IBM DevOps for Cloud Paks
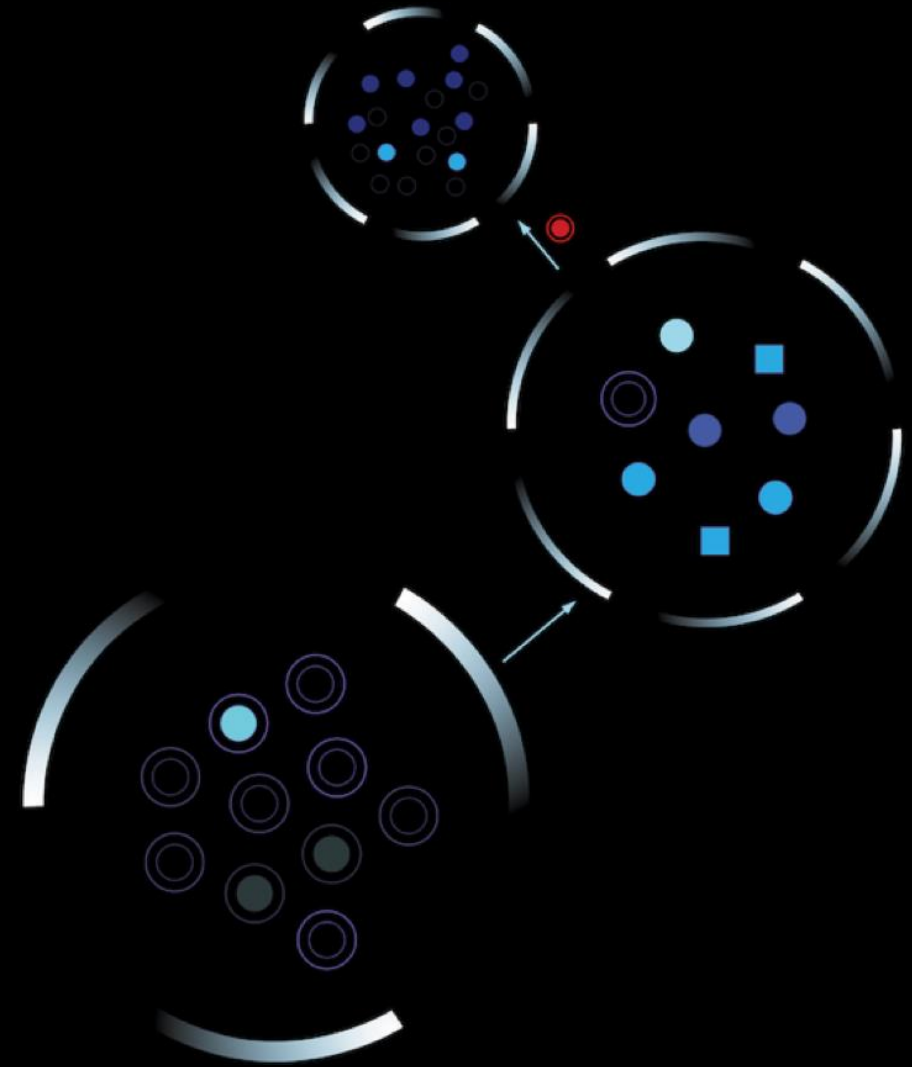
Modernizing application delivery
DevOps governance with flow

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urban{code}

IBM **Cloud**

Organizations shifting workload to the cloud

Run existing apps

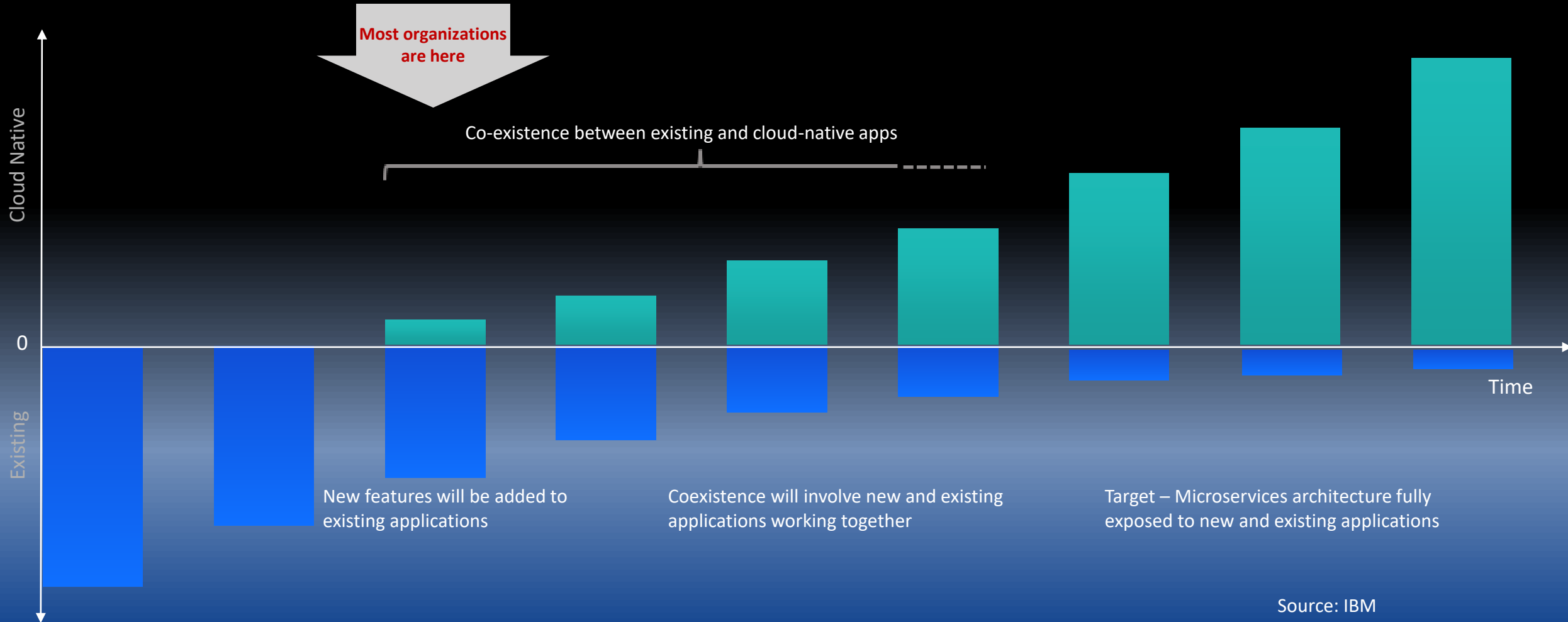Continue to run your apps, where they are.

Modernize existing apps

When apps need to move, IBM has the most experience, tools, and experts to move them

Build new apps

New apps are automatically ready for hybrid-cloud deployment, using the best of open source, fully supported

Existing Apps & Cloud Native will co-exist... *for the next 10+ years*

Most organizations are here

Co-existence between existing and cloud-native apps

Cloud Native

Existing

0

Time

New features will be added to existing applications

Coexistence will involve new and existing applications working together

Target – Microservices architecture fully exposed to new and existing applications

Source: IBM

Organizations are advancing their DevOps capabilities

Day 1: Continuous Delivery Pipeline
▸ Establish an automated, controlled path to production
▸ Starting point for many DevOps transformations. Clear ROI

Development   SCM   Build   Package Repo   Test   Stage   Prod

Day 2: Scale, optimization, acceleration

Enterprise Scale & Insights

- Scale best practices across the enterprise
- Gain visibility to business value across many tools, pipelines and environments
- Support decades of technology platforms from mainframe to VMs to containers
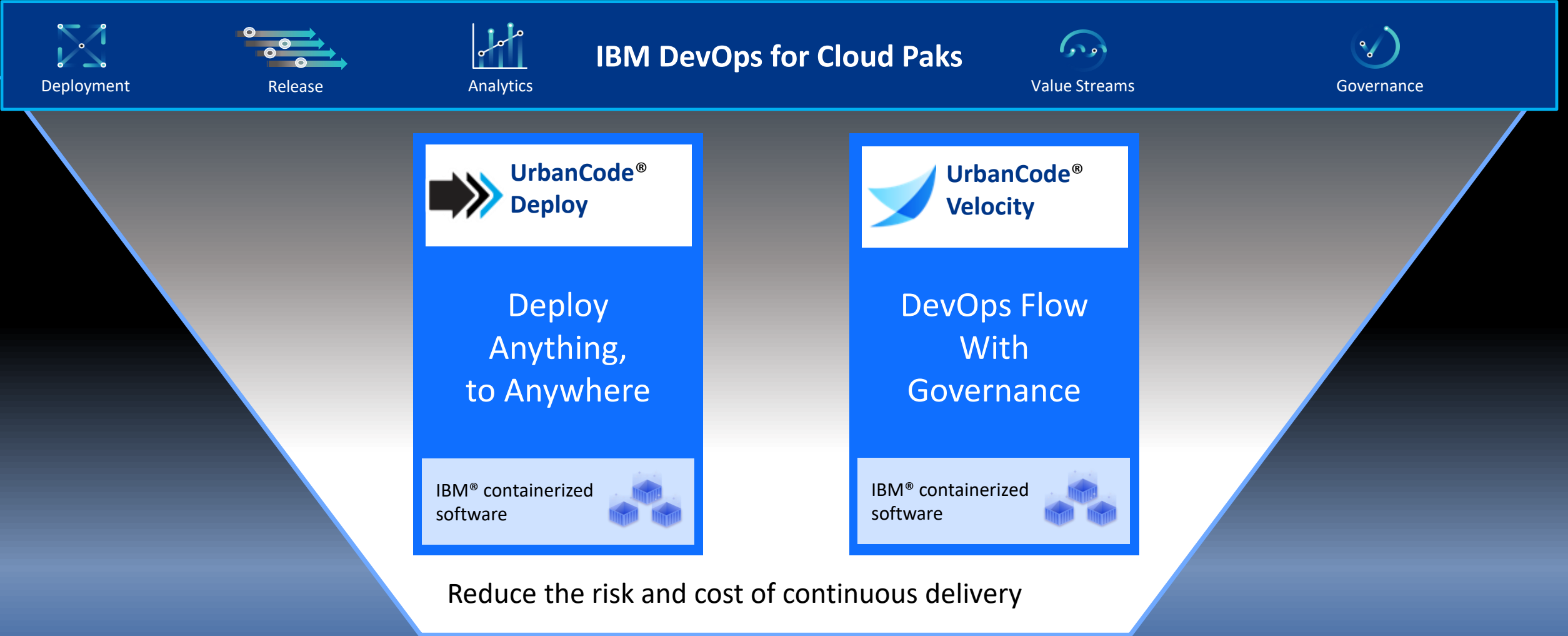
Value Stream Optimization

- Know what's where by reconciling Agile, testing and CI/CD data
- Visualize the flow of work
- Shift security, quality and governance practices left with Smart Gates

Production Release Acceleration

- Increase the frequency of complex releases by simplifying setup and streamlining execution
- Digitize release process: approval flows, implementation plans & orchestrate interactions with systems like ServiceNow and Jira

IBM DevOps for Cloud Paks

IBM DevOps for Cloud Paks

Deployment Release Analytics Value Streams Governance

UrbanCode® Deploy

Deploy
Anything,
to Anywhere

IBM® containerized software

UrbanCode® Velocity

DevOps Flow
With
Governance

IBM® containerized software

Reduce the risk and cost of continuous delivery

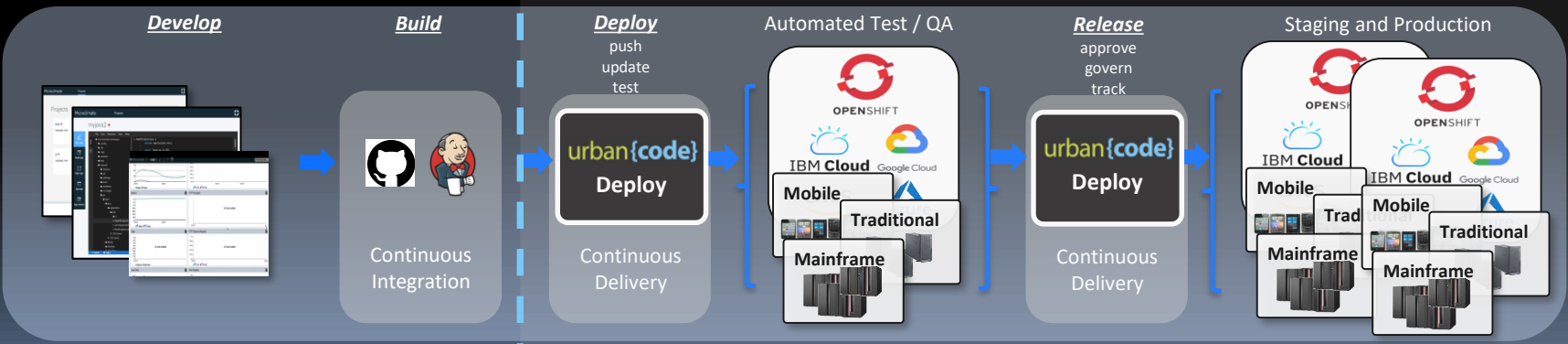*Connects Cloud Native and Traditional on premises*

IBM DevOps provides continuous delivery without boundaries
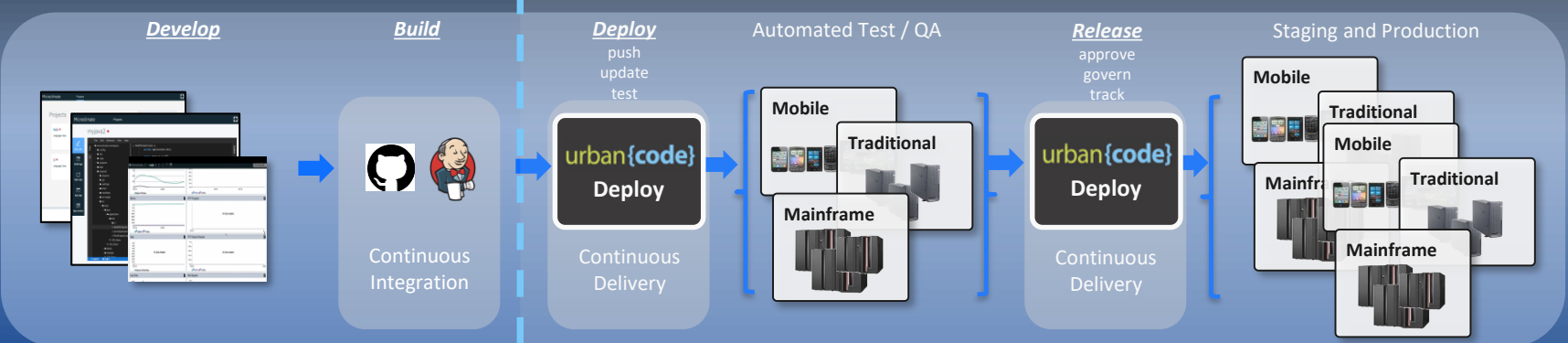

Deploy Anything Anywhere!

Cloud Native
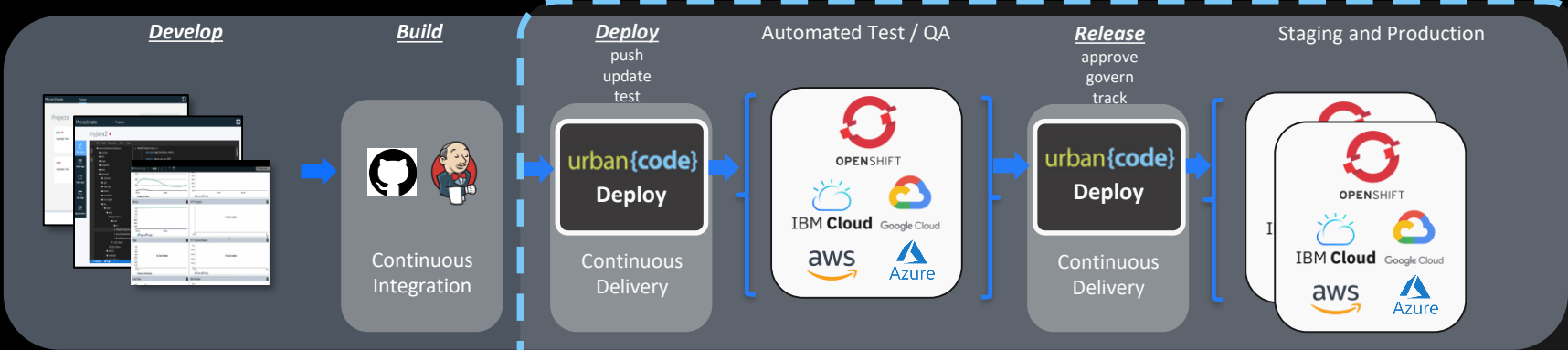
Hybrid Cloud

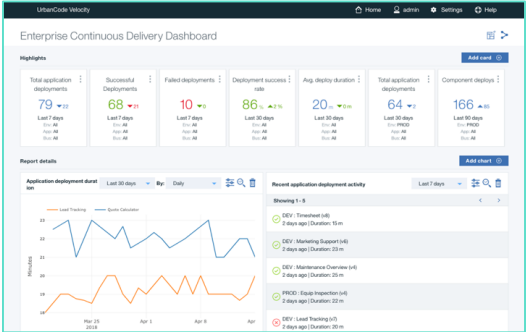**Traditional**

DevOps Governance with Flow!

urban{code} **Velocity**

Why UrbanCode Velocity

UrbanCode Velocity makes data visible and actionable. DevOps governance with FLOW!

Transformation Leaders

Realize the value of hidden continuous delivery data by making it visible and actionable

Development Teams

A single view for all of the team's Pipelines.
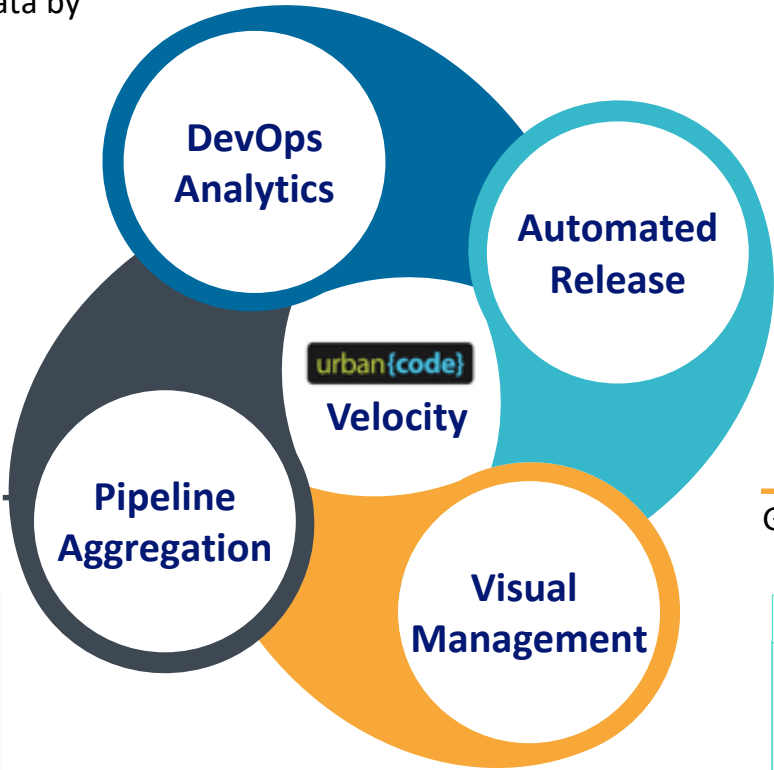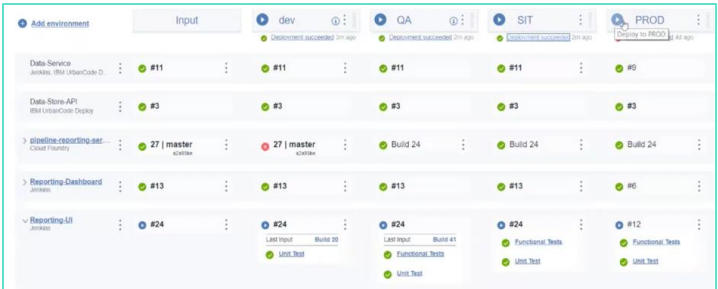
Release Teams

Move to more frequent releases with light-weight release management
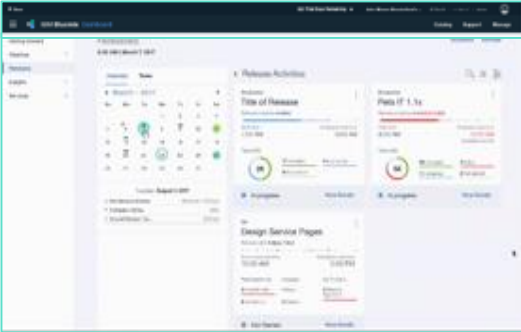
Delivery Team

Go beyond traditional Agile views to provide end-to-end value stream transparency

DevOps Analytics

Automated Release

urban{code} Velocity

Pipeline Aggregation

Visual Management

Why UrbanCode Deploy

UrbanCode Deploy is designed to support the complex enterprise

Lift & Shift automation including moving WAS and IIS apps to Cloud

05

06

Kubernetes container orchestration for **cloud native** microservices

Cloud

Development to Test to Prod Environments

03

04

Full governance for tracking and control

Distributed

Native z/OS support to modernize the mainframe

01

02

Deploy to your existing VMs

Mainframe

From cloud native to distributed to mainframe

UrbanCode Plugin EcoSystem

Integration support for over 300 technologies

urbancode.com/plugins

Complementing the IBM Cloud Paks
Connecting Cloud Native and Traditional on premises

IBM® DevOps for Cloud Paks

Deployment | Release | Analytics | Value Streams | Governance

Cloud Pak for Applications

Developer & DevOps Tools | Modernization Toolkit

Frameworks and Runtimes

Container platform and operational services — **Red Hat** OpenShift

Cloud Pak for Data

Organize | Analyze

Collect

Container platform and operational services — **Red Hat** OpenShift

Cloud Pak for Integration

API Lifecycle | Messaging and Events

App and Data Integration

Container platform and operational services — **Red Hat** OpenShift

Cloud Pak for Automation

Content | Operational Intelligence

Workflow and Decisions

Container platform and operational services — **Red Hat** OpenShift

Cloud Pak for Multicloud Management

Multicluster | App and Infrastructure

Security and Compliance Management

Container platform and operational services — **Red Hat** OpenShift

Cloud Pak for Security

Federated Search and Investigation | Incident Response

Security Orchestration and Automation

Container platform and operational services — **Red Hat** OpenShift

IBM **Cloud** | AWS | MS Azure | Google Cloud | Edge | Private | Systems

IBM DevOps complements Cloud Pak for Applications

IBM Cloud Pak for Applications

IBM DevOps for Cloud Paks

Automate all types of functional, UI, API and performance testing

Multiple plugins. Discover topologies, automate deploys, manage config and upgrade

Virtualize web services to disconnect traditional MW from modernized apps at test time

Out of the box plugin for deployment

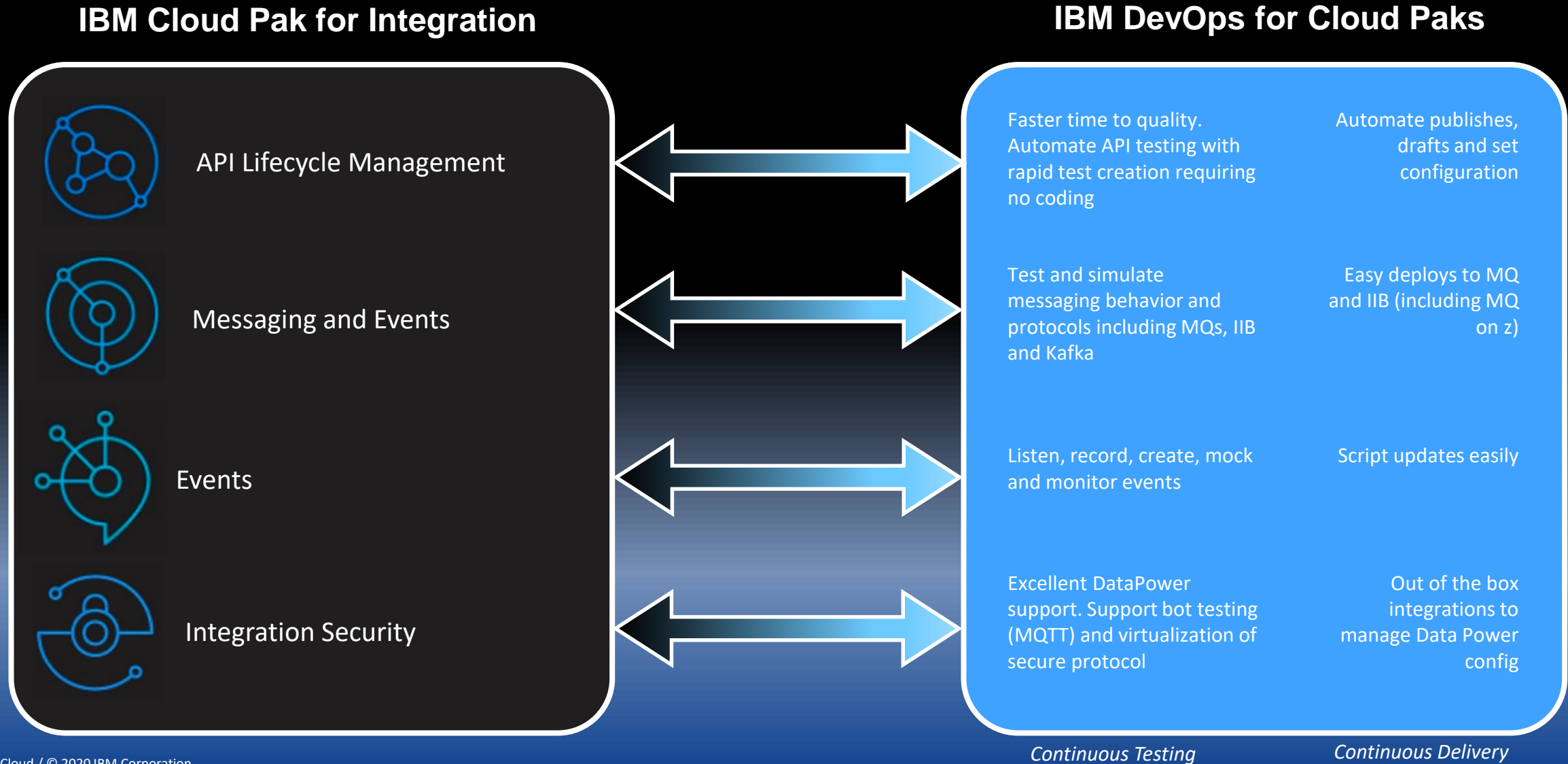Pick up builds for deployment and test them
Trigger Kabanero pipelines

Native and web mobile app testing on device clouds

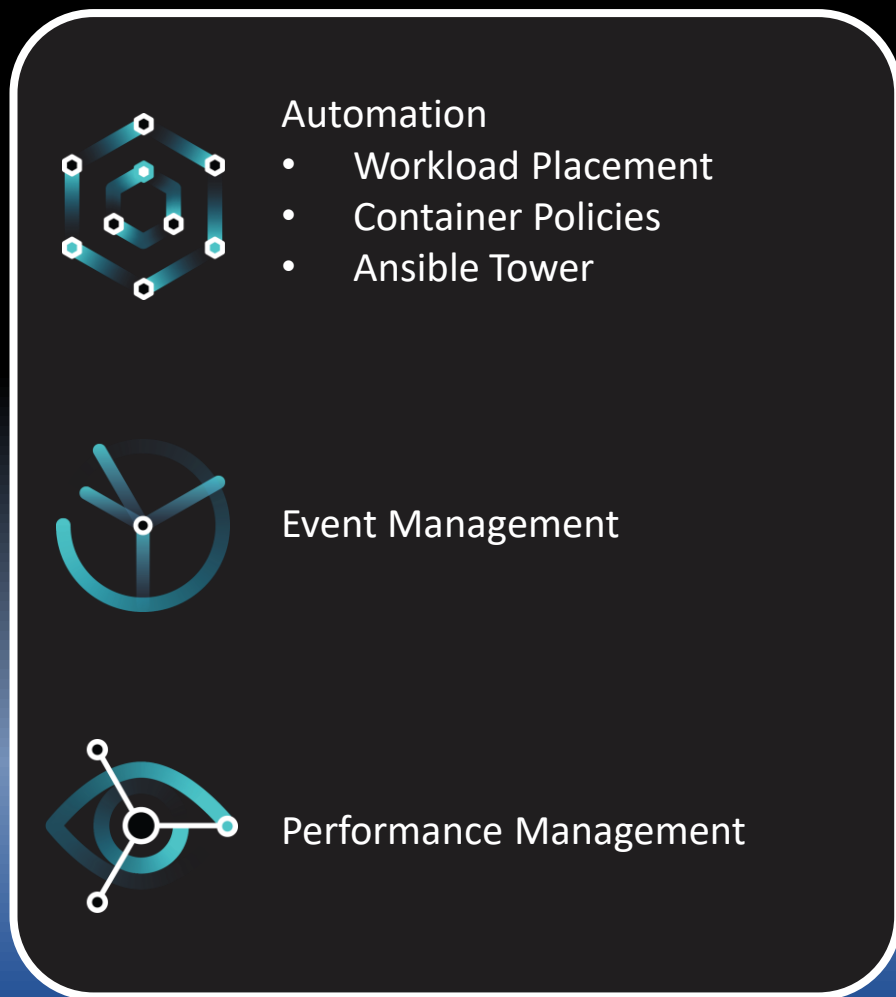Out of the box plugin for deployment

Continuous Testing

Continuous Delivery

IBM DevOps complements Cloud Pak for Integration

IBM Cloud Pak for Integration

API Lifecycle Management

Messaging and Events

Events

Integration Security

IBM DevOps for Cloud Paks

Faster time to quality. Automate API testing with rapid test creation requiring no coding

Automate publishes, drafts and set configuration

Test and simulate messaging behavior and protocols including MQs, IIB and Kafka

Easy deploys to MQ and IIB (including MQ on z)

Listen, record, create, mock and monitor events

Script updates easily

Excellent DataPower support. Support bot testing (MQTT) and virtualization of secure protocol

Out of the box integrations to manage Data Power config

Continuous Testing   *Continuous Delivery*

IBM DevOps complements Cloud Pak for Multicloud Management

IBM Cloud Pak for Multicloud Management

Automation
- Workload Placement
- Container Policies
- Ansible Tower

Event Management

Performance Management

IBM DevOps for Cloud Paks

1) **Bill of Materials** - what versions of policies were used to deploy
2) **Governance** - environment based security, approvals, gates
3) **Auditability** - persisted deployment log and audit
4) **Pipeline Views** - consolidated, application centric views
5) **Inventory Views** - seamlessly "catch" provisioned environments

Automatically notify Cloud Pak for Multicloud Management of Pipeline driven changes

Import Application Performance Monitoring data from within Performance Testing

Continuous Testing   *Continuous Delivery*

Demo

Why IBM DevOps for Cloud Paks?

Business Values

✓ **Govern application release automation:** Invest in one enterprise deployment automation tool that tracks who deployed what where when. Be audit ready.

✓ **One tool to deploy changes to any platform or application:** A single solution for application release automation across traditional VMs, container services, z Systems, and both public and private cloud.

✓ **Scale deployments to the size of the enterprise.** Deploy applications to 10s of thousands of endpoints, run millions of deployments.

✓ **Use Value Stream Management** to find bottlenecks in the continuous delivery process and gain data driven insights.

Deliver Software anywhere faster

Don't sacrifice quality or security

Governance and Flow that scales

Quantifiable Benefits

✓ 75% faster deployment times, resulting in faster time-to-market for new features and services.

✓ Reduced cost of a release by up to 97%.

✓ Improved stability via repeatability and standardization of the deployment process.

✓ Increased visibility into the release process.

✓ Improved customer satisfaction

Why IBM?

✓ Deployment support for multiple platforms and application types (cloud native, traditional VM, and z Systems)

✓ **Use tools you already have.** 100s of integrations leverage your existing application delivery investments.

✓ Offers **first class support** for Red Hat OpenShift as well as highly certified common services incl. monitoring, logging & security

For more information, visit our website: https://www.urbancode.com/resource/the-total-economic-impact-of-ibm-urbancode/

Questions?

Thank You!