Red Hat technology for Operational Models
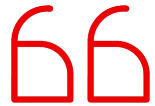
Red Hat Academy 2024

Frank Pauxberger

Senior Ecosystem Solution Architect

Red Hat | accenture

"

DevOps is an approach to culture, automation, and platform design intended to deliver increased business value and responsiveness through rapid, high-quality service delivery. This is all made possible through fast-paced, iterative IT service delivery.

"

Site reliability engineering (**SRE**) is a software engineering approach to IT operations. SRE teams use software as a tool to manage systems, solve problems, and automate operations tasks

Technology is only part of it

Technology is a relevant piece to support the organisational effort for those Operational Models.

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Application development and delivery platform

Design and code

using cloud-native development tools and application technology that helps you get the benefits of DevSecOps right from the start.
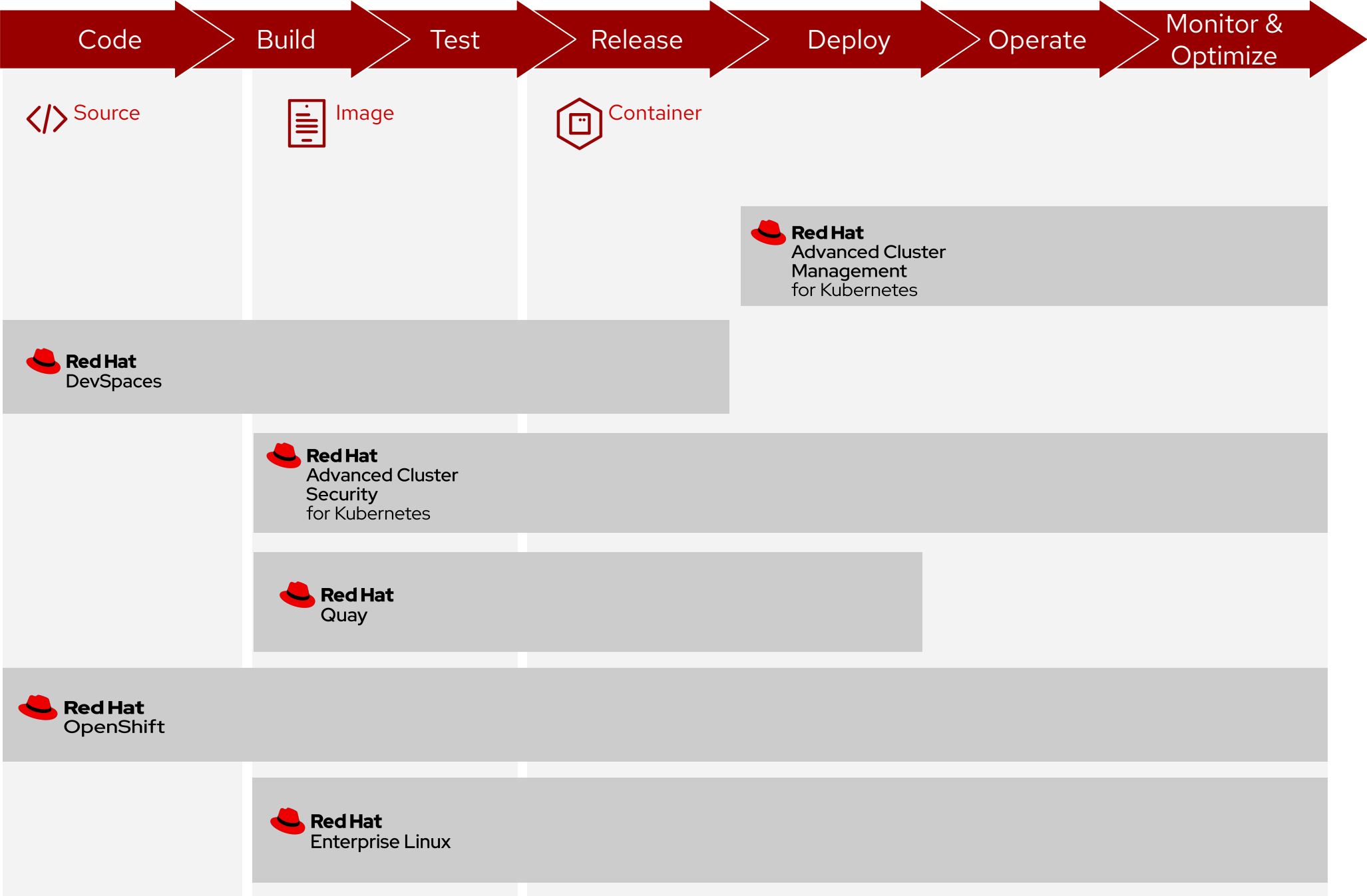
Build, test, and deploy

with DevSecOps policy and procedure at scale with integration across on-premise, cloud, and hybrid cloud environments.

Run and manage

with consistency and unified security, without slowing development or increasing operational complexity (SRE).

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Software Lifecycle

Code	Build	Test	Release	Deploy	Operate	Monitor & Optimize

Source

Image

Container

Red Hat Advanced Cluster Management for Kubernetes

Red Hat DevSpaces

Red Hat Advanced Cluster Security for Kubernetes

Red Hat Quay

Red Hat OpenShift

Red Hat Enterprise Linux

Cloud-native delivered with Red Hat

Red Hat Container and Operator Catalog
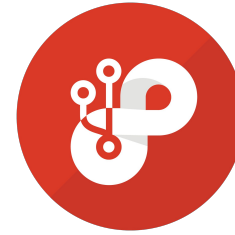Database | Message Broker | Integration | Business Process | More
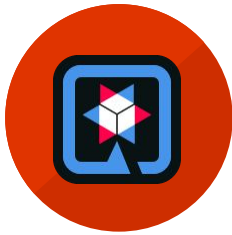
Non comprehensive!

Red Hat build
of **Quarkus**

OpenShift
Serverless

OpenShift
Pipelines

OpenShift
GitOps

OpenShift
Service Mesh

Red Hat OpenShift

Enterprise Kubernetes Platform
Networking | Automated Operations | Ingress | Storage | Monitoring | Logging | Registry

Physical

Virtual

Private cloud

Public cloud

Edge

Red Hat

Continuous Integration & Continuous Delivery

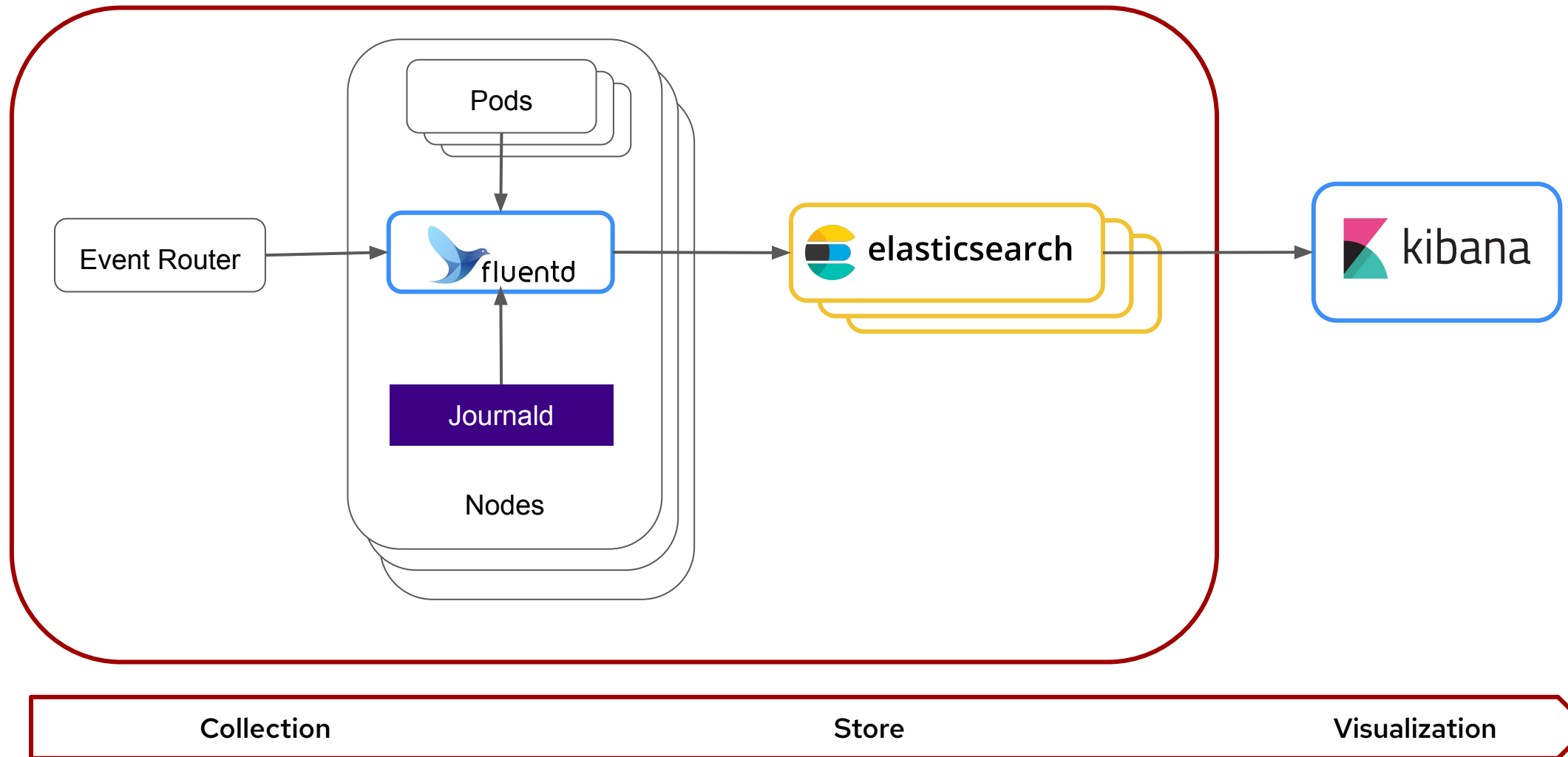| Build | Test | Security Checks | Release | Deploy Stage | Deploy Prod |

OpenShift Build

Automate building container images using Kubernetes tools

OpenShift Pipelines
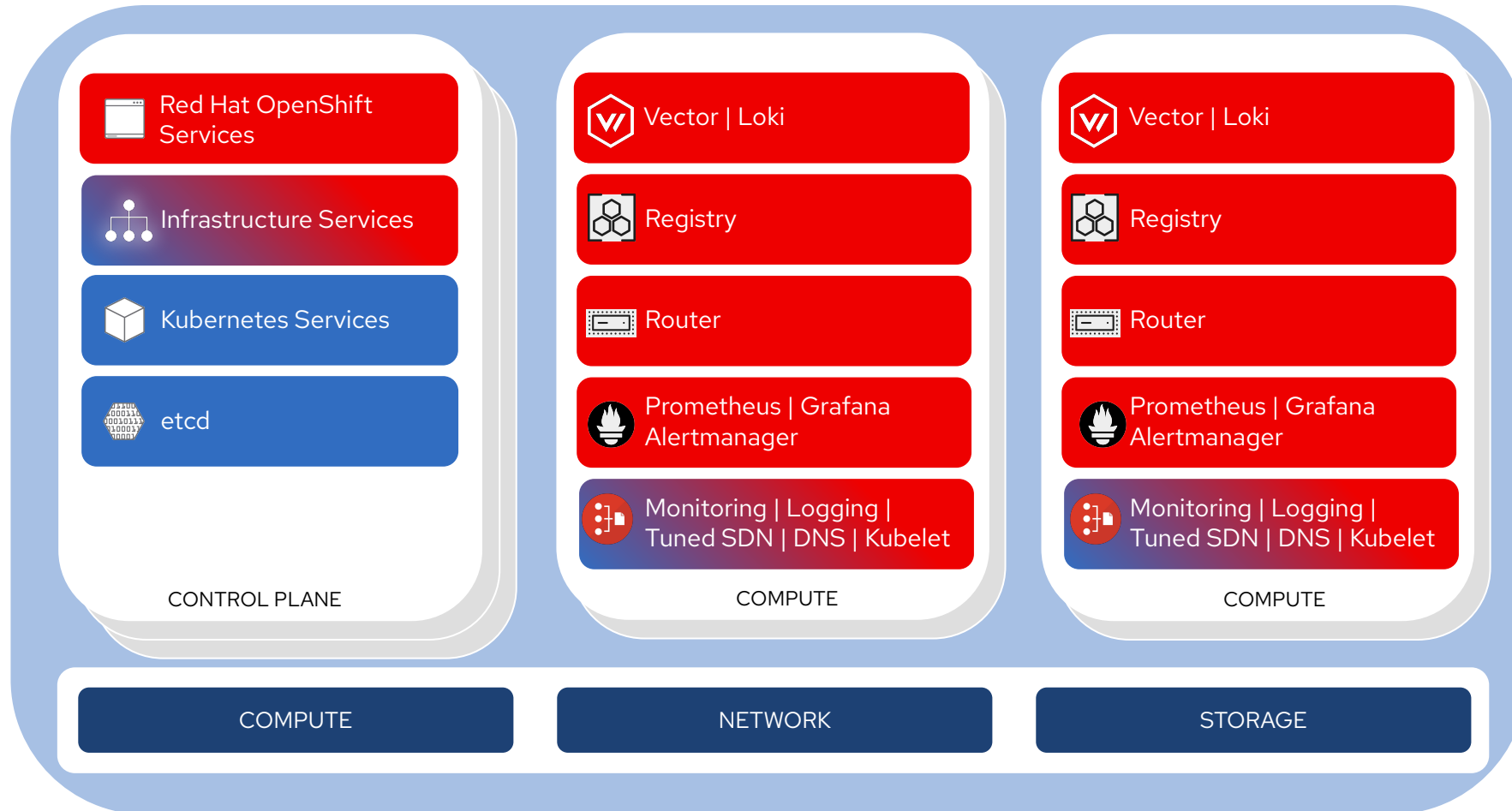
Kubernetes-native on-demand delivery pipelines

OpenShift GitOps

Declarative GitOps for multi-cluster continuous delivery

Ecosystem Integrations

GitHub   GitLab   Azure DevOps   Travis CI

Red Hat

Event Router → fluentd

Pods → fluentd

Journald → fluentd

Nodes

fluentd → elasticsearch → kibana

Collection   Store   Visualization

Red Hat

Log aggregation

Red Hat
Ansible Automation Platform

Network | Lines of business | Security | Operations | Infrastructure | Developers

| **Accelerate** Ansible Content Collections | **Collaborate** Automation Hub | **Governance** Automation services catalog | **Trust** Certified content | **Inform** Automation Analytics |

Automation controller: Operate and control at scale

Execution environments: Universal language of automation

Fueled by an open source community

Red Hat

The capabilities you need across your IT footprint.

Applications	Network	Cloud	Security	Infrastructure	Edge
▸ DevOps ▸ CI/CD ▸ GitOps	▸ Configuration management ▸ Infrastructure awareness ▸ Network validation	▸ Orchestration ▸ Operationalisation ▸ Governance	▸ Investigation enrichment ▸ Threat hunting ▸ Incident response	▸ Deployment ▸ Provisioning ▸ Management	▸ Extend security ▸ Scalability ▸ Interoperability

Red Hat
Ansible Automation
Platform

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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