



# The Openshift Journey at Broadcom

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November 18, 2019



# Why Openshift?

## Application Architecture

Monolithic



N-Tier

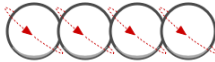


**Microservices**



## Development Process

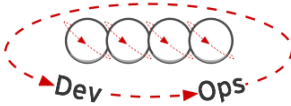
Waterfall



Agile



**DevOps**



## Application Infrastructure

Datacenter



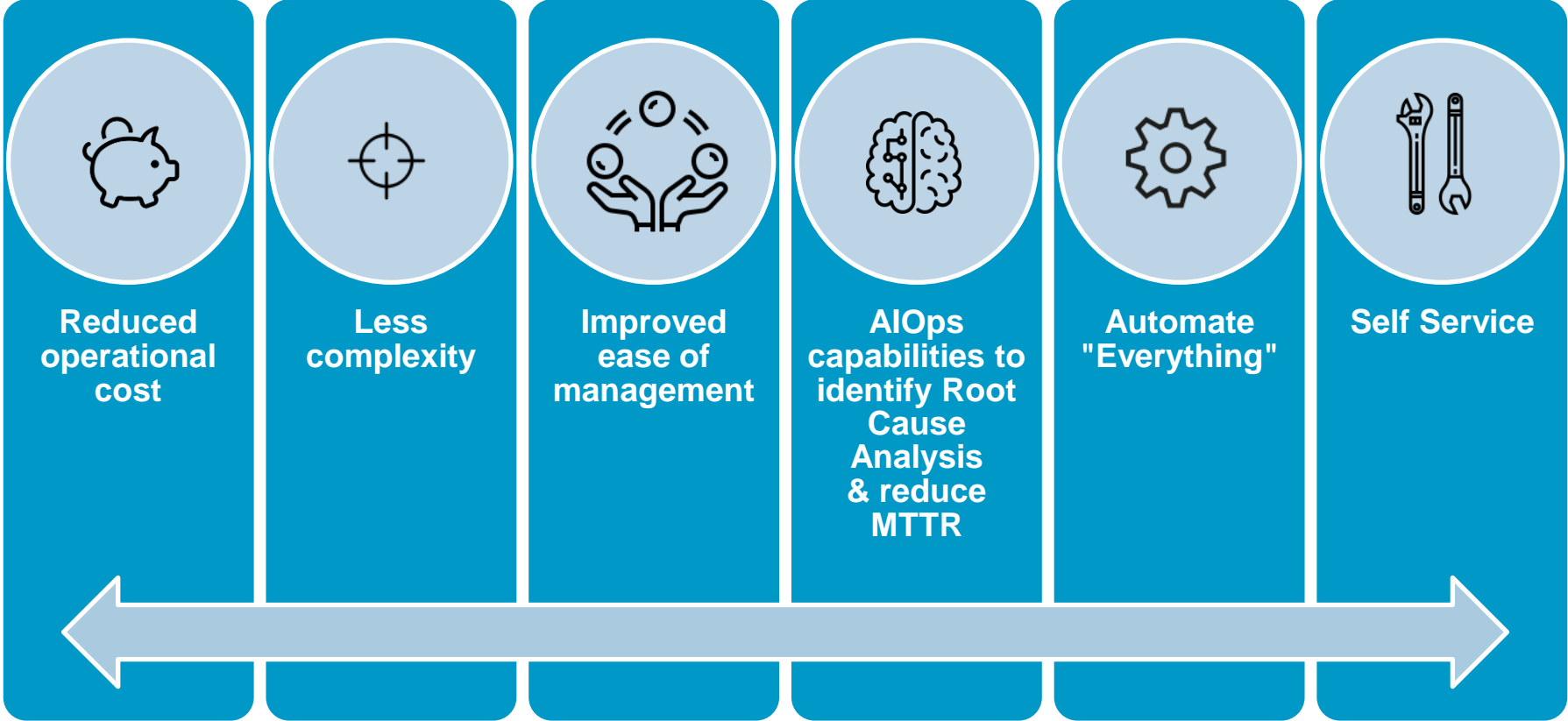
Hosted



**Cloud**



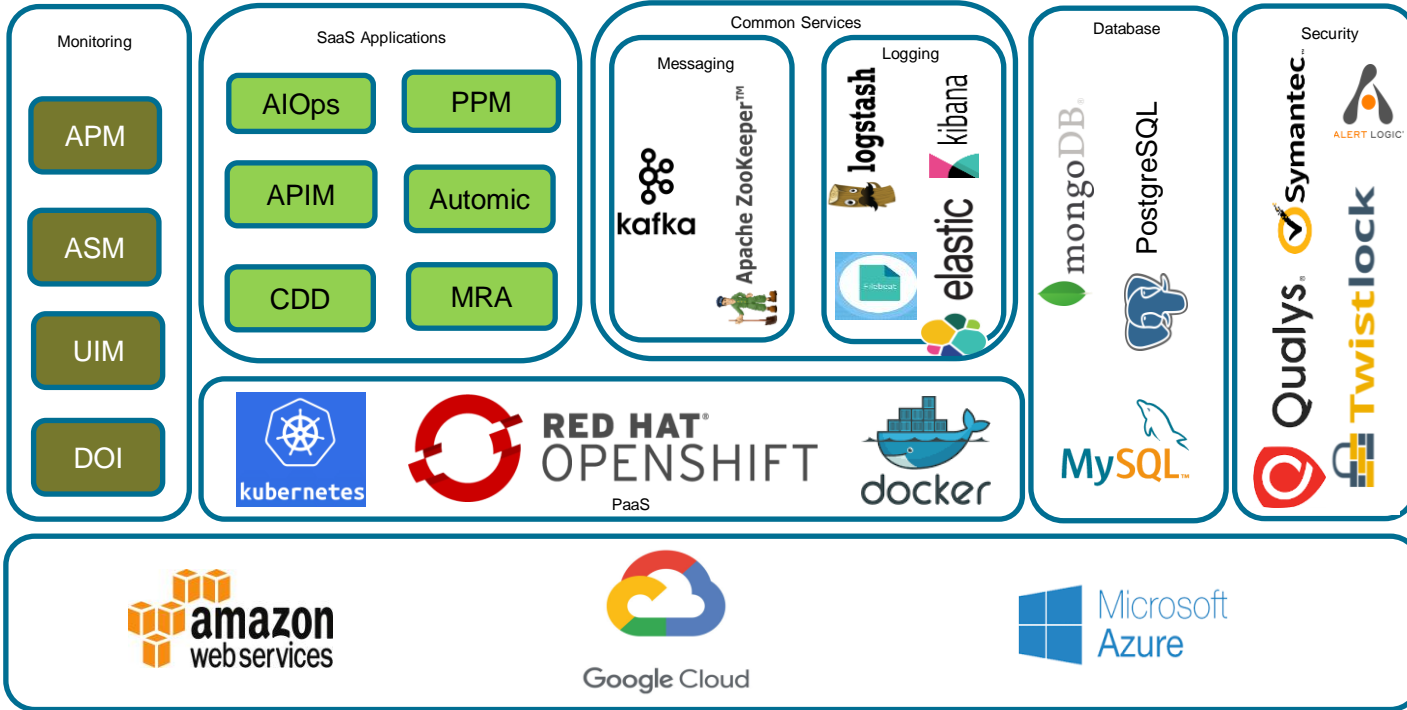
# Goals for SaaS Delivery



## Why OpenShift?

- One of the initial adopters of RedHat OpenShift since 2012
- Broadcom CA and RedHat partnership in building internal PaaS
- OpenShift adopted Docker and Kubernetes:
  - Docker brings de facto standard container technology
  - Kubernetes is a proven container orchestration platform
  - RedHat provided web console, RBAC, self- service templates, security, and more
- OpenShift today runs on multiple public clouds and in the private cloud

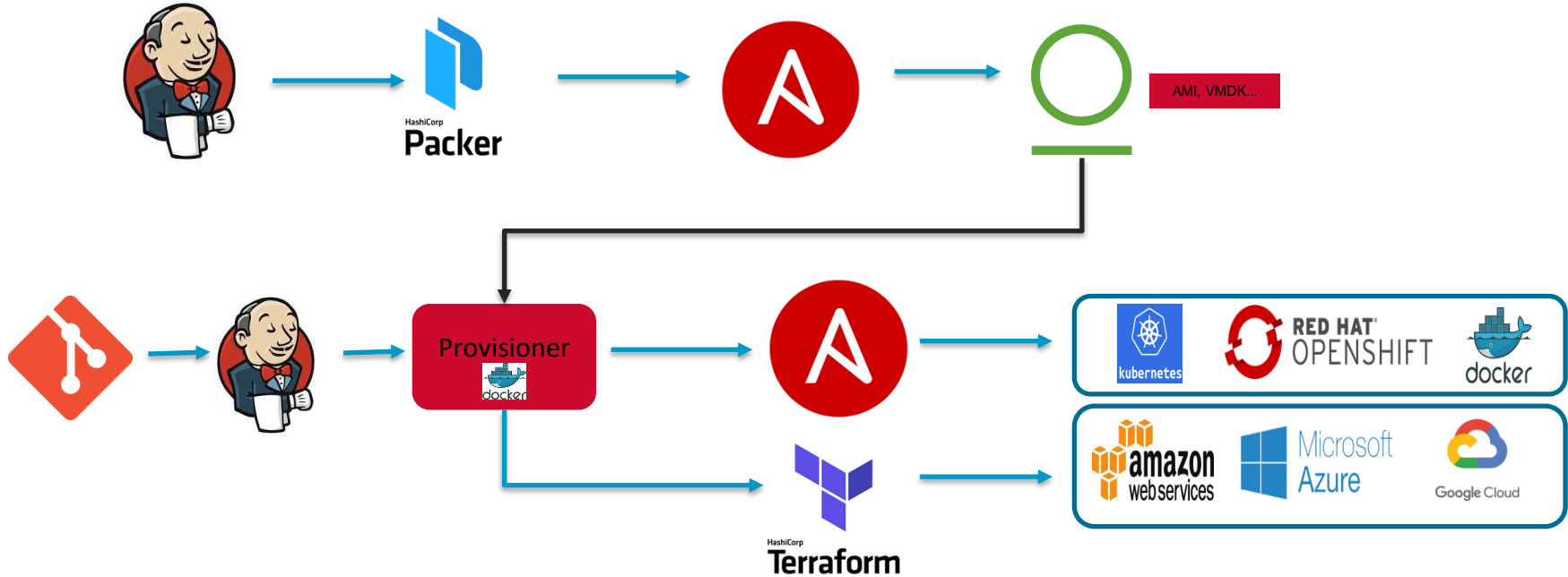
# Technology Stack



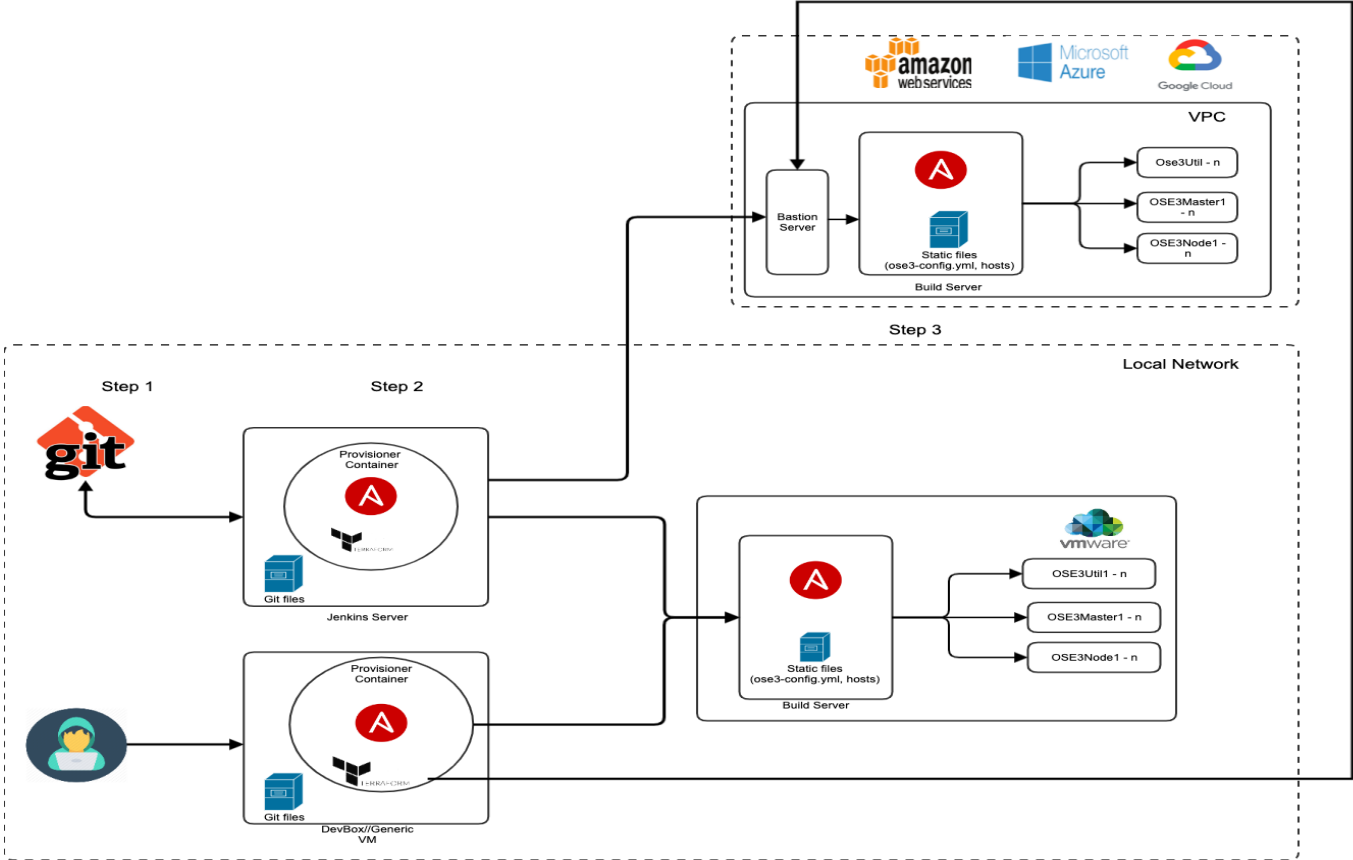
# Workload on Openshift

- Web applications
- Project and Portfolio management
- Continuous Delivery management
- Data Science platform
- Payment Security applications
- Enterprise Security applications
- Analytics
- AI Operations

# Provisioner

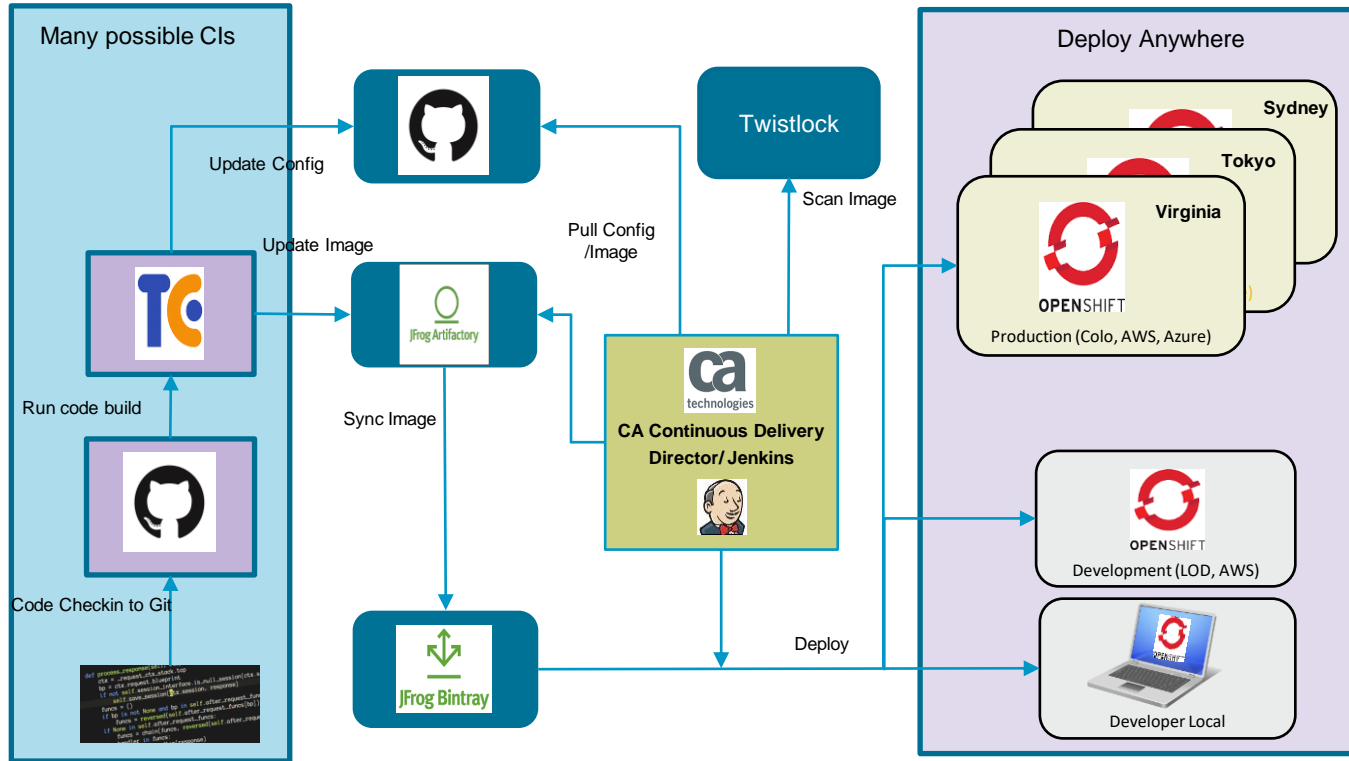


# Platform Provisioning, The GitOps Way





# CD Pipeline, The GitOps Way



## Where we're headed

- Leverage Kubernetes operators for deploying and managing services
  - MySQL
  - PostgreSQL
  - Elasticsearch
  - Kafka
- Shift developer focus from managing dependent services/apps to focusing on core application development
- Incorporate a service mesh to standardize security
- Multi-cluster management

## OKD Asks

- OKD needs to retain focus on 4.x as it did with 3.x
- The size of Openshift has increased significantly with OpenShift 4.2 and CodeReadyContainers causing performance issues on local installs
- Simplify the upgrade process



# Thank You



