

Red Hat's Strategic Importance in Cloud Modernization on AWS

Giacomo Tomolillo

Sr. Solutions Architect

Agenda

- ☐ Why AWS?
- AWS and Red Hat
- Red Hat OpenShift Service on AWS
- Next Steps



Why AWS?



AWS Availability Zone Design

34 AWS Regions 108 AWS Availability Zones



TCO Price Reductions

134 Price Reductions Since 2006



Resilient Infrastructure

Gartner Magic Quadrant Worldwide Leader for Cloud Infrastructure as a Service

Hardware Innovation

Recognized as the Most Innovative Cloud Provider; Exclusive Purpose-Built Hardware



AWS Inferentia and AWS Trainium

Al chips built for price performance of model training & serving



Amazon CloudFront

600+ Points of Presence, 100+ cities, 50+ countries



Breadth & Depth

200+ fully featured services support any cloud workload



Sustainable Operations

Match 100% of the electricity we consume with renewable energy



AWS Graviton

Powerful & efficient custom built Arm-based processors



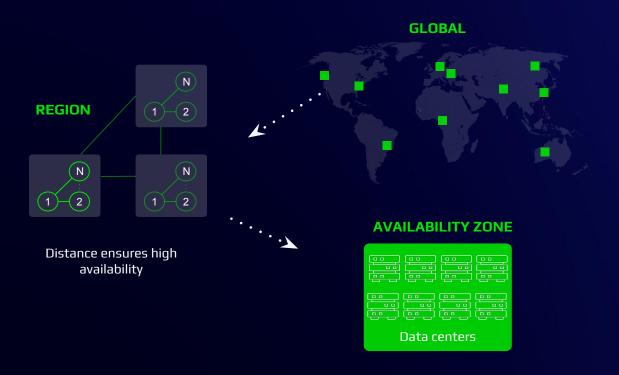
AWS Nitro System

Reduces costs of virtualization & maximizes server resources delivered to your EC2 instances

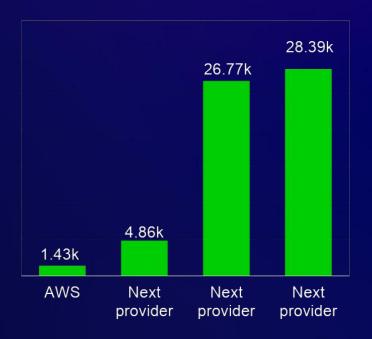


Gartner Recommends AWS For High Availability

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

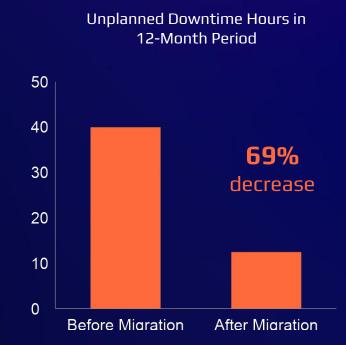
\$474K

Average cost/hr of downtime

\$1M

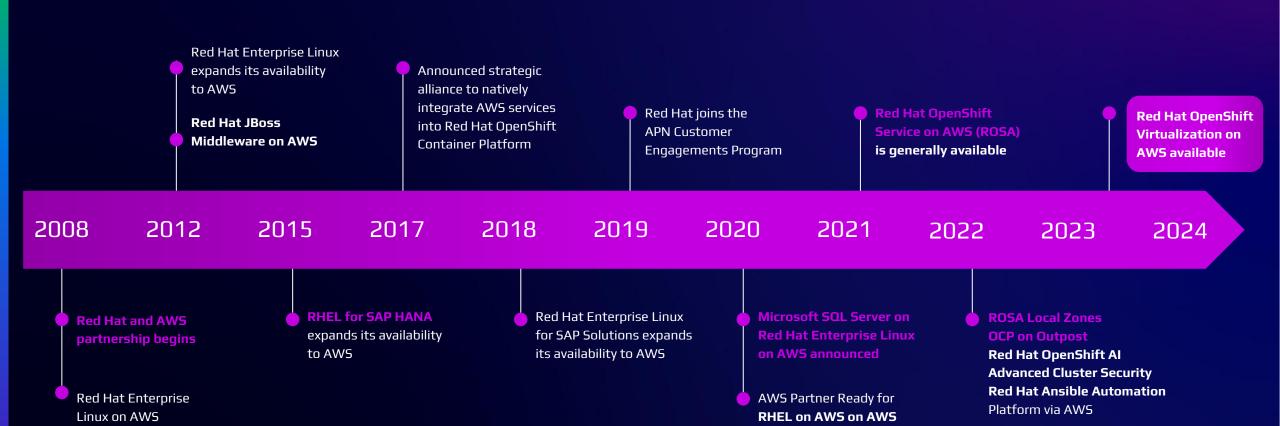
Cost/hr of a critical application failure

Before & After Migration to AWS



AWS and Red Hat - A Unique Partnership

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



Outpost was announced to support Open Hybrid Cloud



Why Red Hat OpenShift Service on AWS



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

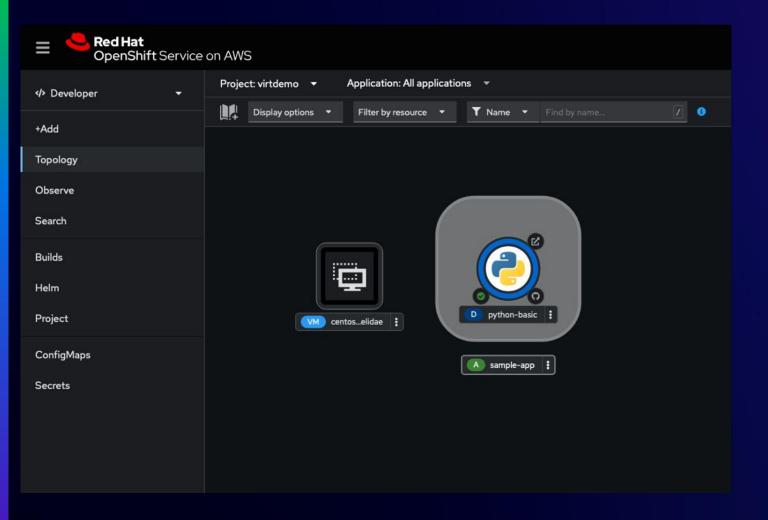
Integration with AWS services



 Build containerized applications that integrate natively with more than 170+ AWS cloud services



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!



Virtual Machine Modernization Journey

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



On-Prem VMs



VMs Lifted to ROSA



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





Go cloud-native with **ROSA** and other **AWS services**





Modernize ROSA **VMs to Containers**







Lift and Shift VMs to ROSA











State 4

Innovate

State 3

Refactor

State 2

Replatform



State 0

VMware Virtual Machine Estate













Delta Air Lines Uses ROSA to Run Wi-Fi on 600+ Planes

We chose ROSA as our container platform, and it's given us great benefits. If you've flown with us recently, it's hard to miss the free Wi-Fi. We've got about 600 planes flying all across the United States that are equipped with fast, free streaming Wi-Fi. That entire chassis, that entire user experience, is built on the cloud in a cloud-native way on ROSA. A real example of business value, business benefit, speed to market with security, with portability, with scalability, with resilience... all of those things that we need as technologists.

Rahul Samant

Executive Vice President and Chief Information Officer Delta Air Lines





Read the full Delta Air Lines Case Study



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 Al
- 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 Linuxw/ SQL Server: Also available w/ HA
- Red Hat OpenShift Service on AWS (Commercial, GovCloud, Local Zones)
- Red Hat OpenShift Virtualization on AWS



!! 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
 Scan:



• Register for the ROSA Virtual Workshop

Secure Software Development with Red Hat OpenShift on AWS (ROSA)

October 23, 2024 1:00 PM - 2:30 PM ET





Let's grow your business together



Thank You!

