

Automating for Agility, Control and Consistency in a Multi-Cloud Environment

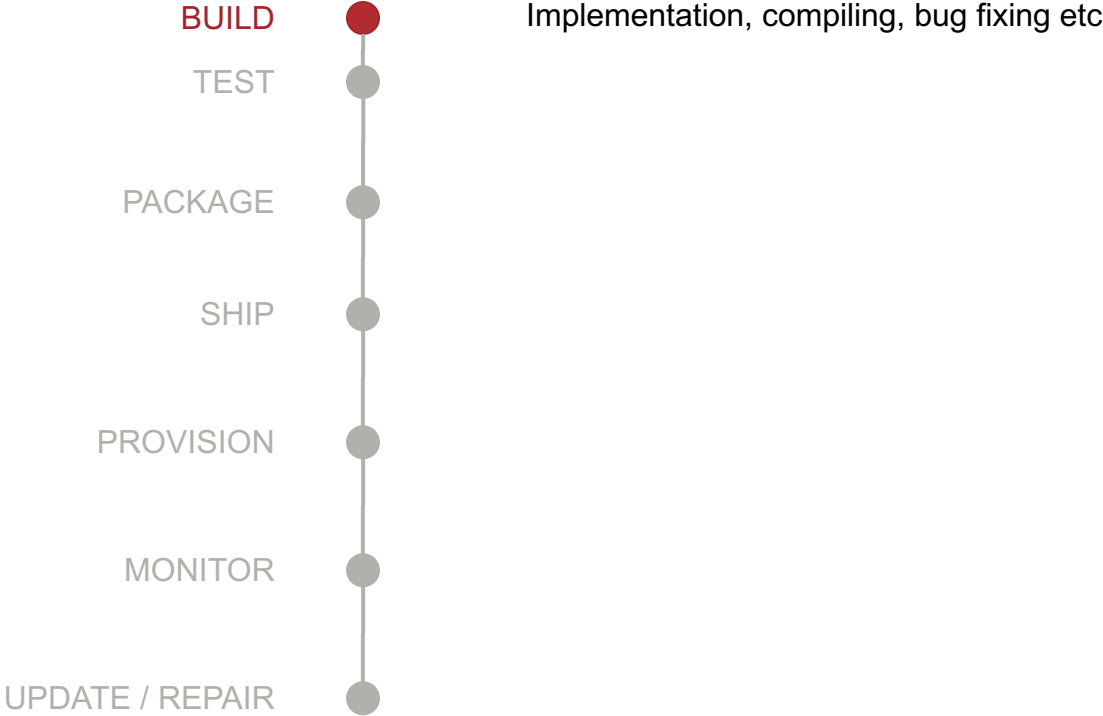
16th March 2017

James Weir
CTO, UShareSoft
james@usharesoft.com
@jamesgweir

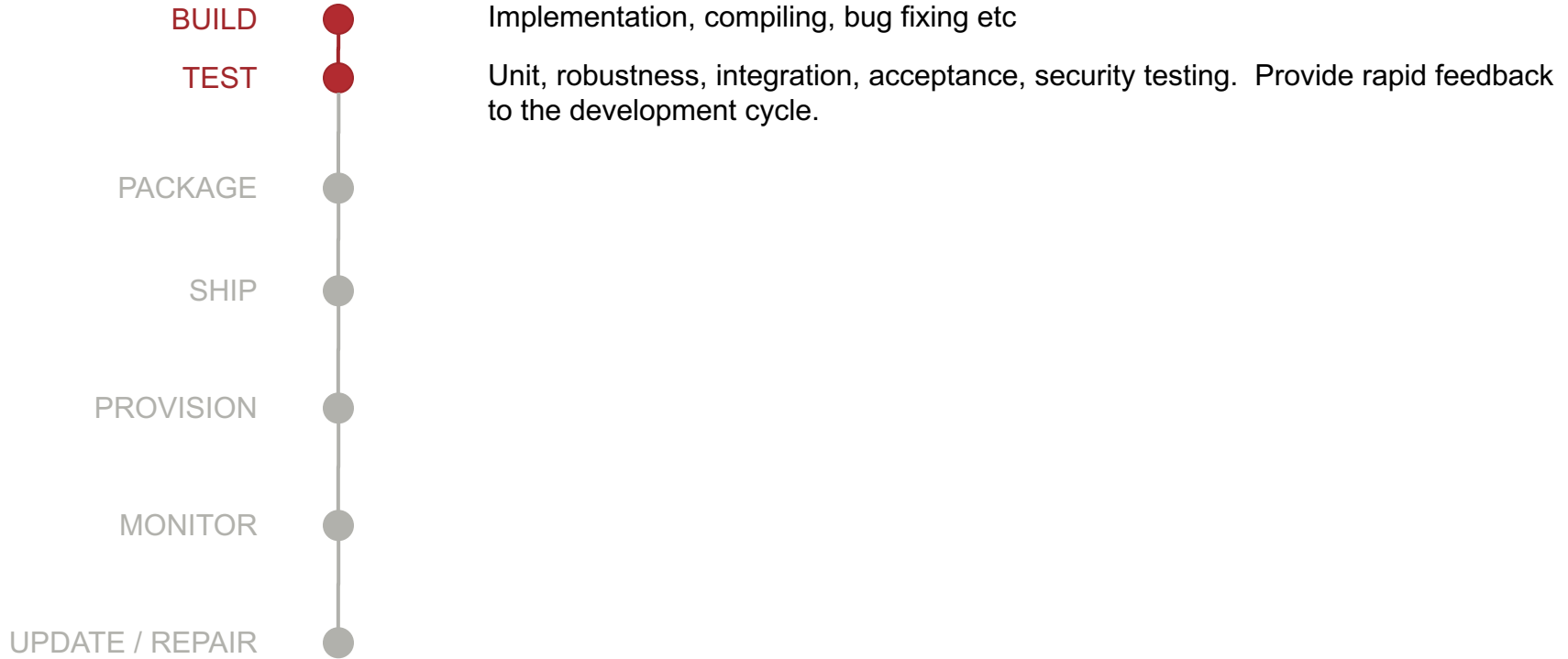
Alex Heneveld
CTO, Cloudsoft
alex@cloudsoft.io
@ahtweetin

“ DevOps is about minimizing the challenges of delivering and iterating software applications.

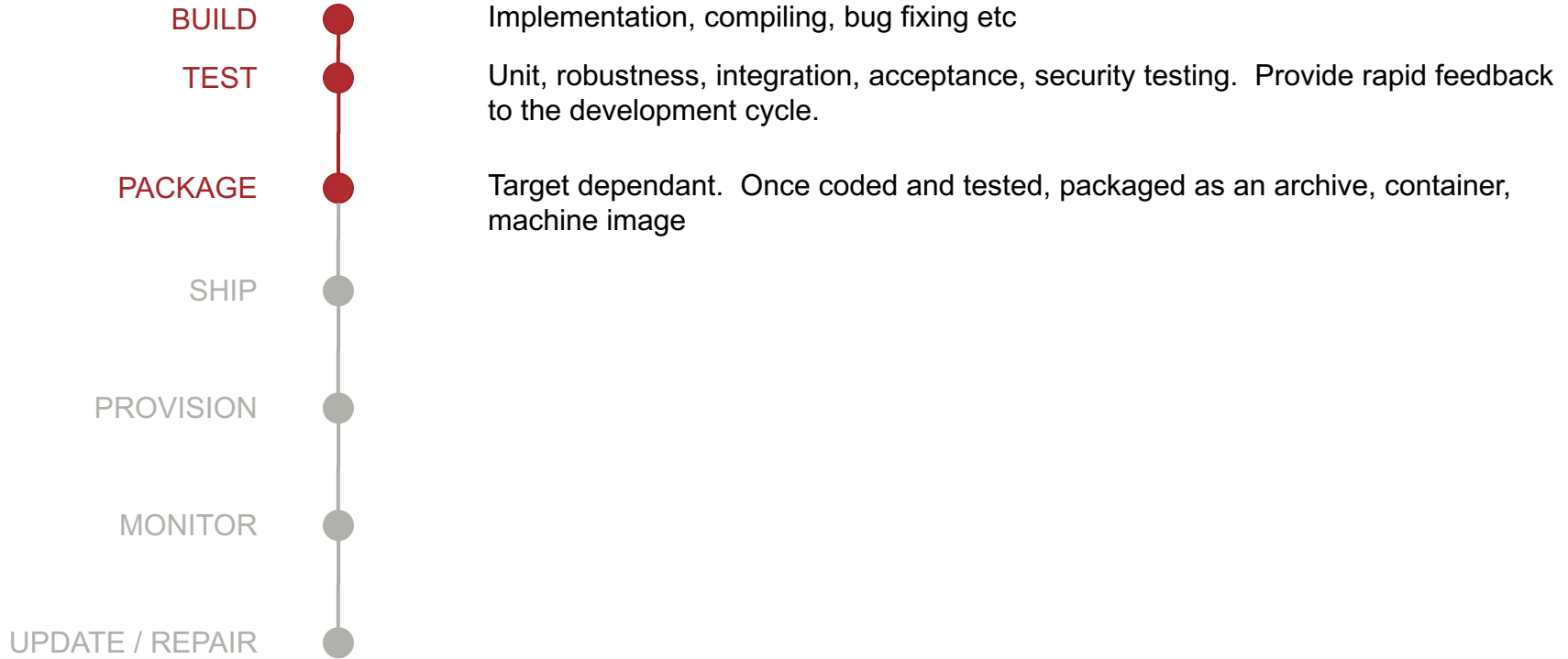
Modern Application Lifecycle



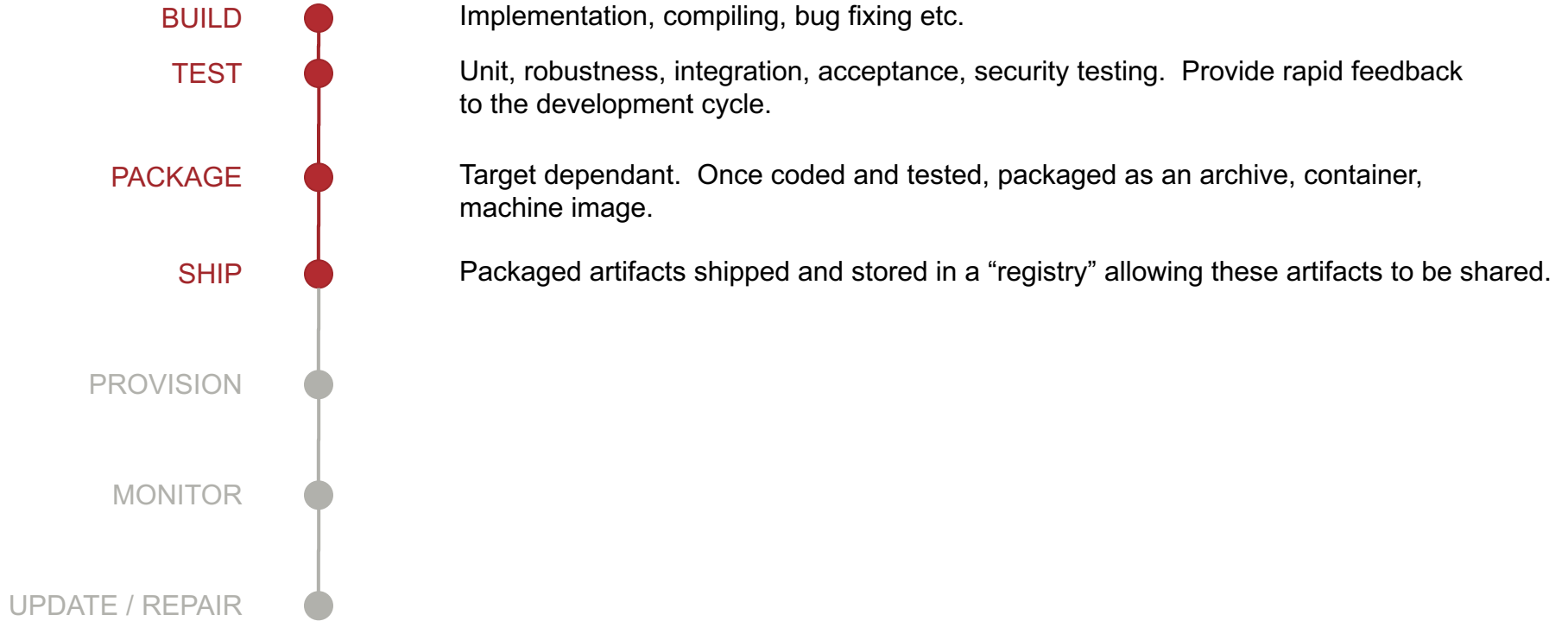
Modern Application Lifecycle



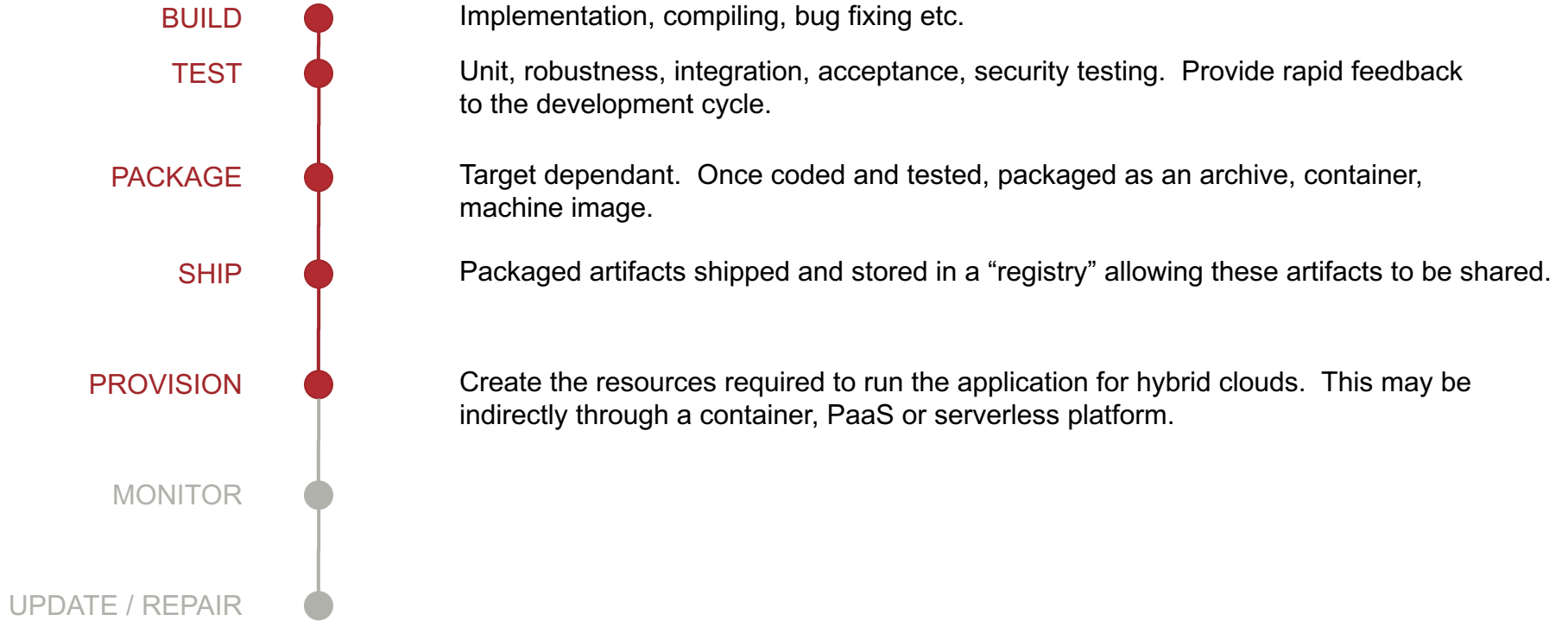
Modern Application Lifecycle



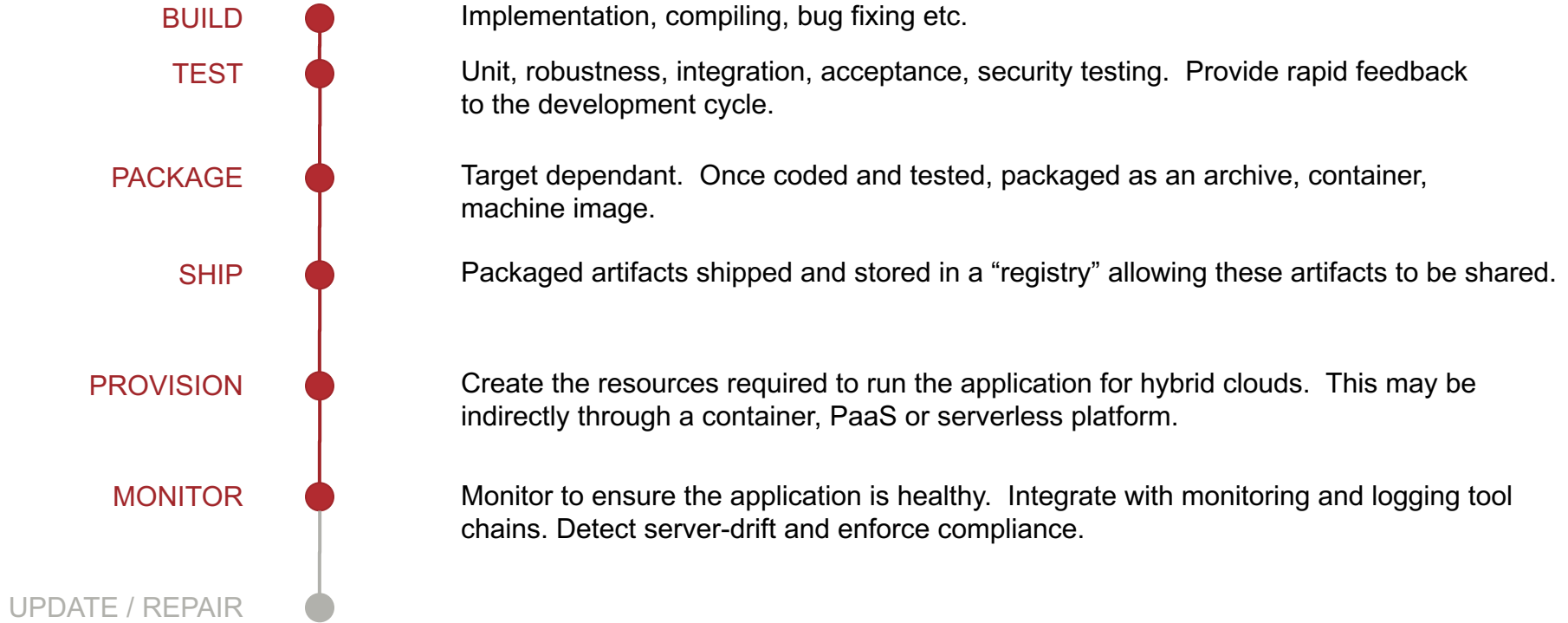
Modern Application Lifecycle



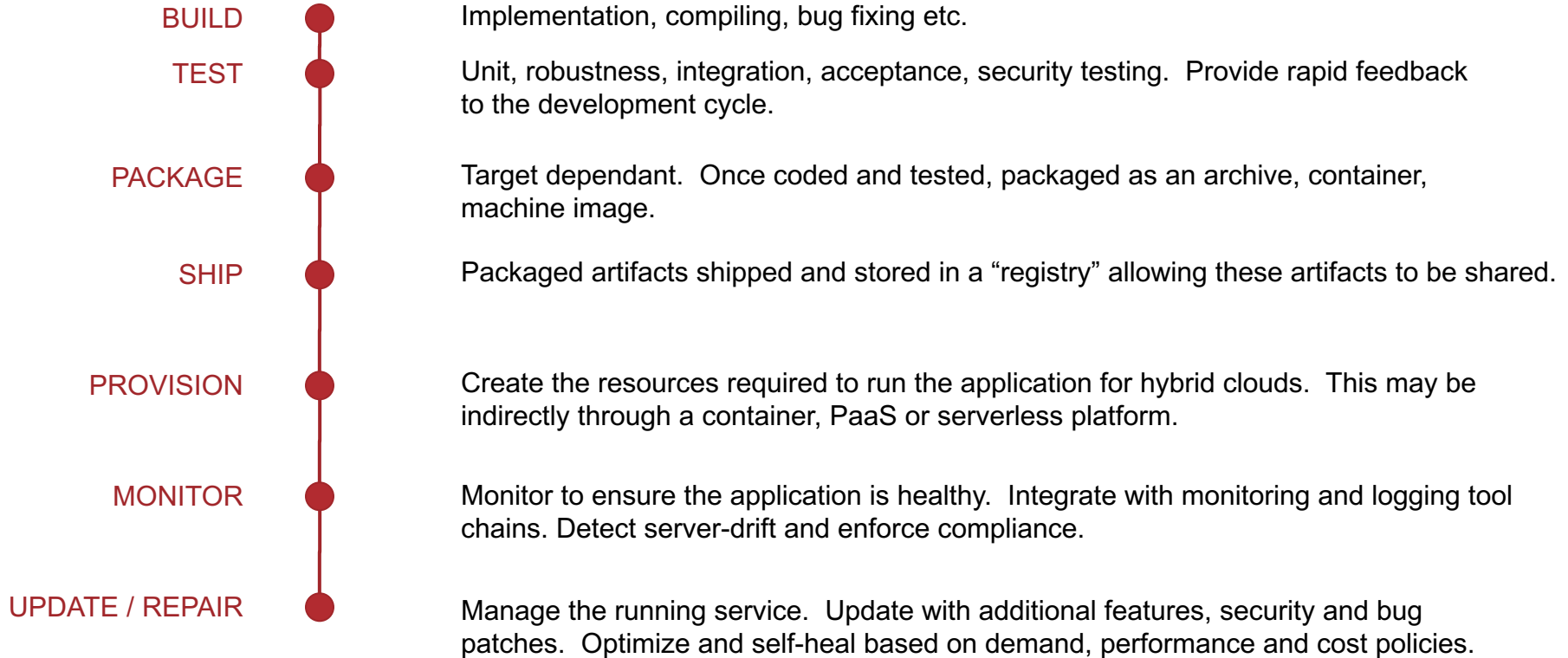
Modern Application Lifecycle



Modern Application Lifecycle



Modern Application Lifecycle



- Using base machine images differ depending upon the target environment
- Lack of control over software stacks
- Base machine images may not be properly maintained
- Frequently people use packages from upstream which could possibly break on any build without caching
- Deploying multi-node environments for testing can be difficult to automate
- Enterprise requirements for repeatability and audit control difficult across test, pre-production and production systems
- Many manual processes – most automation tools still infrastructure-centric

“ The Dockerfile is not the source of truth for your image

Nathan Leclaire

Get Consistency via Modeling

MODEL

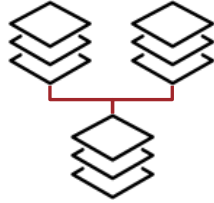
repositories
(binaries, RPMS, DEB)



software stacks
(appliance template)



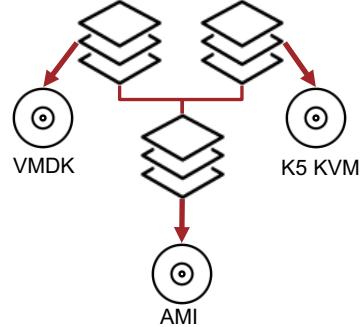
blueprints



Governance and Control at the
Stack and Solution Level

BUILD

machine images
(Cloud, Virtual, Container, Physical)



Machine Images to Target
Environment

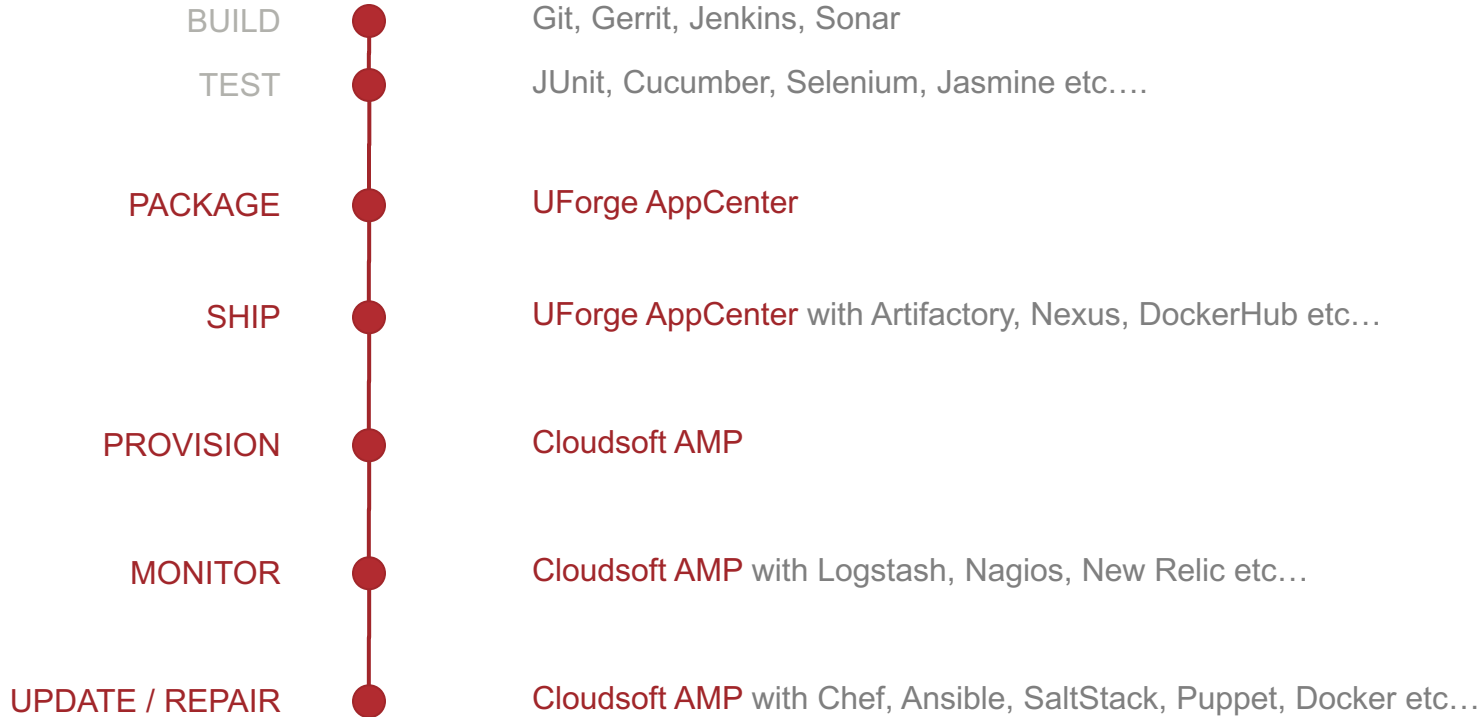
DEPLOY

Instances
(workloads)



To Hybrid Cloud Targets

Application Release Automation Tools





Demo of UForge & Cloudsoft AMP

Culture

The DevOps culture shift is amplified with tools that give each stakeholder immediate value: UForge + AMP through:

Automation

Repeatable, reliable deployments of any system anywhere

Measurement

Quantify what works. Test in hybrid cloud and multiple locations. Record performance.

Sharing

Models of stacks and blueprints that everyone can understand, share, source control, reproduce, test and audit.

Too Shy? Swing by our booth #974

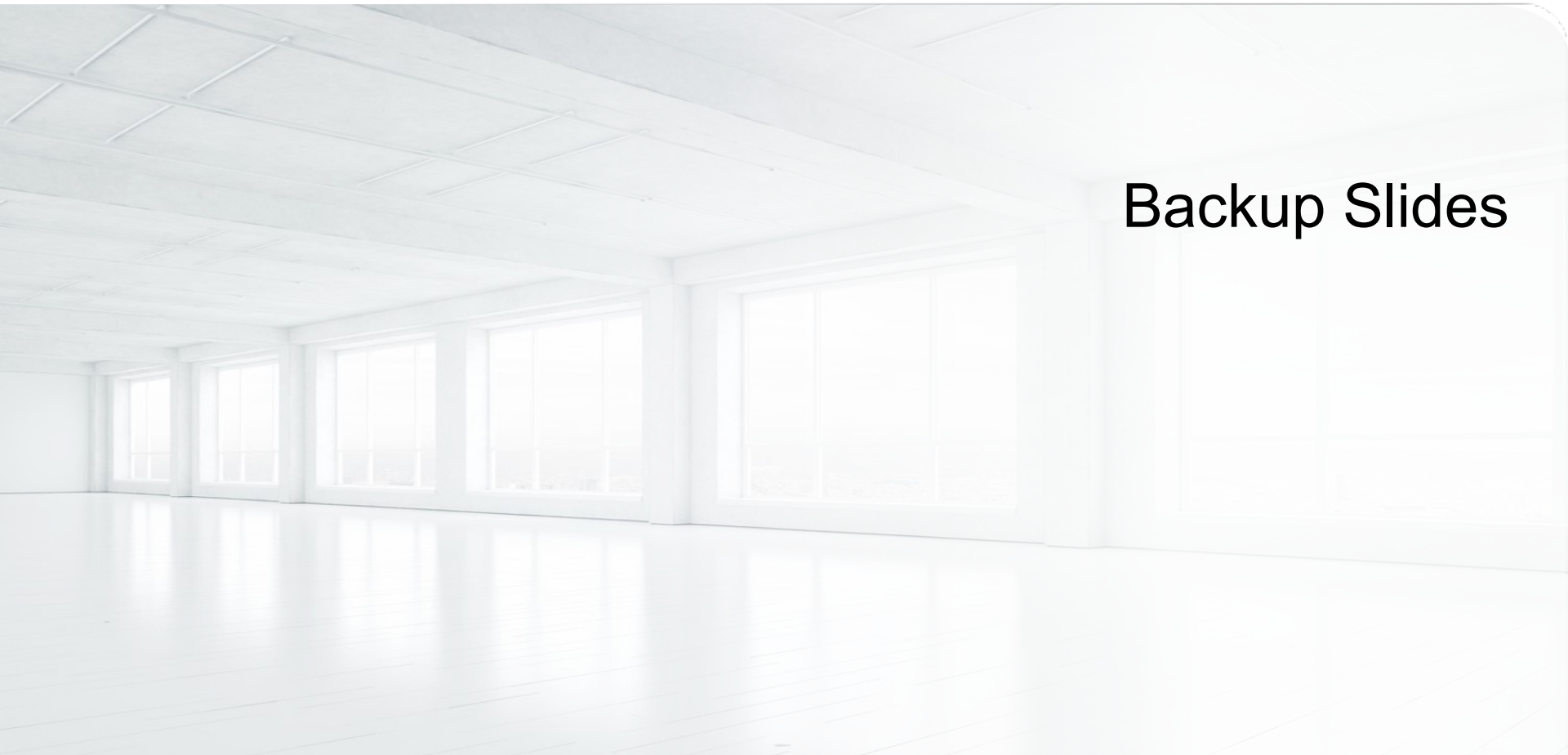


James Weir
CTO, UShareSoft
james@usharesoft.com
@jamesgweir



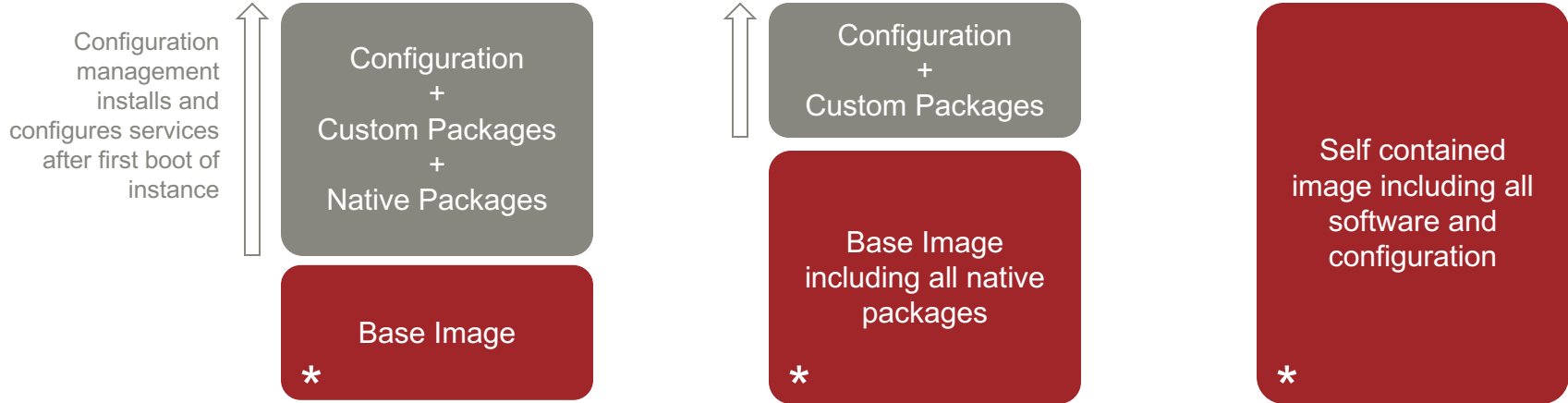
Alex Heneveld
CTO, Cloudsoft
alex@cloudsoft.io
@ahtweetin





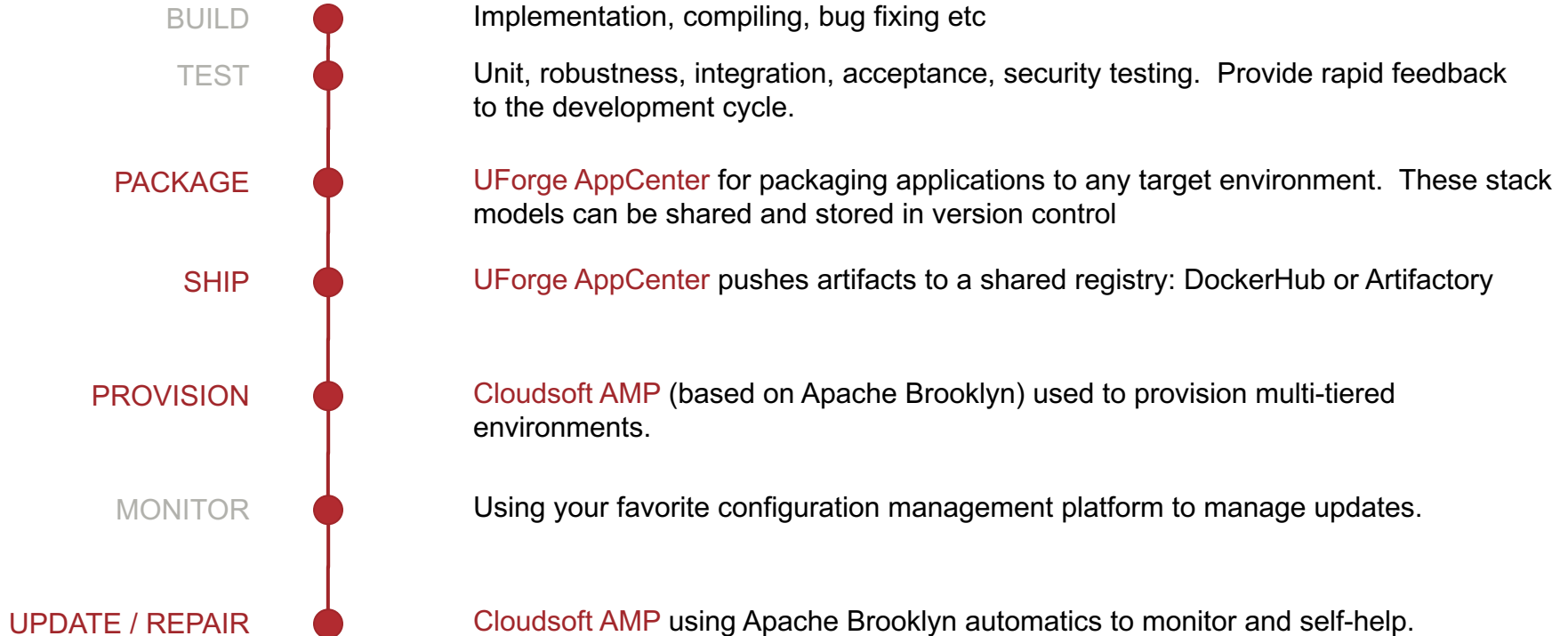
Backup Slides

Base vs Baked



* Hypervisor or environment specific. Must be able to update & maintain these images transparently

Application Release Automation Tools



UForge

Consistency and transparency at each software stack & node

Cloudsoft AMP using Apache Brooklyn

Consistency and transparency of multi-node blueprinting