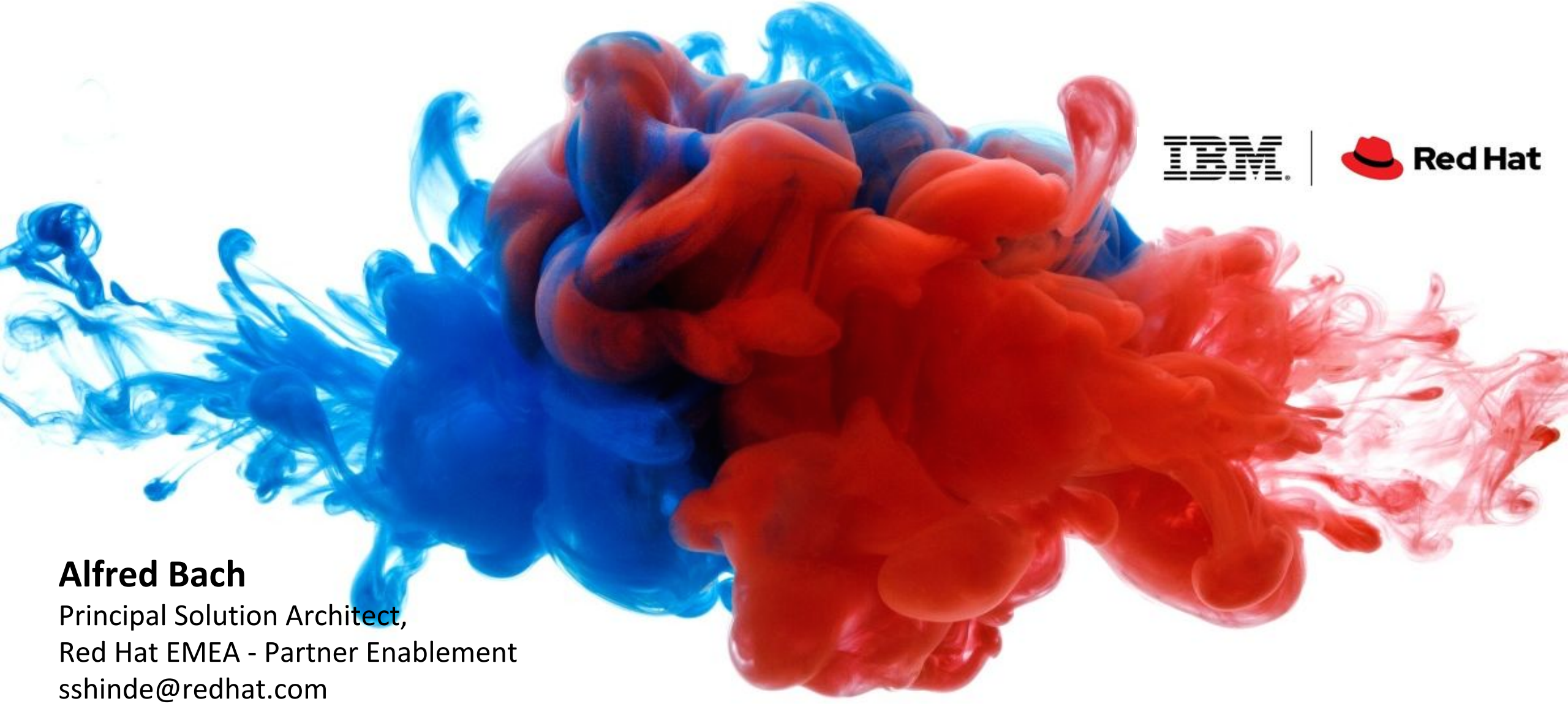
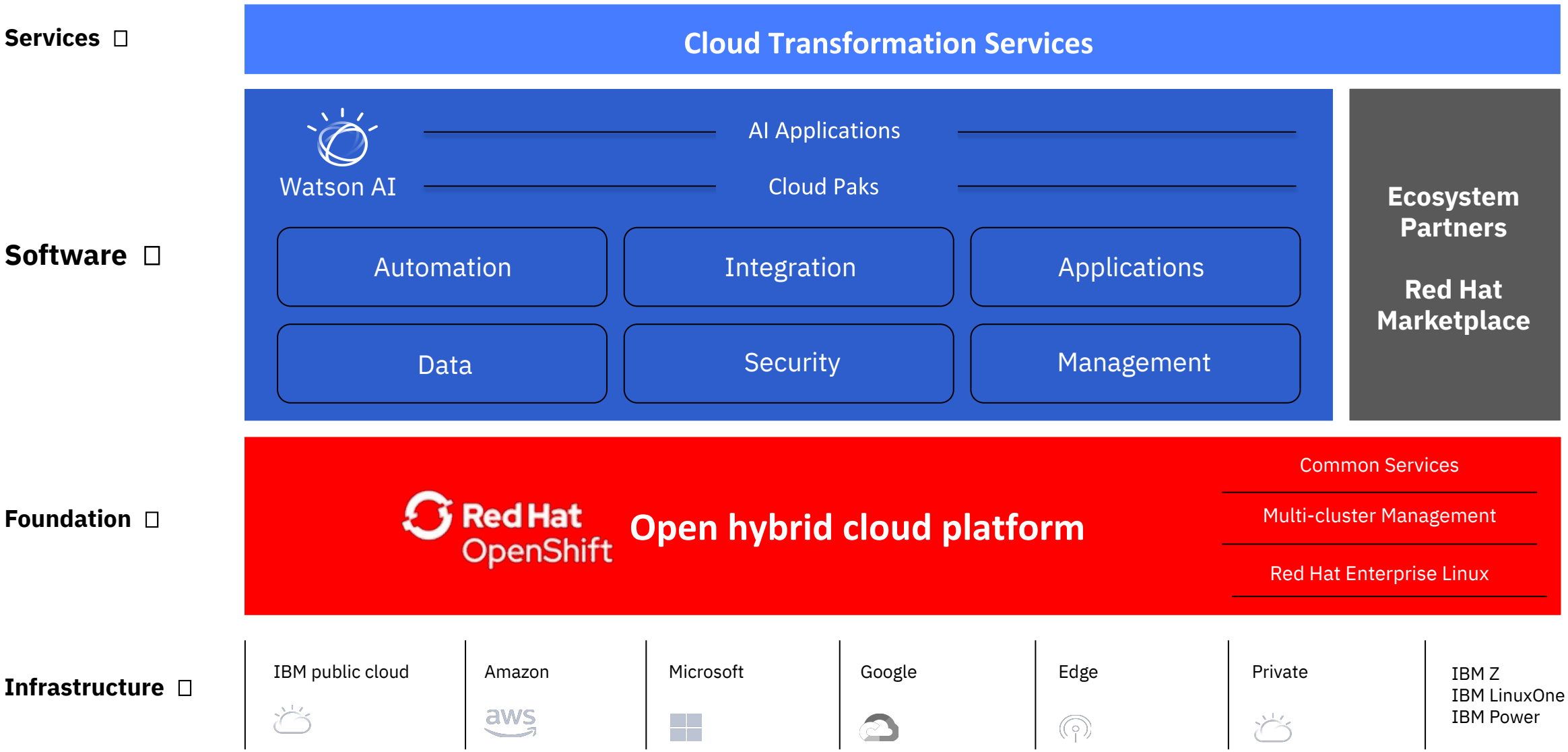
# *Product Strategy & Roadmap Update*

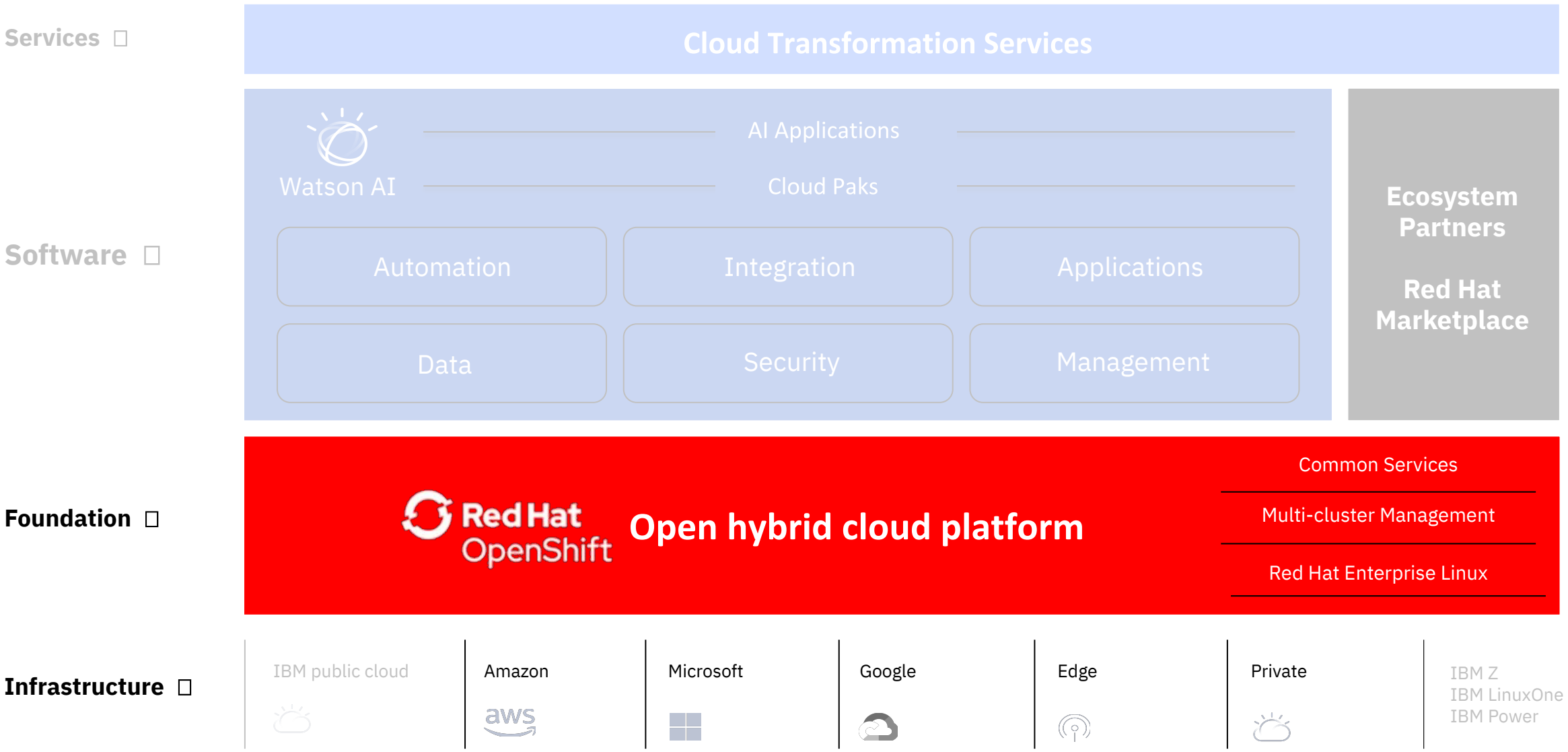


**Alfred Bach**
Principal Solution Architect,
Red Hat EMEA - Partner Enablement
sshinde@redhat.com

# IBM / Red Hat Hybrid Cloud is the Future Architecture for Enterprise IT



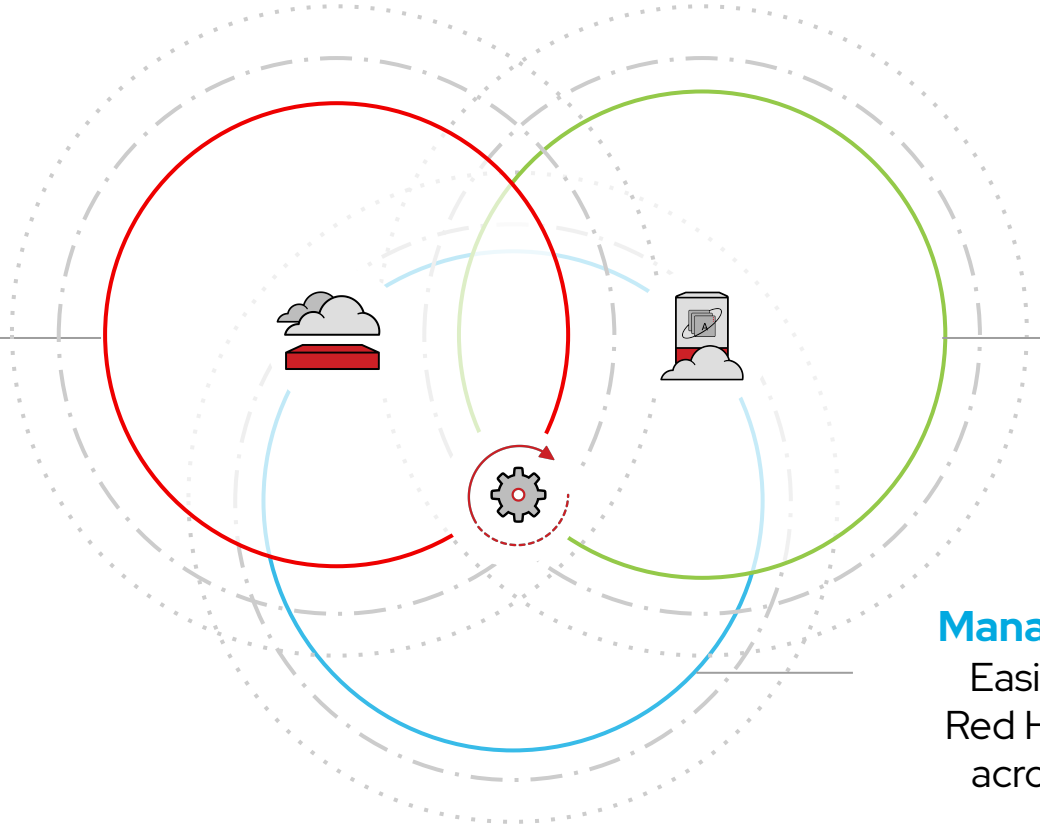
# IBM / Red Hat Hybrid Cloud is the Future Architecture for Enterprise IT



# Open Hybrid Multi-Cloud with RHEL and OpenShift at the core

Red Hat's strategy and vision for its portfolio of software, tools, and services built using the open source development model and designed for future architectures that are open, secure, and agile across hybrid, multicloud

**Hybrid cloud infrastructure**
Secure, scale, & manage foundations for traditional & cloud workloads across **all environments**



**Cloud-native development**
Develop, deploy, & manage any application, on any environment & give developers what they need to innovate

**Management & automation**
Easily & seamlessly manage Red Hat platforms & automate across hybrid environments

# OpenShift



Red Hat

# OpenShift 4.6

## NEW INSTALLER PLATFORMS

Bare Metal IPI

AWS and Azure Gov Clouds

Disconnected Update Intelligence

## CORE PLATFORM

Remote Worker Nodes

Real Time and Low Latency

OVN (GA)

Compliance Operator (GA)

## WORKLOAD STABILITY

User Workload Monitoring (GA)

Log Forwarding API (GA)

Serverless Eventing (GA)

# More than 2,000 Red Hat OpenShift customers


Modernize apps


Web apps


Cloud-native dev


Multicloud


Mobile


Big data | Analytics


AI | ML


IoT



Red Hat

# Edge Computing



Red Hat

# Red Hat Platforms for the edge



**Red Hat Enterprise Linux**

**Small footprint edge OS**

Memory constrained edge servers/IoT Gateways

- Nov 2020

**Red Hat OpenShift**

**Single node edge servers**

Low bandwidth or disconnected sites.

- 2021

**Remote worker nodes**

Space constrained environments

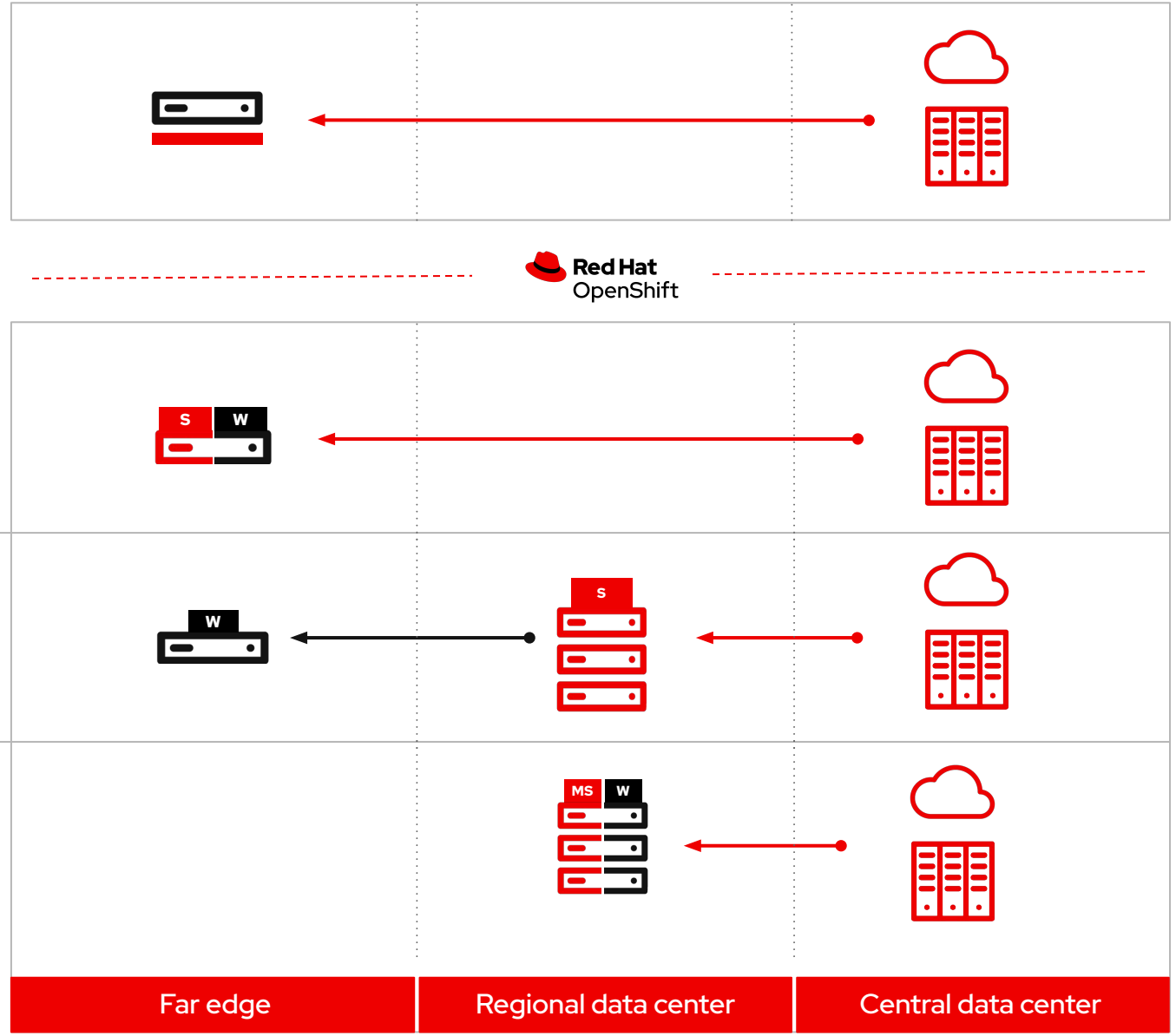
- Nov 2020

**3 Node Clusters**

Small footprint with high availability.

- Today

**Red Hat Management**




Cluster management and application deployment

Kubernetes node control



Red Hat | IBM

# Red Hat Enterprise Linux for the Edge

## Ensured stability and deployment flexibility

### Quick image generation

Easily create purpose-built OS images optimized for the architectural challenges inherent at edge

### Remote device update mirroring

Staged and applied image updates occur at the next reboot or power cycle, ensuring minimal downtime

### Efficient over-the-air updates

Updates transfer significantly less data and are ideal for remote sites with limited or intermittent connectivity

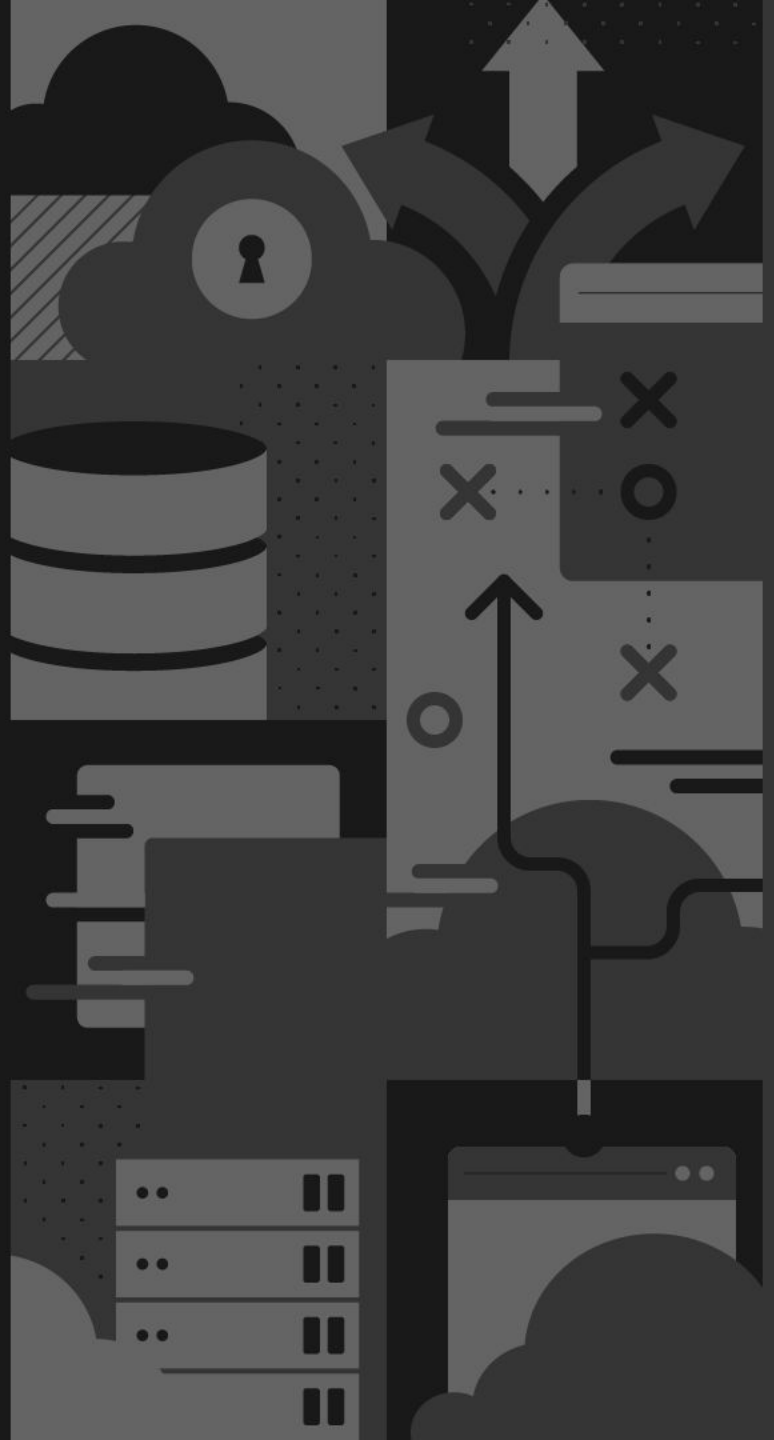
### Intelligent rollbacks

Application specific health checks detect conflicts and automatically revert an OS update, preventing downtime



Source: Edge Roadmap: Available Soon

Red Hat Tech Ready Presentation



# Operations & Management



Red Hat

# Ansible Automation Platform

## Growth by the numbers

**2M**

downloads per month

**2K**

customers

**4K**

modules

**7th**

of 96M projects on GitHub by contributors

**4M+**

systems managed by Red Hat

Source:

https://www.redhat.com/en/about/press-releases/red-hat-ansible-automation-accelerates-past-major-adoption-milestone-now-manages-more-four-million-customer-systems-worldwide

https://www.ansible.com/products/automation-platform


# Red Hat named a Leader in The Forrester Wave™

Infrastructure Automation Platforms, Q3 2020

**Received highest possible score** in the criteria of:

- Deployment functionality
- Product Vision
- Partner Ecosystem
- Supporting products and services
- Community support
- Planned product enhancements

- "Ansible continues to grow quickly, particularly among enterprises that are automating networks. The solution excels at providing a variety of deployment options and acting as a service broker to a wide array of other automation tools."
- "Red Hat's solution is a good fit for customers that want a holistic automation platform that integrates with a wide array of other vendors' infrastructure."

Source:

Gardner, Chris, Glenn O'Donnell, Robert Perdonii, and Diane Lynch. "The Forrester Wave™: Infrastructure Automation Platforms, Q3 2020." *Forrester*, 10 Aug. 2020.

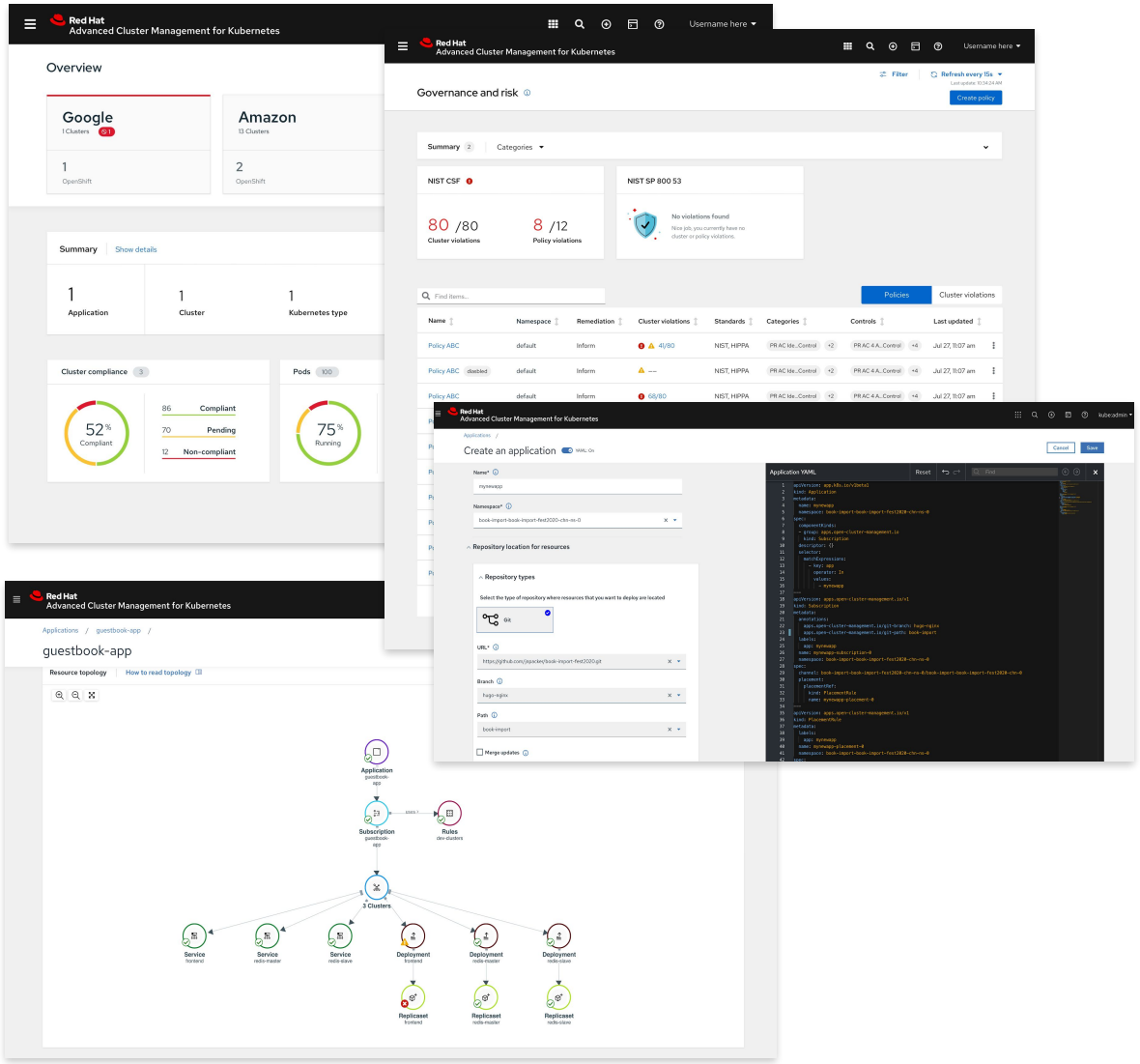




Red Hat | IBM

# Red Hat Advanced Cluster Management for Kubernetes

## What's new with 2.1




### Multi-cluster lifecycle management

- GA provisioning of OpenShift on vSphere
- GA provisioning of OpenShift on Bare Metal

### Policy driven governance, risk, and compliance

- Open Source Policy Repository
- Enhanced OPA integration

### Advanced application lifecycle management

- Simplified Application Experience
- Portfolio Integration with Ansible Automation Platform – Tech Preview

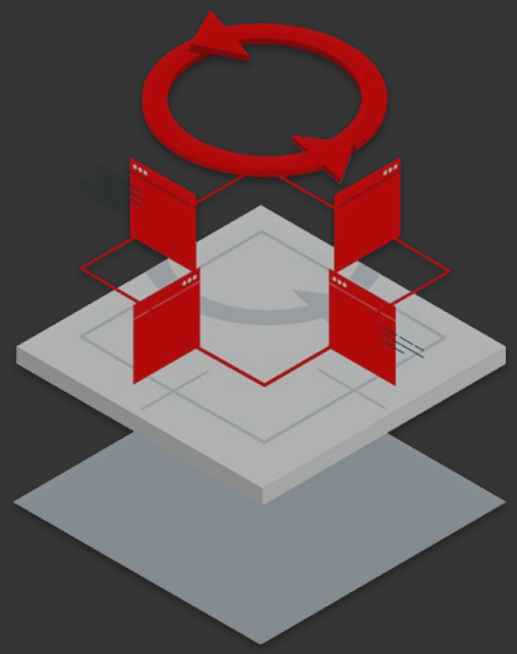
### Observability for your Clusters and Apps

- Cluster Health monitoring with Thanos
- Multi-cluster health optimization with Grafana



Red Hat | IBM

# Empowering developers to innovate



Service mesh

Serverless

CI/CD Pipelines

CodeReady Workspaces

Developer tooling

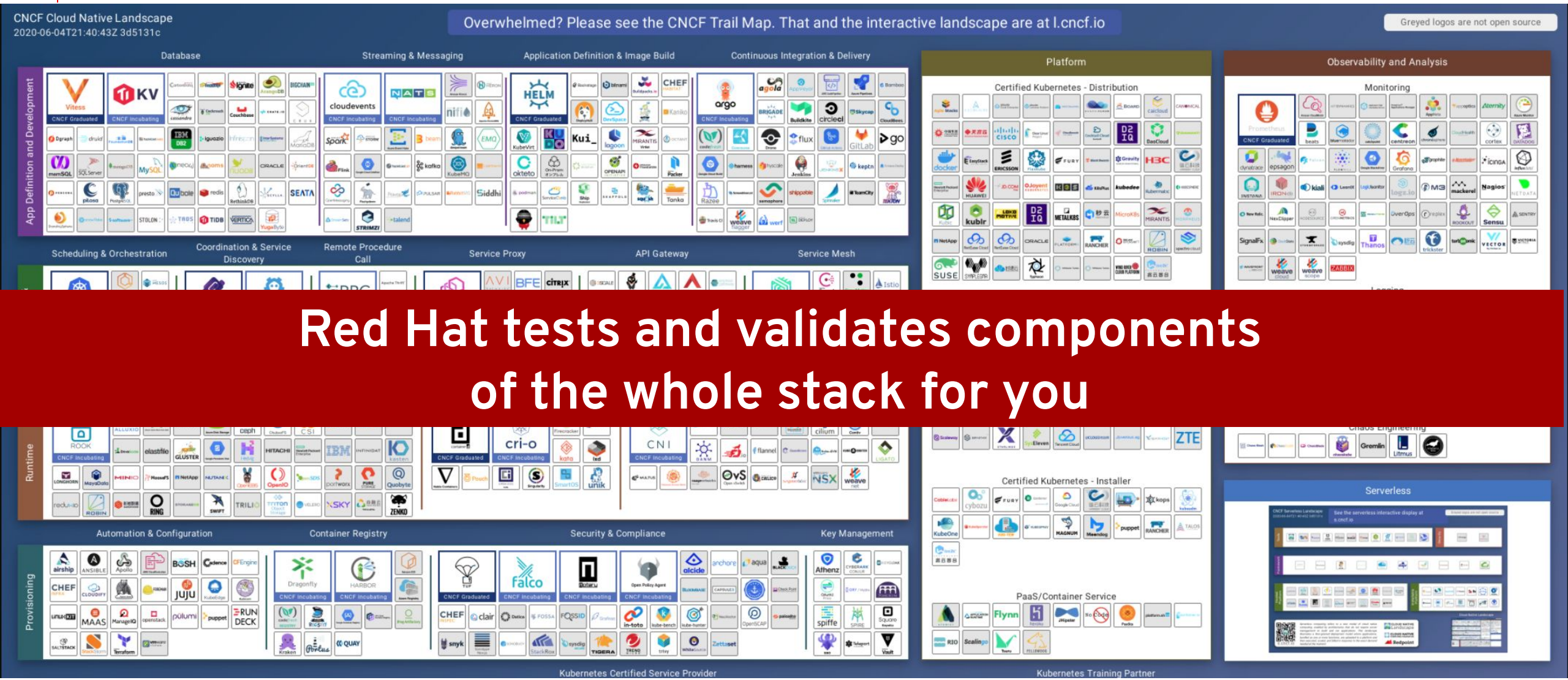
FaaS

RED HAT®
MIDDLEWARE



Red Hat

# The Cloud Native App Dev Challenge ?



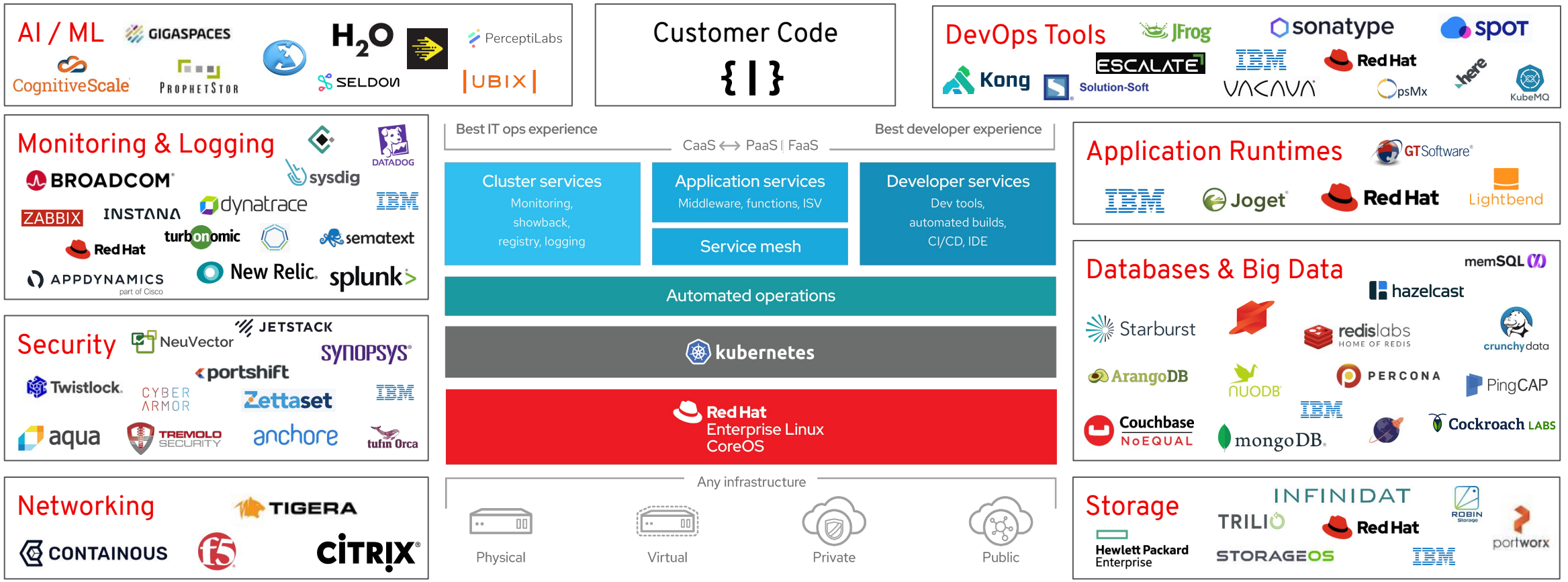

**Red Hat tests and validates components of the whole stack for you**



Red Hat | IBM

Red Hat Marketplace

# 100+ Red Hat OpenShift certified operators






Red Hat | IBM

# CodeReady Workspaces reduce developer onboarding from weeks to minutes.

**Teams write container-native code in OpenShift, even with zero Linux and Kubernetes knowledge.**

### Container Workspaces

Workspace replicas to end “works on my machine” and enable team collaboration.

### DevOps Integrations

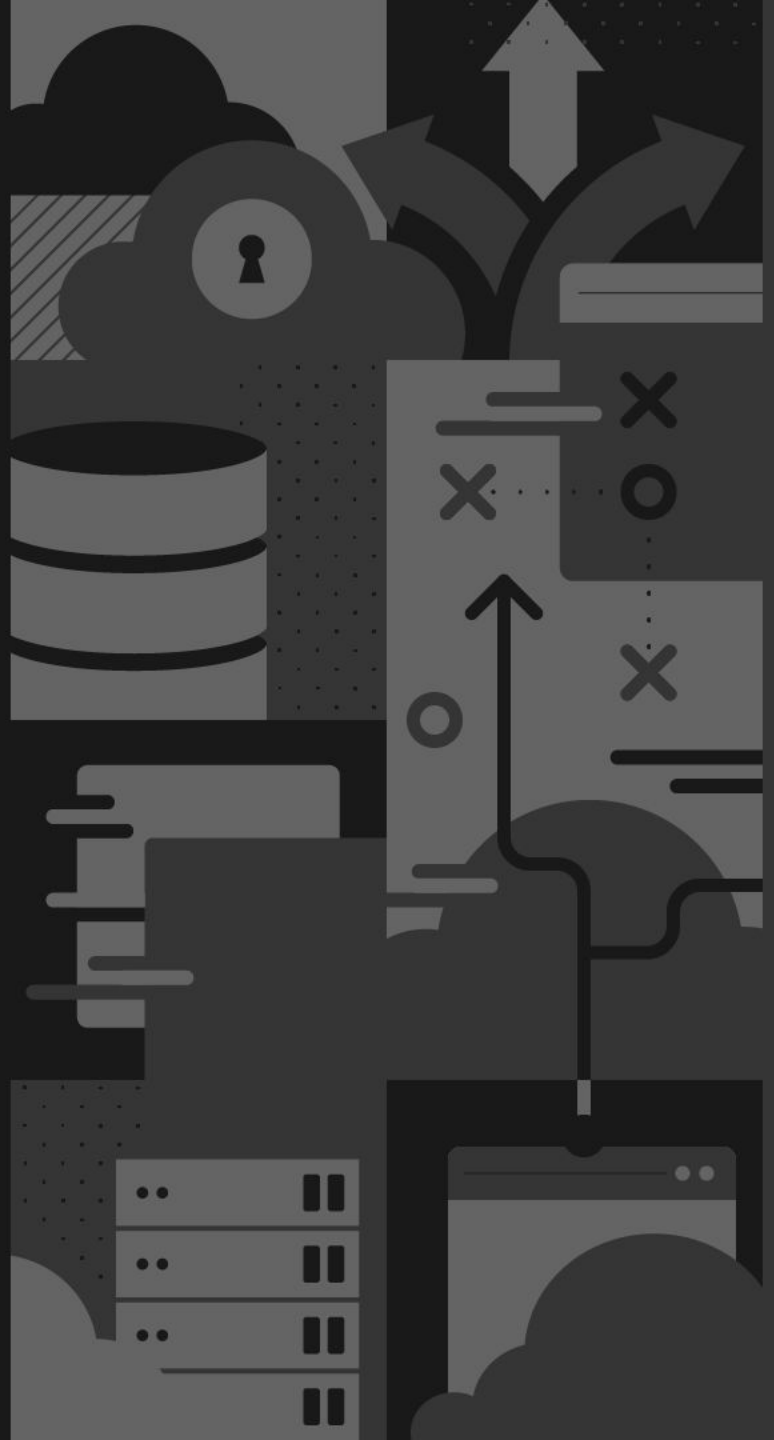
Reference developer workspaces from any issue, failed build, or git notification.

### Protect Source Code

Full access to source code without any of it landing on hard-to-secure laptops.

| | | | |
|---|---|---|---|
| Based on the open Eclipse Che project (>10M pulls) | Red Hat supported and secured application stacks | Extensible with plugins and custom application stacks | Built in support for stateful, stateless and serverless |

Quickly onboard teams to Kubernetes, or replace VDI for devs.

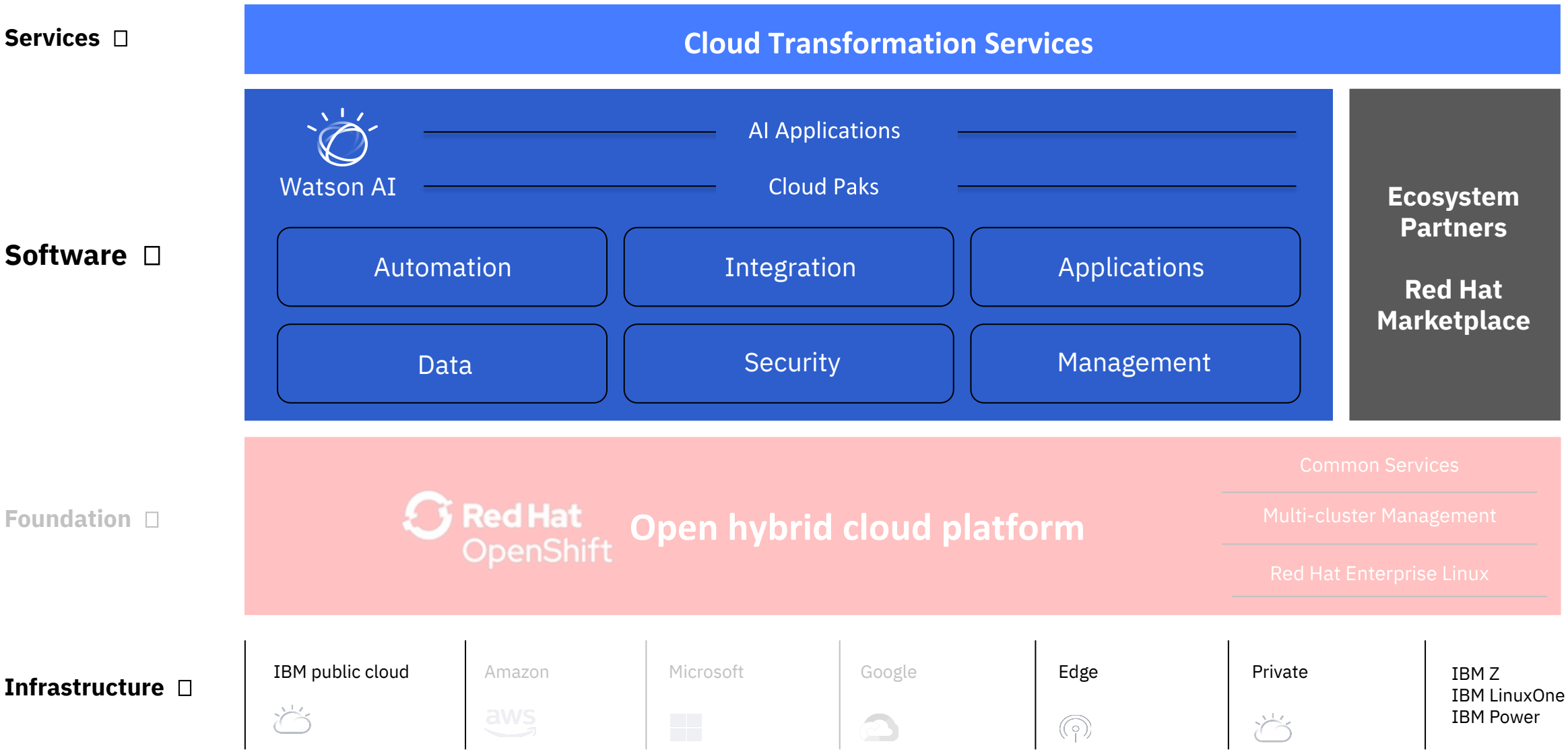


# IBM Workload on OpenShift



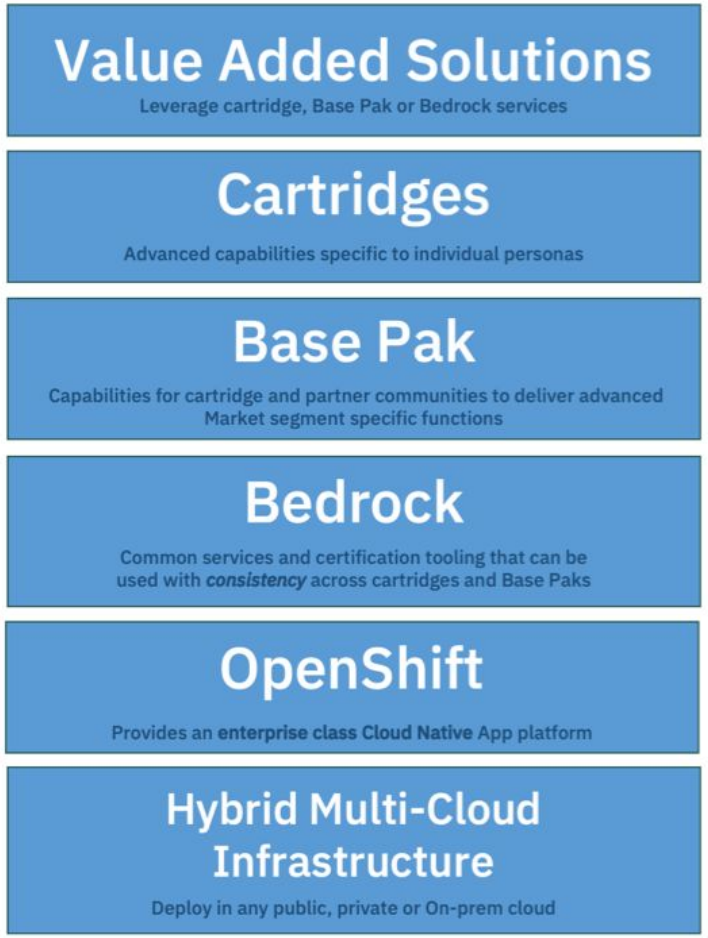
Red Hat

# IBM / Red Hat Hybrid Cloud is the Future Architecture for Enterprise IT



# Cloud Pak 2.0 Strategy

- Advanced capabilities as cartridge and value-added solutions that focus on **persona specific experience and AI**
- **Base Pak** services to enrich domain specific cartridges by **IBM and third-party partners**
- Consolidate common services across Cloud and Cognitive under **Bedrock** and drive cost reduction and better integration across Paks
- **OpenShift is the only Kubernetes platform we support**



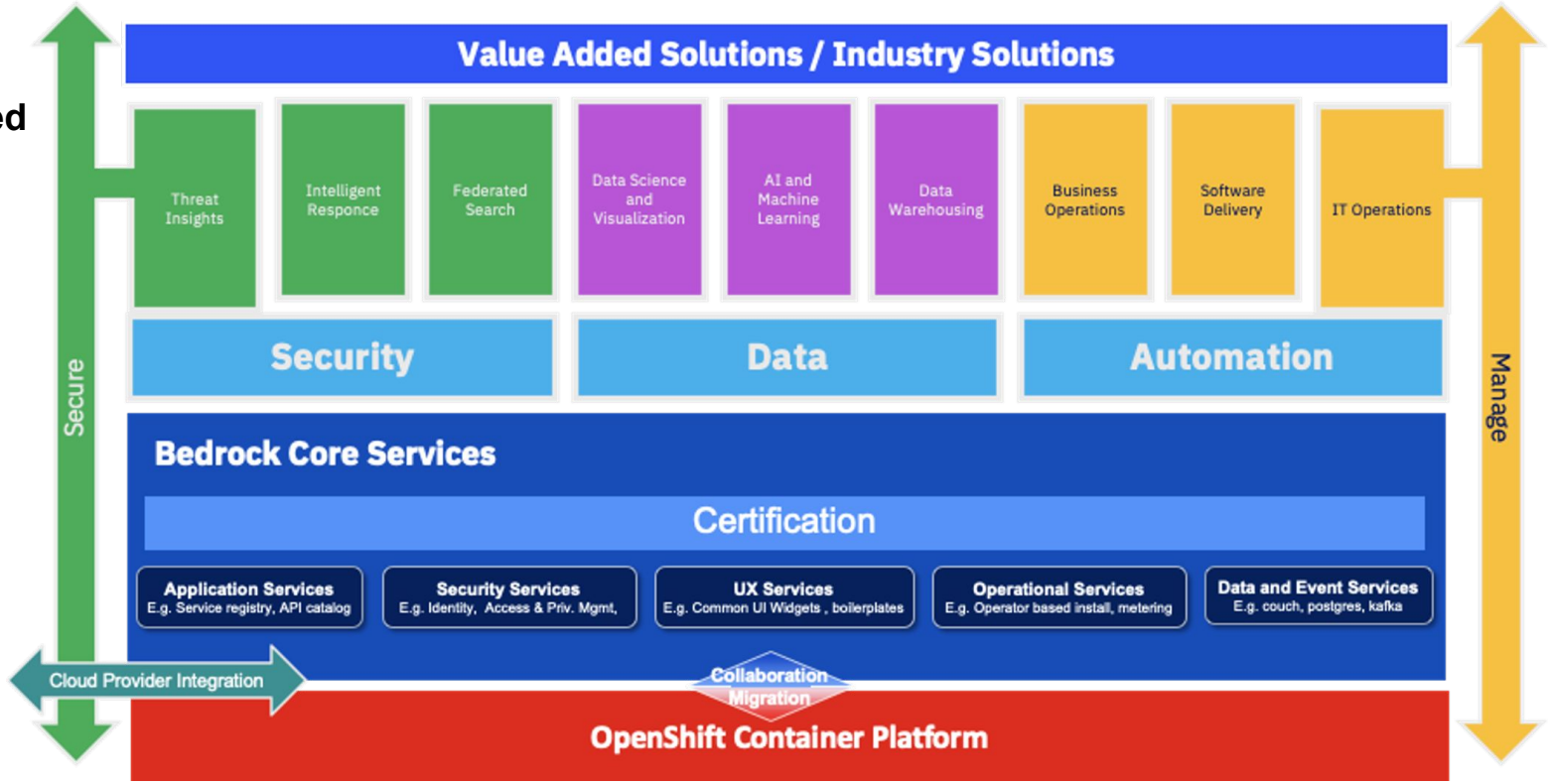
# Cloud Pak 2.0 Architecture

Advanced capabilities as **Cartridge** and **Value-added Solutions**

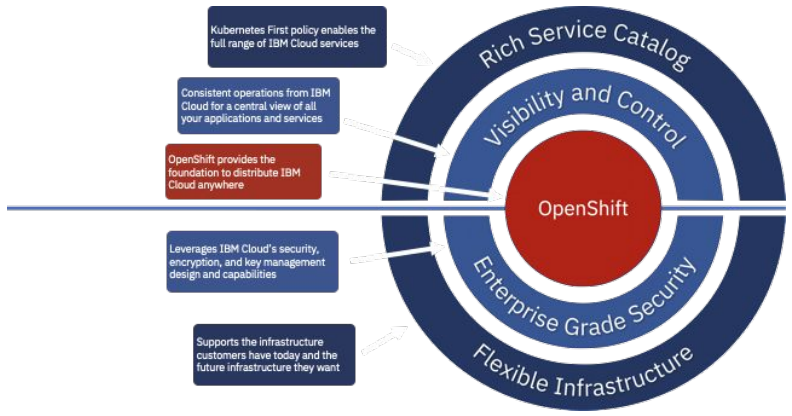
**Base Pak** services

**Bedrock** common services

**OpenShift** Platform



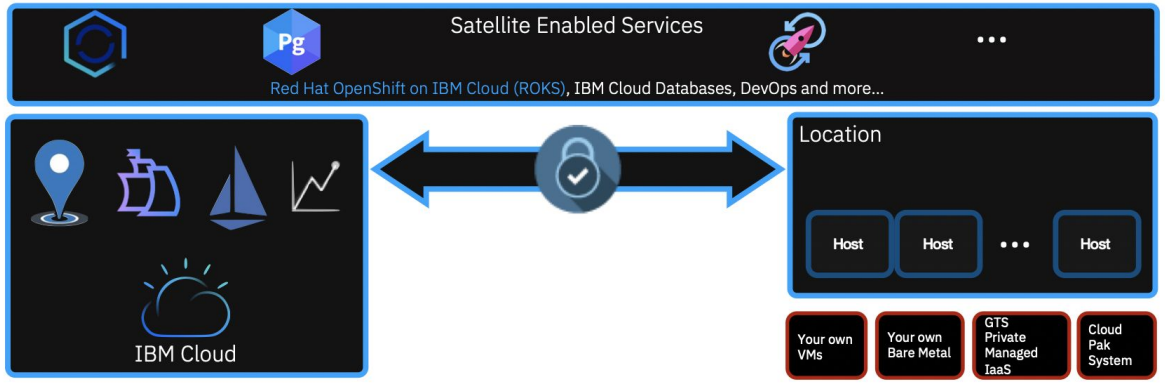
# IBM Cloud Satellite – OpenShift & IBM Cloud Anywhere




**Client Challenges**:

- Inconsistencies between public cloud and on-premises environments
- Lack of skills to operate rapidly evolving platforms
- Fragmented visibility to applications running across hybrid architectures
- Balancing desire to develop more quickly with the realities of regulation, security and compliance

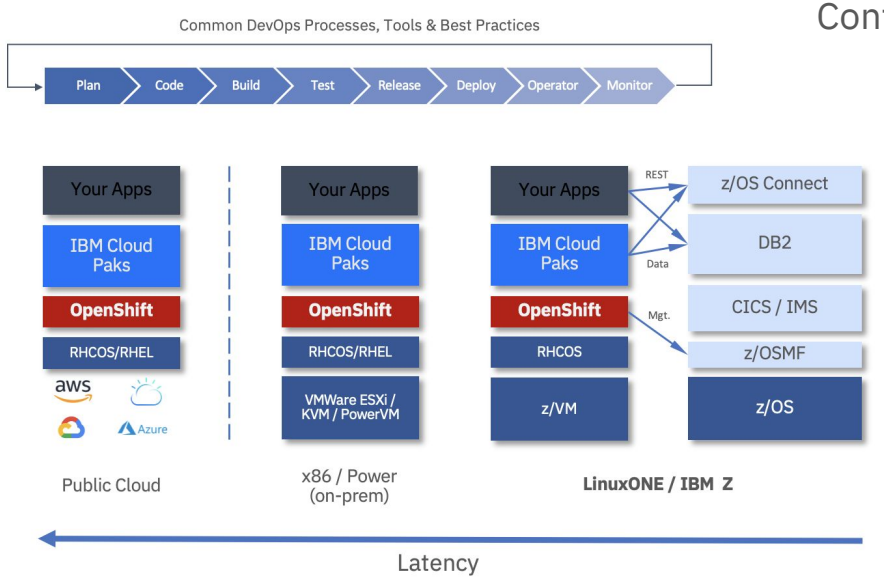
Red Hat OpenShift is central to IBM Cloud Satellite leveraging IBM's enterprise cloud managed OpenShift service



# IBM Systems – Multi-Architecture Hybrid Cloud Platform

**Smarter Multi-Architecture Enterprise Platform**

- Common DevOps Processes & Tools
- Shared skills and best practices across x86, Power and System Z/LinuxONE
- Targeted Scenarios: Modernization, Data Gravity, Consolidation / TCO, Business Continuity




Red Hat OpenShift Container Storage

IBM Spectrum Scale

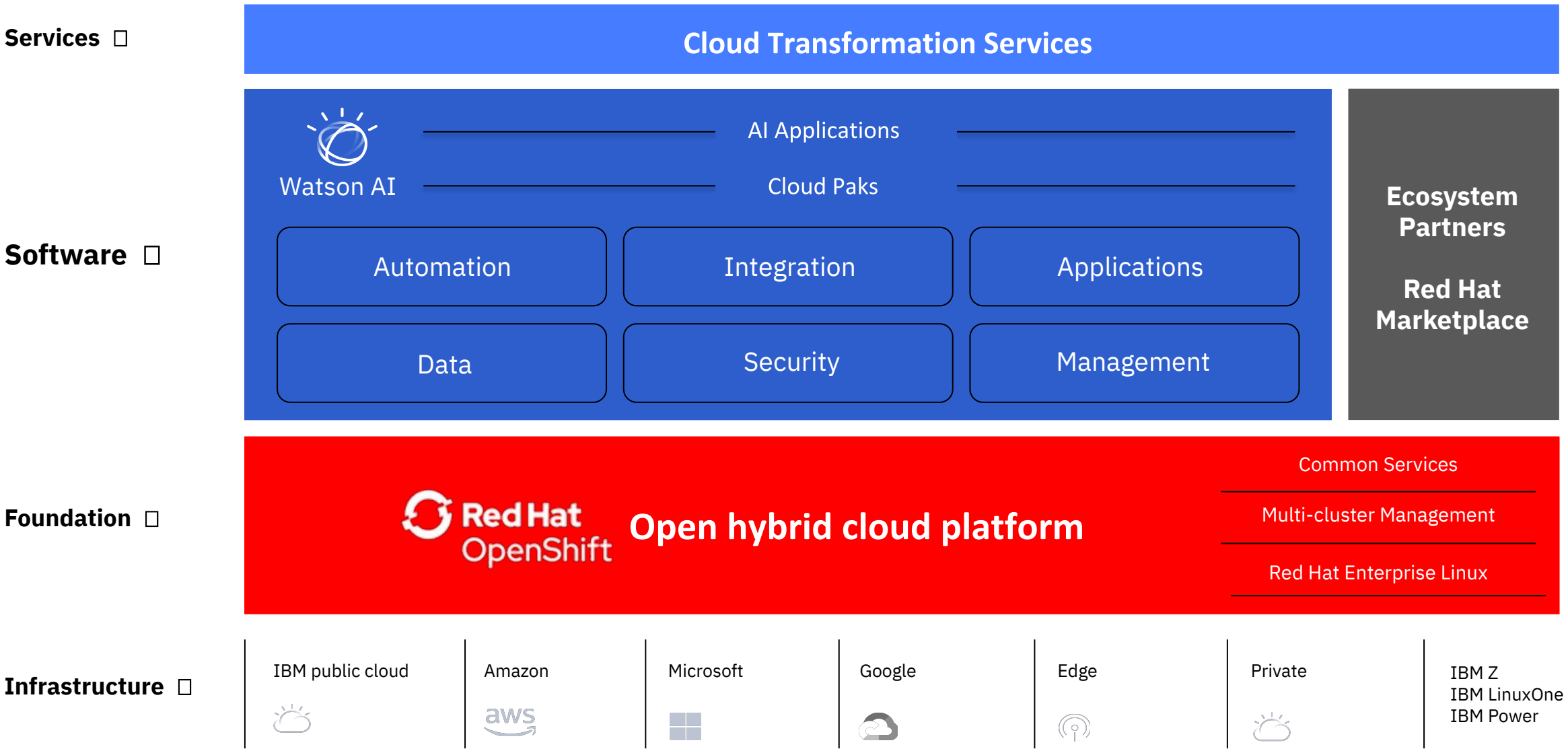
**Container Native Storage Solutions on x86, P and Z**

- General purpose container native Block, File and Object Storage via OpenShift Container Storage
- Special Purpose container native, multi-protocol storage for AI, Big Data, Analytics, Data lake unified storage, Data optimization and resiliency



Red Hat | IBM

# IBM / Red Hat Hybrid Cloud is the Future Architecture for Enterprise IT



# 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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