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Introduzione a ROSA – Red Hat OpenShift Service on AWS

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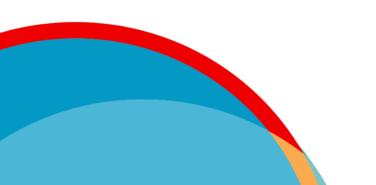
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Introduzione a ROSA – Red Hat OpenShift Service su AWS

Agenda:

- Modern Application Services Landscape
- AWS & Red Hat Partnership
- What is Red Hat OpenShift
- ROSA Red Hat OpenShift on AWS
- Options for Modern Applications
- Conclusions





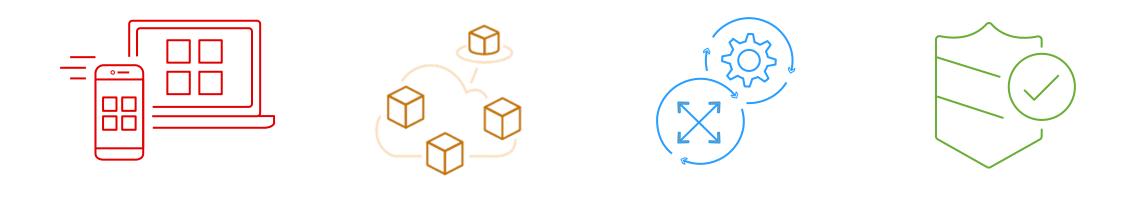


CIO's say 80% of developers' time is spent in operations and manteinance of applications and only 20% is spent on **innovation**





What customers ask for?



Build applications, **not infrastructure**

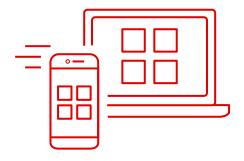
Manage infrastructure to their requirements

Scale quickly and seamlessly Security and isolation by design

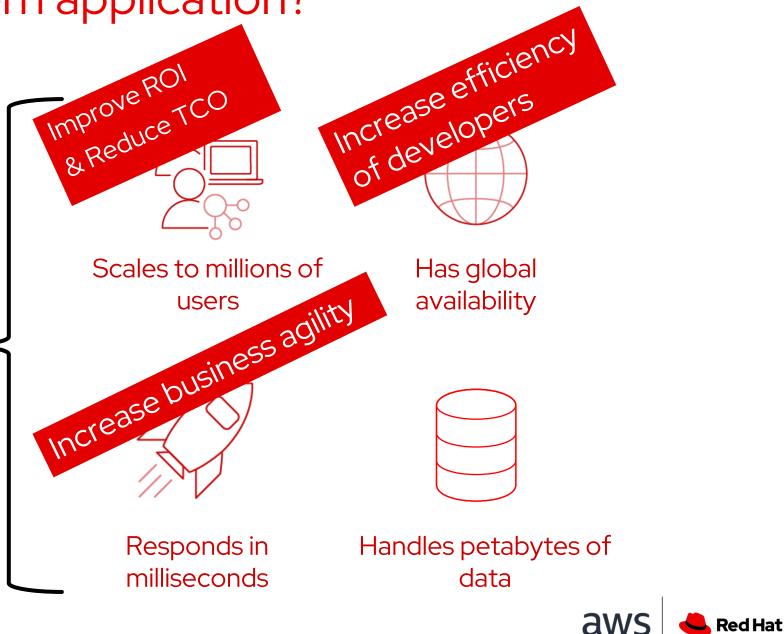
Increasing developer productivity (**innovation**) is the main priority now for customers



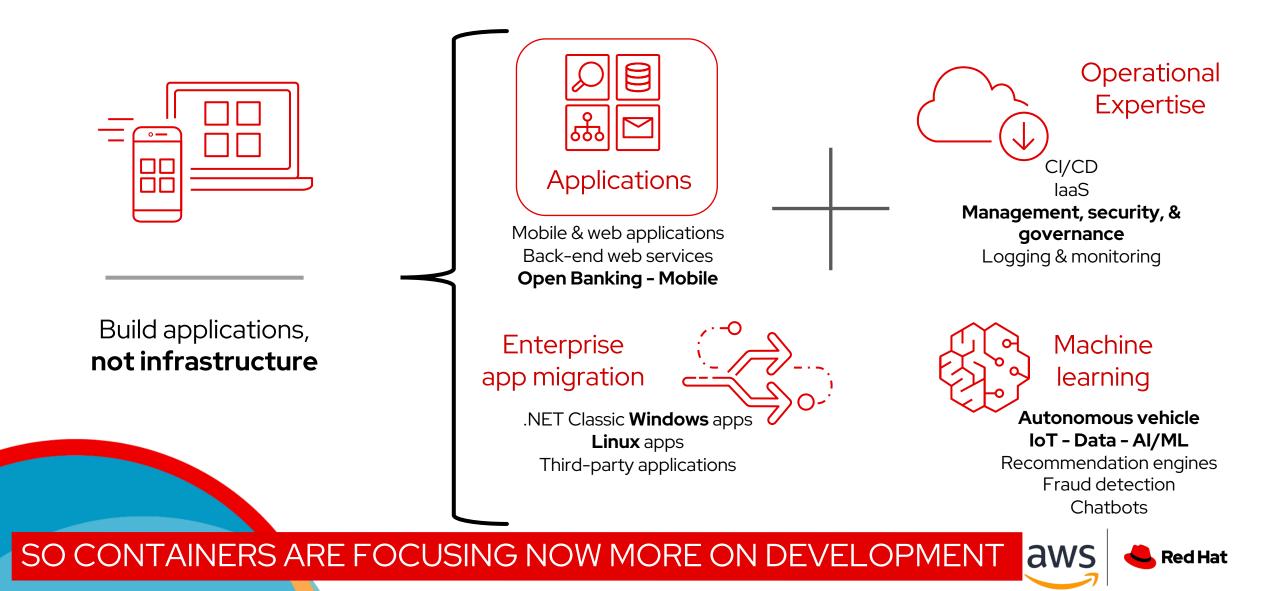
How is the modern application?



Build applications, **not infrastructure**



What are the customers building with containers?



Modern Application Computing Services Landscape





AWS and Red Hat Partnership Helps Customers Meet Digital Needs

Red Hat and AWS are industry leaders with extensive experience in IT infrastructure, hybrid cloud, digital transformation, and open source innovation.

Through collaborative engineering activities, they offer integrated, certified solutions to meet modern, digital business needs. Consistent, enterprisegrade platforms with advanced security and management features help organizations build IT infrastructure that supports their business efficiently and cost-effectively and adapts on their schedule.

Red Hat and AWS by the numbers

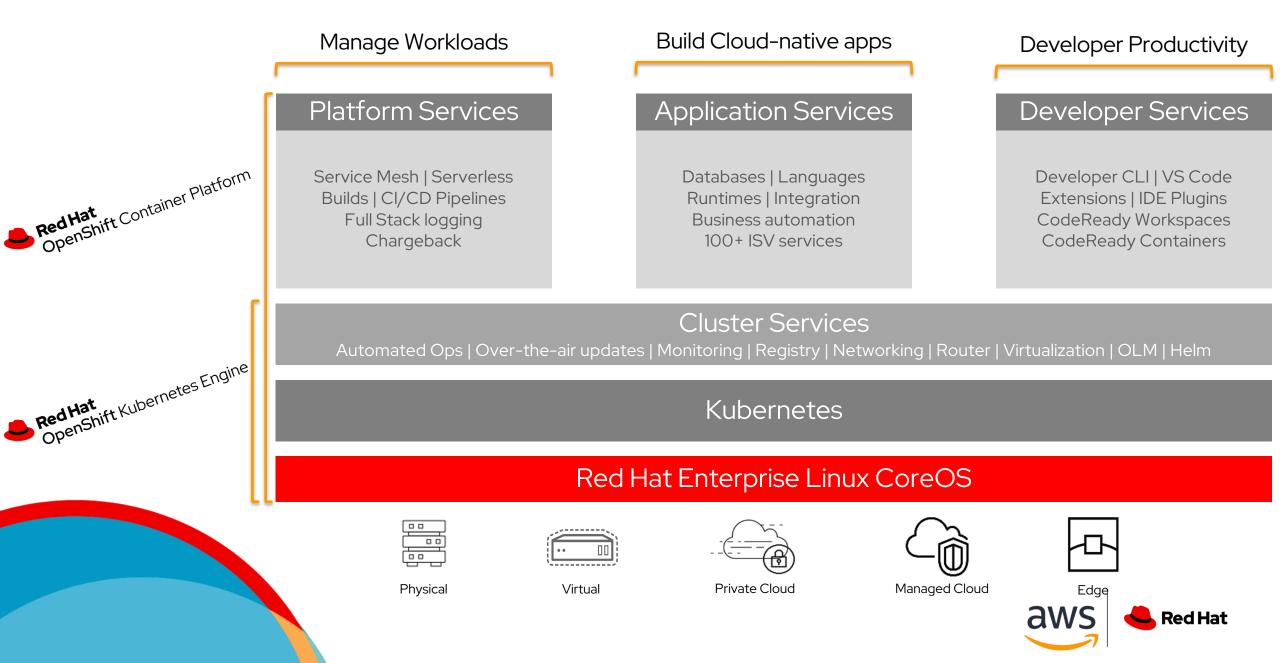
Partners since 2008

>60,000 of AWS customers consume Red Hat products and solutions

"Given that Red Hat is the world's leading provider of open-source solutions, our enterprise customers have been passionate about seamlessly running Red Hat Enterprise Linux and various other Red Hat solutions on AWS."

Andy Jassy | CEO, Amazon





OpenShift & AWS offer the broader set of hybrid cloud services

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



Benefits of ROSA – Turn-Key Application Platform



Developers

Fully managed clusters in minutes to build, deploy, and run applications using built-in developer UI that abstract the complexity of Kubernetes.

Collaborate across teams via shared projects.



Administrators

Standardized and streamlined operations across on-prem and cloud environments.

Built-in monitoring, logging, and networking

Choose platform version upgrades* as required for the business.



Consolidated billing and cost management across the business.

Consumption based pricing for surge and R&D usage.

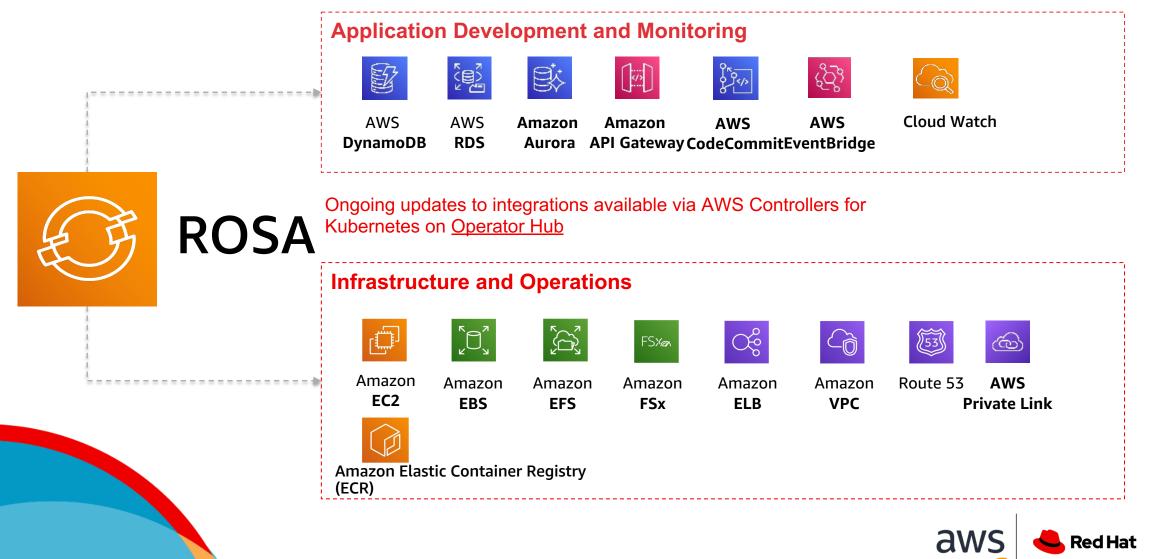
24x7 full-stack management and support

Financially backed 99.95% SLA

*Security patches are applied automatically - major and minor version upgrades are customer controlled



Accelerate Migration to Cloud with Integrated AWS Services



ROSA – Joint Offering from AWS & Red Hat

Who's responsible for what

On-premises	Cloud	
OpenShift Container Platform (OCP)	OpenShift Container Platform (OCP) on AWS	Red Hat OpenShift Service on AWS (ROSA)*
Customer	Customer	<mark>ا العام ال</mark>
Customer	Customer	<mark>ا العام ال</mark>
Customer	Customer	📥 Red Hat
ڂ Red Hat	ڂ Red Hat	Red Hat aws *
<mark> Red H</mark> at	ked Hat	aws
	OpenShift Container Platform (OCP) Customer Customer Customer	OpenShift Container Platform (OCP)OpenShift Container Platform (OCP) on AWSCustomerCustomerCustomerCustomerCustomerCustomerCustomerCustomerCustomerCustomerCustomerCustomer

Fully Managed

* AWS Business Support Plan required

Detailed Responsibility Matrix: https://docs.openshift.com/rosa/rosa_policy/rosa-policy-responsibilitymatrix.html



ROSA – Consumption based Pricing

https://aws.amazon.com/rosa/pricing/

ROSA Service Fees



- Accrue on demand per 4vCPU/hour for Worker Nodes
- Plus per cluster per hour

- AWS Infrastructure Fees
- Infra, Worker, and Control plane EC2 nodes and EBS volumes by region
- Data transfer costs for multi-AZ deployments

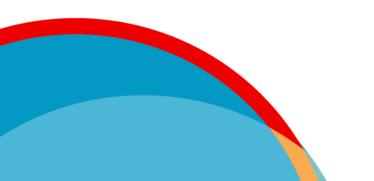
Pay As you Go and Private Offers

- 1 and 3 year subscriptions
- Reserved Instance Savings and EDP

Pricing for Red Hat OpenShift Service on AWS is the same for all AWS supported regions.



Options for Modern Application Platforms









Container Orchestration Services: EKS, ECS and ROSA



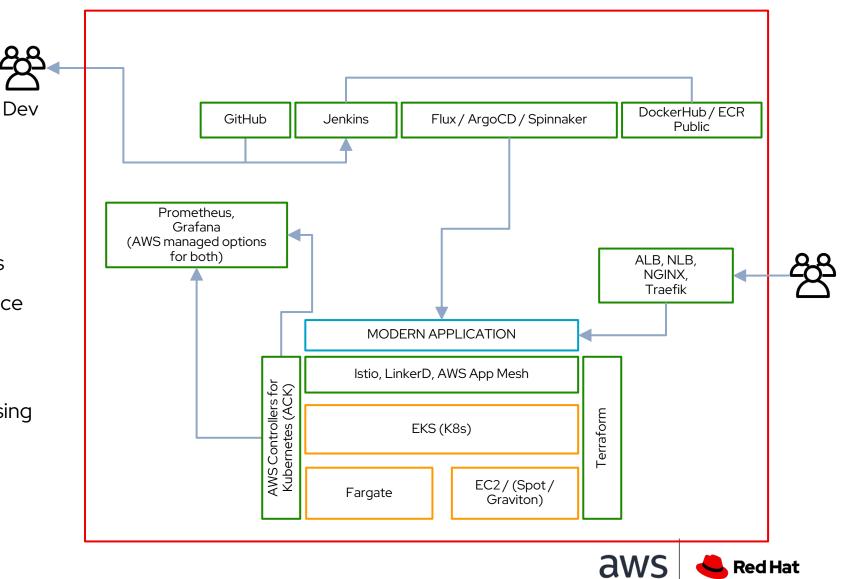


K

Amazon EKS

The Opensource <u>flexibility</u>

- 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

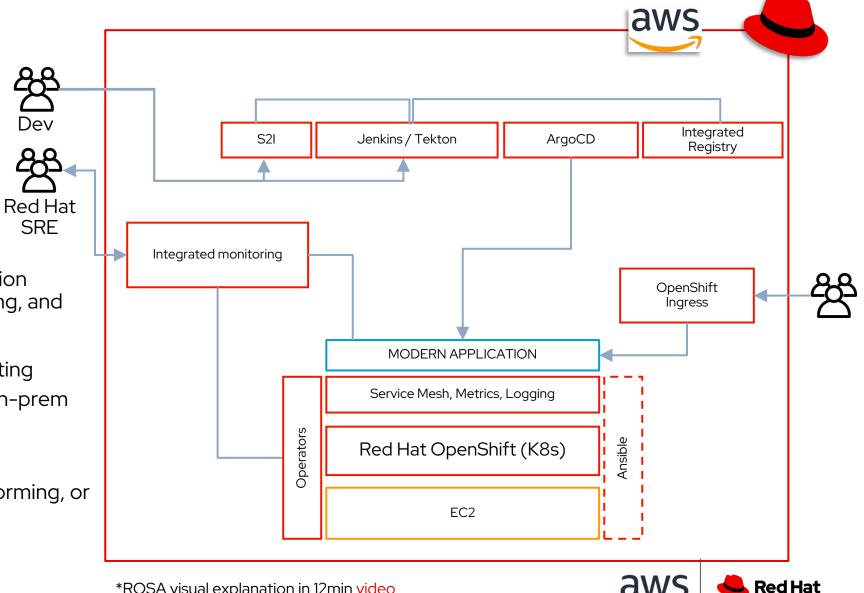




Red Hat OpenShift on AWS

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

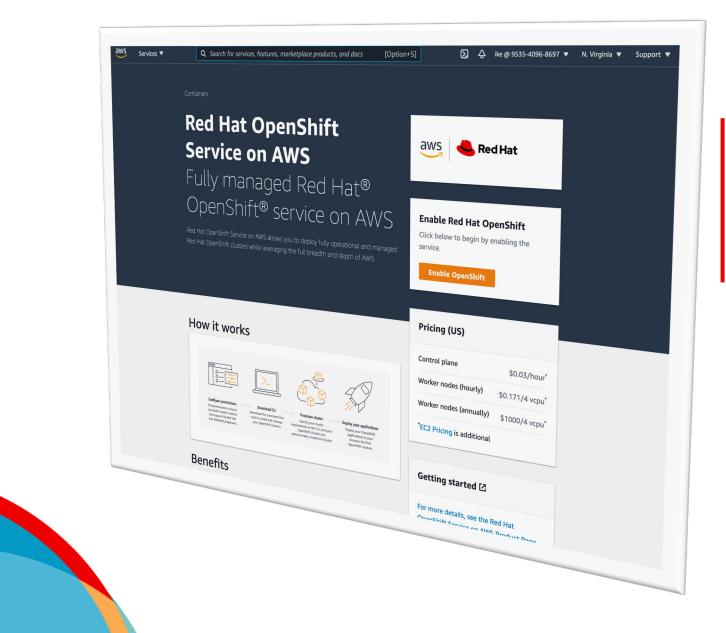
ROSA private cluster architecture







Console page for ROSA



ROSA is AWS Market place service based in a Red Hat Product

Joint Managed Service



AWS Consulting Partners for ROSA



Red Hat

Conclusion



Most customers choose to run OpenShift on AWS because they want to keep existing tools and practices while leveraging investments in the vast AWS services portfolio

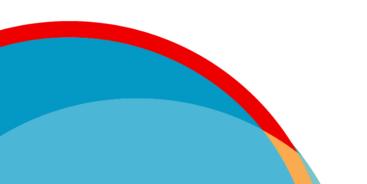
ROSA is the easiest and most convenient way to pay for and deploy fully supported and managed OpenShift clusters on AWS



Find out more!



AWS ROSA PRODUCT PAGE <u>https://aws.amazon.com/it/rosa/</u>





ROSA Docs https://docs.openshift.com/rosa/welcome/index.html





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Q&A?







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Grazie!



