Red Hat Summit

Connect

Modernización de Aplicaciones con “Red OpenShift on AWS” (ROSA) - Negocio

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AWS AppMod Principal Go-to-Market Specialist

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Common questions we hear from customers

How can I **move my workloads** to the **cloud**?

How can I **modernize** my applications?

How do I give my developers a self-service platform?

How do I get consistent **tooling** and **governance**?

How do I **optimize my speed** and **reduce cost**?

How can I meet **changing** demands?

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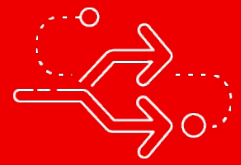
CIO'S SAY 80% OF DEVELOPERS' TIME IS SPENT IN OPERATIONS AND MANTEINANCE OF APPLICATIONS AND ONLY 20% IS SPENT ON **INNOVATION**

Strategic Operations (Modern and innovative stuff)

Product Releases

Application Security

Organizational Structures



Software Supply Chain

Customer Connectivity

Tactical Operations (Boring and repetitive stuff)

Kubernetes Builds

Scaling + Availability

Infrastructure Reliability

Authentication + Security

Backups and Resiliency

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BUILD NEW INNOVATION

REDUCE

Retire + SaaS

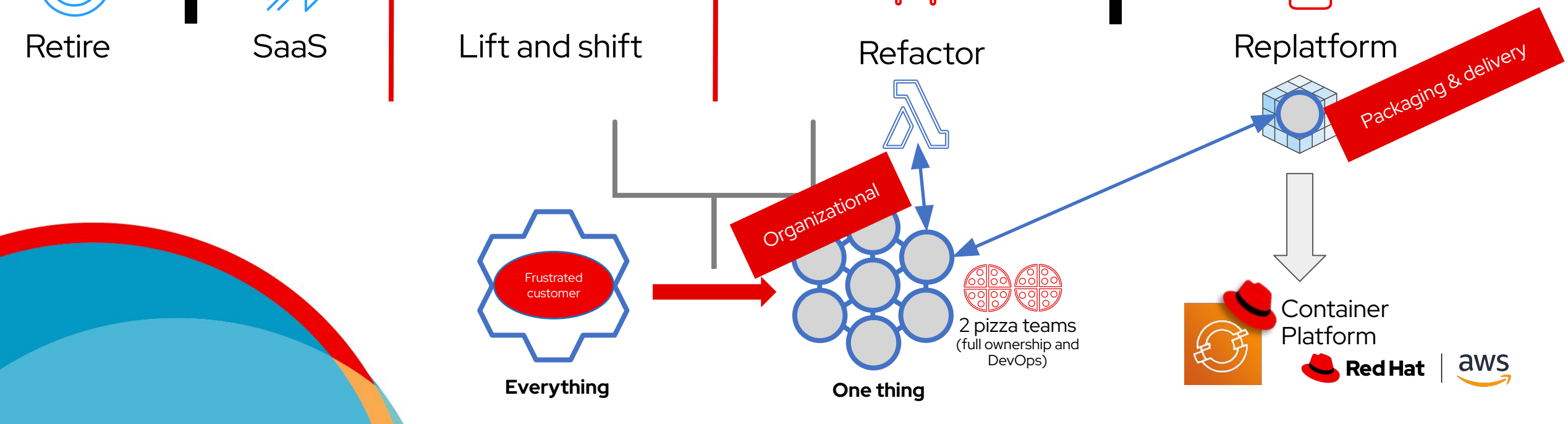
MIGRATE

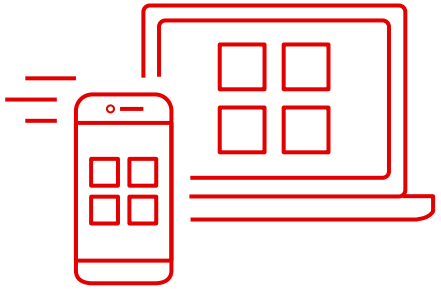
Lift and shift

MODERNIZE

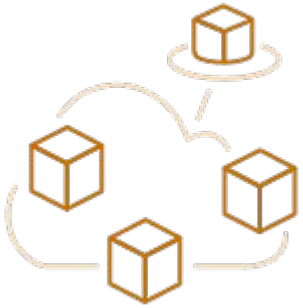
Refactor: Serverless

Replatform: Containers

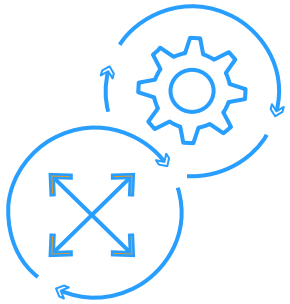




Build applications, **not infrastructure**



Manage infrastructure to their requirements



Scale quickly and seamlessly

Security and isolation by design

Increasing developer productivity (**innovation**) is the main priority now for customers

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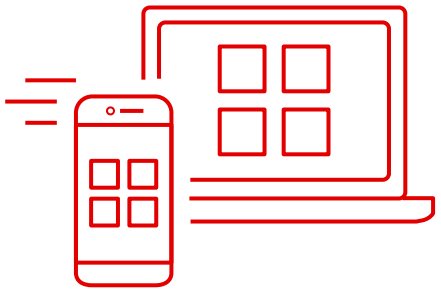


Build applications,
not infrastructure

Improve ROI & Reduce TCO

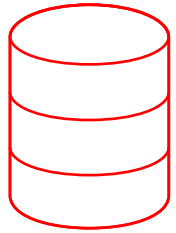
Scales to millions of users

Increase efficiency of developers

Has global availability

Increase business agility

Responds in milliseconds



Handles petabytes of data

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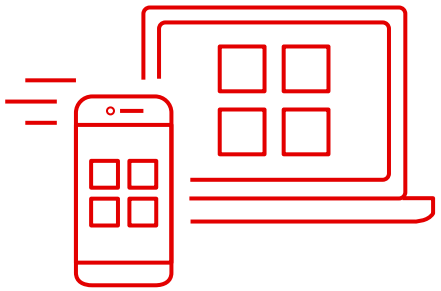
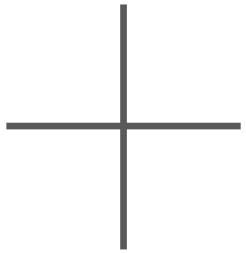
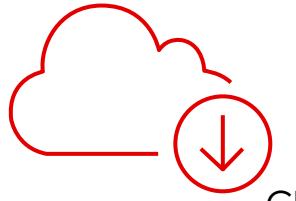


Build applications,
not infrastructure

Applications

Mobile & web applications
Back-end web services
Open Banking - Mobile





Operational Expertise

CI/CD
IaaS
Management, security, & governance
Logging & monitoring

Enterprise app migration

.NET Classic **Windows** apps
Linux apps
Third-party applications

Machine learning

Autonomous vehicle
IoT - Data - AI/ML
Recommendation engines
Fraud detection
Chatbots

SO CONTAINERS ARE FOCUSING NOW MORE ON DEVELOPMENT

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CONTAINER ADOPTION TRENDS

GOALS

Better Service Levels	56%
Digital Business / Transformation	51%
Better Time to Market	48%

BENEFITS

Developer Productivity	56%
Support Modern App Architectures	52%
DevOps Enabler	47%

CHALLENGES

Lack of Skills	62%
Operational Complexity	43%
Security Concerns	35%

Aligned toward Application Development

DevSecOps

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Source: Gartner - Infographic: Container Adoption Trends 07/2021

WOULD YOU BUILD YOUR OWN KUBERNETES PLATFORM TO MEET THESE TRENDS

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Builders or Buyers?

BUYERS FOCUS ON INNOVATION AND BUSINESS ADDED VALUE

OpenShift Container Platform

OpenShift Kubernetes engine

Manage Workloads

Build Cloud-native apps

Developer Productivity

Platform Services

Service Mesh | Serverless
Builds | CI/CD Pipelines
Full Stack logging
Chargeback

Application Services

Databases | Languages
Runtimes | Integration
Business automation
100+ ISV services

Developer Services

Developer CLI | VS Code
Extensions | IDE Plugins
CodeReady Workspaces
CodeReady Containers

Cluster Services

Automated Ops | Over-the-air updates | Monitoring | Registry | Networking | Router | Virtualization | OLM | Helm

Kubernetes

Red Hat Enterprise Linux CoreOS

Physical

Virtual

Private Cloud

Managed Cloud

Edge

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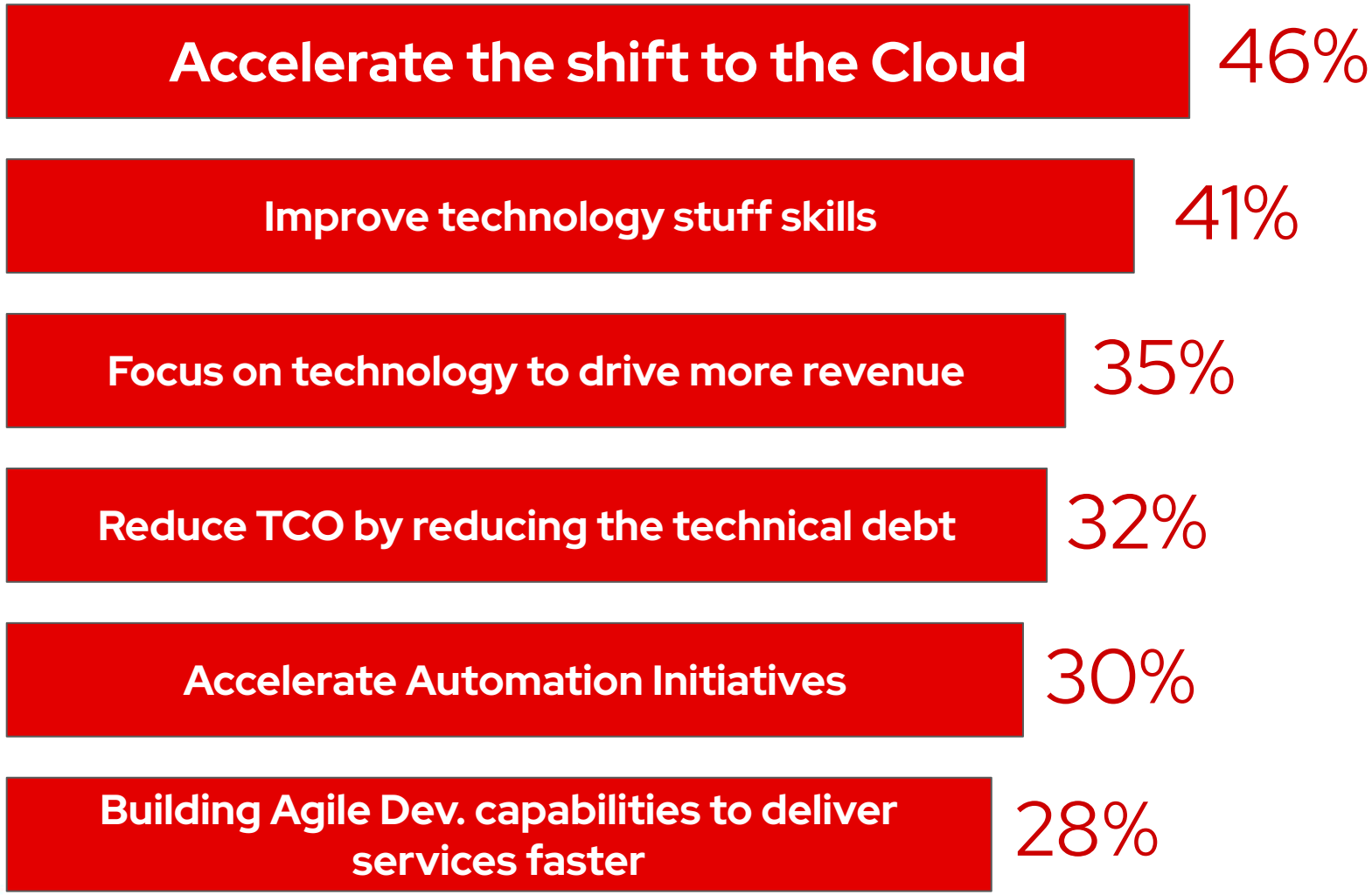
MOST CRITICAL TECHNOLOGY INITIATIVES FOR EUROPEAN CEOs



Source: IDC Presentation: 2022 European Cloud Market Update. Carla Arend

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OPENSHIFT MANAGED SERVICES EVOLUTION ON AWS

MOVE TO MANAGED WITH ROSA

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Self-managed		Managed	
On-premises	aws	aws	aws
OpenShift Container Platform (OCP) *Customer managed, runs on premise*	**OpenShift Container Platform (OCP)** *Customer managed, runs on AWS*	**Red Hat OpenShift Dedicated** *Managed and supported by Red Hat, runs on AWS*	**Red Hat OpenShift Service on AWS (ROSA)** *Jointly managed and supported by Red Hat & AWS, runs on AWS*

Situations we find in customers more frequently than expected

- Customers move applications back on-premises from the cloud as the do not get the desired ROIs.
- CIOs had bad experiences in migrations and frequently they do not meet deadlines.

Managed Service solves it!

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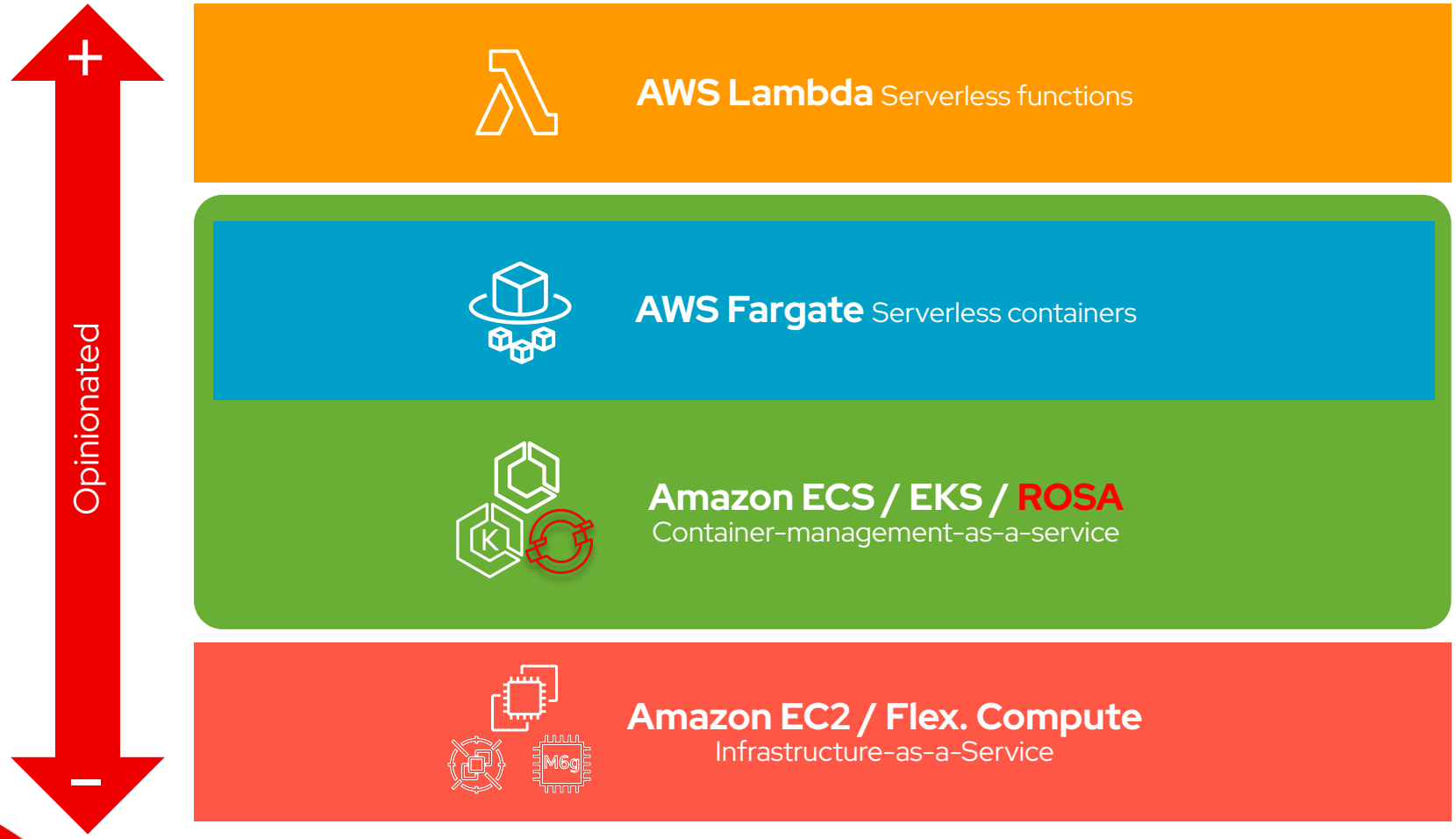
COMPUTE AND OPERATIONS: NOT AN EASY QUESTION



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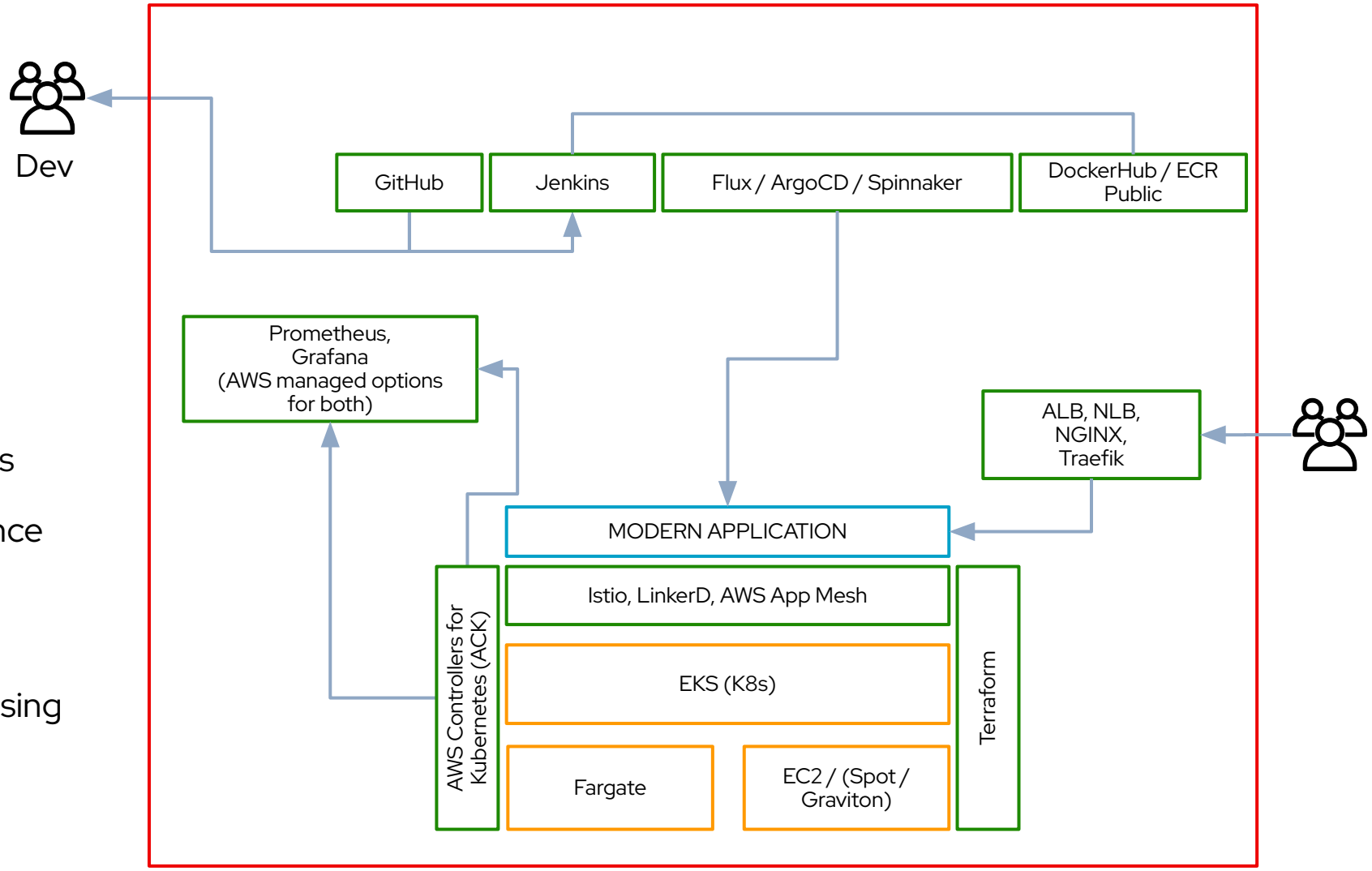
Amazon EKS

The Opensource flexibility

- AWS-optimized managed upstream Kubernetes with four supported versions
- Build your custom platform for compliance and security, with AWS services and community solutions
- Accelerate your containerization and modernization with canonical patterns using AWS Blueprints



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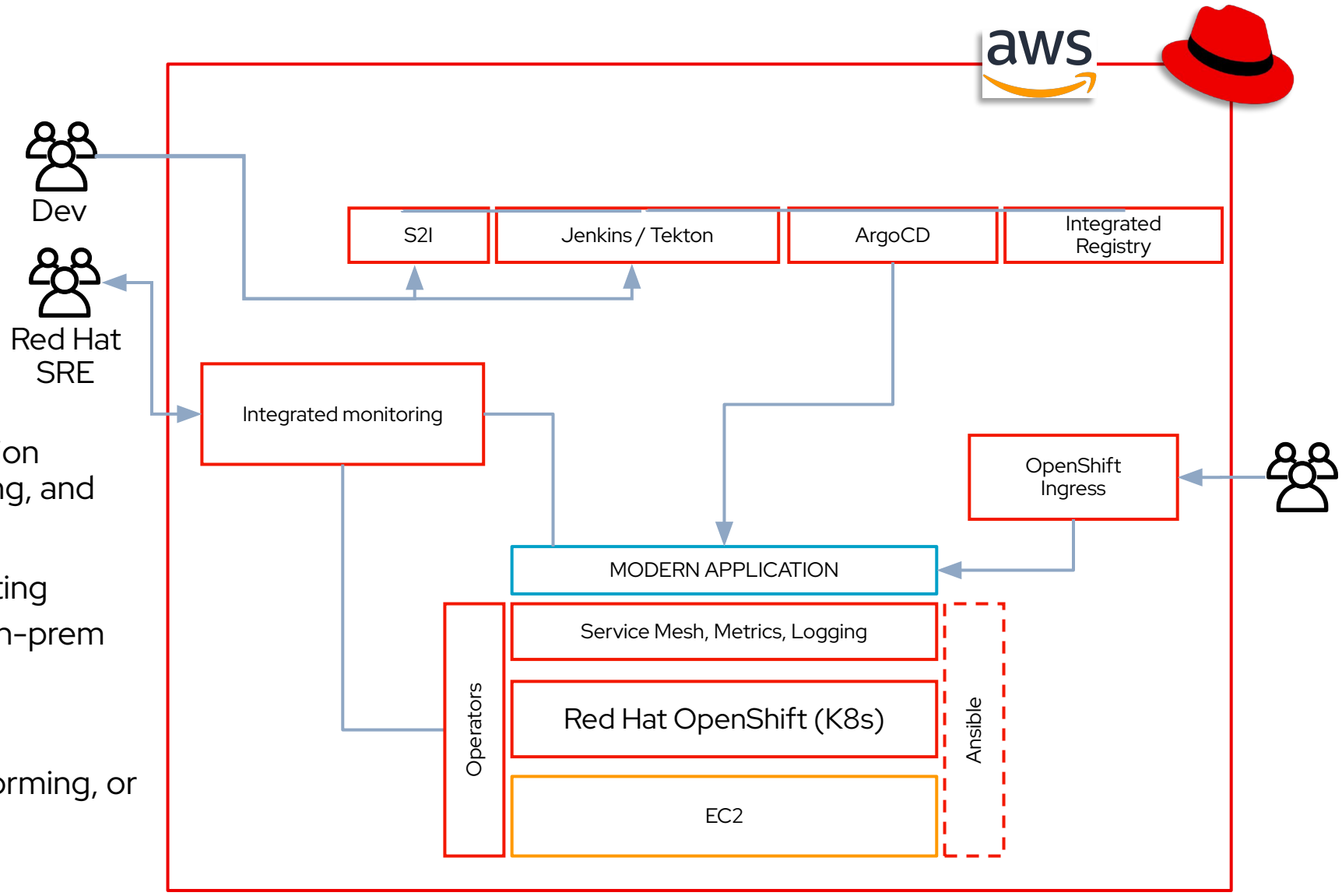
Red Hat OpenShift on AWS

Shared Services Platform AKA PaaS

- Integrated Kubernetes based application platform with built-in CI/CD, monitoring, and developer tools.
- Activate ROSA and continue with existing OpenShift skills and processes from on-prem environments to the cloud
- Accelerate application migration and modernization by re-hosting, re-platforming, or re-factoring workloads



*ROSA visual explanation in 12min video

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CUSTOMERS NEED TO FOCUS IN INNOVATION TO ADD VALUE TO THEIR BUSINESS

	On-premises	Cloud	
	OpenShift Container Platform (OCP)	**OpenShift Container Platform (OCP) on AWS**	**Red Hat OpenShift Service on AWS (ROSA)***
Control Plane	Customer	Customer	Red Hat
Compute	Customer	Customer	Red Hat
Data Plane	Customer	Customer	Red Hat
Support	Red Hat	Red Hat	Red Hat aws
Billing	Red Hat	Red Hat	aws

Fully Managed

* Detailed Responsibility Matrix: https://docs.openshift.com/rosa/rosa_policy/rosa-policy-responsibility-matrix.html

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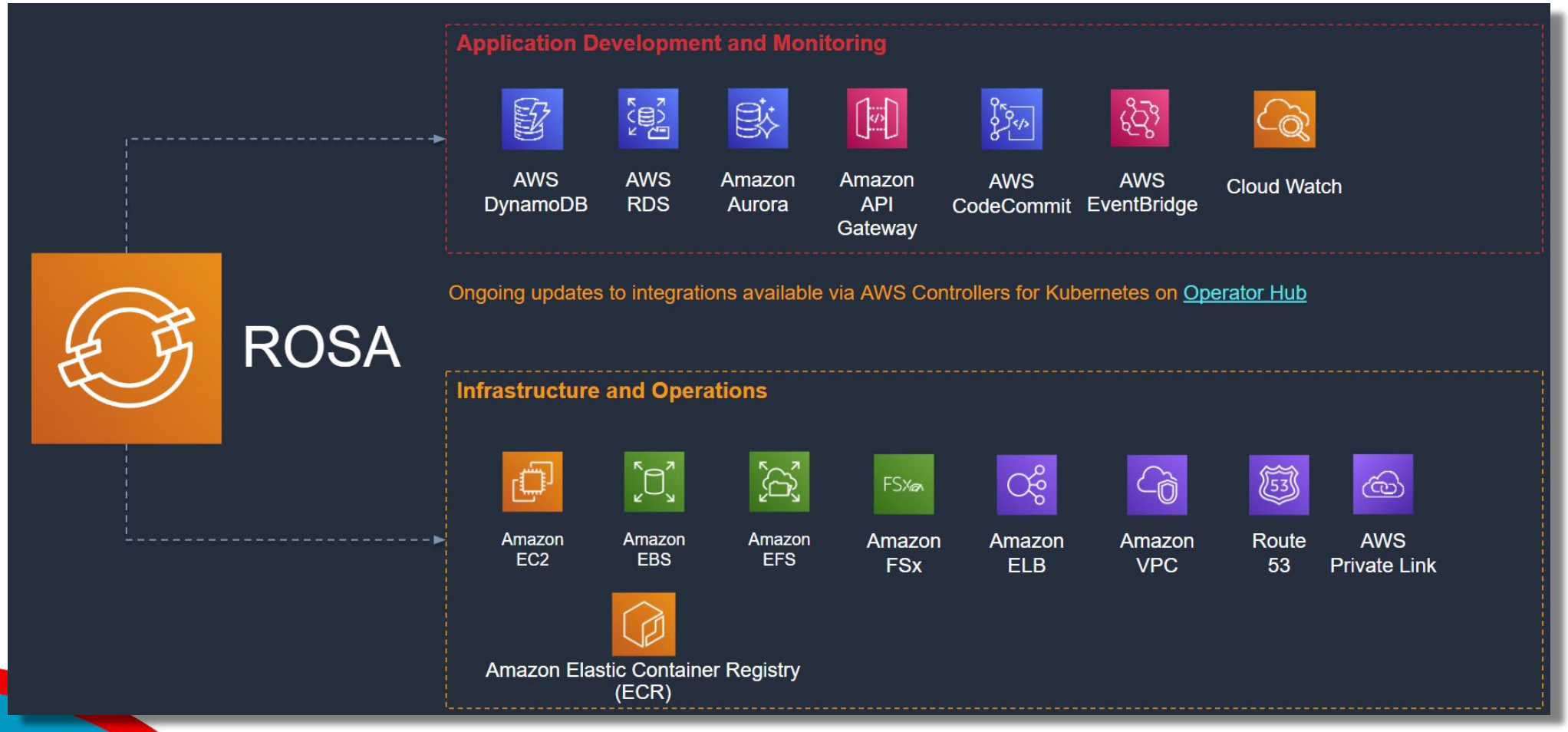
ACCELERATE MODERNIZATION ON CLOUD WITH INTEGRATED AWS SERVICES



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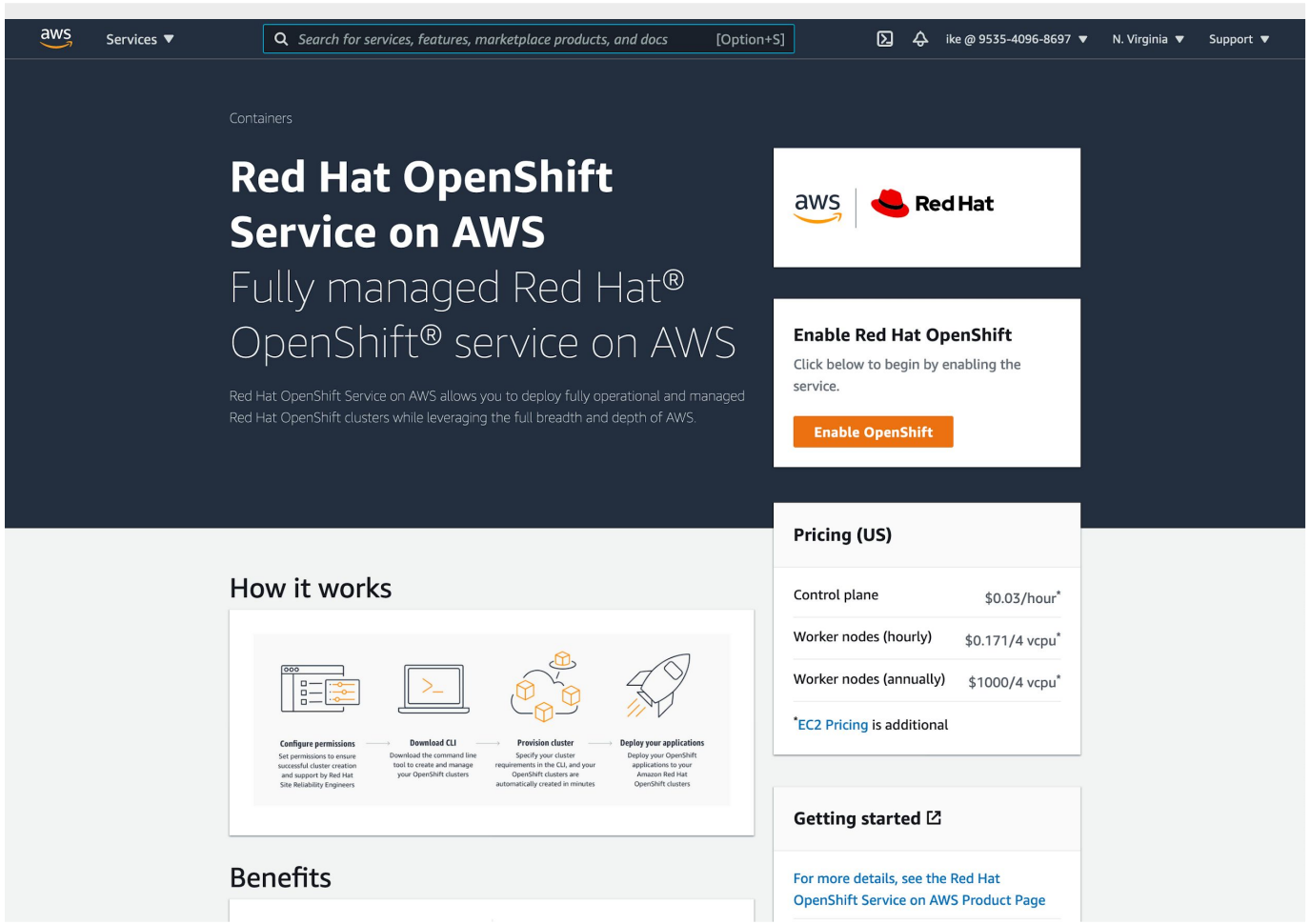
ALL THE ADVANTAGES OF A JOINT MANAGED SERVICE BY RED HAT + AWS



Joint Managed Service

AWS Service based in a Red Hat Product

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