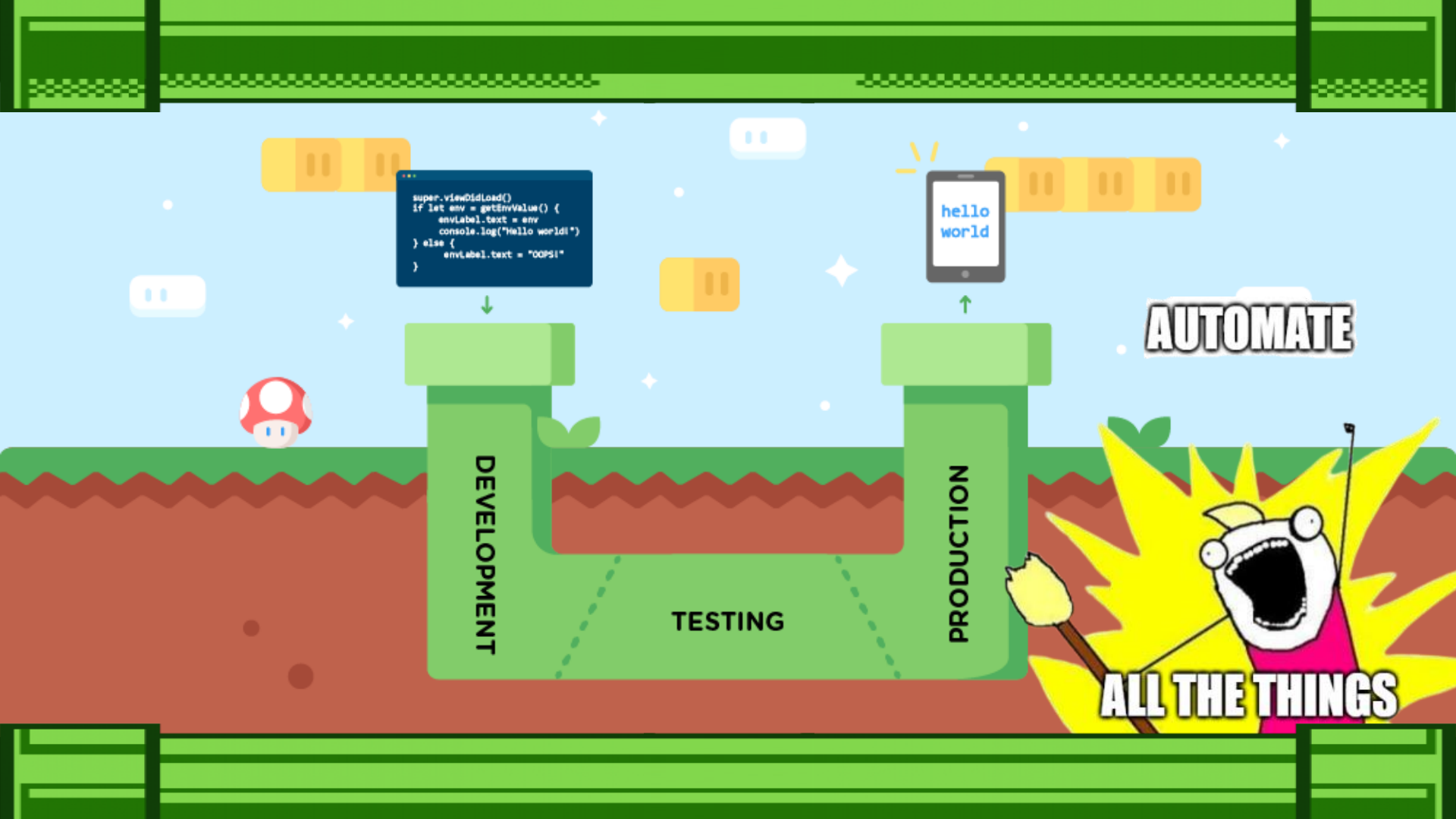


REPEAT

ONE DOES NOT SIMPLY
DO CONTINUOUS DEPLOYMENT

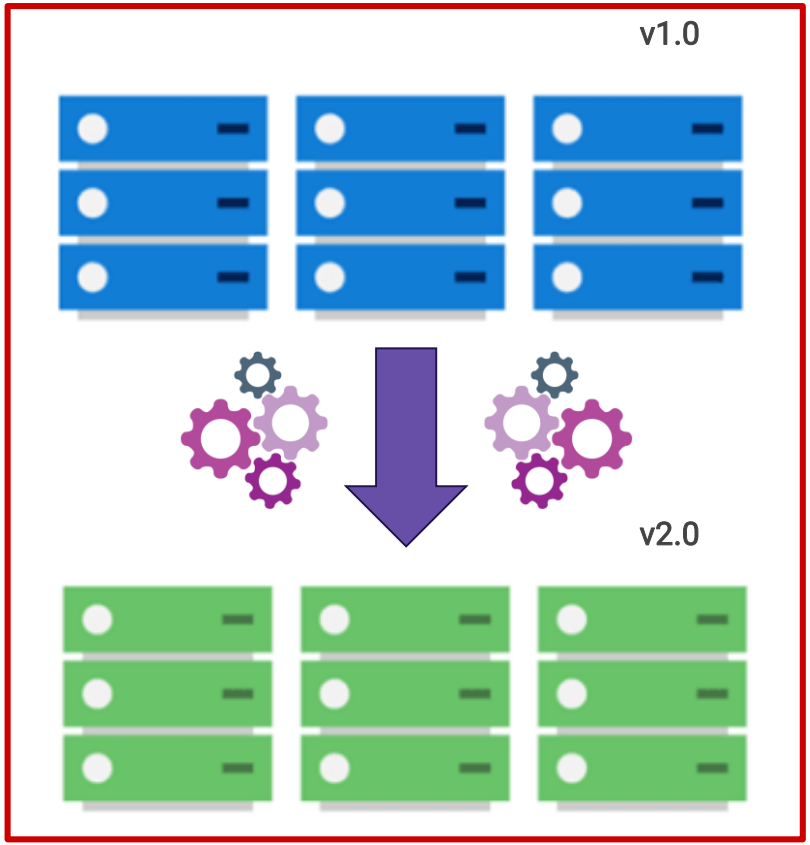

code
plan
build
Dev
release
deploy
Ops
Operate
test
monitor


Dev & Ops Collaboration
Feedback
Automation
Shared responsibility
Build quality in
Team culture
No silos
Autonomous teams
Organizational culture


super.viewDidLoad()
if let env = getEnvValue() {
envLabel.text = env
console.log("Hello world!")
} else {
envLabel.text = "OOPS!"
}
hello
world
DEVELOPMENT
TESTING
PRODUCTION
AUTOMATE
ALL THE THINGS

STRATEGY

GOAL



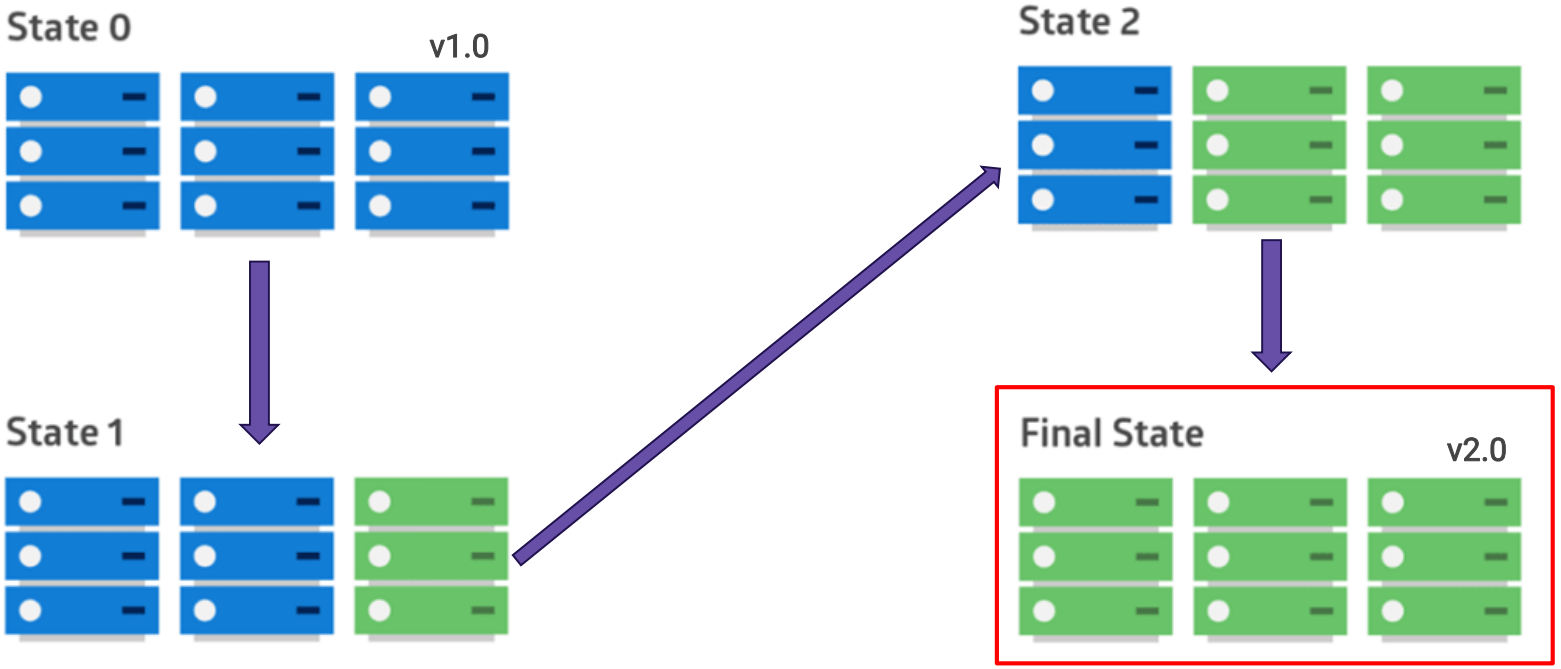
THE CHALLENGE

Big Bang Deployments

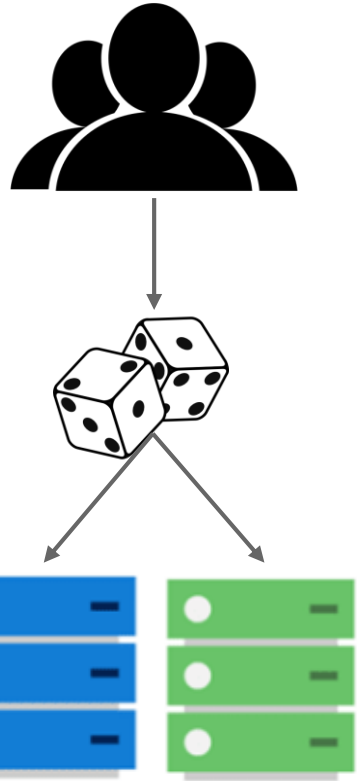
v1.0

v2.0

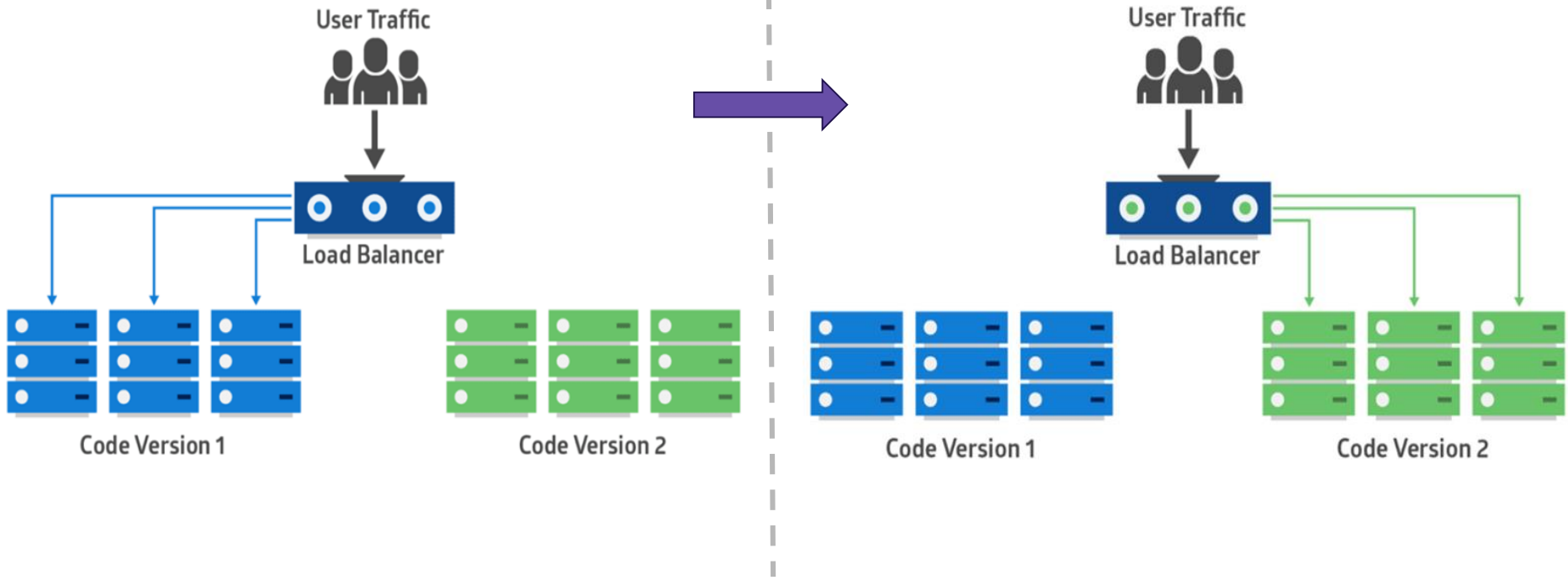
Rolling Upgrades



Rolling Upgrades

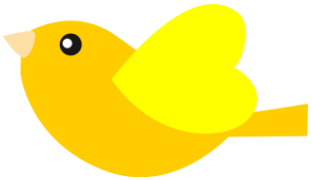


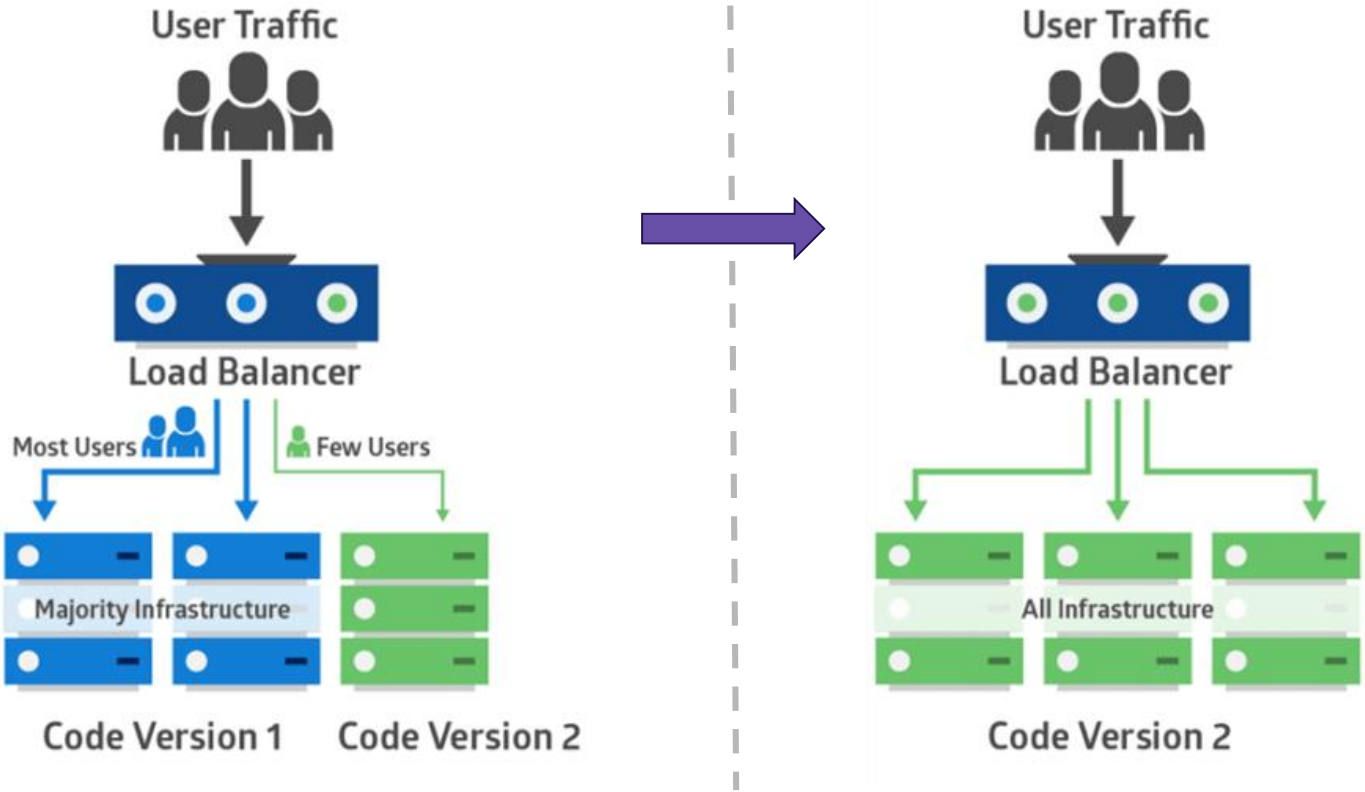
Blue-Green Deployments



Blue-Green Deployments

Canary Deployments

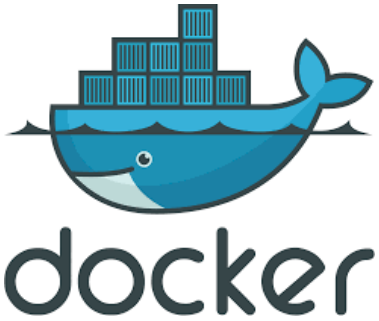




BLUE-GREEN

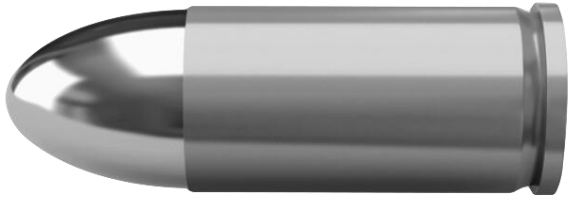
CANARY

EXIT
BANG!
& MORE



kubernetes

CI/CD

¿  ?

Istio

HashiCorp
Terraform

Azure DevOps