2022 OpenShift Commons Gathering

Co-located with KubeCon CloudNativeCon

Tuesday, October 25

Westin Book Cadillac
Detroit, Michigan

Red Hat OpenShift Commons

Red Hat Advanced Cluster Security Update

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Sponsored by Red Hat OpenShift

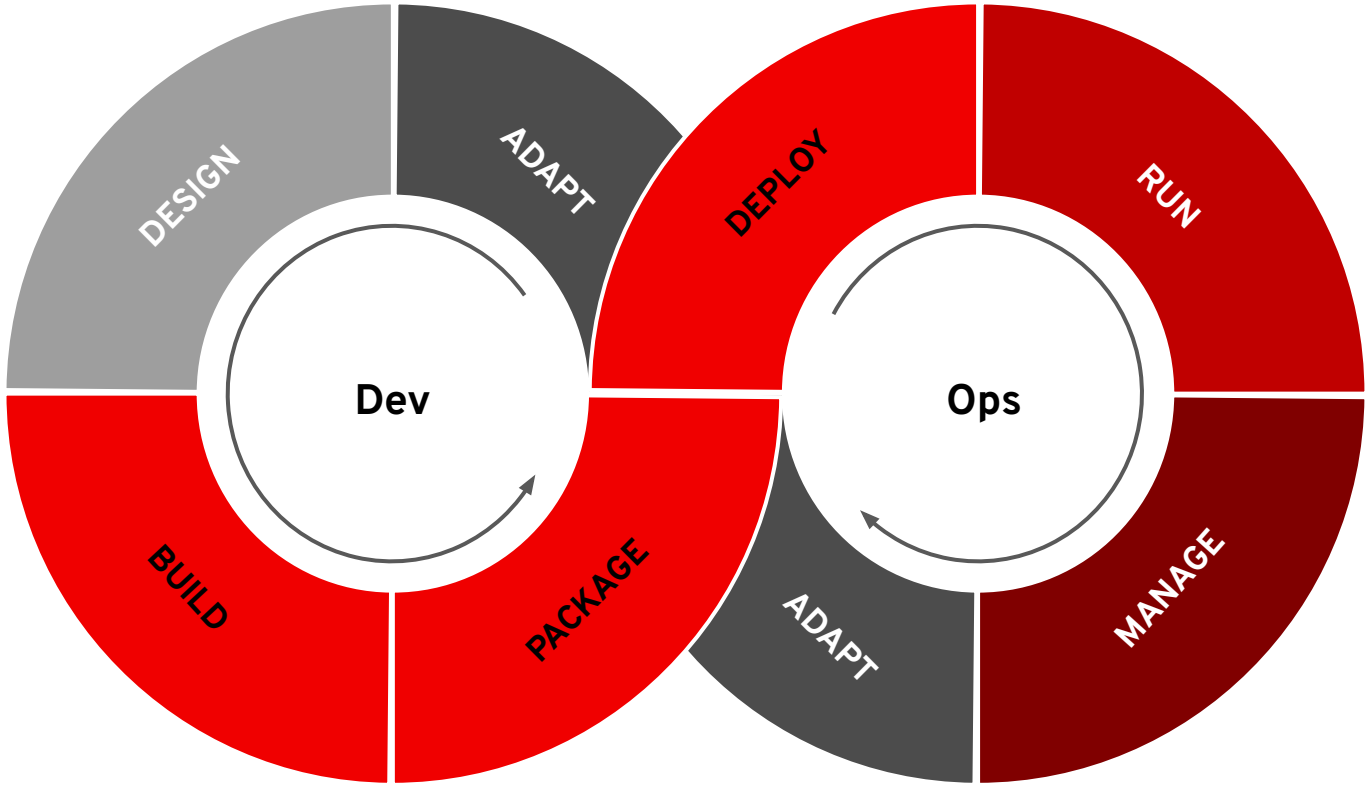
Agenda

- Security & Kubernetes
- Red Hat Advanced Cluster Security
- Introducing the new RHACS Cloud Service
- How to get started
- What’s Next for RHACS

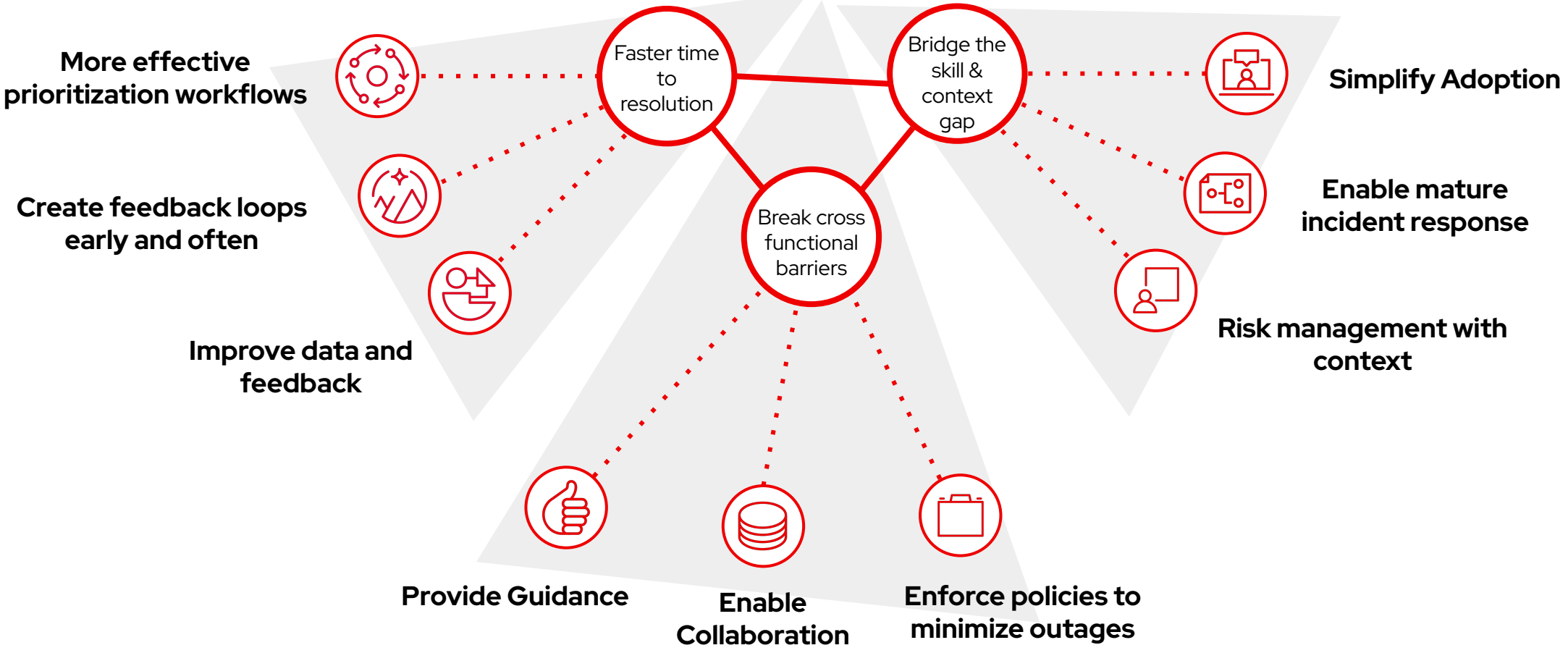
Security & Kubernetes

Containers and Kubernetes need DevSecOps

- Protect the Platform
- Detect & Respond to Runtime Threats
- Control Application Security



Delivering Business Value Beyond Protection



Security programs are successful when they deliver these key attributes

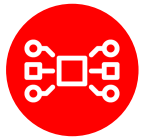
Red Hat Advanced Cluster Security

Red Hat Advanced Cluster Security: Use Cases

Security across the entire application lifecycle

Vulnerability Management

Protect yourself against known vulnerabilities in images and running containers



Network Segmentation

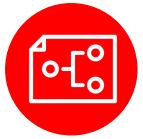
Apply and manage network isolation and access controls for each application

Configuration Management

Ensure your deployments are configured according to security best practices

Compliance

Meet contractual and regulatory requirements and easily audit against them



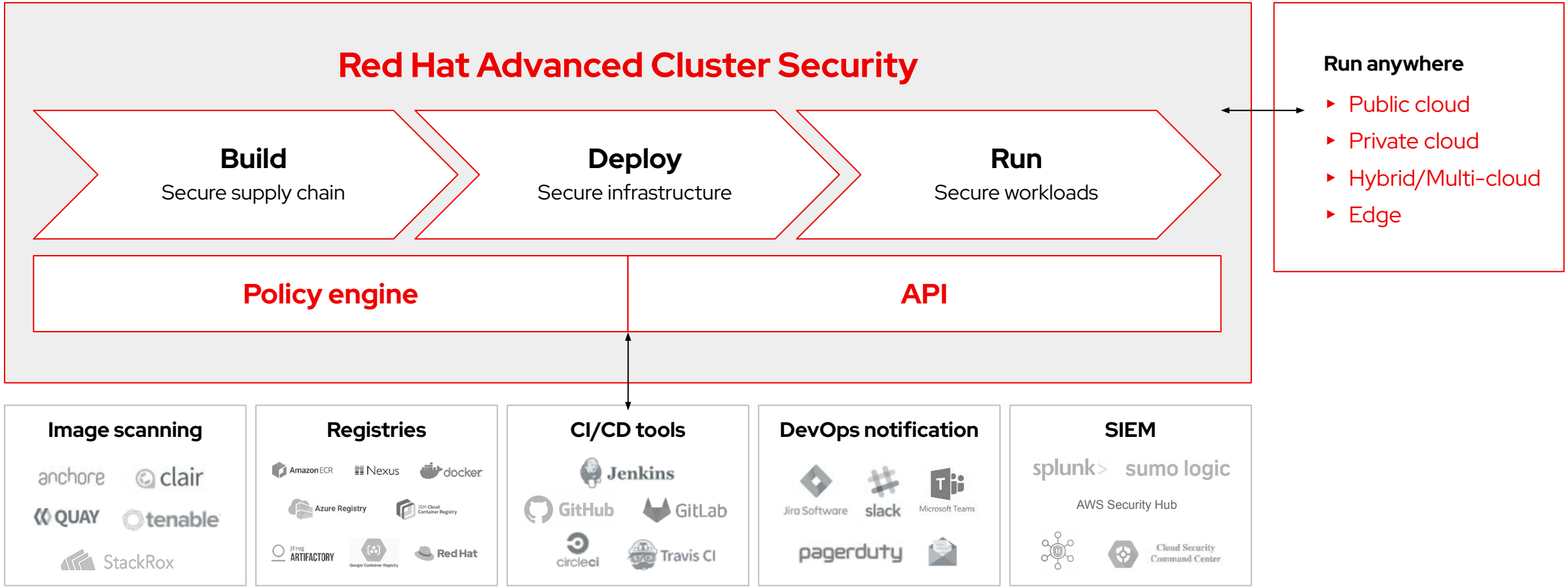
Risk Profiling

Gain context to prioritize security issues throughout OpenShift and Kubernetes clusters

Detection and Response

Carry out incident response to address active threats in your environment

The First Kubernetes-Native Security Platform



Red Hat

Evolving Kubernetes Security

Accomplishments since joining the Red Hat team

Advanced Security Workflows

1. Updated the RHACS dashboard for greater high-level, configurable view of the vulnerabilities and security events in your clusters
2. Created a security alerting workflow for teams at scale using namespace annotations
3. Enabled self services security workflows with scoped access control
4. Align security policies with the MITRE ATT&CK Framework to allow for effective incident response prioritization

Best in Class Red Hat Support

Added host scanning support for RHEL 9 as of version 3.72. Will extend host scanning capabilities moving forward.

Reduced the administrative overhead of upgrade and install by creating an Operator for RHACS for application configuration

Enabled auditors and compliance teams to get accurate OpenShift data by integrating with the Compliance Operator

RHACS supported on Red Hat OpenShift Service on AWS, Azure Red Hat OpenShift, IBM Power/Z architectures

Red Hat

Red Hat Advanced Cluster Security Cloud Service

Get more value from your cloud investment with Red Hat ACS cloud services.

Faster time to value

Quickly deploy ACS in minutes that scale as needed across clouds and geographies, enabling a focus on securing your applications, not managing infrastructure

Reduce complexity

Fully-Managed ACS throughout the stack, 24x7 expert SRE support , with a consumption based pricing model

Hybrid Cloud Flexibility

Delivering a consistent ACS experience on cloud giving you the choice and ease of use to choose the offering that best fits your needs

Red Hat

Advanced Cluster Security Cloud Service

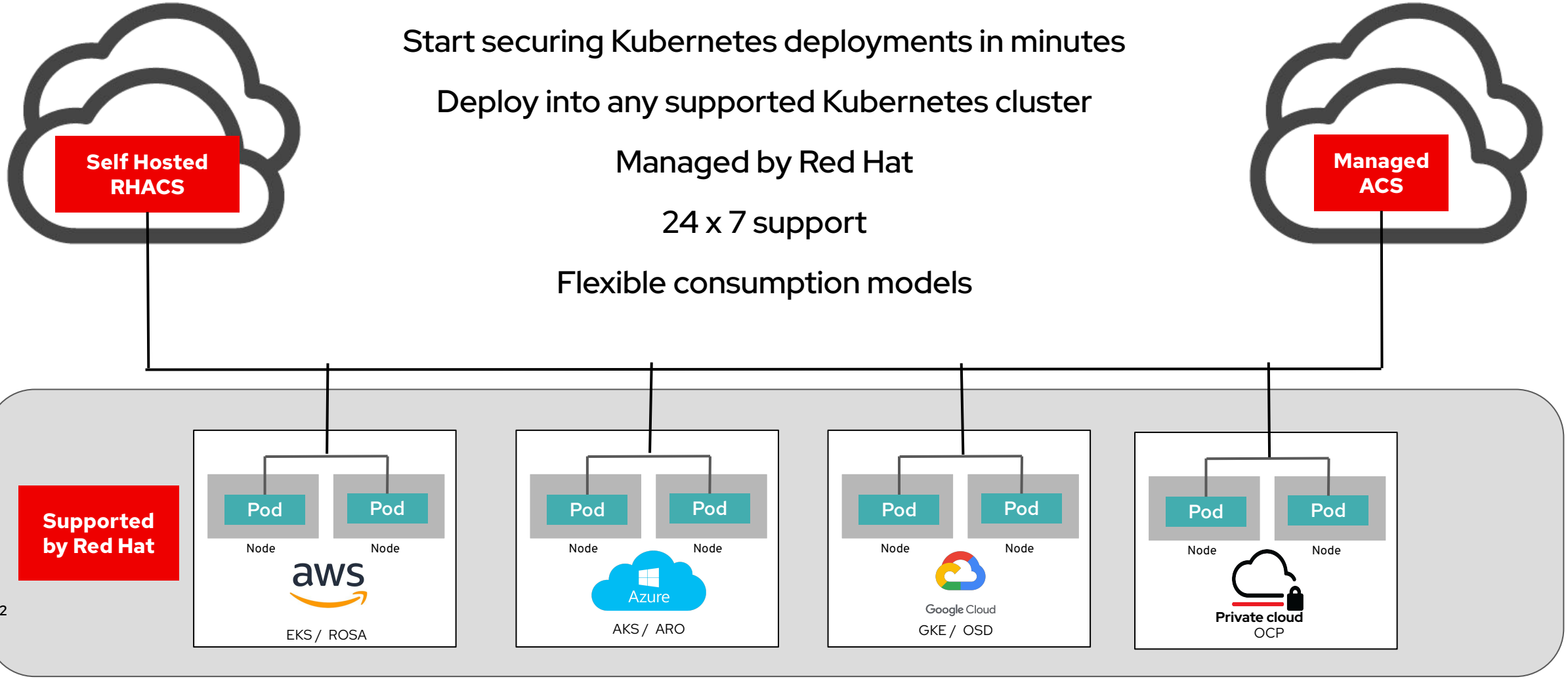
Start securing Kubernetes deployments in minutes

Deploy into any supported Kubernetes cluster

Managed by Red Hat

24 x 7 support

Flexible consumption models



ACS Cloud Service: Service Preview

- Scan the QR code and sign in to gain access to the service preview offering
- Free offering for select customers
- Product feedback and environment testing
- Service preview starts in December 2022

What's Next?

Key Priorities

Security Innovation

Cloud Service

Portfolio Integration

Open Source

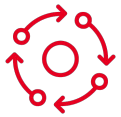
Vulnerability Management

Scanner Consolidation

Unify RHACS scanner and Clair scanner offered with Red Hat Quay

Enhanced Vulnerability Management

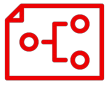
- Improve data quality and remediation guidance
- Vulnerability data representation by workloads, platform and nodes



Streamlined Vulnerability Management workflows

Streamlined workflows that allow users to drill down from consolidated vulnerability data views to detailed views in just few clicks

Released



Vulnerability Scanning Support for RHEL 9

Detect and report vulnerabilities for RHEL 9 UBI and RHEL 9 RPMs

Host vulnerability scanning

Extend ACS vulnerability scanning to host OS on the cluster nodes to provide a consolidated view of known vulnerabilities for your fleet of clusters

Developer local image scanning

Enable developers to scan images before pushing to registry to shift further left

Red Hat

SecOps and Compliance

Continued Dashboard Enhancements

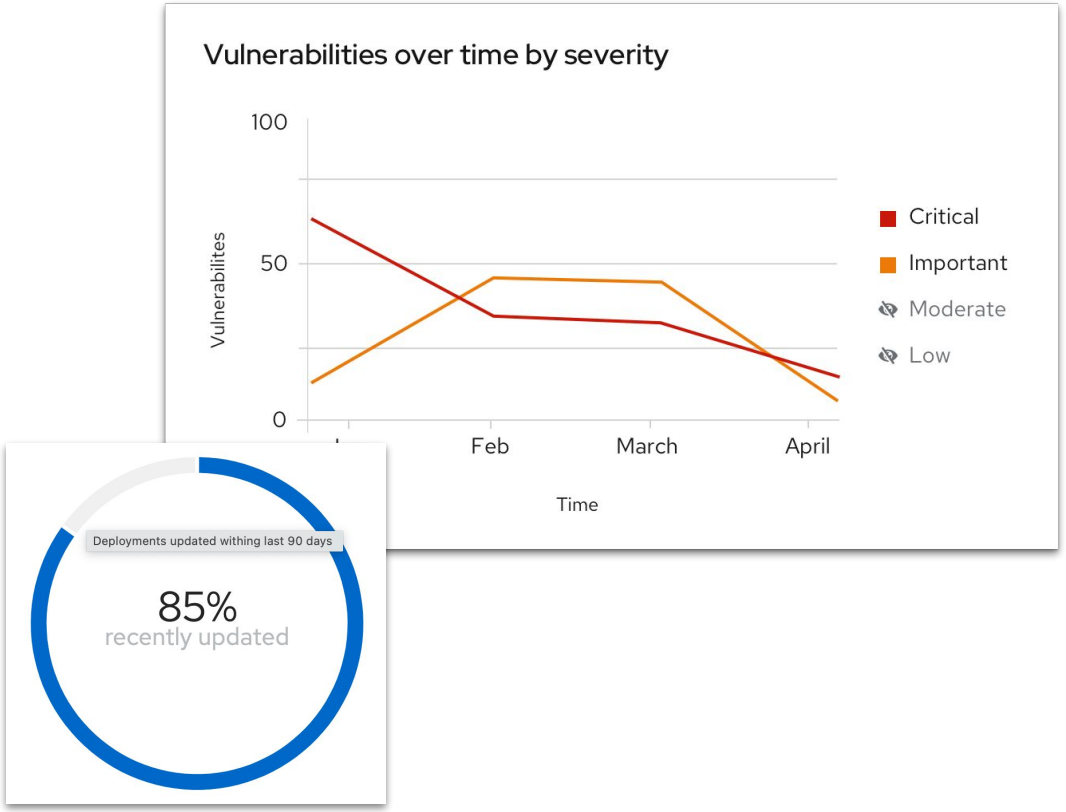
- Security metrics with trends
- Risk indicators

CIS EKS Benchmark

- Assess and remediate gaps in compliance for EKS clusters.

New Compliance Experience

- A seamless user experience combining the Compliance Operator with RHACS

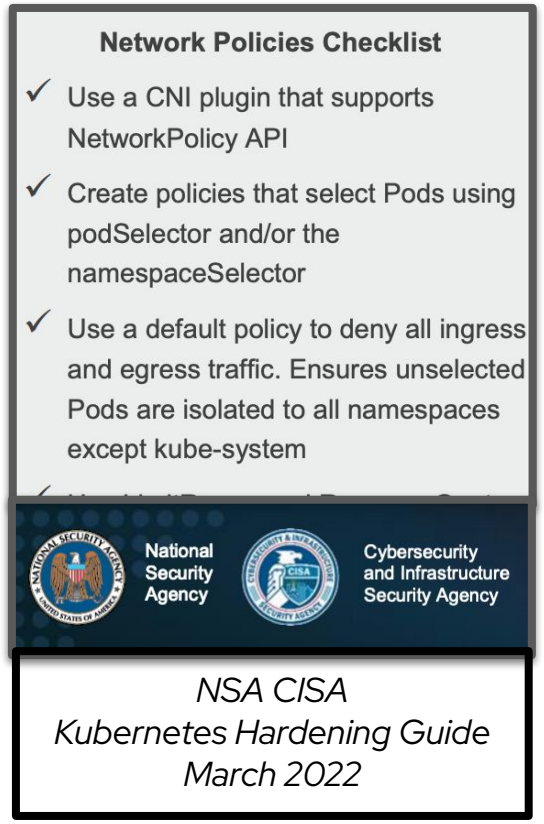


Network Security

Shift Left Network Policy Management

- Help the DevOps Team
  - Automatically create Network policies
  - Check against cluster and namespace wide security policies
- Help Security Team
  - Enable scalable network protocols
  - Easily analyze and enforce network standards across the a Kubernetes environment

Network Insights



NSA CISA
Kubernetes Hardening Guide
March 2022

Community Projects

Open Source Projects

StackRox project

Stackrox.io is now the upstream project for RHACS

https://www.stackrox.io/

Clair

Contribute RH ACS scanner features to the open source Clair project

https://github.com/quay/clair

KubeLinter project

Extend KubeLinter coverage to Kubernetes operators

https://github.com/stackrox/kube-linter

Falco

Contribute RH ACS Collector features to the open source Falco libraries

https://github.com/falcosecurity/libs

SIGN UP ->

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