The Containers and Cloud-Native Roadshow Developer Track

A hands-on experience for developers
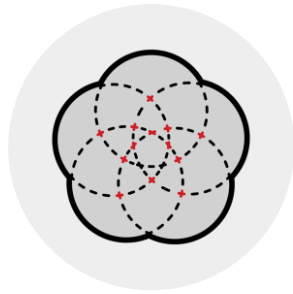
Software driven innovation explosion

The IDC predicts that from 2018 to 2023,

500 million new logical apps will be created,

equal to the number built over the past 40 years.

How do you drive innovation to meet these expectations while keeping the lights on?
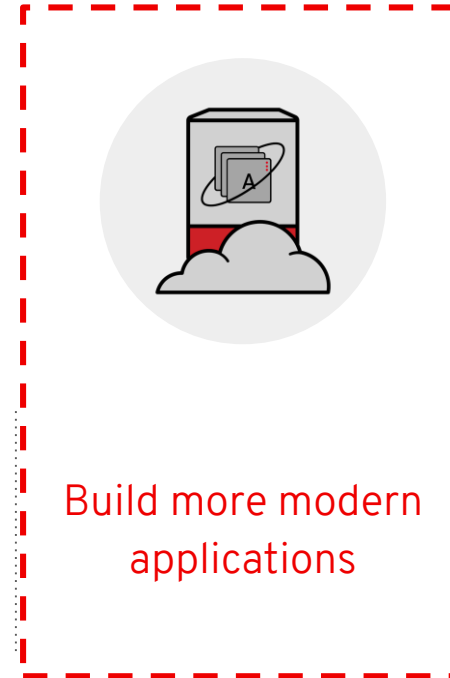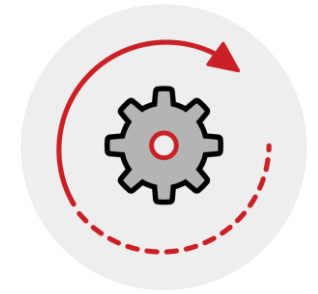
Optimize the IT you have

Integrate apps, data, & processes

Add & manage cloud infrastructure
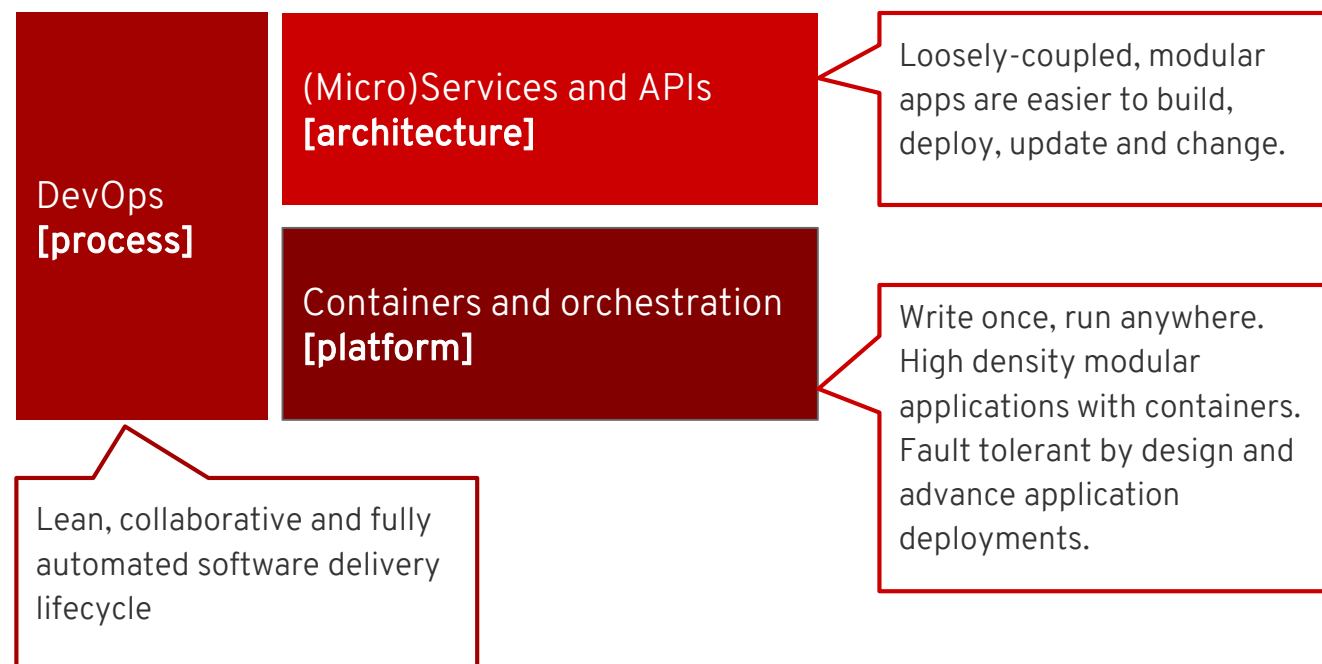
Build more modern applications

Automate & manage IT

Leveraging the cloud becomes a key strategy for success

A new Innovation model is required to keep pace with business change

Cloud Native Development

Applications adopting the principles of

DevSecOps CICD practices to create

(Micro)Services packaged as

Containers orchestrated by

Platforms running on top of

Cloud infrastructure

DevOps
[process]

(Micro)Services and APIs
[architecture]

Containers and orchestration
[platform]

Loosely-coupled, modular apps are easier to build, deploy, update and change.

Write once, run anywhere. High density modular applications with containers. Fault tolerant by design and advance application deployments.

Lean, collaborative and fully automated software delivery lifecycle

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Wir unternehmen IT

Red Hat

WHY CLOUD-NATIVE APPS?

FASTER
SERVICE DELIVERY

INCREASE
SERVICE QUALITY

REDUCE
RISK OF DELIVERY

BUT CLOUD NATIVE ISN'T JUST TECHNOLOGY

In most organizations, Dev and Ops have misaligned goals. Dev is measured by the number of new features. Ops is measured by 100% uptime.

Question: What's the best way to get 100% uptime?

Answer: Don't introduce any new features or make any changes.

THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM

RE-ORG TO DEVOPS

SELF-SERVICE ON-DEMAND INFRA

AUTOMATION

CONTINUOUS DELIVERY

ADVANCED DEPLOYMENT TECHNIQUES

MICROSERVICES

FAST MONOLITH

RED HAT CLOUD-NATIVE DEV PLATFORM

Our vision is to simplify the creation of cloud-native services and serverless functions with a rich set of components and tools to match the **workloads** of modern cloud native apps.

Automate Kubernetes application operations with DevOps in mind	Cloud-native middleware applications services and service mesh	Tools and standard processes to increase developer productivity on Kubernetes

RED HAT® OPENSHIFT® Container Platform

RED HAT® MIDDLEWARE

RED HAT® CODEREADY
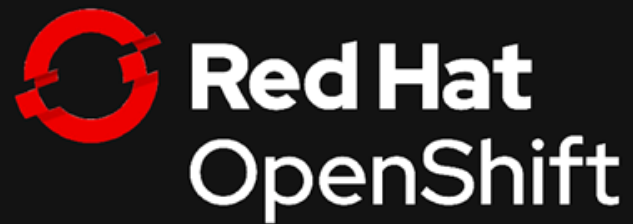
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OpenShift

Automate Kubernetes application operations with DevOps in mind

Trusted enterprise Kubernetes

Trusted host, content, platform
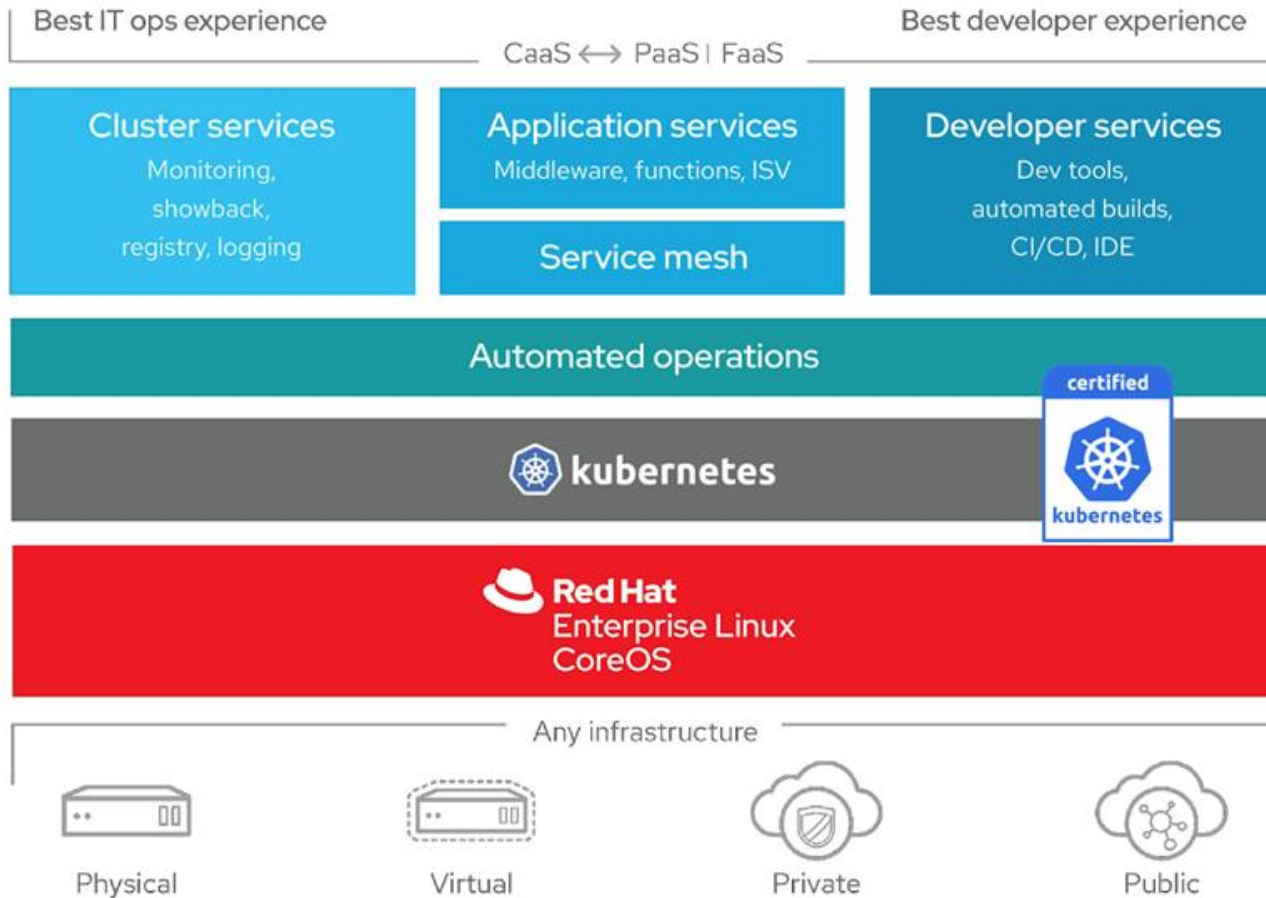
Full-stack automated installation

Seamless updates

Red Hat OpenShift

OpenShift 4 - A smarter Kubernetes platform

Best IT ops experience

Best developer experience

CaaS ⟷ PaaS | FaaS

Cluster services
Monitoring, showback, registry, logging

Application services
Middleware, functions, ISV

Service mesh

Developer services
Dev tools, automated builds, CI/CD, IDE

Automated operations

⚙ **kubernetes**

certified

kubernetes

Red Hat Enterprise Linux CoreOS

Any infrastructure

Physical

Virtual

Private

Public

Automated, full-stack installation from the container host to application services

Seamless Kubernetes deployment to any cloud or on-premises environment

Autoscaling of cloud resources

One-click updates for platform, services, and applications

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# OpenShift enables developer productivity
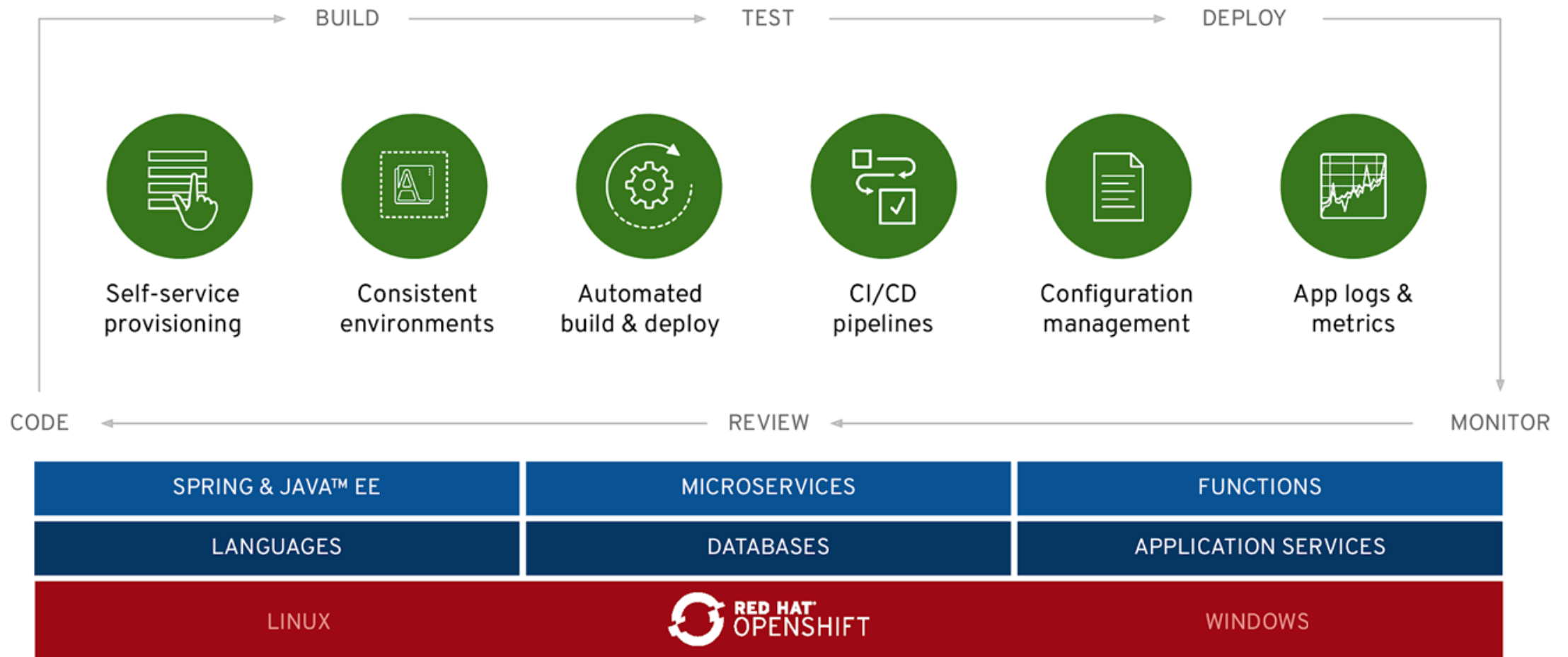
Building next-gen applications

OpenShift Service Mesh

- Integrated Service Mesh for enhanced security and network segmentation of microservices applications. Combines Istio, Kiali (UI), and Jaeger (Tracing) projects.

OpenShift Serverless

- Integrated serverless, enabling scale-to-zero FaaS services and event sources - built on the Knative framework.
- Support for Azure Functions
- Integrated with Camel-k for rich set of initial event sources: HTTP, Kafka, AMQP
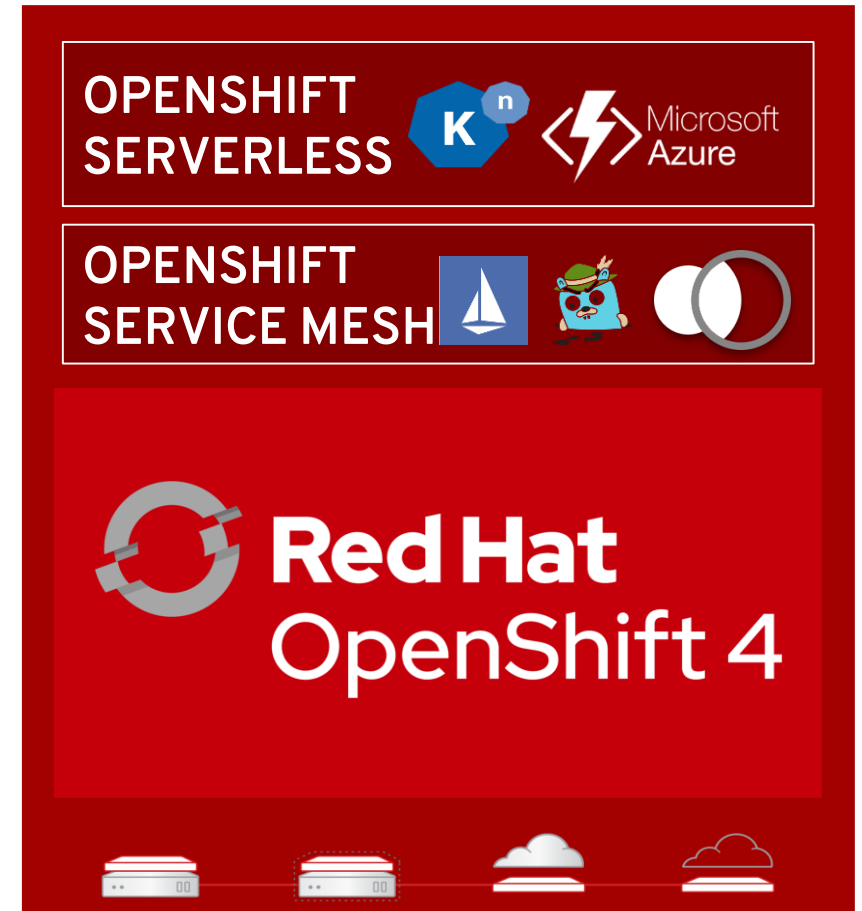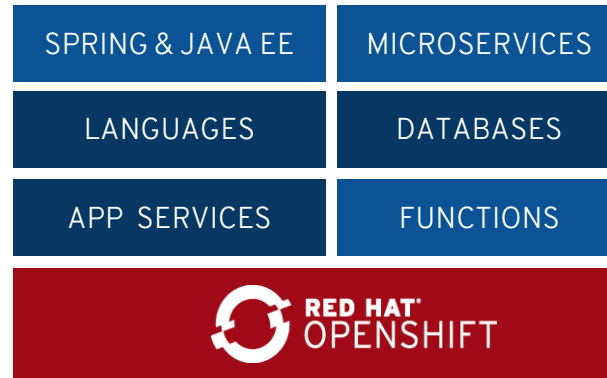
Red Hat Middleware

Capabilities to support cloud-native application environments
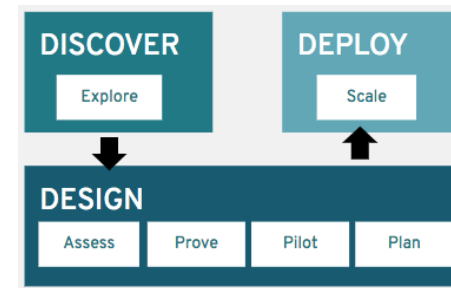
MIDDLEWARE ON OPENSHIFT

Why is **Red Hat** the best choice for cloud-native applications?

Standardize on a set of best-of-breed open source runtimes and frameworks

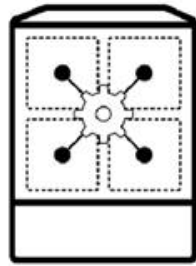Simplify development thru native integration with OpenShift and Kubernetes Services

Support modernization initiatives at any speed with lift and shift, replatform and refactor

Match application requirements to polyglot runtime/framework ("right tool for the right job")

Why customers choose Red Hat OpenShift

Trusted enterprise Kubernetes

Cloud-like experience everywhere

Empowering developers to innovate

Open source innovation

Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

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youtube.com/user/RedHatVideos

facebook.com/redhatinc

twitter.com/RedHat