



Red Hat and AWS: An Impactful Partnership Elevating the Cloud with ROSA

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Red Hat

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How do customers benefit from the cloud?

Agility

Teams can experiment and innovate quickly and frequently

Cost Savings

Only pay for what you use, leveraging economies of scale

Elasticity

Easily scale up or down with the needs of the business

Innovation

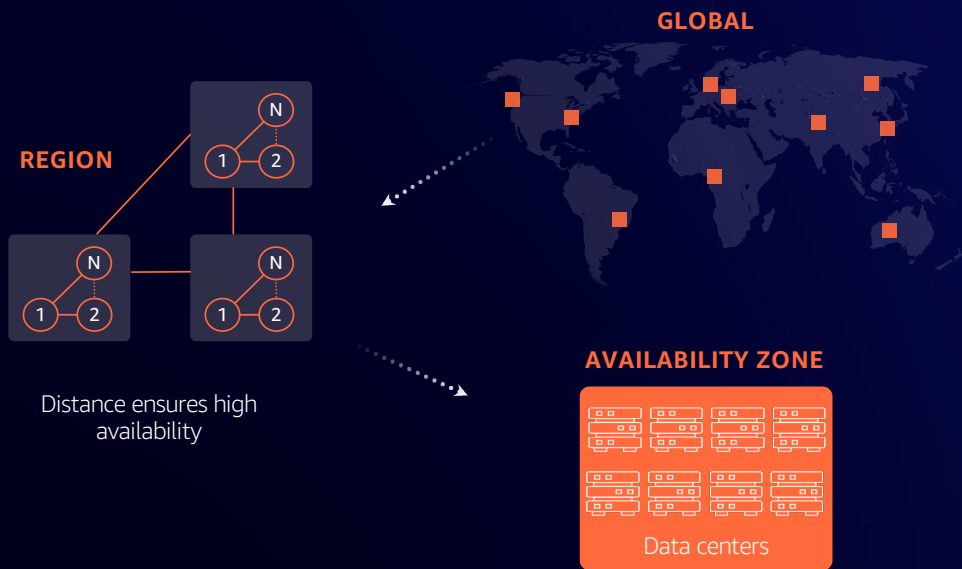
Focus on business differentiators, not infrastructure

Global Footprint

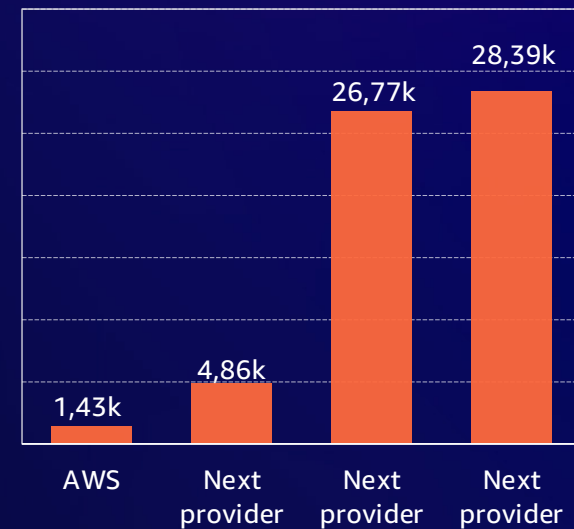
Extensive, reliable, and secure global cloud infrastructure

Gartner Recommends AWS For High Availability

The most extensive global cloud infrastructure



Total incident hours (public) by provider in 2023



• Incident hours published = Incident hours published * Regions Impacted * Services Impacted



Customers Choose AWS for Resilience

Financial Impact of Downtime

\$2.5B

Annual Fortune 1000 application
downtime costs

\$474K

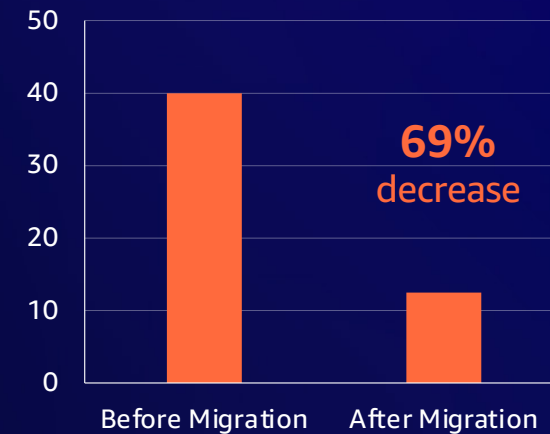
Average cost/hr of downtime

\$1M

Cost/hr of a critical application
failure

Before & After Migration to AWS

Unplanned Downtime Hours in
12-Month Period



AWS Services and tools for deploying containers

Opinionated deployment



AWS App Runner



AWS Elastic Beanstalk



AWS Batch



Amazon Lightsail



AWS Amplify



AWS IoT Greengrass

Container orchestration



Amazon EKS



Amazon ECS



Red Hat OpenShift Service on AWS (ROSA)

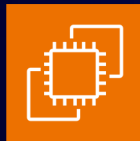


AWS Lambda

Compute capacity



AWS Fargate



Amazon EC2



AWS Outposts



AWS Wavelength



On Premises Servers

Serverless

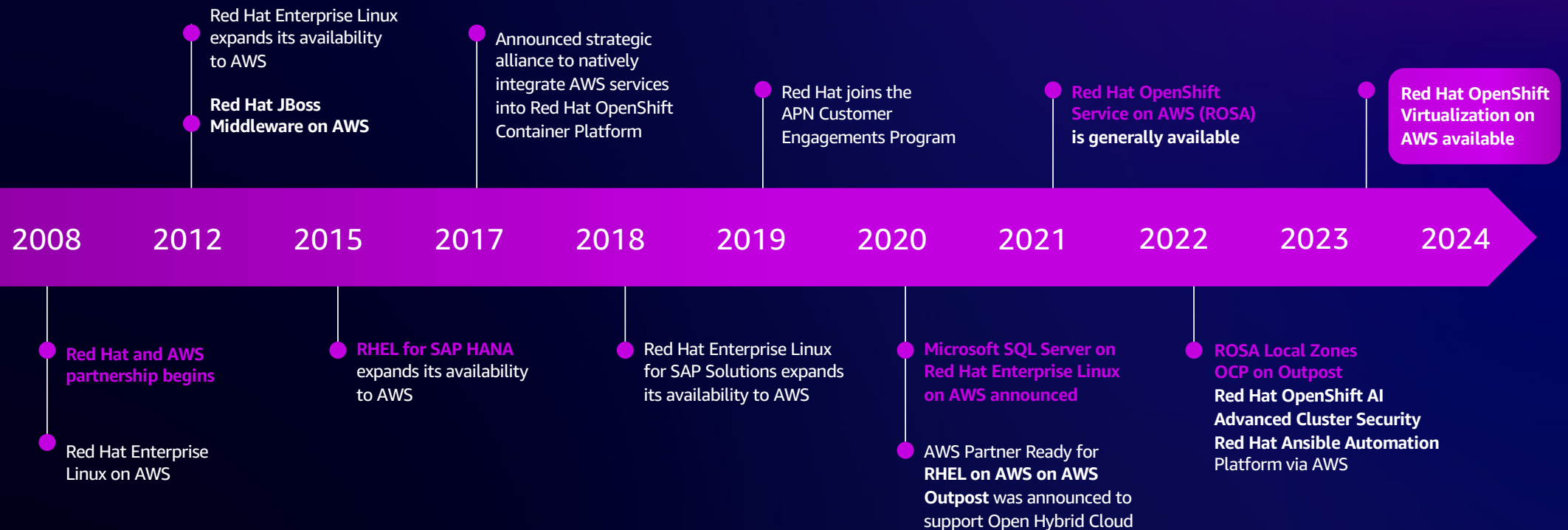
Elastic Compute

On Premises and Edge



AWS and Red Hat - A Unique Partnership

WORLD'S LARGEST OPEN SOURCE SOFTWARE COMPANY + WORLD'S MOST COMPREHENSIVE AND BROADLY ADOPTED CLOUD PLATFORM



Red Hat on AWS Availability

Most comprehensive listing of your favorite Red Hat products in the industry



Available Via AWS Marketplace

- ❖ Red Hat OpenShift Container Platform (w/ Arm support)
- ❖ Red Hat OpenShift Kubernetes Engine (w/ Arm support)
- ❖ Red Hat OpenShift Platform Plus (w/ Arm support)
- ❖ Red Hat OpenShift AI
- ❖ Red Hat Ansible Automation Platform
- ❖ Red Hat Learning Subscription
- ❖ Developer Sandbox for Red Hat OpenShift
- ❖ JBoss Enterprise Application Platform
- ❖ Red Hat Enterprise Linux for Third Party Linux Migration with Extended Life Cycle Support



AWS Console / On Demand

- ❖ Red Hat Enterprise Linux Server: w/ Graviton support and an optional ELS Add-On
- ❖ Red Hat Enterprise Linux for SAP (w/ HA)
- ❖ Red Hat Enterprise Linux on Outposts
- ❖ Red Hat Enterprise Linux workstation
- ❖ Red Hat Enterprise Linux w/ SQL Server: Also available w/ HA
- ❖ Red Hat OpenShift Service on AWS (Commercial, GovCloud, Local Zones)
- ❖ Red Hat OpenShift Virtualization on AWS

Why Red Hat OpenShift Service on AWS



Red Hat
OpenShift

Red Hat OpenShift Service on AWS is a turnkey application platform that reduces operational complexity, allowing developers to focus on building and scaling applications that add more value to the business, go to market faster, and get more from their cloud investment.

Consolidated billing



- ❖ Use your existing AWS commitment/EDP to use Red Hat OpenShift
- ❖ Get a single unified bill from AWS for both Red Hat OpenShift and AWS consumption

Joint support



- ❖ Integrated support systems
- ❖ Contact Red Hat or AWS support
- ❖ Foundation based on RHEL with decades of enterprise IT knowledge and experience

Built for hybrid



- ❖ Consistent OpenShift experience across clouds and on-premises
- ❖ Run on baremetal and VMs
- ❖ Mitigates customer concerns about cloud lock-in

Integration with AWS services

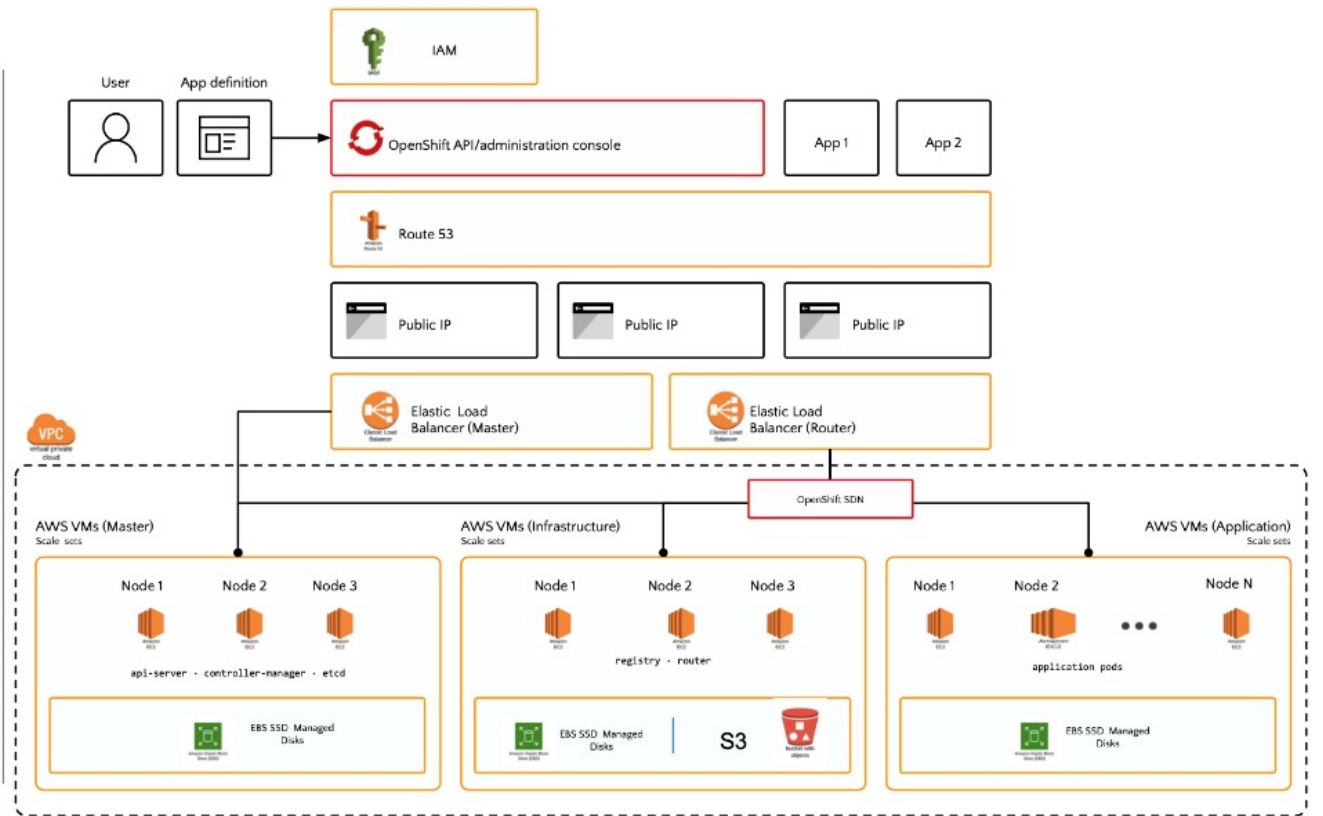


- ❖ Build containerized applications that integrate natively with more than 200+ AWS cloud services

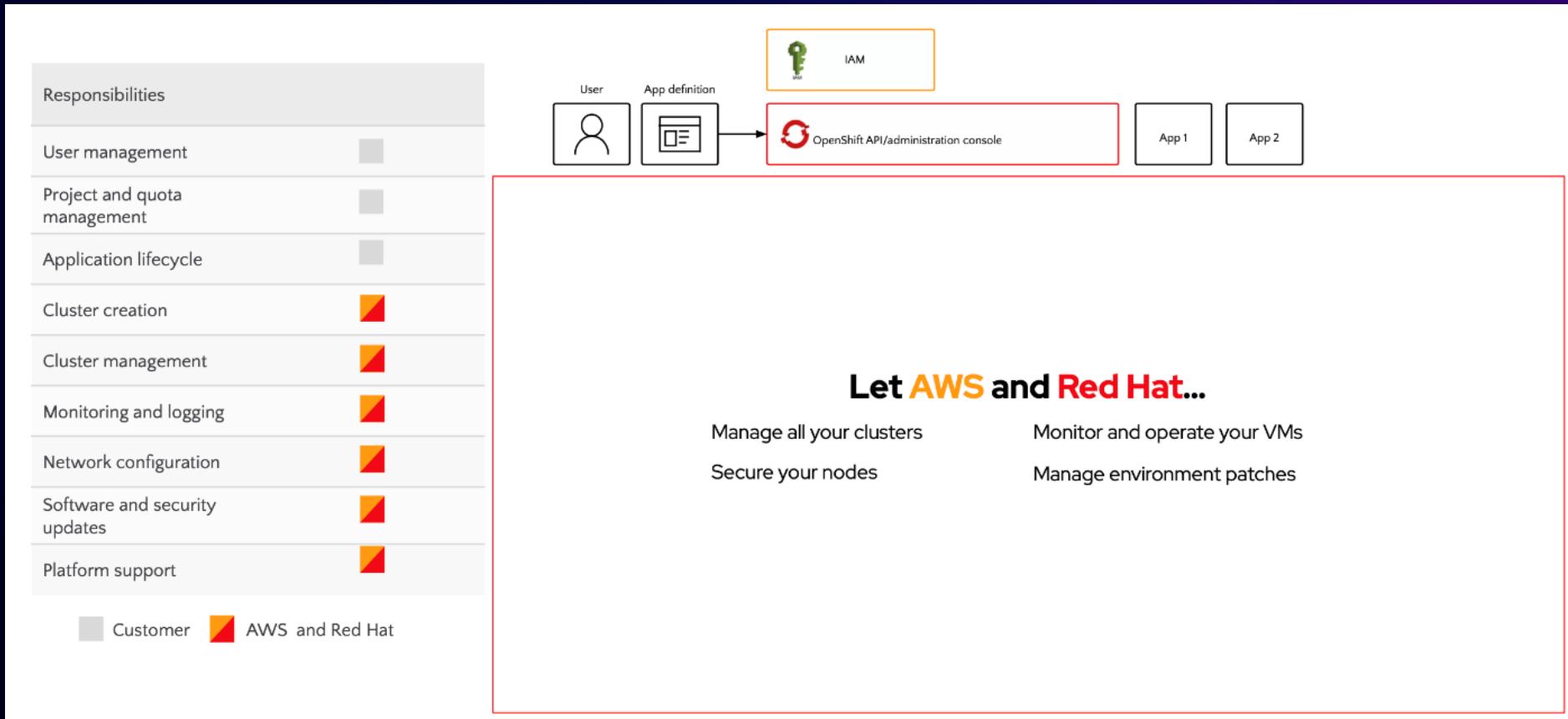
Running your own Red Hat OpenShift cluster

Responsibilities	
User management	<input type="checkbox"/>
Project and quota management	<input type="checkbox"/>
Application lifecycle	<input type="checkbox"/>
Cluster creation	<input type="checkbox"/>
Cluster management	<input type="checkbox"/>
Monitoring and logging	<input type="checkbox"/>
Network configuration	<input type="checkbox"/>
Software and security updates	<input type="checkbox"/>
Platform support	<input checked="" type="checkbox"/>

Customer AWS and Red Hat



Running your applications on ROSA



Virtual Machine Modernization Journey

WITH OPENSIFT VIRTUALIZATION, VMS ARE JUST ANOTHER WORKLOAD MANAGED BY ROSA



On-Prem VMs

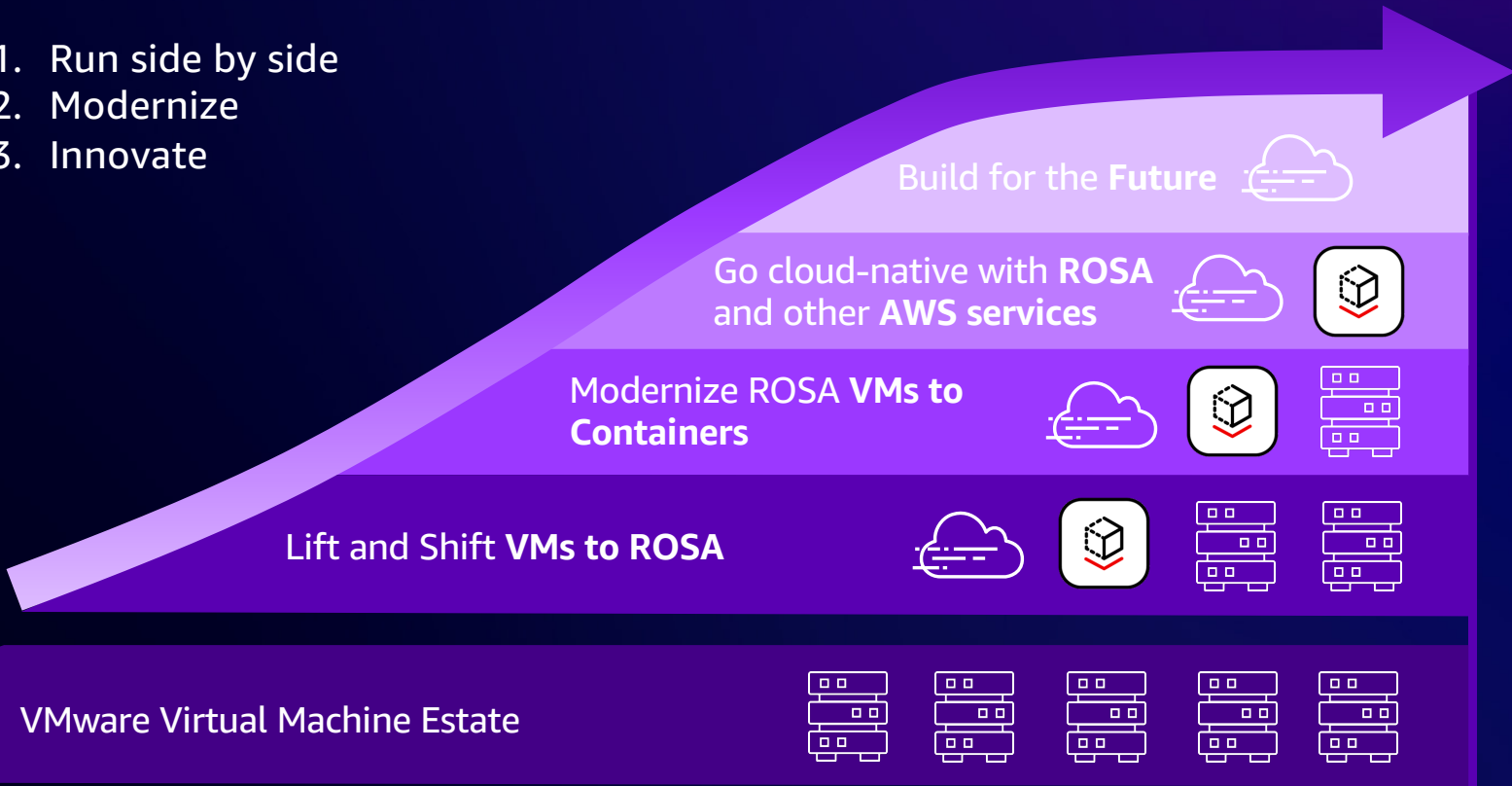
1. Run side by side
2. Modernize
3. Innovate



VMs Lifted to ROSA



Cloud Native Containers



State 4
Innovate

State 3
Refactor

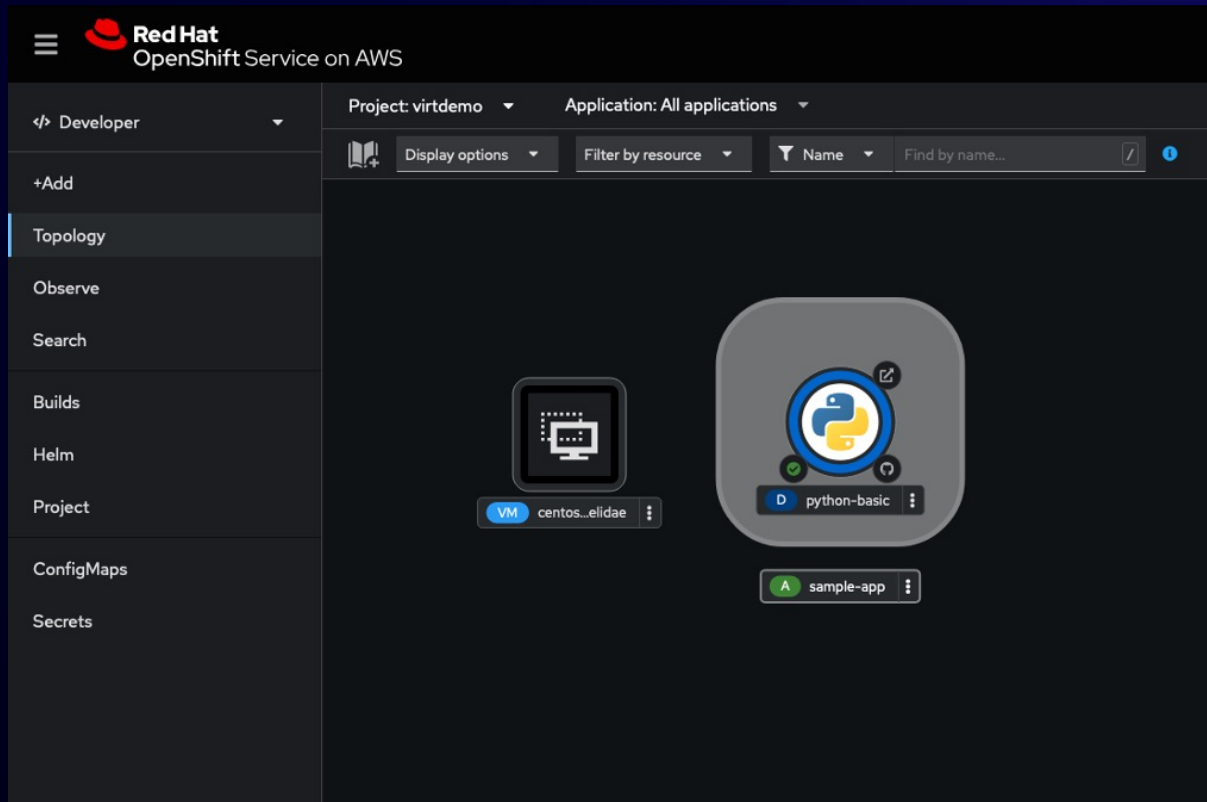
State 2
Replatform

State 1
Lift & Shift

State 0



OpenShift Virtualization on ROSA



Unified Platform
for VMs and Containers

Built-In Modernization Pathways
connect & consume VMs as container-native host workloads

- ❖ **Includes RHEL guest entitlements**
- ❖ **Supports Microsoft Windows** guests through **Microsoft SVVP**
- ❖ **Inbound guest migration** using **Migration Toolkit for Virtualization**
- ❖ **Established community**
KubeVirt is a top 10 CNCF active project, with 200+ contributing companies
- ❖ **Advanced Cluster Management**

Unique bare metal support on AWS!



Operational Expertise – You **can** or you **want**?



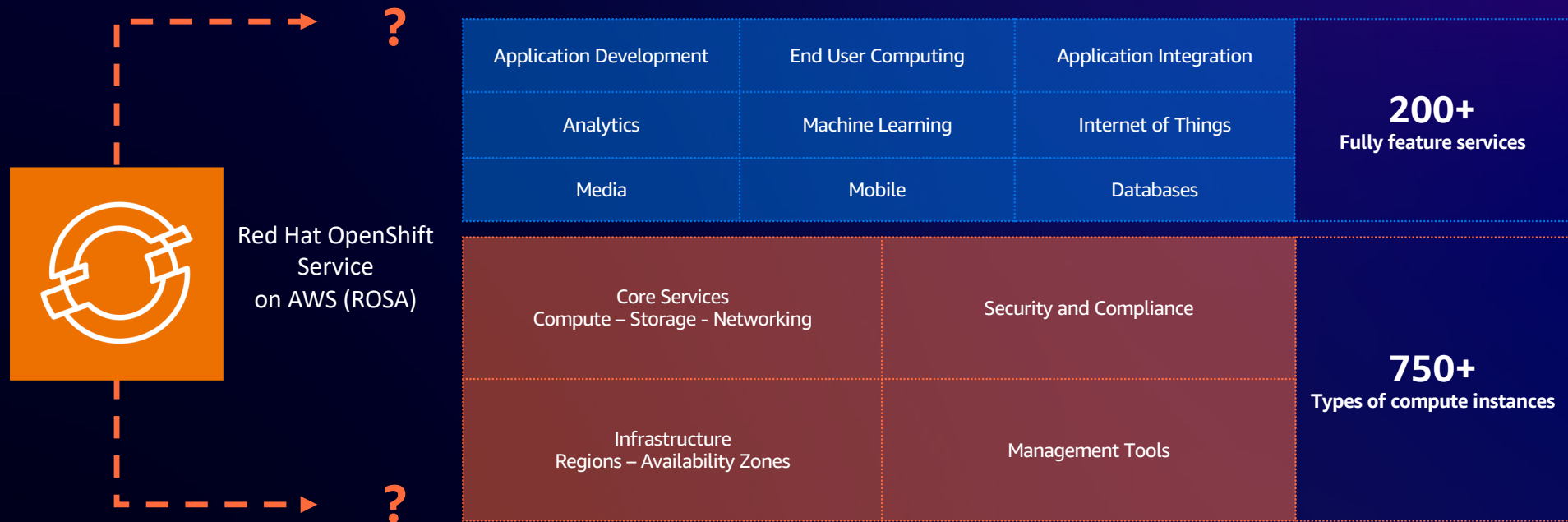
**“We like to say that
there is no compression
algorithm for experience.”**

Andy Jassy, CEO
Amazon.com, Inc

AWS Cloud Value Framework

- ▶ Cost savings (TCO)
- ▶ Operational resilience
- ▶ Staff productivity
- ▶ Business agility

Business value beyond the applications running on ROSA



App Integration, Analytics + ML



Amazon SNS



Amazon SQS



Amazon EventBridge



Amazon OpenSearch Service



Amazon Kinesis



Amazon SageMaker

Compute + Network Infrastructure



Amazon ECR



Amazon EC2



AWS Lambda



Amazon CloudFront



Amazon Route 53



Amazon VPC



Elastic Load Balancing



Red Hat OpenShift Service on AWS (ROSA)

AWS Controllers for Kubernetes (ACK) is an open source project built with ❤️ by AWS which lets lets you define and use AWS service resources directly from Kubernetes

Datastores



Amazon ElastiCache



Amazon Aurora



Amazon RDS



Amazon DynamoDB



Amazon EBS



Amazon FSx



Amazon S3



Amazon EFS

Operations + Security



AWS IAM



AWS KMS



AWS Secrets Manager



AWS WAF



AWS Systems Manager



Amazon CloudWatch



Amazon Managed Service for Prometheus



ROSA @ Helvetia



Key Drivers

- ❖ Strategic anchor: “Helvetia Strategy 2025” with a cloud first approach
- ❖ Main goal of programme: Focus on business logic implementation and innovation
- ❖ Consequence of programme goal: Leverage of managed service model for Helvetia Container Platform (HCP) on AWS
- ❖ Additional aspects in context of externalizing services: Regulatory compliance, security, and data privacy

Value Proposition

- ❖ Less manual efforts than running a self-managed platform
- ❖ Delegation of support to Red Hat SRE team
- ❖ Improvement in automatization of cluster provisioning
- ❖ TCO calculation leading to positive business case
- ❖ Scale on demand and Pay-as-you-go
- ❖ Improve time to value and build purpose specific cluster

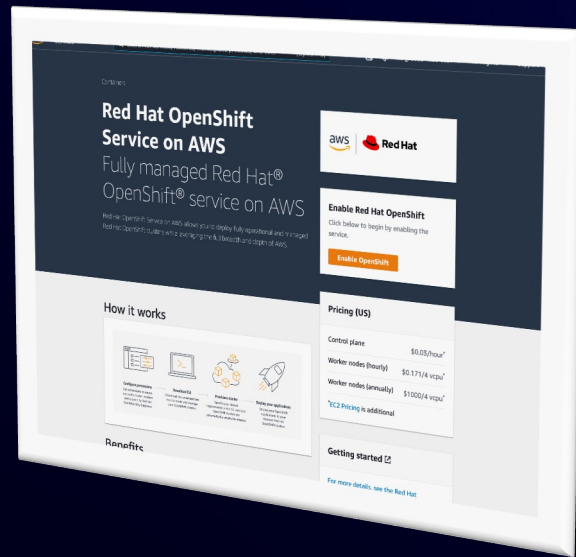


Red Hat OpenShift Service on AWS opens up possibilities for us that simply did not exist before. Using Red Hat’s managed cloud service helps us save costs and deliver real value to our customers.

Björn Fischer
Product Owner Helvetia Container Platform, Helvetia



Red Hat OpenShift Service on AWS - Summary



- ❖ Focus on **innovation** to add value to your business
- ❖ Lower costs by increasing **resource utilization**
- ❖ Reduce **operational** overhead
- ❖ Increase **scaling** capabilities
- ❖ Increase **security** and **compliance**
- ❖ No need to **re-architect** existing applications
- ❖ Helps to **accelerate** your cloud migration journey



Next Steps

- 📍 **Chat** with us after the session
- 📍 **Engage** ask your AWS representative about incentives for VMWare Migrations
- 📍 **Learn** by diving into our digital assets



Let's grow your business together



Red Hat

Thank You!

