

What to expect from the session

The Amazon DevOps story

New developer tools for everyone

- AWS CodeDeploy
- AWS CodePipeline
- AWS CodeCommit

What is DevOps?

Software development lifecycle

delivery pipeline



developers

build

test

release



customers

plan

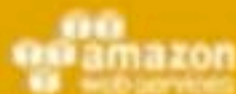
monitor

feedback loop

DevOps = efficiencies that speed up this lifecycle



The Amazon DevOps story



Monolith development lifecycle



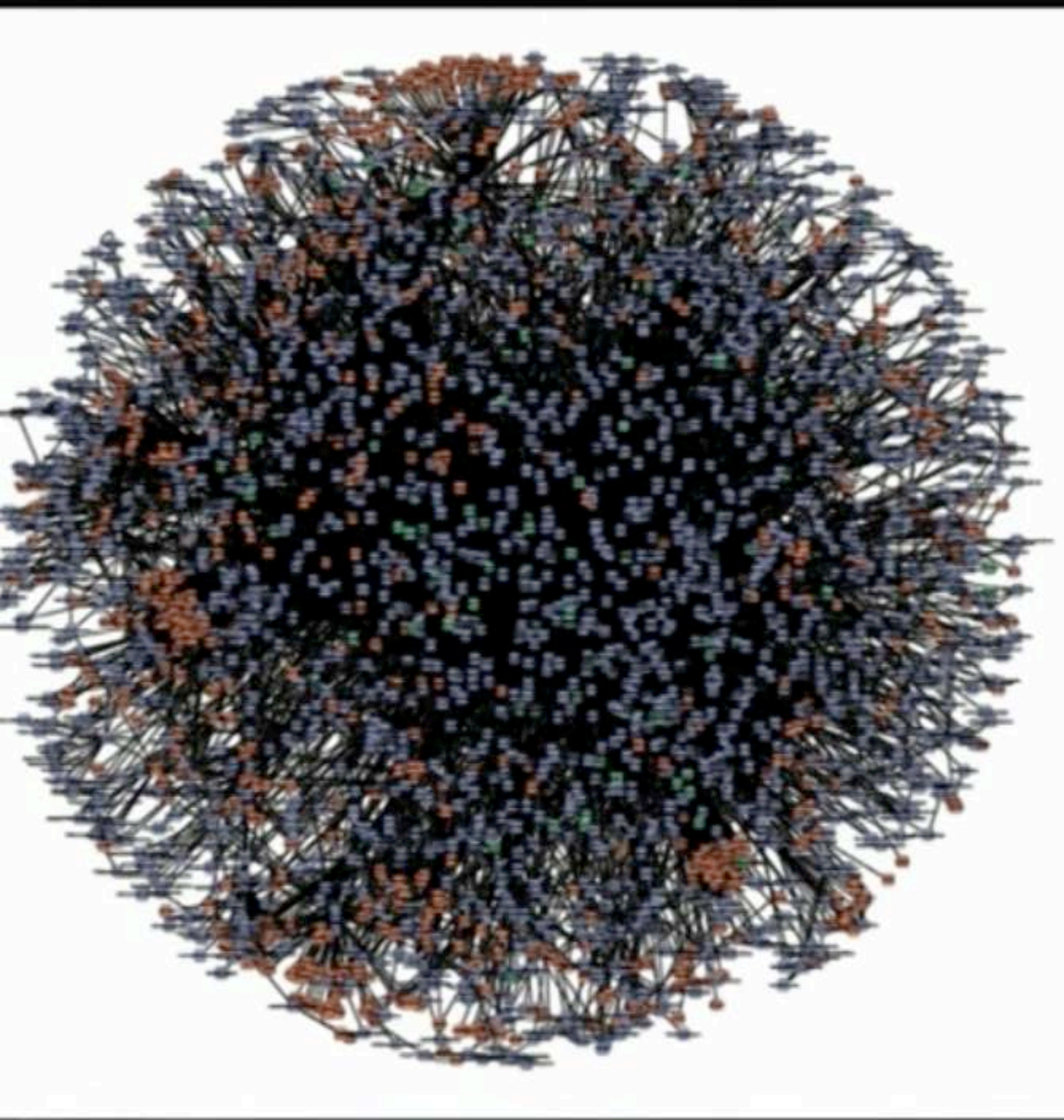
developers



app



delivery pipeline



Service-Oriented
Architecture (SOA)

Single-purpose

Connected through APIs

Highly decoupled

“Microservices”



Two-pizza teams

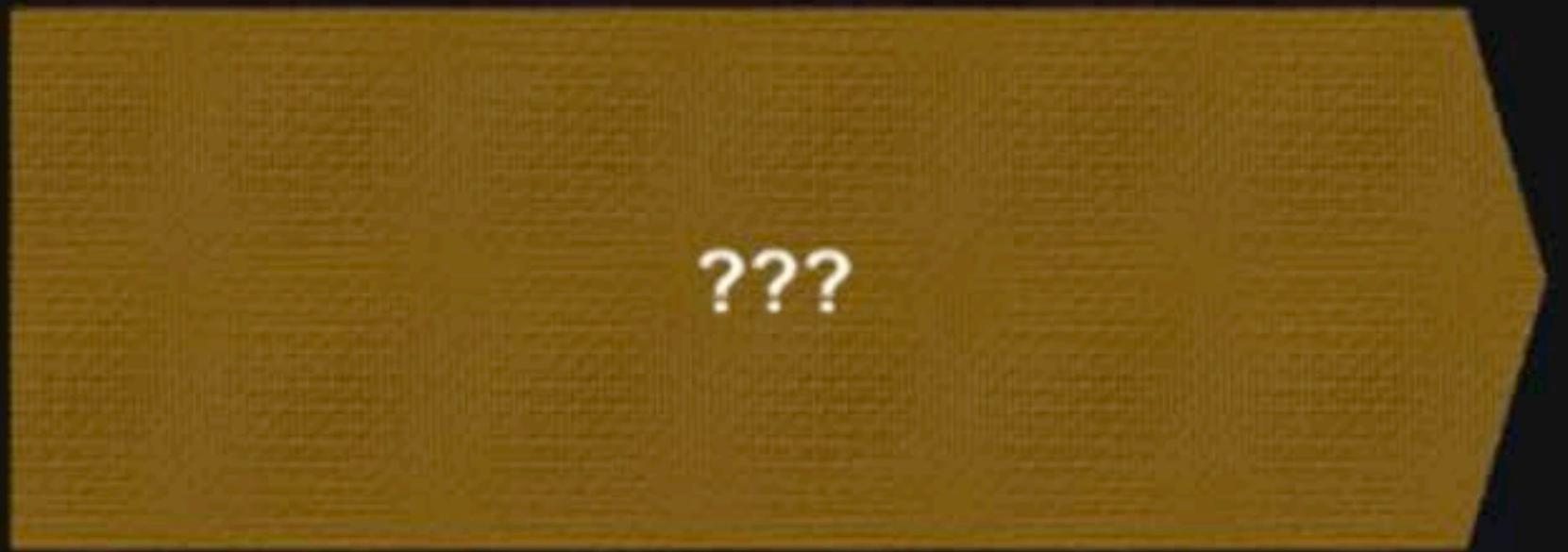
Full ownership

Full accountability

Aligned incentives

“DevOps”

Missing tools



delivery pipeline



Self-service

Technology-agnostic

Encourage best
practices

Single-purpose services



Deployment service

No downtime
deployments

Health tracking

Versioned artifacts and
rollbacks



Pipelines

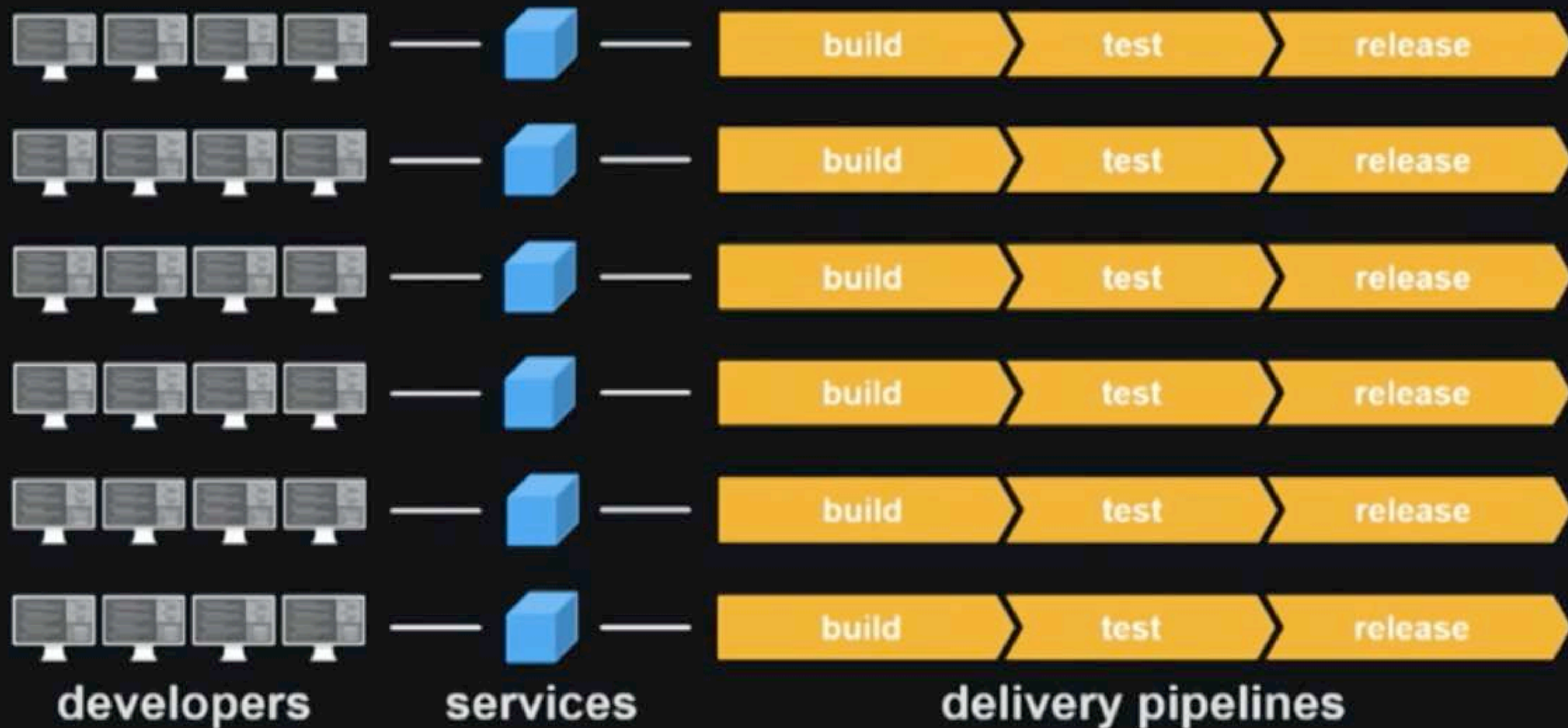
Continuous delivery

Automated release
process

Faster and more reliable
releases

>90% of teams

Microservice development lifecycle



How can others do this?



Setting up a delivery pipeline

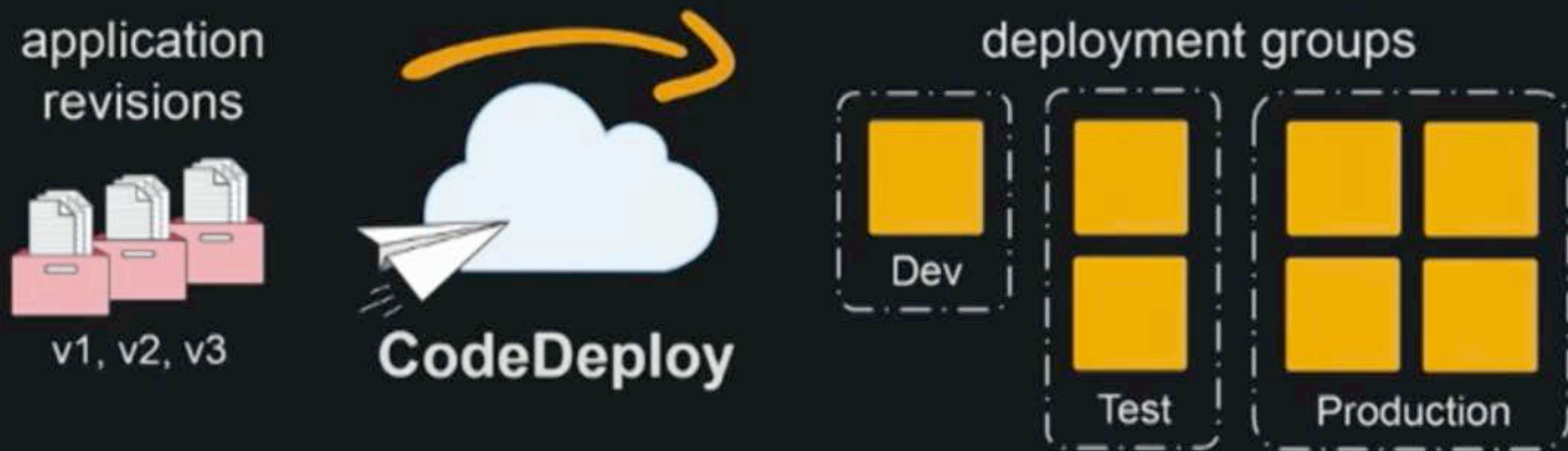




AWS Code Services



AWS CodeDeploy

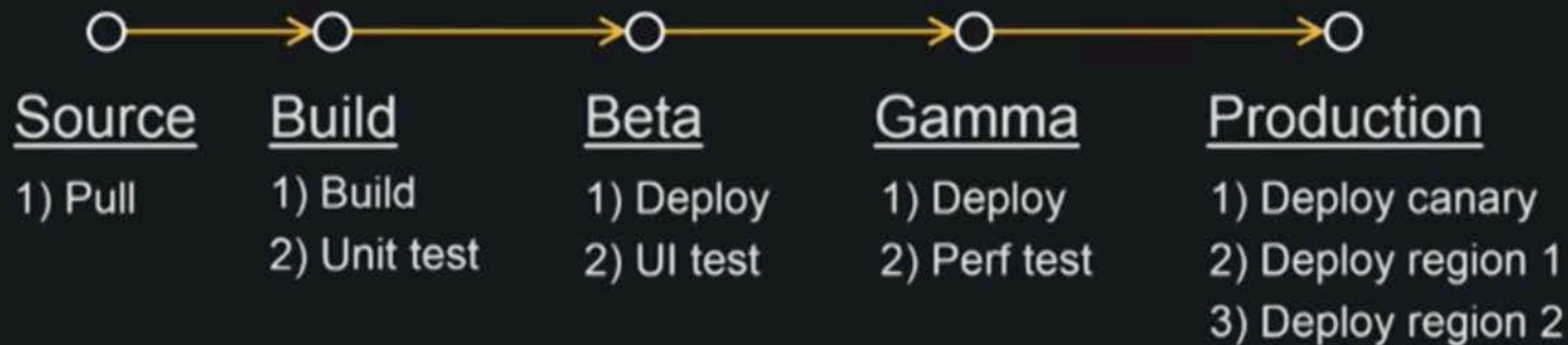


Easy and reliable deployments

Scale with ease

Deploy to any server

AWS CodePipeline



Connect to best-of-breed tools
Accelerate your release process
Consistently verify each release

AWS CodeCommit

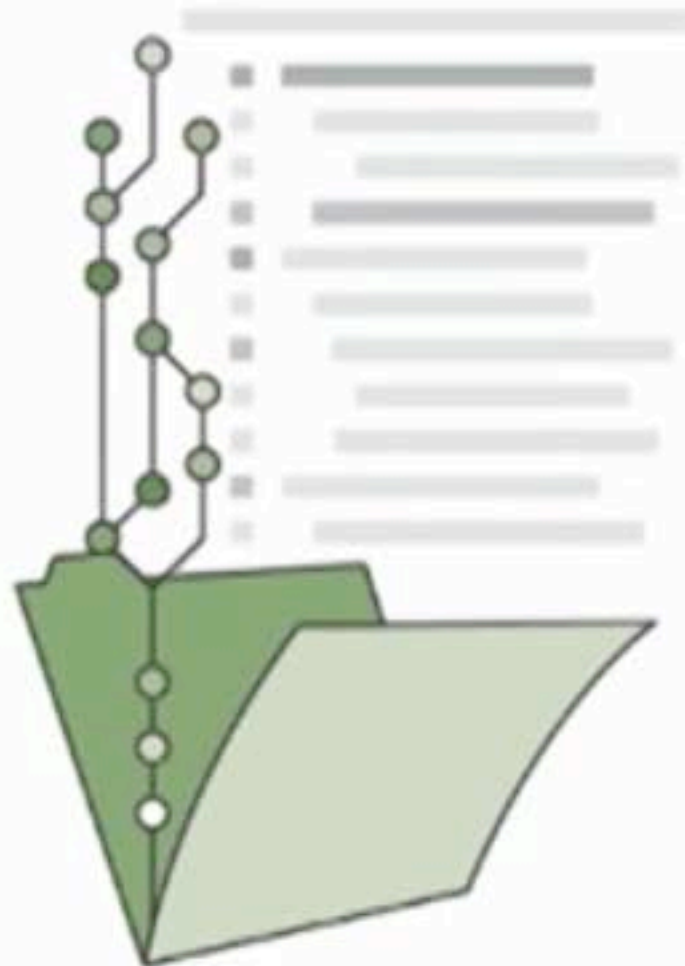


Use standard Git tools

Scalability, availability, and durability of Amazon S3

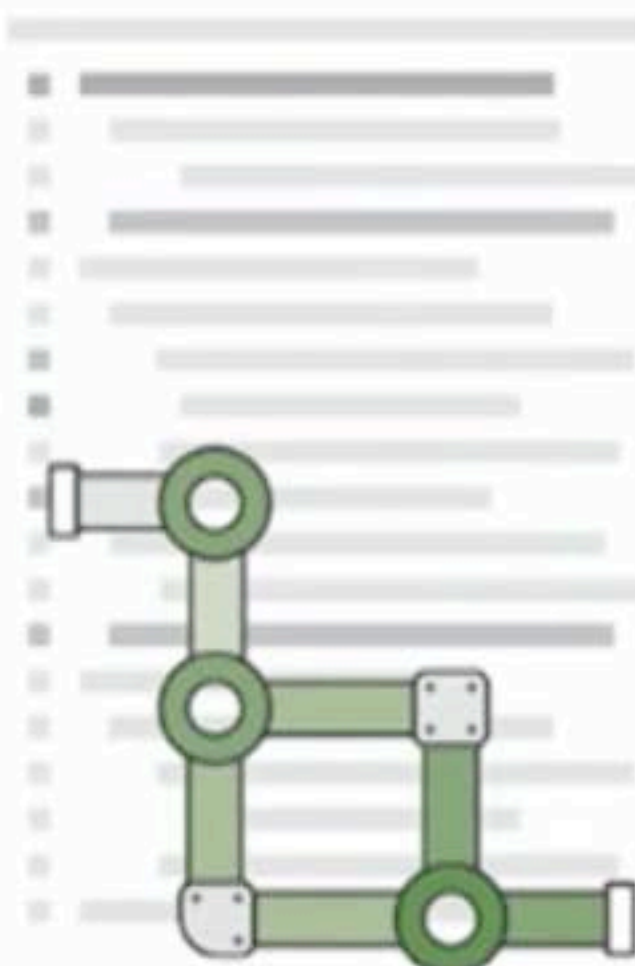
Encryption at rest with customer-specific keys

Hands on with the AWS Code services



CodeCommit

source control



CodePipeline

continuous delivery



CodeDeploy

automated deployment