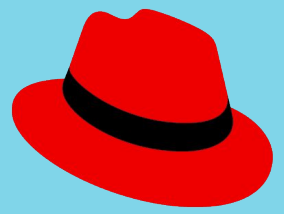


Red Hat

Rhys Powell

Managed Openshift Black Belt
Red Hat

Red Hat Summit

Hybrid Cloud: How managed services can deliver cloud success

And help clean up your on prem

Red Hat

EMEA Black Belt Team

Rhys Powell

Managed Openshift Black Belt

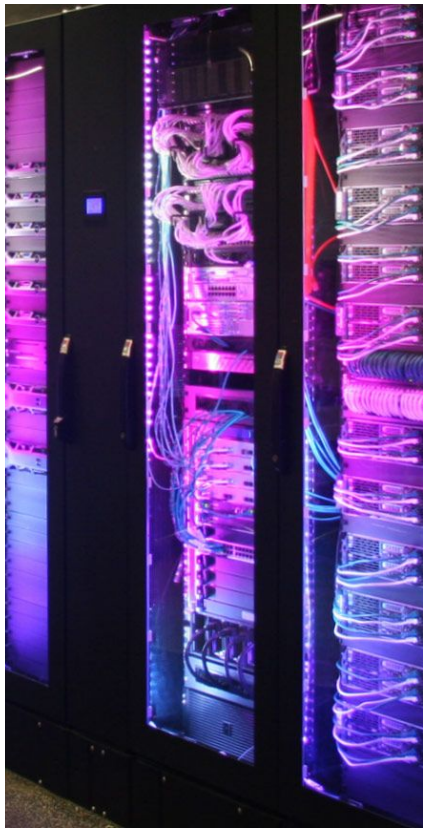
MOBB

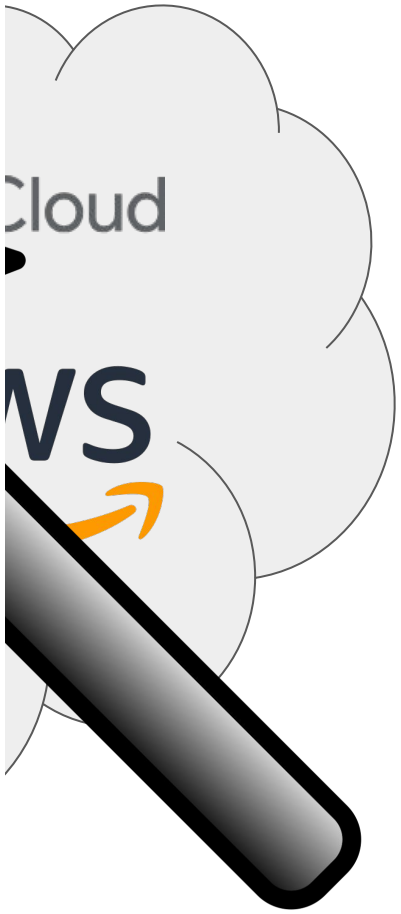
Red Hat

Managed Services, DC Cleanup, what?

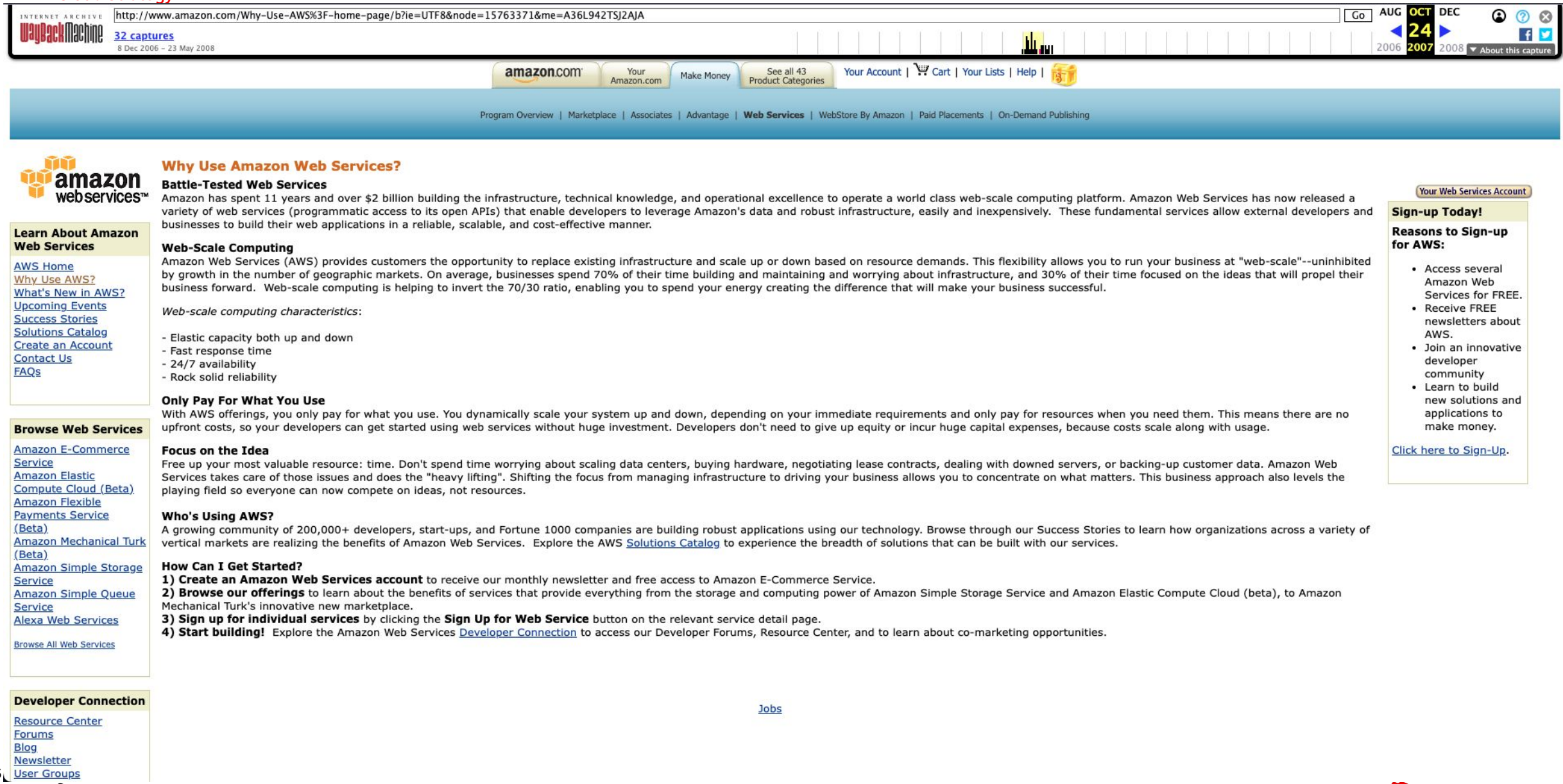
- Value
- Team
- Heavy lifting
- Focus
- Support
- Familiar

Red Hat





Red Hat



INTERNET ARCHIVE Wayback Machine
http://www.amazon.com/Why-Use-AWS%3F-home-page/b?ie=UTF8&node=15763371&me=A36L942TSJ2AJA
Go
32 captures
8 Dec 2006 – 23 May 2008
AUG OCT DEC
2006 24 2007 2008
About this capture

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Program Overview | Marketplace | Associates | Advantage | **Web Services** | WebStore By Amazon | Paid Placements | On-Demand Publishing

amazon web services™

Learn About Amazon Web Services

AWS Home
Why Use AWS?
What's New in AWS?
Upcoming Events
Success Stories
Solutions Catalog
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FAQs

Browse Web Services

Amazon E-Commerce Service
Amazon Elastic Compute Cloud (Beta)
Amazon Flexible Payments Service (Beta)
Amazon Mechanical Turk (Beta)
Amazon Simple Storage Service
Amazon Simple Queue Service
Alexa Web Services

Browse All Web Services

Developer Connection

Resource Center
Forums
Blog
Newsletter
User Groups

Why Use Amazon Web Services?

Battle-Tested Web Services
Amazon has spent 11 years and over $2 billion building the infrastructure, technical knowledge, and operational excellence to operate a world class web-scale computing platform. Amazon Web Services has now released a variety of web services (programmatic access to its open APIs) that enable developers to leverage Amazon's data and robust infrastructure, easily and inexpensively. These fundamental services allow external developers and businesses to build their web applications in a reliable, scalable, and cost-effective manner.

Web-Scale Computing
Amazon Web Services (AWS) provides customers the opportunity to replace existing infrastructure and scale up or down based on resource demands. This flexibility allows you to run your business at "web-scale"--uninhibited by growth in the number of geographic markets. On average, businesses spend 70% of their time building and maintaining and worrying about infrastructure, and 30% of their time focused on the ideas that will propel their business forward. Web-scale computing is helping to invert the 70/30 ratio, enabling you to spend your energy creating the difference that will make your business successful.

Web-scale computing characteristics:

- Elastic capacity both up and down
- Fast response time
- 24/7 availability
- Rock solid reliability

Only Pay For What You Use
With AWS offerings, you only pay for what you use. You dynamically scale your system up and down, depending on your immediate requirements and only pay for resources when you need them. This means there are no upfront costs, so your developers can get started using web services without huge investment. Developers don't need to give up equity or incur huge capital expenses, because costs scale along with usage.

Focus on the Idea
Free up your most valuable resource: time. Don't spend time worrying about scaling data centers, buying hardware, negotiating lease contracts, dealing with downed servers, or backing-up customer data. Amazon Web Services takes care of those issues and does the "heavy lifting". Shifting the focus from managing infrastructure to driving your business allows you to concentrate on what matters. This business approach also levels the playing field so everyone can now compete on ideas, not resources.

Who's Using AWS?
A growing community of 200,000+ developers, start-ups, and Fortune 1000 companies are building robust applications using our technology. Browse through our Success Stories to learn how organizations across a variety of vertical markets are realizing the benefits of Amazon Web Services. Explore the AWS Solutions Catalog to experience the breadth of solutions that can be built with our services.

How Can I Get Started?
1) Create an Amazon Web Services account to receive our monthly newsletter and free access to Amazon E-Commerce Service.
2) Browse our offerings to learn about the benefits of services that provide everything from the storage and computing power of Amazon Simple Storage Service and Amazon Elastic Compute Cloud (beta), to Amazon Mechanical Turk's innovative new marketplace.
3) Sign up for individual services by clicking the **Sign Up for Web Service** button on the relevant service detail page.
4) Start building! Explore the Amazon Web Services Developer Connection to access our Developer Forums, Resource Center, and to learn about co-marketing opportunities.

Your Web Services Account

Sign-up Today!

Reasons to Sign-up for AWS:

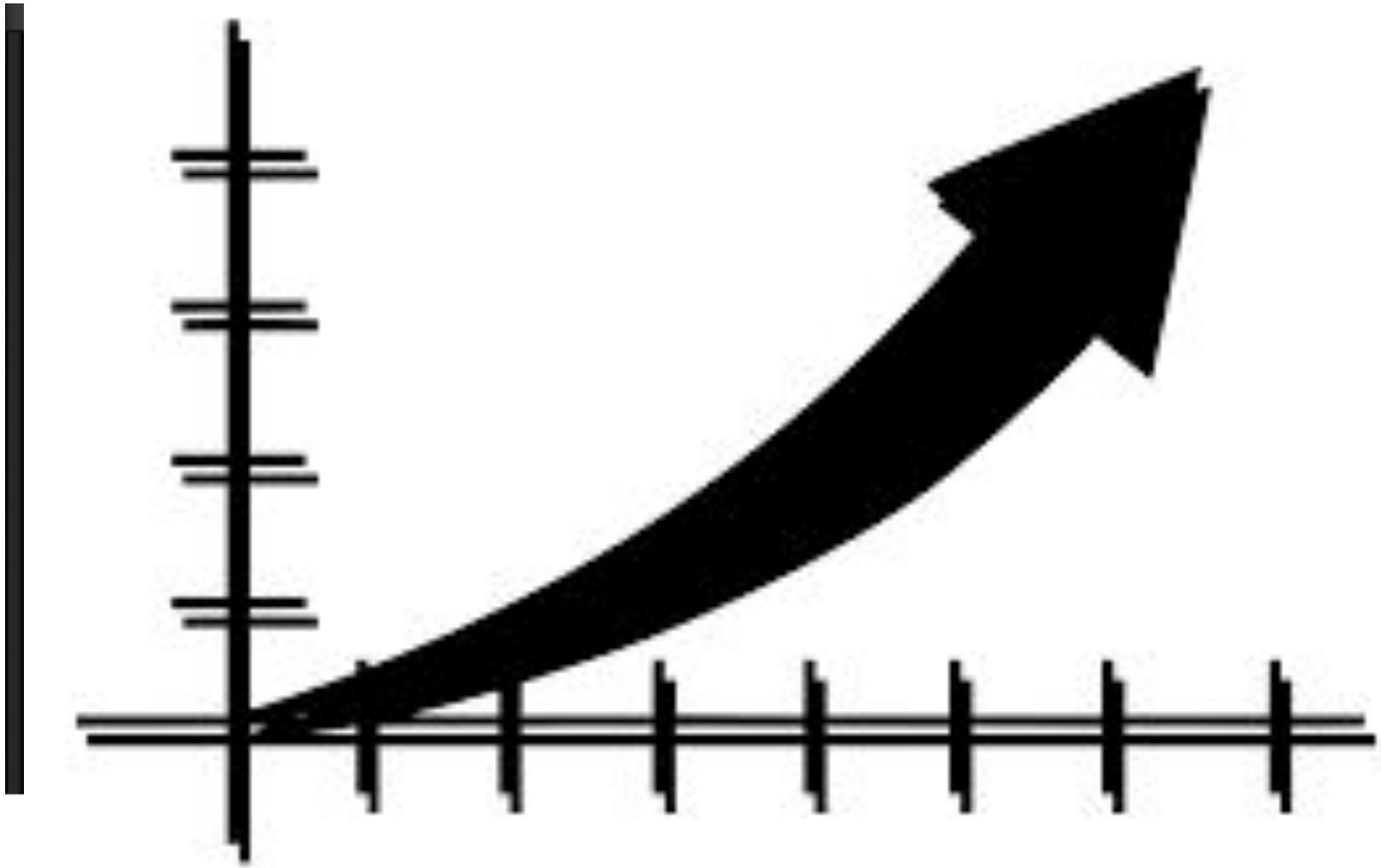
- Access several Amazon Web Services for FREE.
- Receive FREE newsletters about AWS.
- Join an innovative developer community
- Learn to build new solutions and applications to make money.

Click here to Sign-Up.

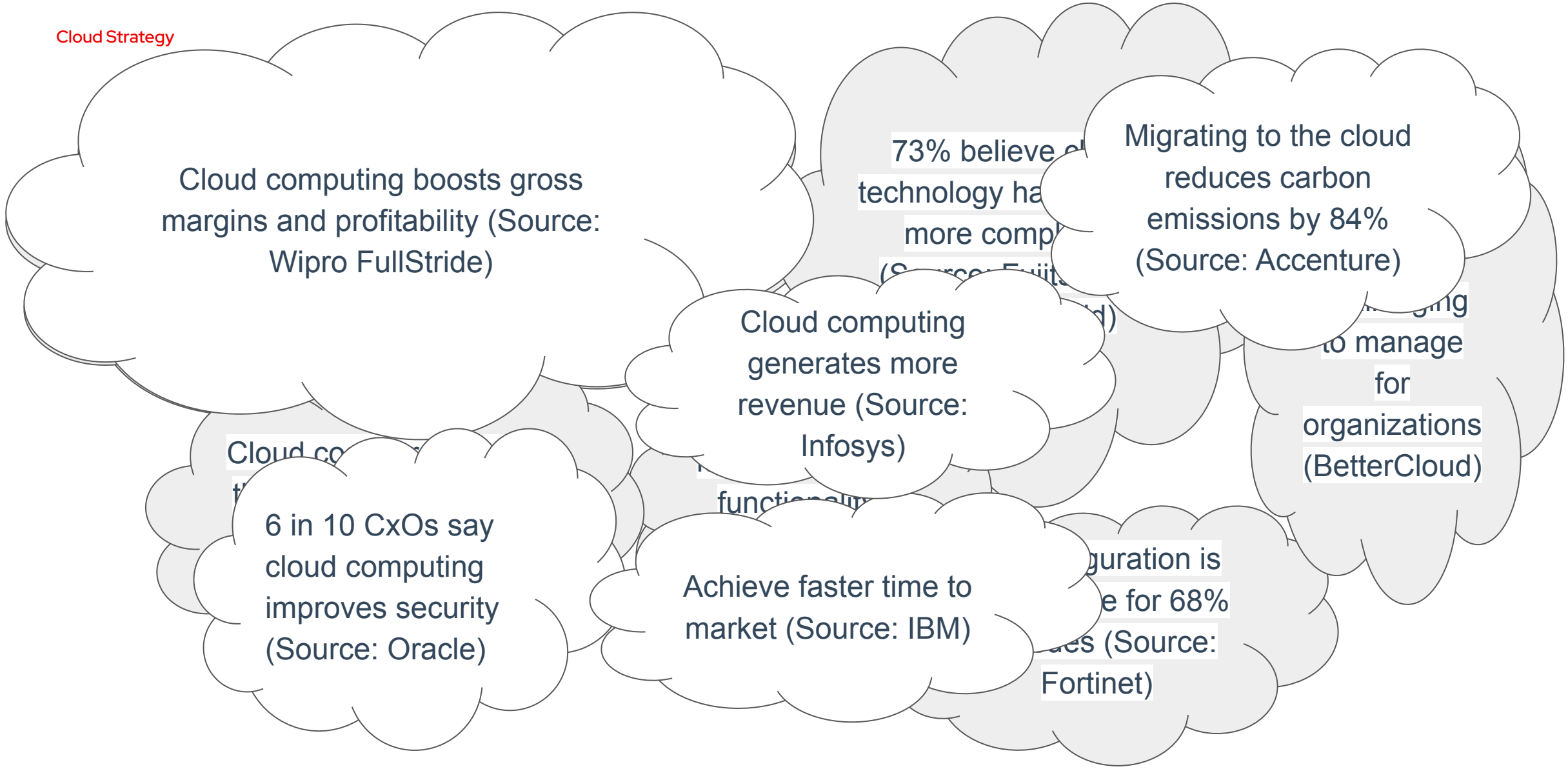
Jobs

Source:
Wayback machine

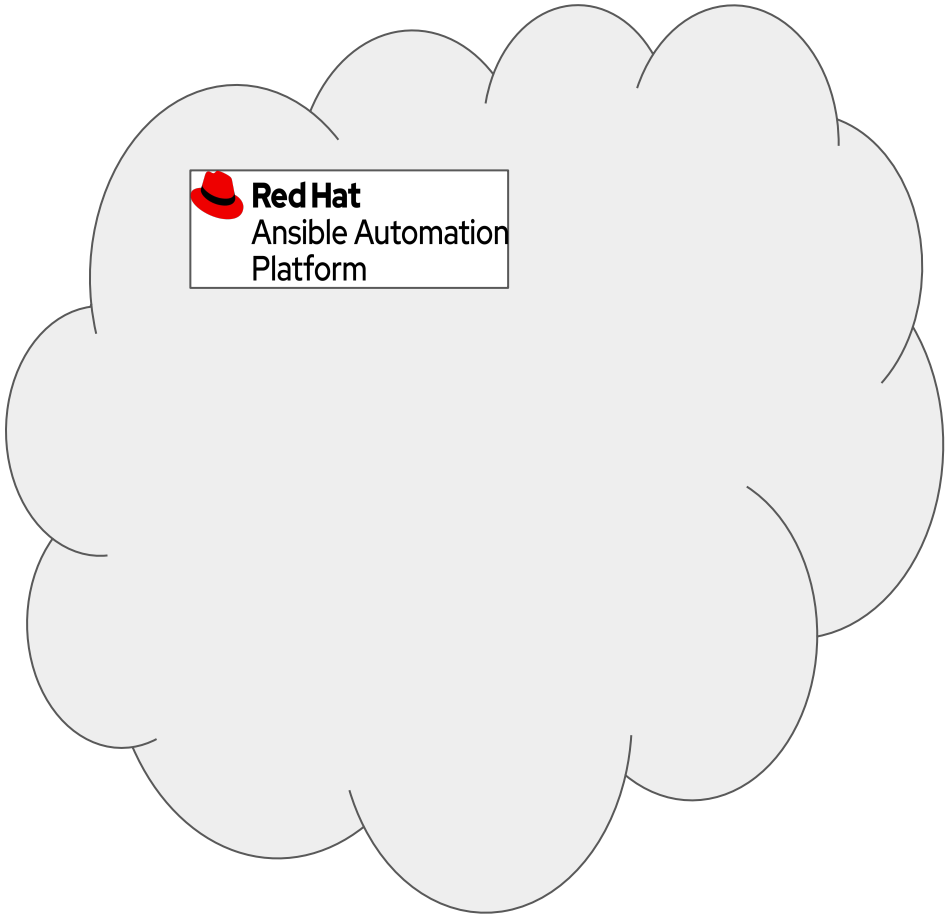
Red Hat



Red Hat


Cloud computing boosts gross margins and profitability (Source: Wipro FullStride)
Migrating to the cloud reduces carbon emissions by 84% (Source: Accenture)
Cloud computing generates more revenue (Source: Infosys)
6 in 10 CxOs say cloud computing improves security (Source: Oracle)
Achieve faster time to market (Source: IBM)
for organizations (BetterCloud)
Fortinet)

Red Hat

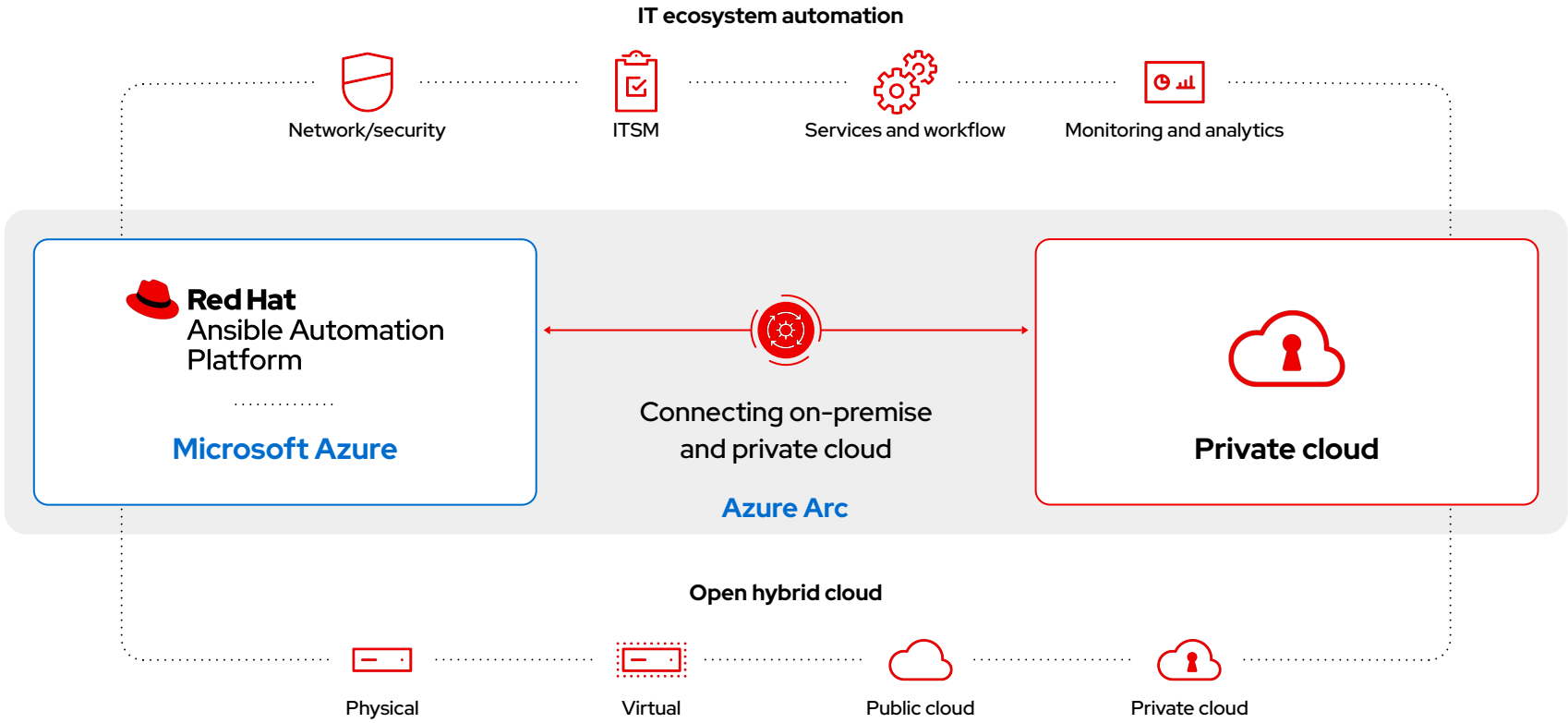


Red Hat

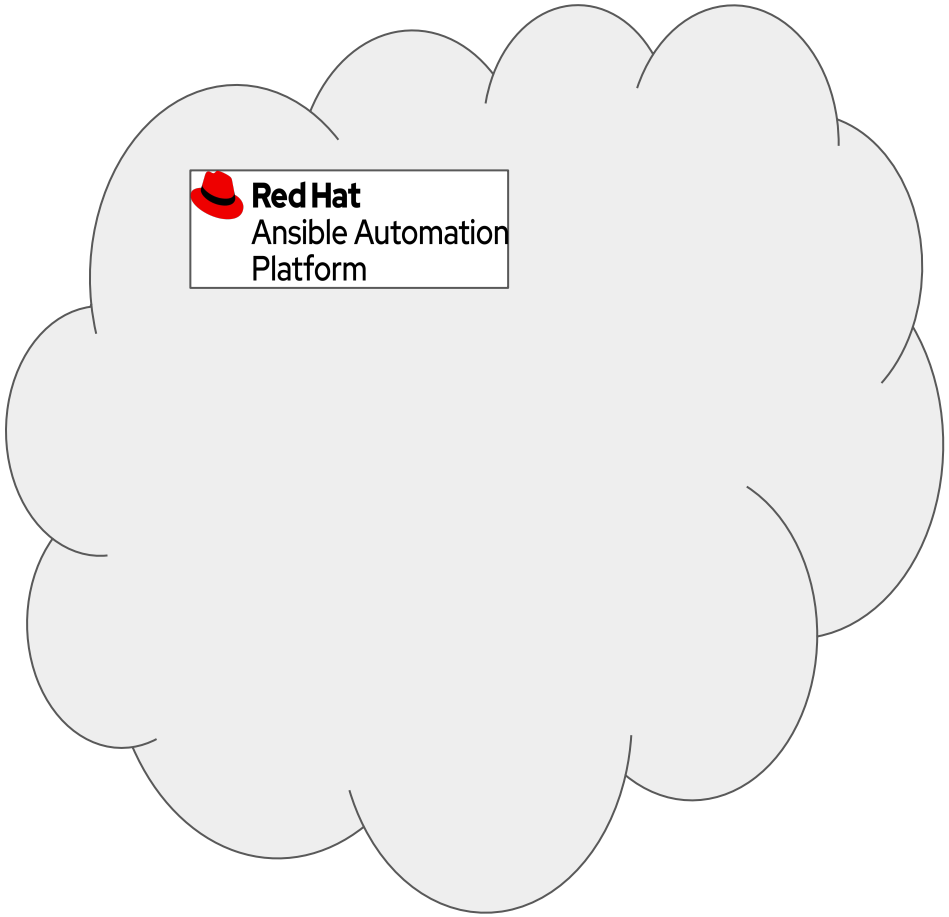
Red Hat Ansible Automation Platform on Azure Marketplace

Automation from your Azure cloud to on-premises, edge, and IT resources

- **Runs in your Azure cloud**
- **Fully installed and integrated**
- **Fully supported by Red Hat**
- **Integrated to Microsoft Azure billing**
- **Counts toward spend agreements**



Red Hat | Microsoft Azure



Red Hat

Red Hat OpenShift cloud services

A turnkey application platform with management and support from Red Hat and leading cloud providers

aws

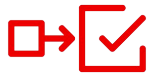
Microsoft Azure

IBM Cloud

Google Cloud

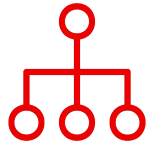
Accelerate time to value

Quickly build, deploy, and run applications that scale as needed.



Operational efficiency

Enhance operational consistency, efficiency and security with proactive management and support.



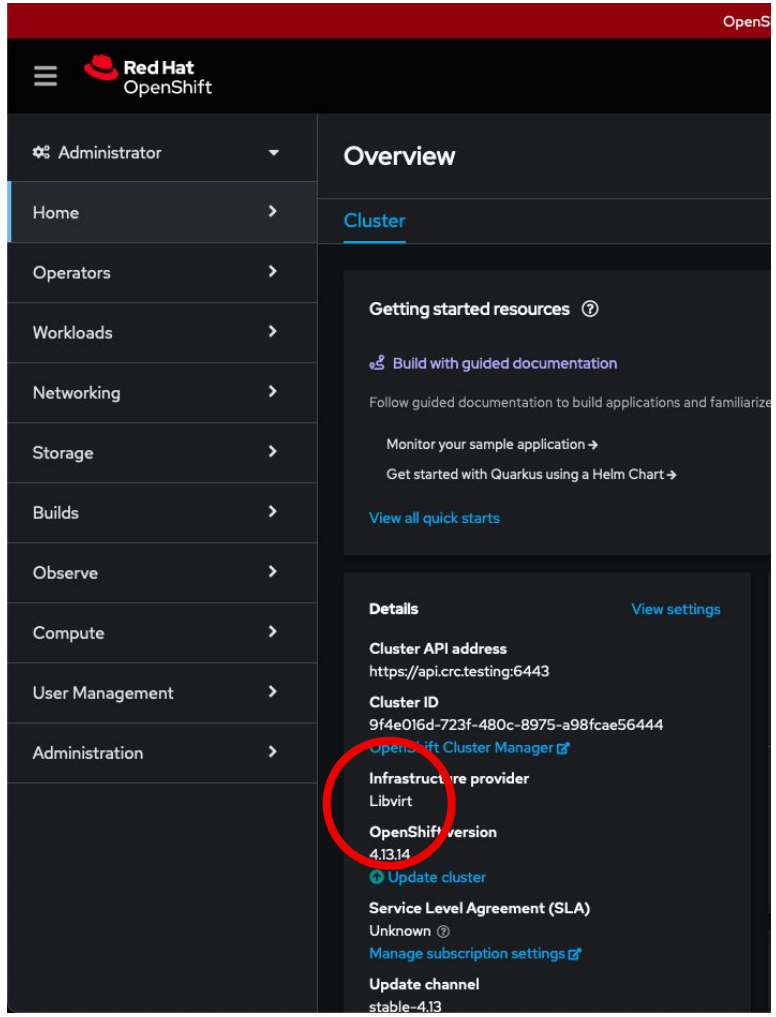
Focus on innovation

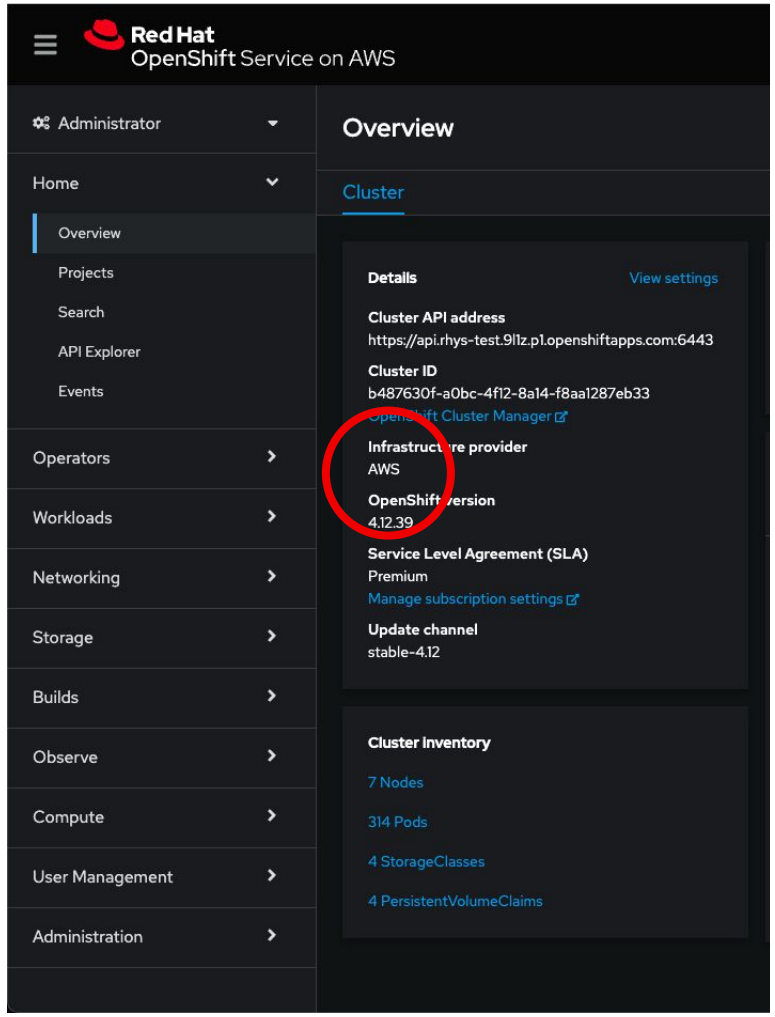
Simplify operations so your teams can refocus on innovation, not managing infrastructure.

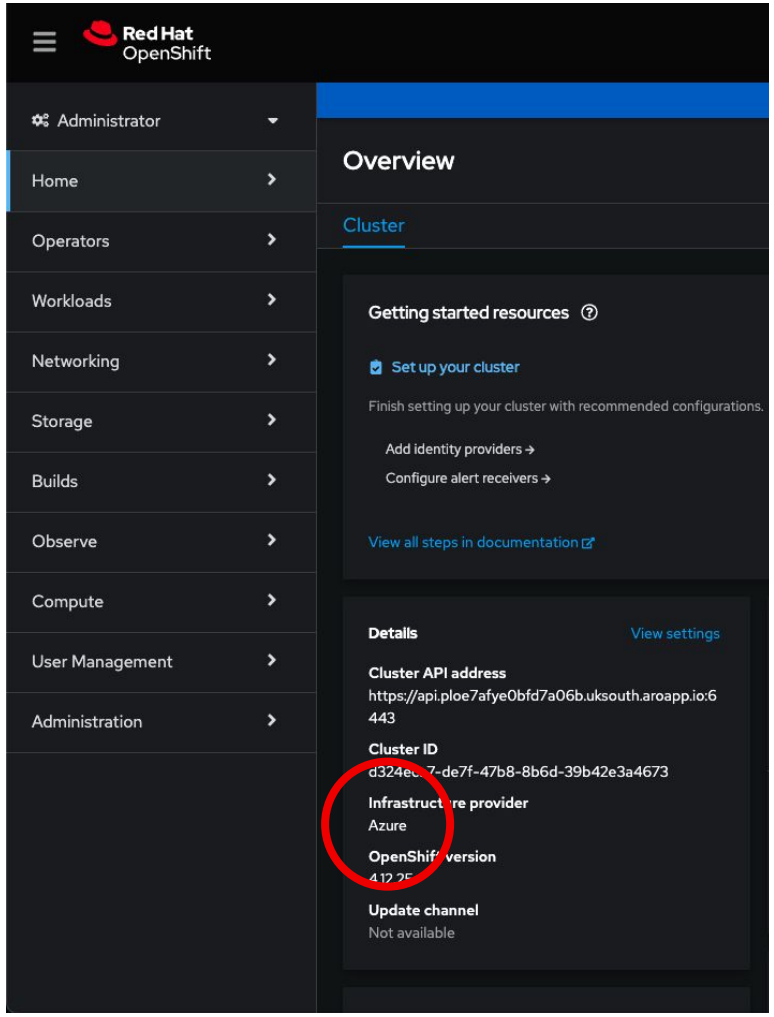
Hybrid cloud flexibility

Deliver a consistent experience on premises and in the cloud.

Red Hat


Red Hat
OpenShift
Administrator
Home
Operators
Workloads
Networking
Storage
Builds
Observe
Compute
User Management
Administration
Overview
Cluster
Getting started resources
Build with guided documentation
Follow guided documentation to build applications and familiarize
Monitor your sample application
Get started with Quarkus using a Helm Chart
View all quick starts
Details
View settings
Cluster API address
https://api.crc.testing:6443
Cluster ID
9f4e016d-723f-480c-8975-a98fcae56444
Infrastructure provider
Libvirt
OpenShift version
4.13.14
Update cluster
Service Level Agreement (SLA)
Unknown
Manage subscription settings
Update channel
stable-4.13


Red Hat
OpenShift Service on AWS
Administrator
Home
Overview
Projects
Search
API Explorer
Events
Operators
Workloads
Networking
Storage
Builds
Observe
Compute
User Management
Administration
Overview
Cluster
Details
View settings
Cluster API address
https://api.rhys-test.9l1z.p1.openshiftapps.com:6443
Cluster ID
b487630f-a0bc-4f12-8a14-f8aa1287eb33
Infrastructure provider
AWS
OpenShift version
4.12.39
Service Level Agreement (SLA)
Premium
Manage subscription settings
Update channel
stable-4.12
Cluster Inventory
7 Nodes
314 Pods
4 StorageClasses
4 PersistentVolumeClaims


Red Hat
OpenShift
Administrator
Home
Operators
Workloads
Networking
Storage
Builds
Observe
Compute
User Management
Administration
Overview
Cluster
Getting started resources
Set up your cluster
Finish setting up your cluster with recommended configurations.
Add identity providers
Configure alert receivers
View all steps in documentation
Details
View settings
Cluster API address
https://api.ploe7afye0bfd7a06b.uksouth.aroapp.io:6443
Cluster ID
Infrastructure provider
Azure
Update channel
Not available

Red Hat

The same system but with a team for your team.

The Assembled Car

Monitoring | Service Mesh | Dev Tools
Registry | Metrics | Logging | CI/CD
OpenShift Cluster Services
Networking :: Router :: OLM
Kubernetes
Red Hat Core OS

- Application Platform -
Self-managed Red Hat OpenShift

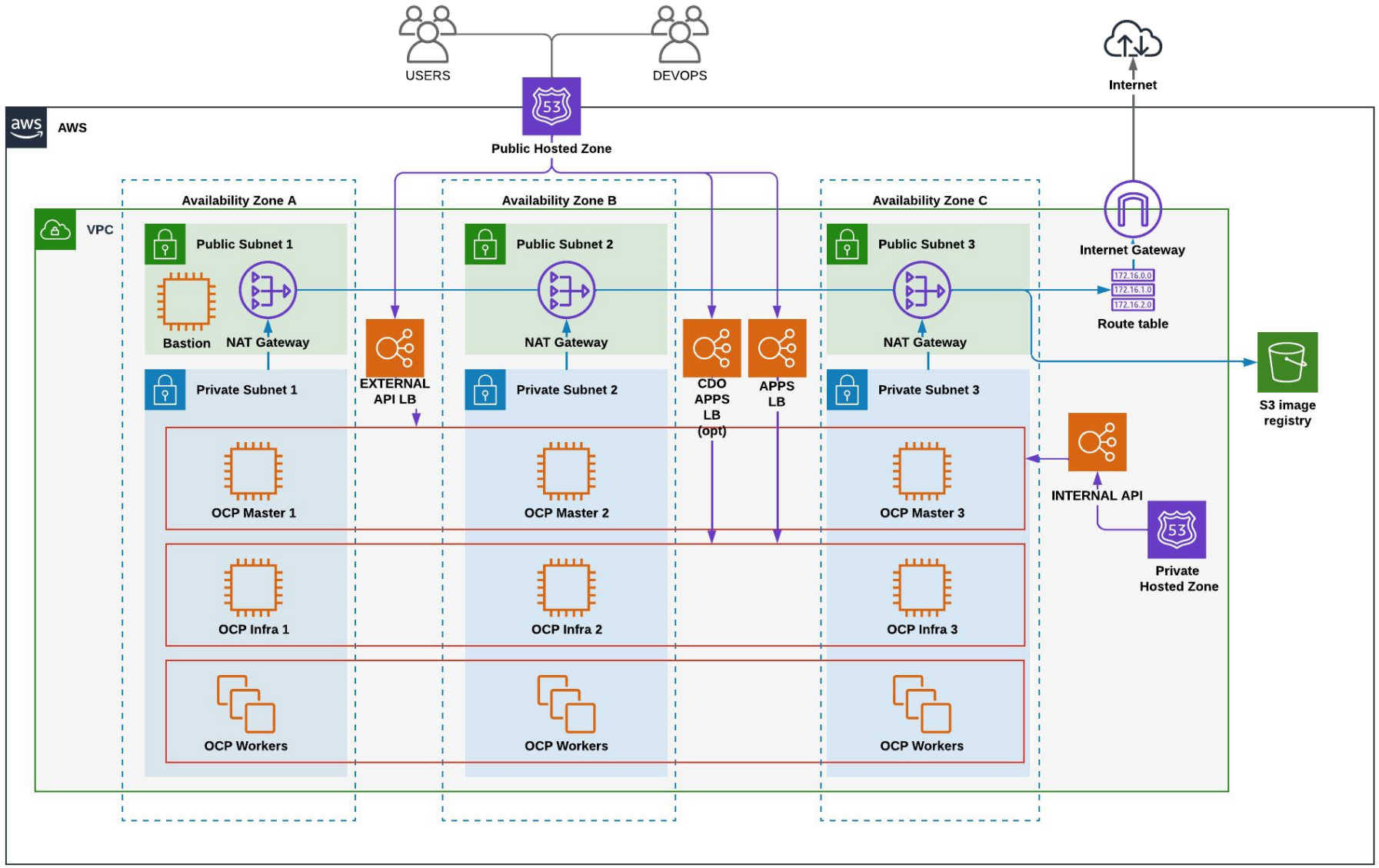
The Car & Pit Crew

SRE and Customer Success
Monitoring | Service Mesh | Dev Tools
Registry | Metrics | Logging | CI/CD
OpenShift Cluster Services
Networking :: Router :: OLM
Kubernetes
Red Hat Core OS

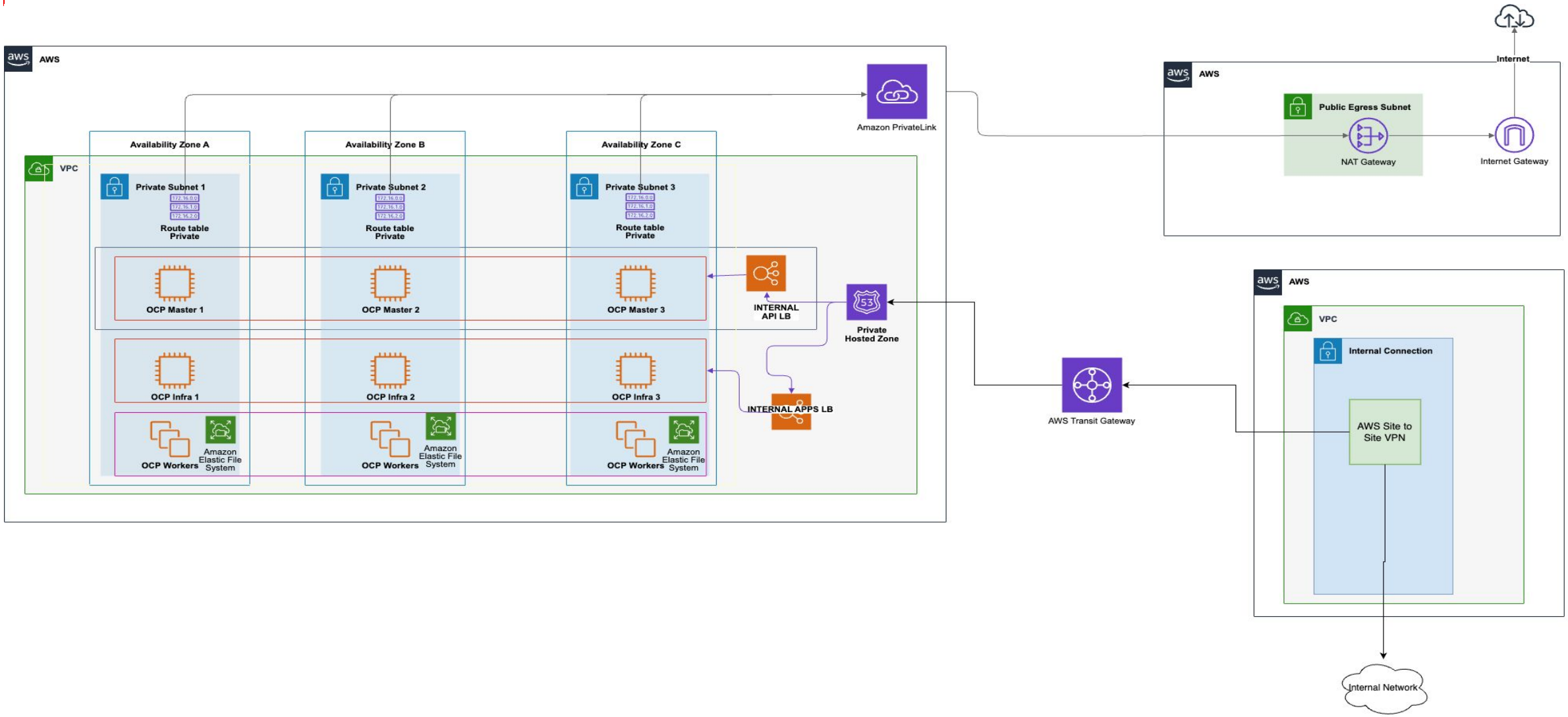
Azure · IBM Cloud · aws · Google Cloud

- Turnkey Application Platform -
Red Hat OpenShift cloud services

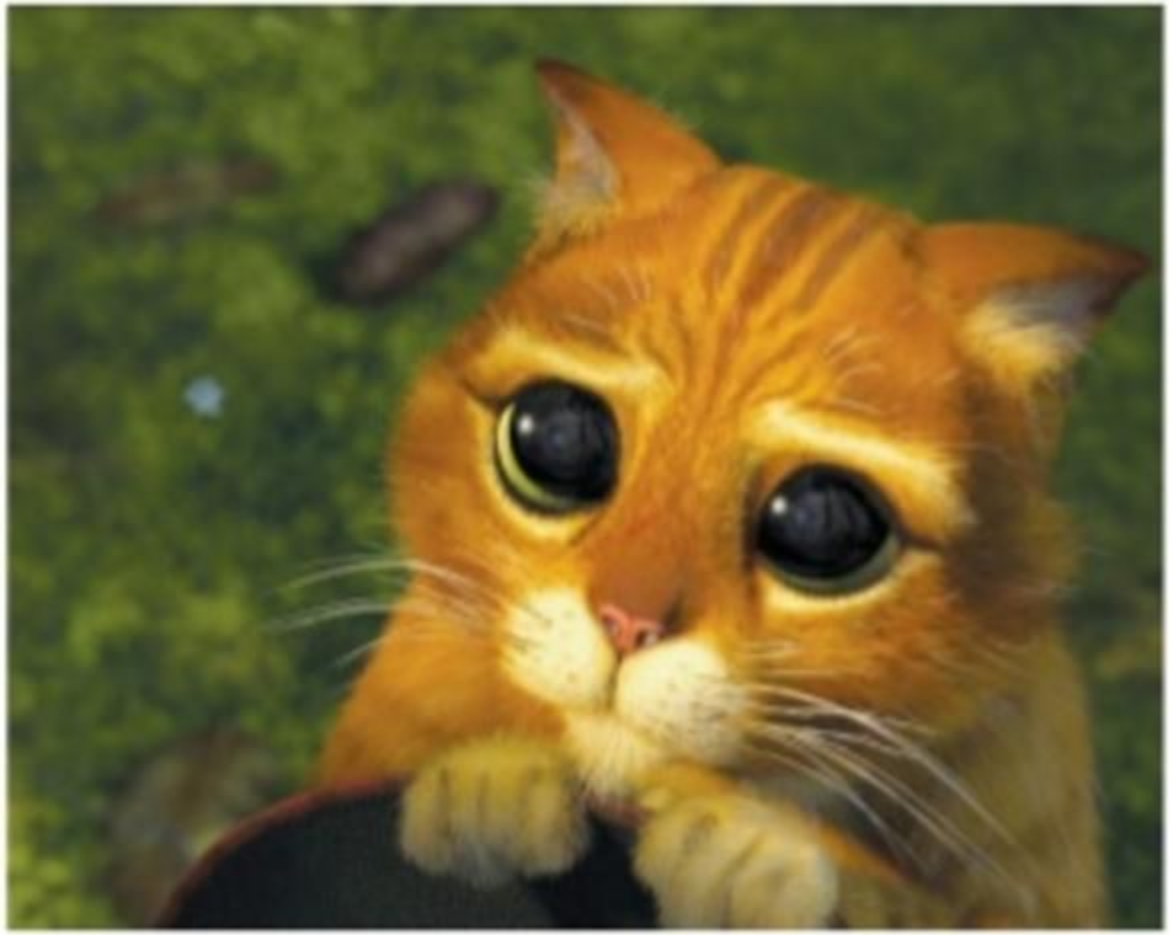
Red Hat

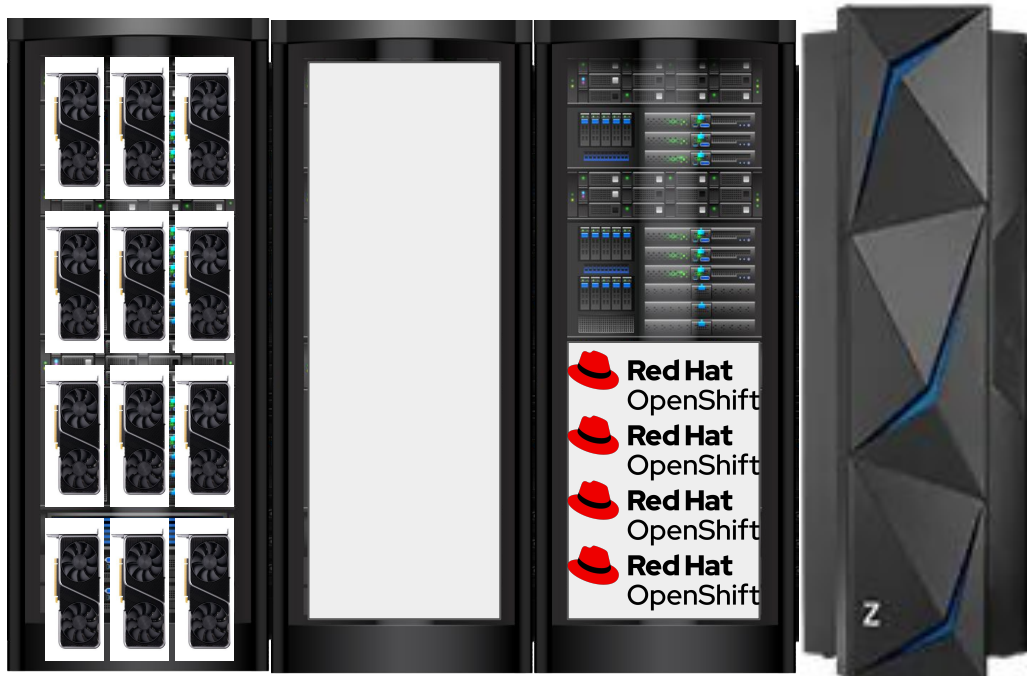

USERS
DEVOPS
Internet
AWS
Public Hosted Zone
Availability Zone A
Availability Zone B
Availability Zone C
VPC
Public Subnet 1
Public Subnet 2
Public Subnet 3
Internet Gateway
Bastion
NAT Gateway
NAT Gateway
NAT Gateway
172.16.0.0
172.16.1.0
172.16.2.0
Route table
EXTERNAL API LB
CDO APPS LB (opt)
APPS LB
Private Subnet 1
Private Subnet 2
Private Subnet 3
S3 image registry
OCP Master 1
OCP Master 2
OCP Master 3
INTERNAL API
OCP Infra 1
OCP Infra 2
OCP Infra 3
Private Hosted Zone
OCP Workers
OCP Workers
OCP Workers

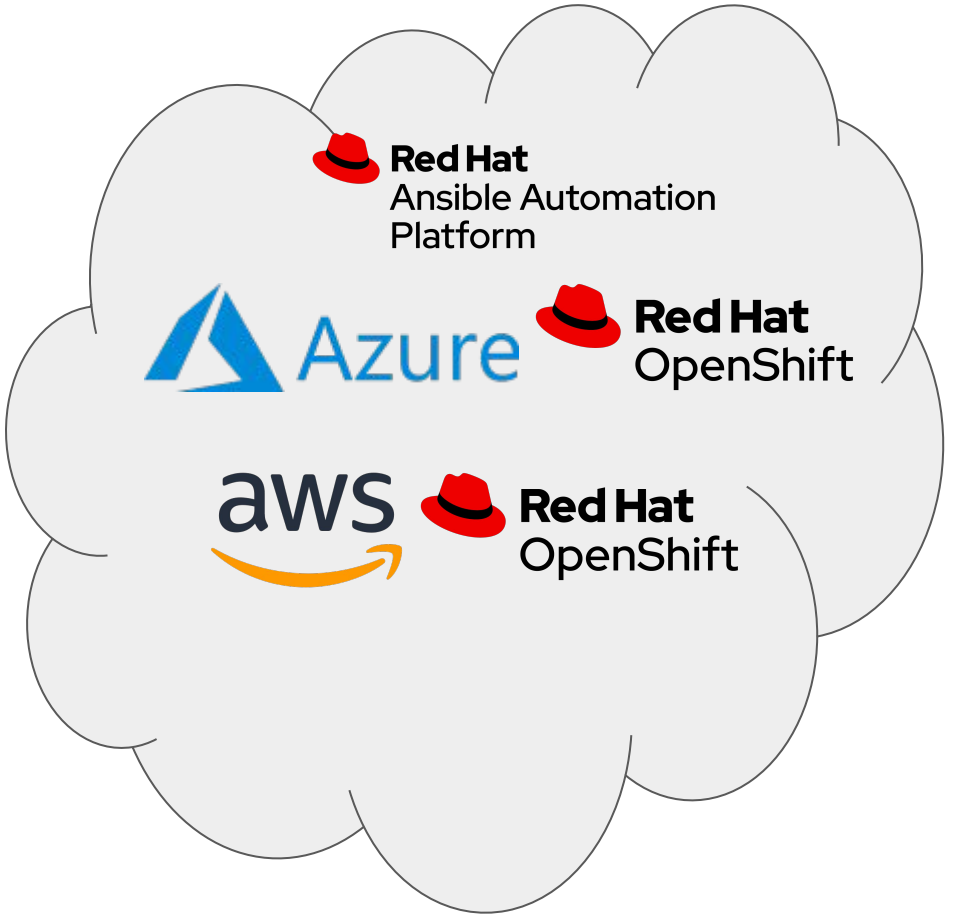
Red Hat


AWS
Amazon PrivateLink
Availability Zone A
Availability Zone B
Availability Zone C
VPC
Private Subnet 1
Private Subnet 2
Private Subnet 3
Route table Private
OCP Master 1
OCP Master 2
OCP Master 3
INTERNAL API LB
Private Hosted Zone
OCP Infra 1
OCP Infra 2
OCP Infra 3
INTERNAL APPS LB
OCP Workers
Amazon Elastic File System
Internet
AWS
Public Egress Subnet
NAT Gateway
Internet Gateway
AWS Transit Gateway
AWS
VPC
Internal Connection
AWS Site to Site VPN
Internal Network

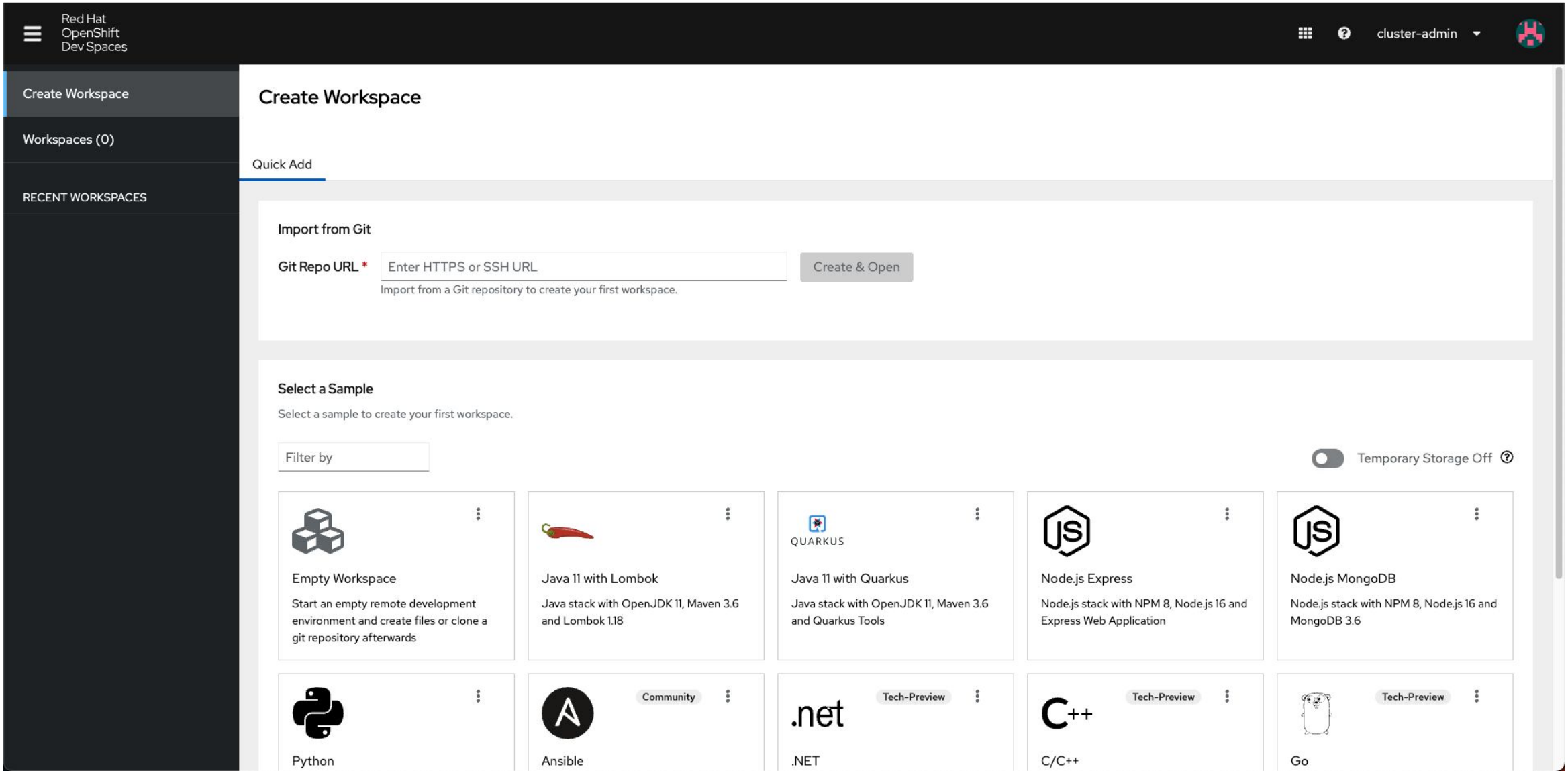
Red Hat

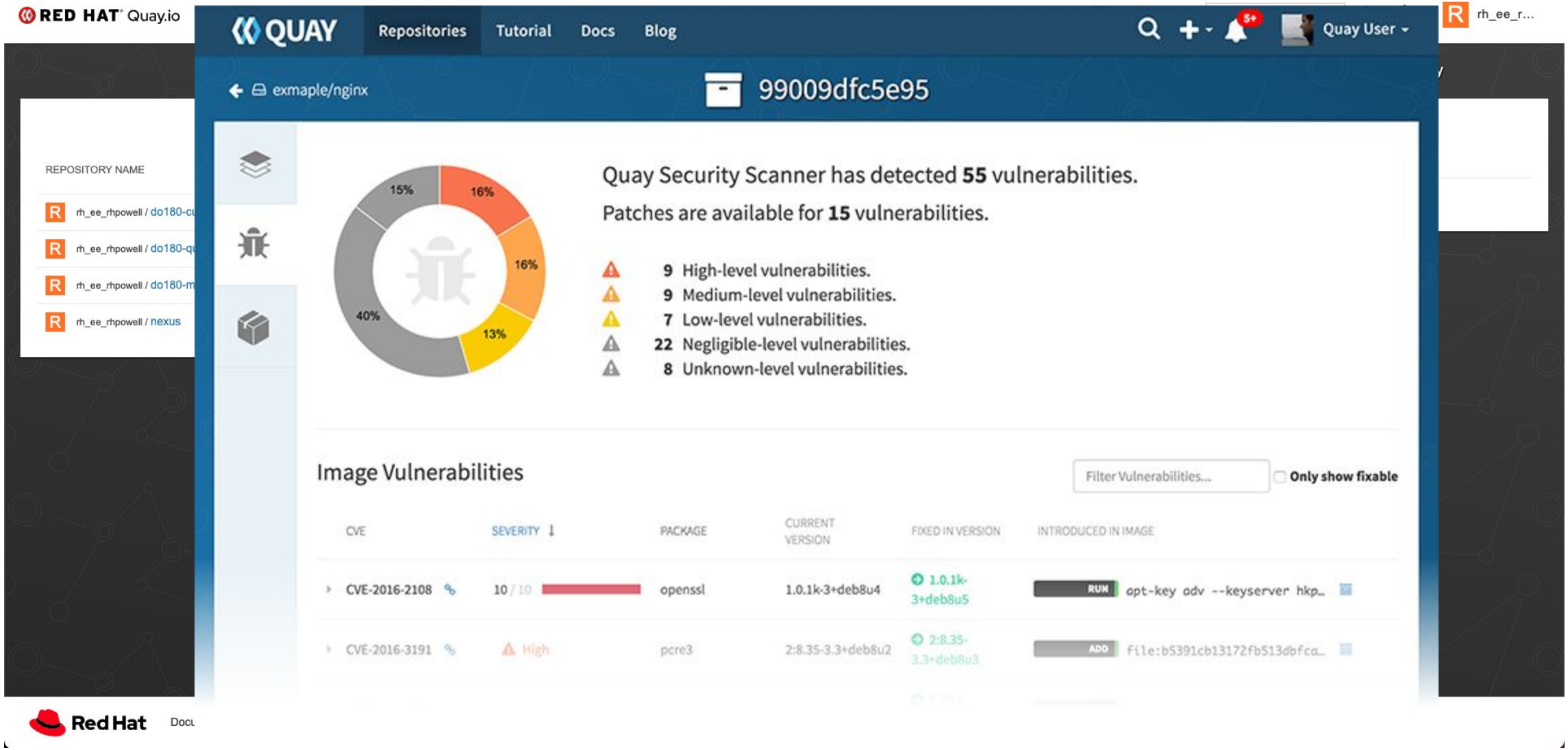


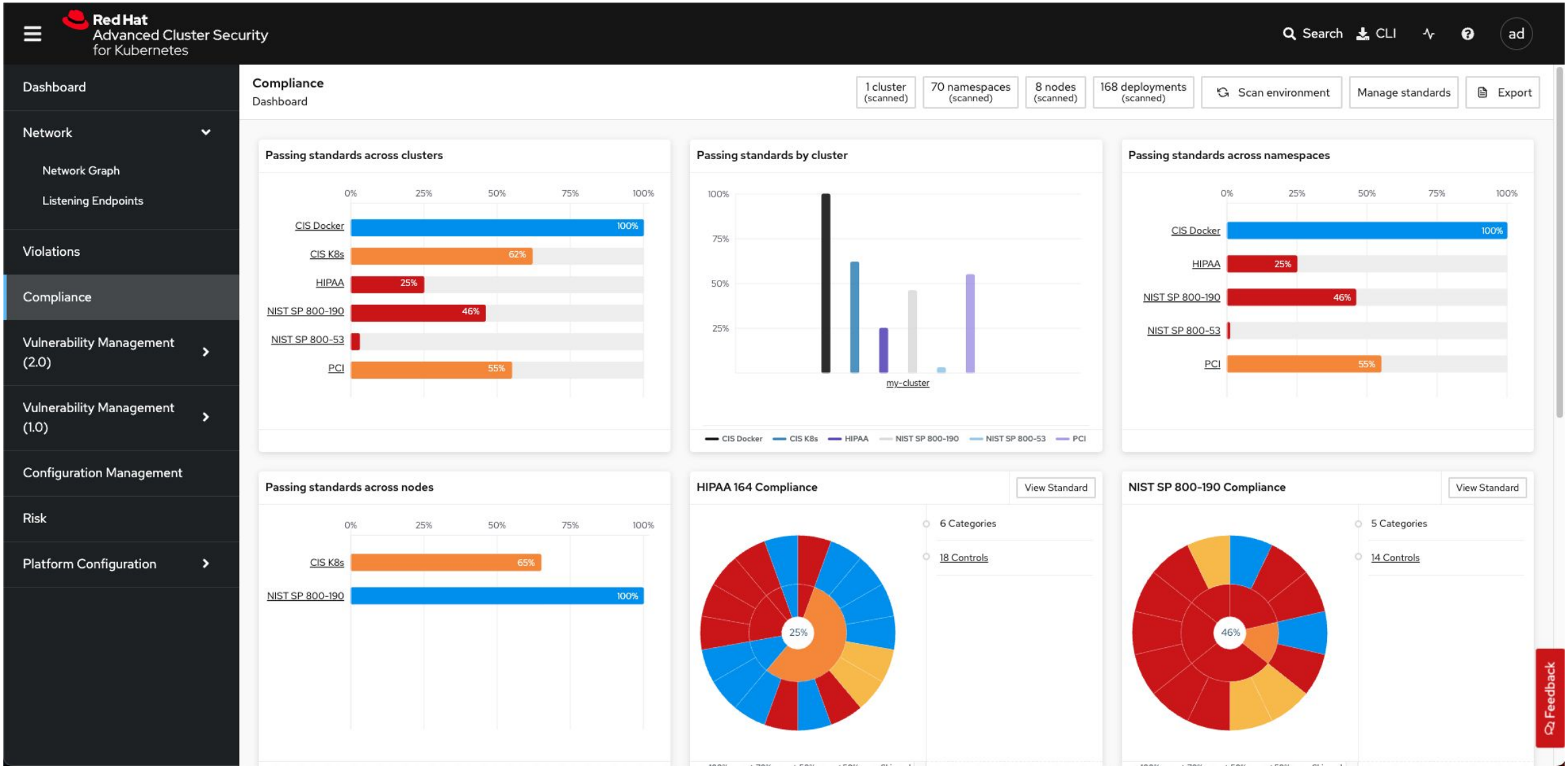

Red Hat
OpenShift
Red Hat
OpenShift
Red Hat
OpenShift
Red Hat
OpenShift
z


Red Hat
Ansible Automation
Platform
Azure
Red Hat
OpenShift
aws
Red Hat
OpenShift

Red Hat

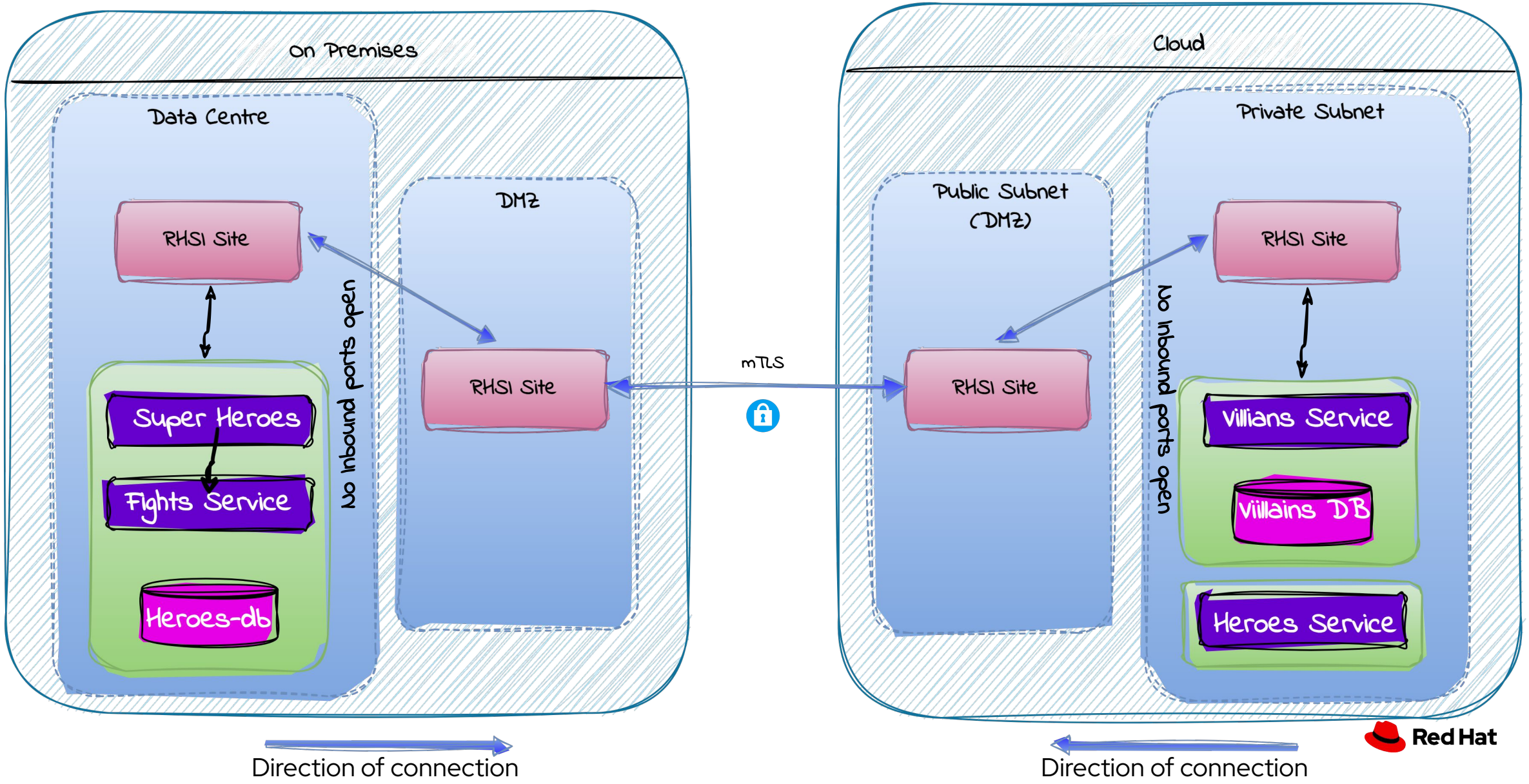

Red Hat OpenShift Dev Spaces
cluster-admin
Create Workspace
Workspaces (0)
RECENT WORKSPACES
Create Workspace
Quick Add
Import from Git
Git Repo URL *
Enter HTTPS or SSH URL
Create & Open
Import from a Git repository to create your first workspace.
Select a Sample
Select a sample to create your first workspace.
Filter by
Temporary Storage Off
Empty Workspace
Start an empty remote development environment and create files or clone a git repository afterwards
Java 11 with Lombok
Java stack with OpenJDK 11, Maven 3.6 and Lombok 1.18
QUARKUS
Java 11 with Quarkus
Java stack with OpenJDK 11, Maven 3.6 and Quarkus Tools
Node.js Express
Node.js stack with NPM 8, Node.js 16 and Express Web Application
Node.js MongoDB
Node.js stack with NPM 8, Node.js 16 and MongoDB 3.6
Python
Community
Ansible
Tech-Preview
.net
.NET
Tech-Preview
C++
C/C++
Tech-Preview
Go


RED HAT Quay.io
QUAY
Repositories
Tutorial
Docs
Blog
Quay User
exmaple/nginx
99009dfc5e95
REPOSITORY NAME
rh_ee_rhpowell / do180-cu
rh_ee_rhpowell / do180-qu
rh_ee_rhpowell / do180-m
rh_ee_rhpowell / nexus
15%
16%
16%
40%
13%
Quay Security Scanner has detected 55 vulnerabilities.
Patches are available for 15 vulnerabilities.
9 High-level vulnerabilities.
9 Medium-level vulnerabilities.
7 Low-level vulnerabilities.
22 Negligible-level vulnerabilities.
8 Unknown-level vulnerabilities.
Image Vulnerabilities
Filter Vulnerabilities...
Only show fixable
CVE
SEVERITY
PACKAGE
CURRENT VERSION
FIXED IN VERSION
INTRODUCED IN IMAGE
CVE-2016-2108
10 / 10
openssl
1.0.1k-3+deb8u4
1.0.1k-3+deb8u5
RUN apt-key adv --keyserver hkp...
CVE-2016-3191
High
pcre3
2:8.35-3.3+deb8u2
2:8.35-3.3+deb8u3
ADD file:b5391cb13172fb513dbfca...
Red Hat


Red Hat
Advanced Cluster Security
for Kubernetes
Search
CLI
ad
Dashboard
Network
Network Graph
Listening Endpoints
Violations
Compliance
Vulnerability Management (2.0)
Vulnerability Management (1.0)
Configuration Management
Risk
Platform Configuration
Compliance
Dashboard
1 cluster (scanned)
70 namespaces (scanned)
8 nodes (scanned)
168 deployments (scanned)
Scan environment
Manage standards
Export
Passing standards across clusters
0%
25%
50%
75%
100%
CIS Docker
100%
CIS K8s
62%
HIPAA
25%
NIST SP 800-190
46%
NIST SP 800-53
PCI
55%
Passing standards by cluster
100%
75%
50%
25%
my-cluster
CIS Docker
CIS K8s
HIPAA
NIST SP 800-190
NIST SP 800-53
PCI
Passing standards across namespaces
0%
25%
50%
75%
100%
CIS Docker
100%
HIPAA
25%
NIST SP 800-190
46%
NIST SP 800-53
PCI
55%
Passing standards across nodes
0%
25%
50%
75%
100%
CIS K8s
65%
NIST SP 800-190
100%
HIPAA 164 Compliance
View Standard
6 Categories
18 Controls
25%
NIST SP 800-190 Compliance
View Standard
5 Categories
14 Controls
46%
Feedback

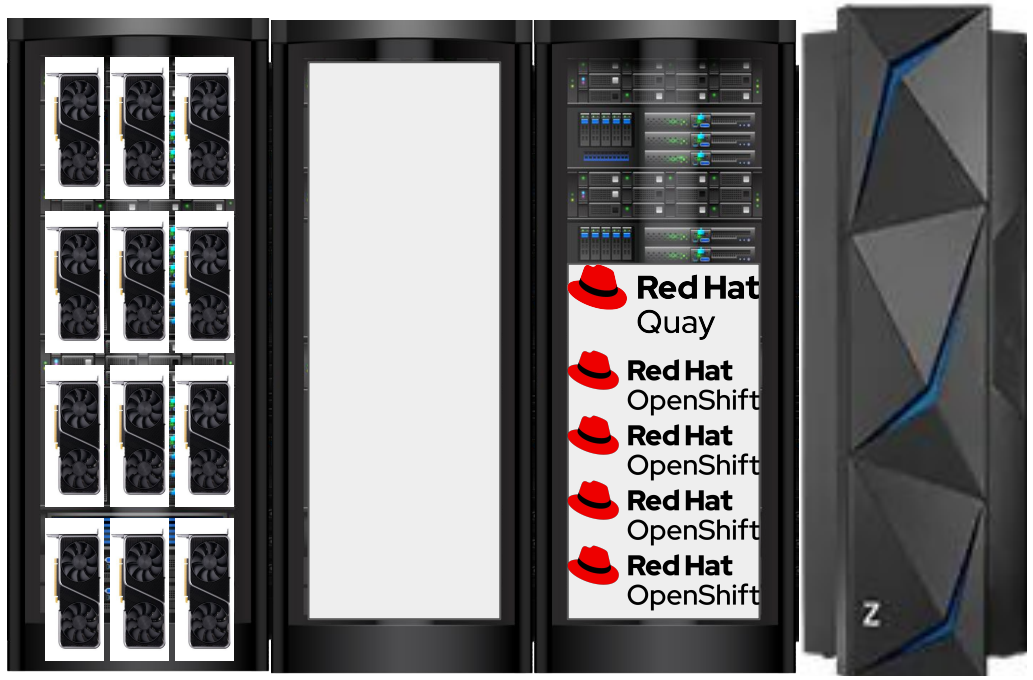
Red Hat

"Connect the most private to the most public"



Red Hat

Red Hat
Service Interconnect



Red Hat
Quay.io

Red Hat
Ansible Automation
Platform

Azure

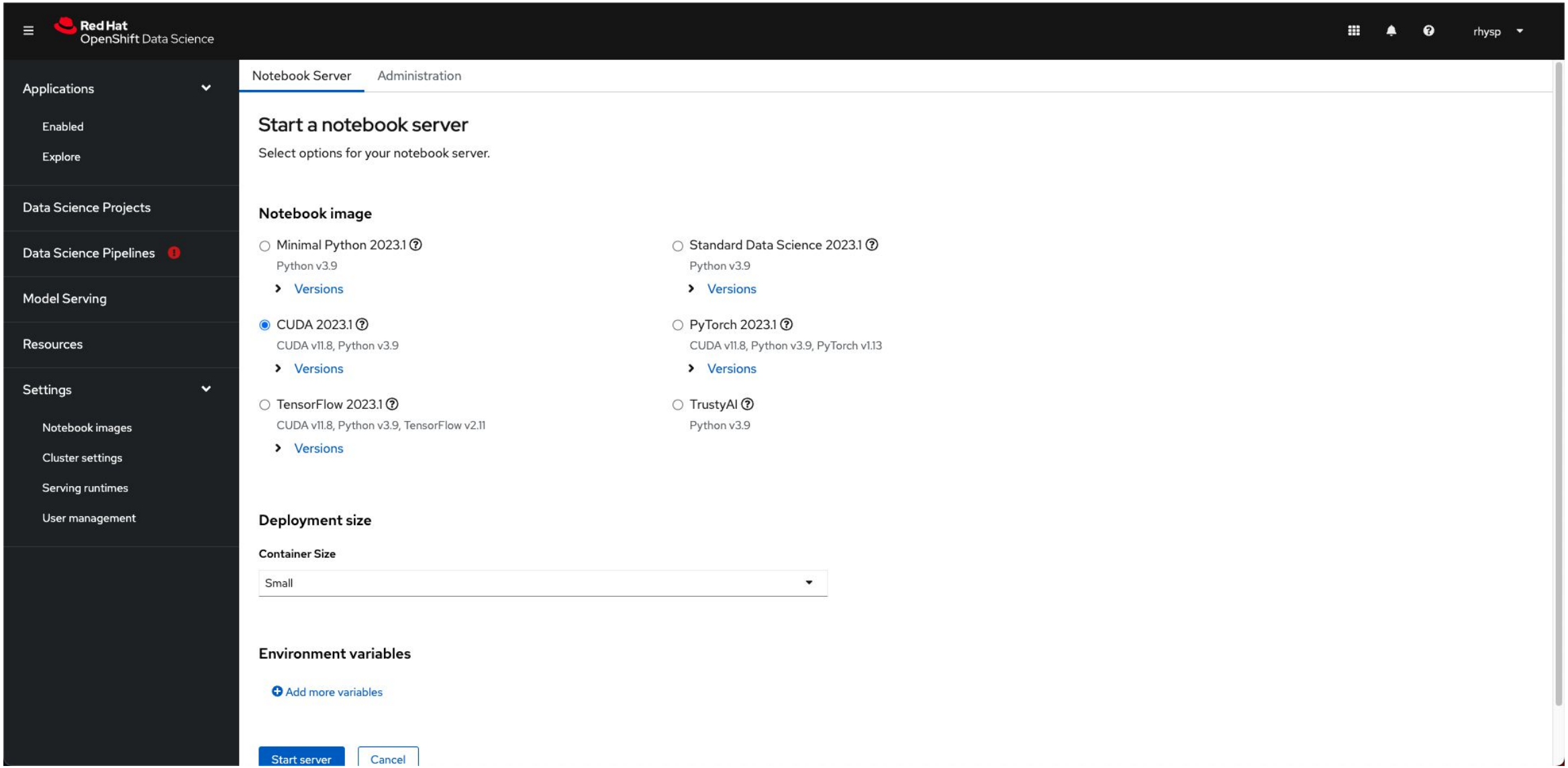
Red Hat
OpenShift

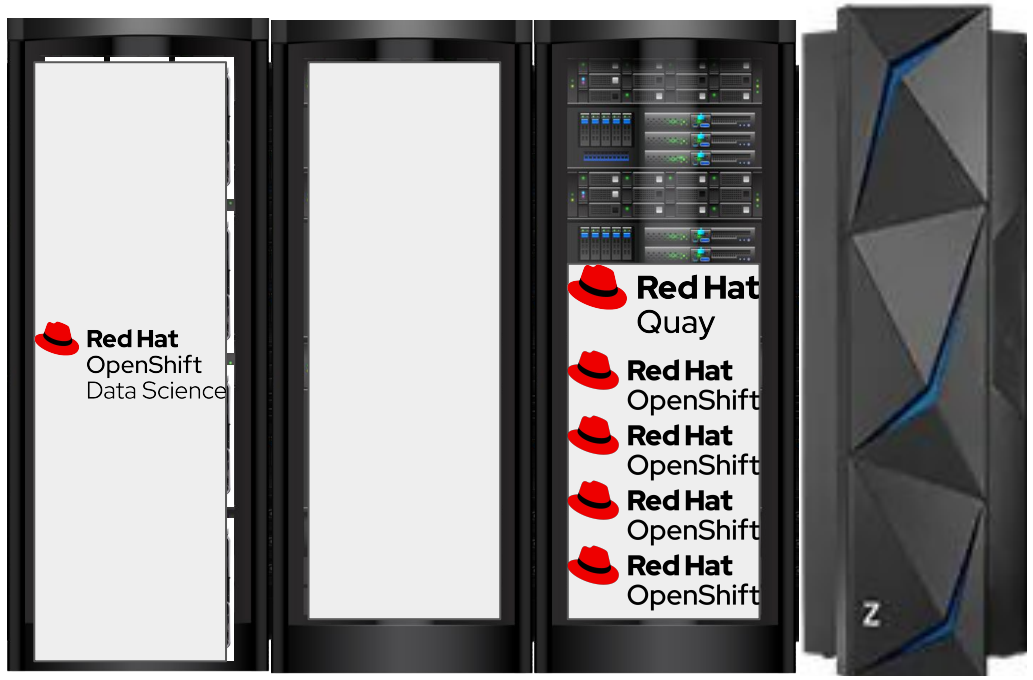
aws

Red Hat
OpenShift

Red Hat
Advanced Cluster
Security Cloud Service

Red Hat


Red Hat
OpenShift Data Science
rhysp
Applications
Enabled
Explore
Data Science Projects
Data Science Pipelines
Model Serving
Resources
Settings
Notebook images
Cluster settings
Serving runtimes
User management
Notebook Server
Administration
Start a notebook server
Select options for your notebook server.
Notebook image
Minimal Python 2023.1
Python v3.9
Versions
Standard Data Science 2023.1
Python v3.9
Versions
CUDA 2023.1
CUDA v11.8, Python v3.9
Versions
PyTorch 2023.1
CUDA v11.8, Python v3.9, PyTorch v1.13
Versions
TensorFlow 2023.1
CUDA v11.8, Python v3.9, TensorFlow v2.11
Versions
TrustyAI
Python v3.9
Deployment size
Container Size
Small
Environment variables
Add more variables
Start server
Cancel



Red Hat
Service Interconnect

Red Hat
Quay.io

Red Hat
Ansible Automation
Platform

Azure

Red Hat
OpenShift

aws

Red Hat
OpenShift

Red Hat
Advanced Cluster
Security Cloud Service

Red Hat
OpenShift
Data Science

Red Hat

Managed Services

- Value
- Team
- Heavy lifting
- Focus
- Support
- Familiar

Red Hat

Red Hat Summit

Thank you

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facebook.com/redhatinc

youtube.com/user/RedHatVideos

twitter.com/RedHat

Red Hat