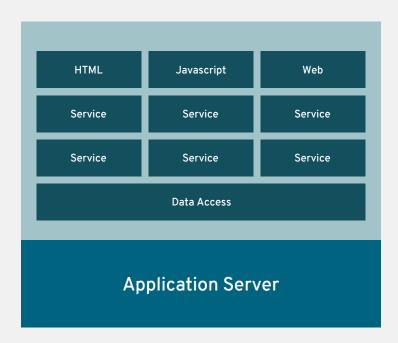


CLOUD-NATIVE ROADSHOW

DEVELOPER TRACK



MONOLITHIC ARCHITECTURE





CLOUD-NATIVE APPS BUILDING APPLICATIONS FOR THE CLOUD

WHY CLOUD-NATIVE APPS?



FASTER SERVICE DELIVERY



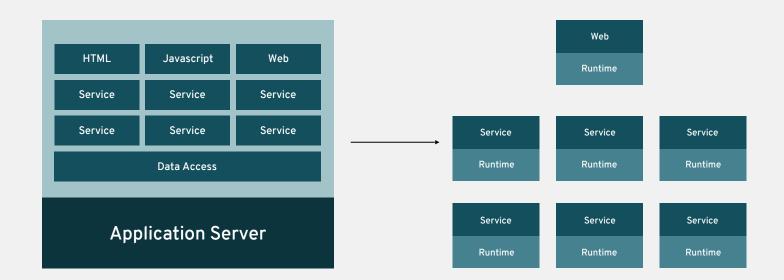
INCREASE SERVICE QUALITY



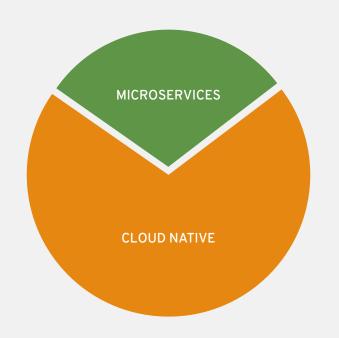
REDUCE RISK OF DELIVERY



MICROSERVICES ARCHITECTURE



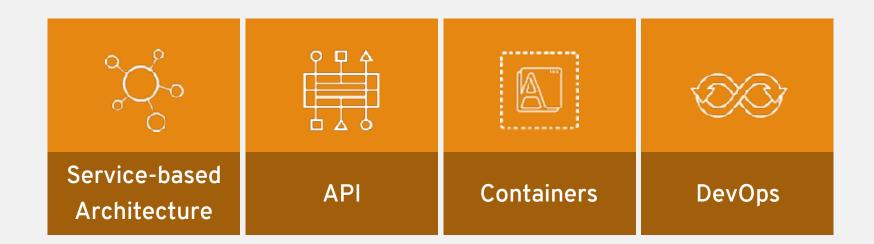




CLOUD-NATIVE IS MUCH MORE THAN YOUR APPLICATION ARCHITECTURE



CLOUD-NATIVE APPLICATIONS





THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM





THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM





THE FAST MONOLITH

- Refactored to REST and JavaScript
- Adopted Container on Red Hat OpenShift
- Automated Testing
- Redefined Dev and Ops Boundaries
- Continuous Deployment Pipeline
- Zero Downtime Release to Production
- Release Cycles From 3 months to 1 Week





THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM

RE-ORG TO DEVOPS

SELF-SERVICE ON-DEMAND INFRA

AUTOMATION DELIVERY

CONTINUOUS DELIVERY

ADVANCED DEPLOYMENT TECHNIQUES

FAST MONOLITH



BUT CLOUD NATIVE ISN'T JUST TECHNOLOGY

Cloud Native is structuring

teams, culture, and technology

to utilize automation and architectures to

manage complexity and unlock velocity

- Joe Beda, CTO of Heptio



THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM





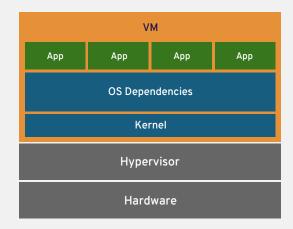


A secure and enterprise-grade container application platform based on **Kubernetes** for traditional and cloud-native applications



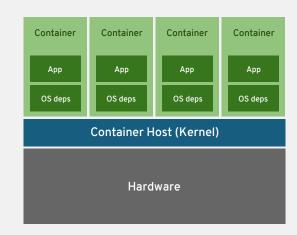
WHAT IS A CONTAINER?

VIRTUAL MACHINES



virtual machines are isolated apps are not

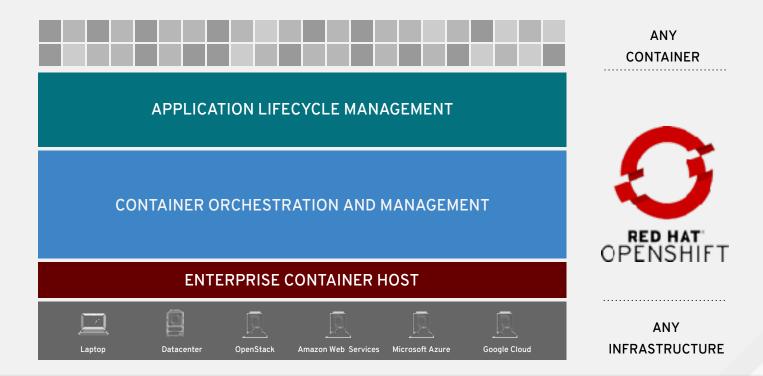
CONTAINERS



containers are isolated so are the apps

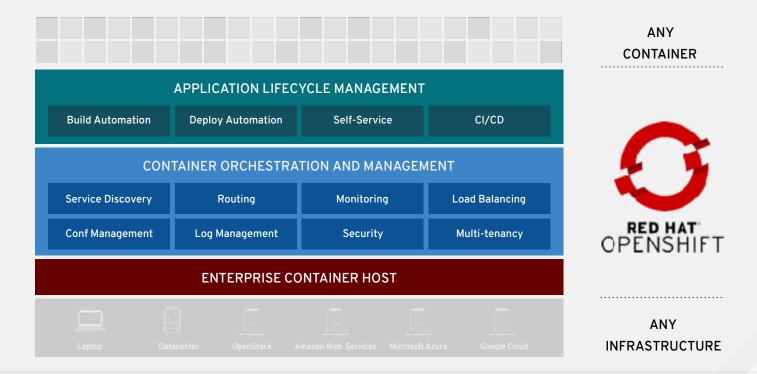


CLOUD-NATIVE CAPABILITIES WITH RED HAT OPENSHIFT





CLOUD-NATIVE CAPABILITIES WITH RED HAT OPENSHIFT





COMMUNITY-POWERED INNOVATION









































BUILD AND DEPLOY CONTAINER IMAGES ON OPENSHIFT







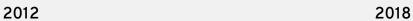


CLOUD-NATIVE EVOLUTION

Microservice	
Business Logic	
Service Discovery	Load Balancing
Circuit Breaker	Traffic Control
Monitoring	Tracing
Netflix OSS	
Config Server	Security Policies
Service Registry	Traffic Control
Monitoring	Tracing
API Magenement	Smart Routing
Platform	

Connect, Manage, and Secure Microservices with Istio on OpenShift



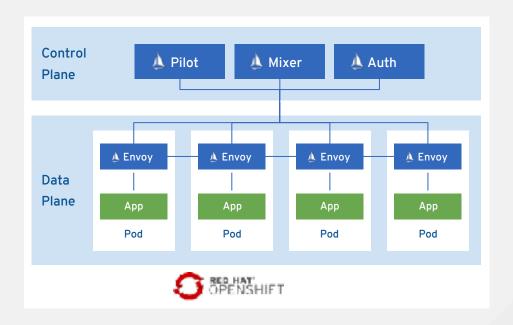




ISTIO SERVICE MESH

A Service Mesh to Connect, Manage, and Secure Microservices, transparently

- Intelligent Routing
- Load Balancing
- Service Resilience
- Telemetry and Reporting
- Policy Enforcement





THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM

RE-ORG TO DEVOPS

SELF-SERVICE ON-DEMAND INFRA

AUTOMATION DELIVERY

CONTINUOUS DEPLOYMENT TECHNIQUES

MICROSERVICES

MICROSERVICES

MICROSERVICES

MONOLITH



CLOUD-NATIVE RUNTIMES



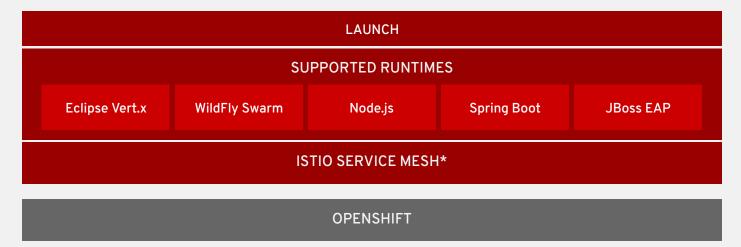












Modern, Cloud-Native Application Runtimes and an Opinionated Developer Experience

* coming soon





An immersive residency for teams of 3 -6 people to rapidly build applications, experience Devops, and learn how to develop cloud native apps



OUR PROCESS





PICTURE YOURSELF AT LABS

APPLY DEVOPS TO A REAL BUSINESS NEED



DECIDE WHICH JOURNEY



DESIGN THE PLAN



BEGIN DEVELOPMENT



EVALUATE PROGRESS



DEMO THE RESULTS



PLAN THE STRATEGIC ROADMAP



BE THE CATALYST FOR INNOVATION

DRIVE A CULTURE OF INNOVATION

THROUGH A SPACE THAT FOSTERS COLLABORATION



INNOVATE ANYWHERE

- Purpose-driven
- Collaborate and make
- Network and share
- Flex and adapt
- Rejuvenate and connect





THANK YOU













ACCESS VIA WEB, CLI, IDE AND API

