

Day Zero at KubeCon NA Virtual | 17 November 2020





# Deep Dive into Red Hat OpenShift On Amazon (ROSA)

Speaker:

Andy Cathrow Senior Director of Product Management Managed Services

**OpenShift Commons Gathering** 

#### About me

#### Andy Cathrow

Sr Director of Product Management
 Managed Services

**Fedora** 

Bash

Python

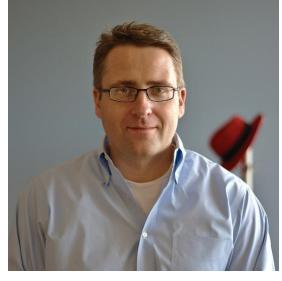
VIM

Chrome

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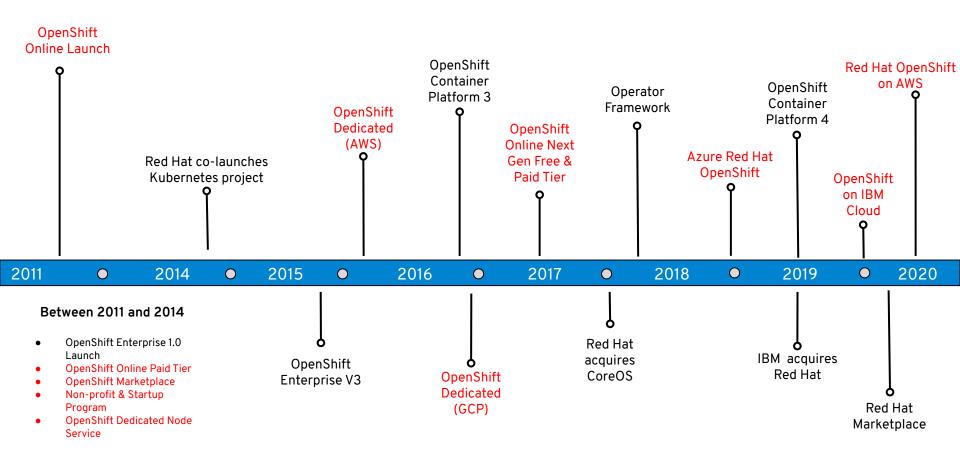


## Agenda

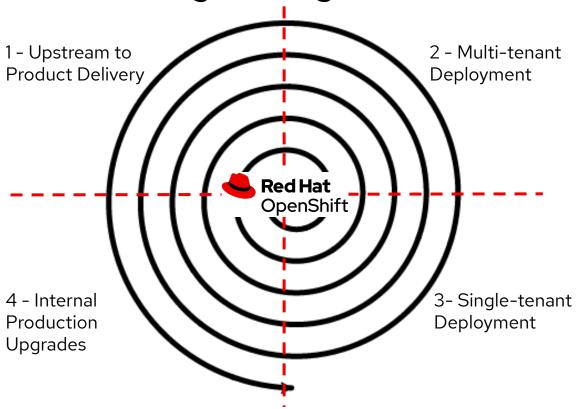
- Red Hat Managed Services ?
- Red Hat OpenShift Dedicated
- Red Hat OpenShift on AWS
- Demo



## Managed OpenShift - A Brief History



## The Managed OpenShift Model SRE Engineering Product Feedback Spiral



- One SRE | Support | Eng team
- Multi Cloud Footprint
- Production services like
  - Quay.io
  - Openshift.com
  - Cloud.redhat.com
  - Telemetry services
  - Red Hat Insights
- Continuous development and deployment model



## OpenShift offers the broadest set of hybrid cloud services

**Developer Experience** Productivity **Enterprise Readiness Red Hat OpenShift** aws IBM Cloud Google Cloud **Red Hat OpenShift Azure Red Hat Red Hat Red Hat OpenShift Dedicated** Container **OpenShift OpenShift OpenShift on IBM Red Hat OpenShift on Dedicated** Cloud Platform **AWS** Managed By Red Hat Jointly Managed & Managed By Red Hat Managed by IBM **OCP Customer Managed** Jointly supported by AWS supported by Microsoft Supported by IBM and or and Red Hat and Red Hat Red Hat **OCP Customer Managed** or or **OCP Customer Managed OCP Customer Managed** 

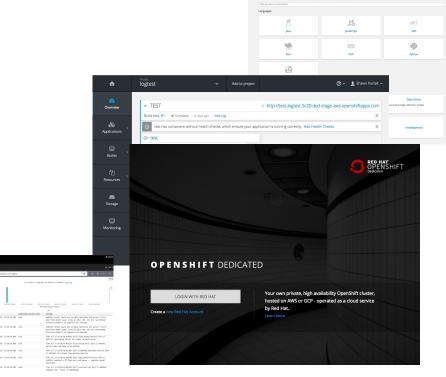


## OpenShift Dedicated

A fully managed OpenShift service

OpenShift Dedicated offers managed OpenShift clusters, hosted on AWS or Google and operated by Red Hat:

- Installed and maintained by Red Hat
- Red Hat owned or customer-owned AWS account
- Choice of region, node size, AZ distribution
- Authentication integration
- Integrated logging and metrics
- OpenShift Cluster Manager (OCM)
- Managed upgrades and patching
- VPN and VPC peering
- Premium Red Hat support







## OpenShift Dedicated

#### **Automation**

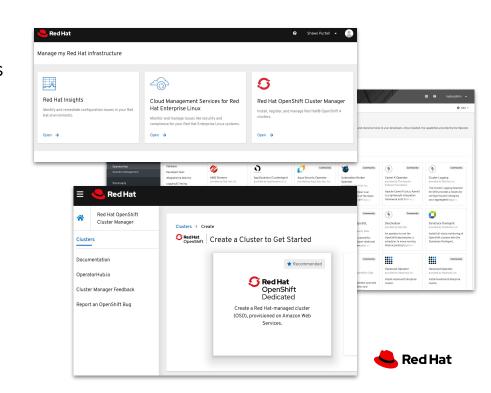
- More frequent updates
- Operator-based master and infra services

#### **Operator Support**

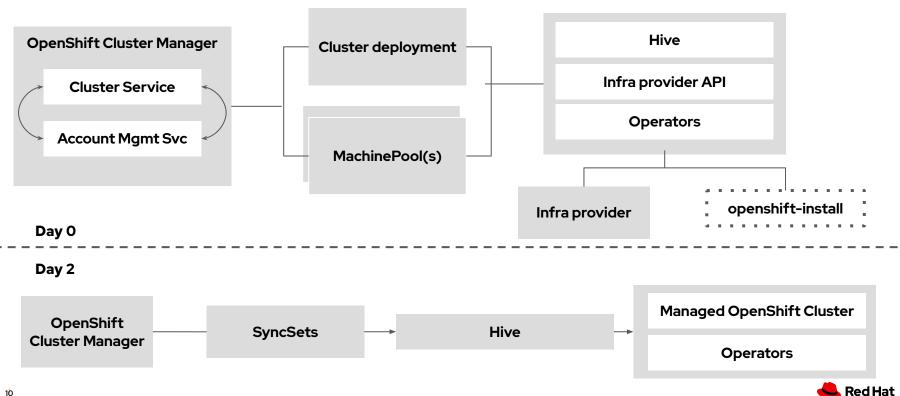
- Operator Framework
- OperatorHub & Certified ISVs

#### **Self-Service**

- OpenShift Cluster Manager (cloud.redhat.com)
- Provisioning clusters
- Dedicated-admin management
- Node scaling



## Service Delivery Management Plane



## Introducing





Red Hat OpenShift on AWS (ROSA)

Fully-managed Red Hat OpenShift service on AWS, jointly managed and supported by both Red Hat and AWS



#### Reduce operational complexity

Fully-managed OpenShift service, backed by enterprise class SLA enabling customers to focus on applications, not infrastructure



#### **Empower developers to** innovate

Quickly build and deploy applications by launching OpenShift through the AWS console



#### Flexible consumption based pricing

Scale as per your business needs and pay as you go with flexible pricing including hourly billing





### Red Hat OpenShift on AWS



#### **Native AWS service**

- Create OpenShift clusters from the AWS console
- AWS integrated experience for cluster creation and management
- Foundation based on RHEL, providing a stable and secure platform for hybrid deployments



#### **Unified bill**

- Leverage your existing AWS commitment to use OpenShift
- Get a single unified bill from AWS for both OpenShift and AWS consumption



#### **Joint Support**

- Integrated support systems
- Contact Red hat or AWS support
- Built on Red Hat and AWS' decades of enterprise IT knowledge and experience



## Integration with AWS Services

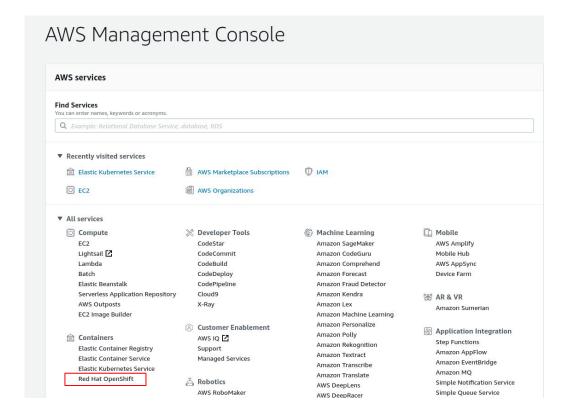
 Build containerized applications that integrate natively with the more than 170 AWS cloud-native services



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## User Experience

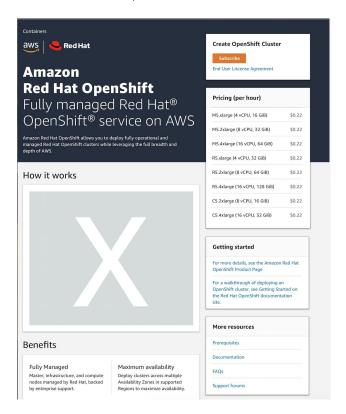


Red Hat OpenShift is found in the AWS Console along with other container services





## User Experience



A standard AWS Service Landing Page displays information about the service, including pricing, documentation and support information along with a link to download Red Hat's CLI





## User Experience

```
$ moactl describe cluster demo
```

Name: demo

ID: 1f6sgg0sp1rbhjue8bshp12985jhlfp3
External ID: e2ccabdd-51ab-425d-be62-00acf51b182c

AWS Account: 021212686670

API URL: https://api.demo.g6b3.pl.openshiftapps.com:6443

Console URL: https://console-openshift-console.apps.demo.f6b3.pl.openshiftapps.com

Nodes: Master: 3, Infra: 3, Compute: 8

Region: us-east-1 State: readv

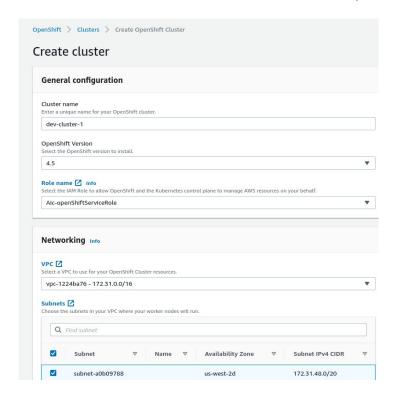
State: ready Created: Aug 21, 2020

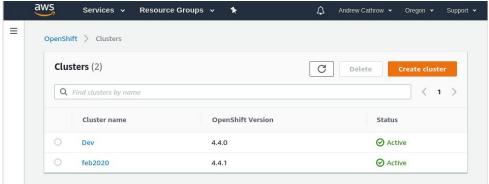
Users can create and manage clusters using the *moactl* command line utility





## Product Roadmap





Users will be able to create, delete, list and manage clusters within the Amazon console as well as the CLI and OpenShift Cluster Manager (OCM)

Integration with AWS IAM for SSO into OpenShift Console

More and deeper AWS Service Integration



## Thank you



http://linkedin.com/company/Red-Hat



http://facebook.com/RedHatinc



http://youtube.com/user/RedHatVideos



https://twitter.com/RedHat



https://www.openshift.com/products/amazon-openshift/faq



https://github.com/openshift/moactl

