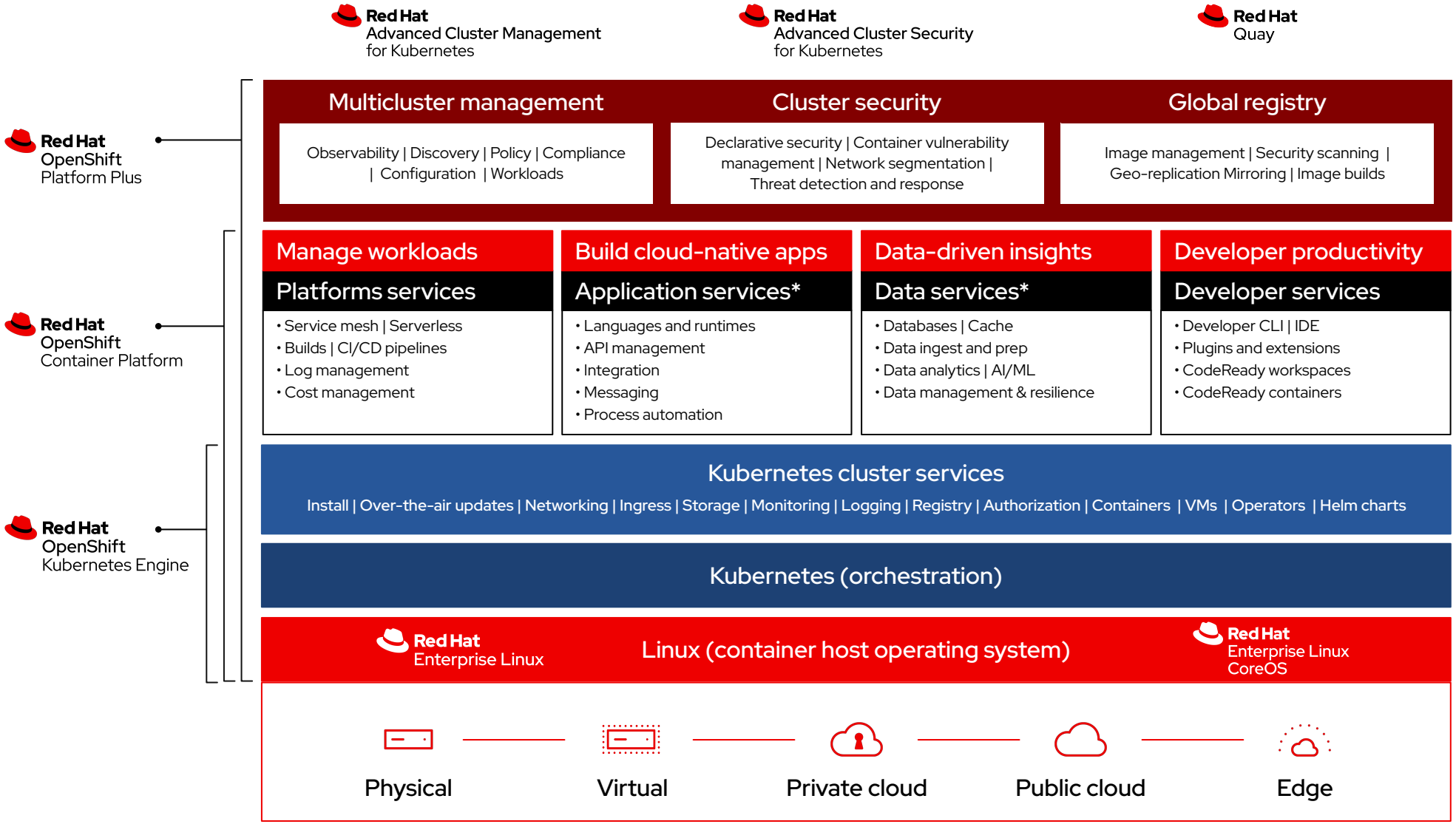
Red Hat
OpenShift

OpenHybridCloud
OpenShift *plus*

Alfred Bach
PSA EMEA

Red Hat

Red Hat open hybrid cloud platform



* Red Hat OpenShift® includes supported runtimes for popular languages/frameworks/databases. Additional capabilities listed are from the Red Hat Application and Data Services portfolio.

Red Hat

Open Hybrid Cloud

Red Hat

Red Hat Cloud

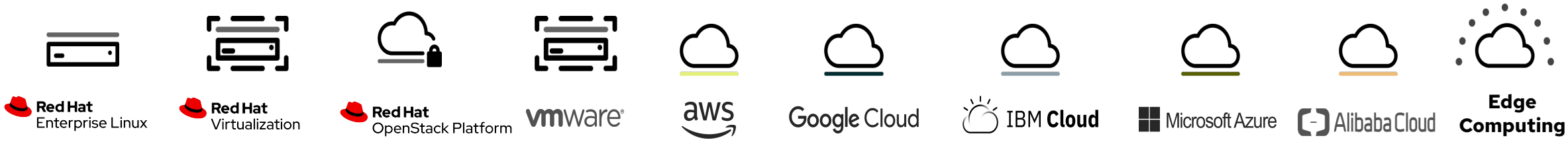
Red Hat Marketplace

Open Ecosystem

Red Hat Cloud Experience

- Applications
- Red Hat Advanced Cluster Management for Kubernetes
- Red Hat OpenShift

- Cluster Management
- Policy Management
- Governance
- Cost Management
- Telemetry
- Platform Lifecycle
- Application Lifecycle



Open Standards || Enterprise-Class || Secure || Scalable || Customer Choice

Red Hat

The Hybrid and Multi-Cloud Landscape

	Red Hat	aws	Microsoft Azure	Google Cloud	vmware
Open Source	**YES**	NO	NO	NO	NO
Hybrid Cloud	**YES** **with disconnected**	YES **no disconnected**	YES	YES **no disconnected**	YES **no disconnected**
Multi Cloud	**YES** **with disconnected**	NO **no disconnected**	NO	YES **no disconnected**	NO **no disconnected**
Multi-Cloud Management	**YES**	NO	NO	YES	Limited
Containers and VMs	**YES**	YES	YES	NO	YES
Integrated AppDev	**YES**	DIY	YES	NO	YES
Application Services	**YES**	YES	YES	Limited	Limited
Customer Managed	**YES**	NO	YES	NO	YES
Managed Service	**YES**	YES	YES	YES	NO

Red Hat OpenShift

Available as self-managed platform or fully managed cloud service

Start quickly, we manage it for you

Cloud managed

Managed Red Hat OpenShift services

Red Hat OpenShift service on Amazon Web Services[1]	Microsoft Azure Red Hat OpenShift	Red Hat OpenShift on IBM Cloud[1]	Red Hat OpenShift Dedicated[2]

You manage it, for control and flexibility

Customer managed

Self-managed Red Hat OpenShift

Red Hat OpenShift Platform Plus	Red Hat OpenShift Container Platform	Red Hat OpenShift Kubernetes Engine	On public cloud, or on-premises on physical or virtual infrastructure[3]

Source:
1 In preview as of 1/1/2021. Also available as Red Hat OpenShift Dedicated managed service running on user-supplied AWS infrastructure.
2 Red Hat managed service running on user-supplied GCP infrastructure
3 See docs.openshift.com for supported infrastructure options and configurations

Open Hybrid Cloud Demo

Four minute video demo

Red Hat

Red Hat
OpenShift

Advanced Cluster Management for Kubernetes

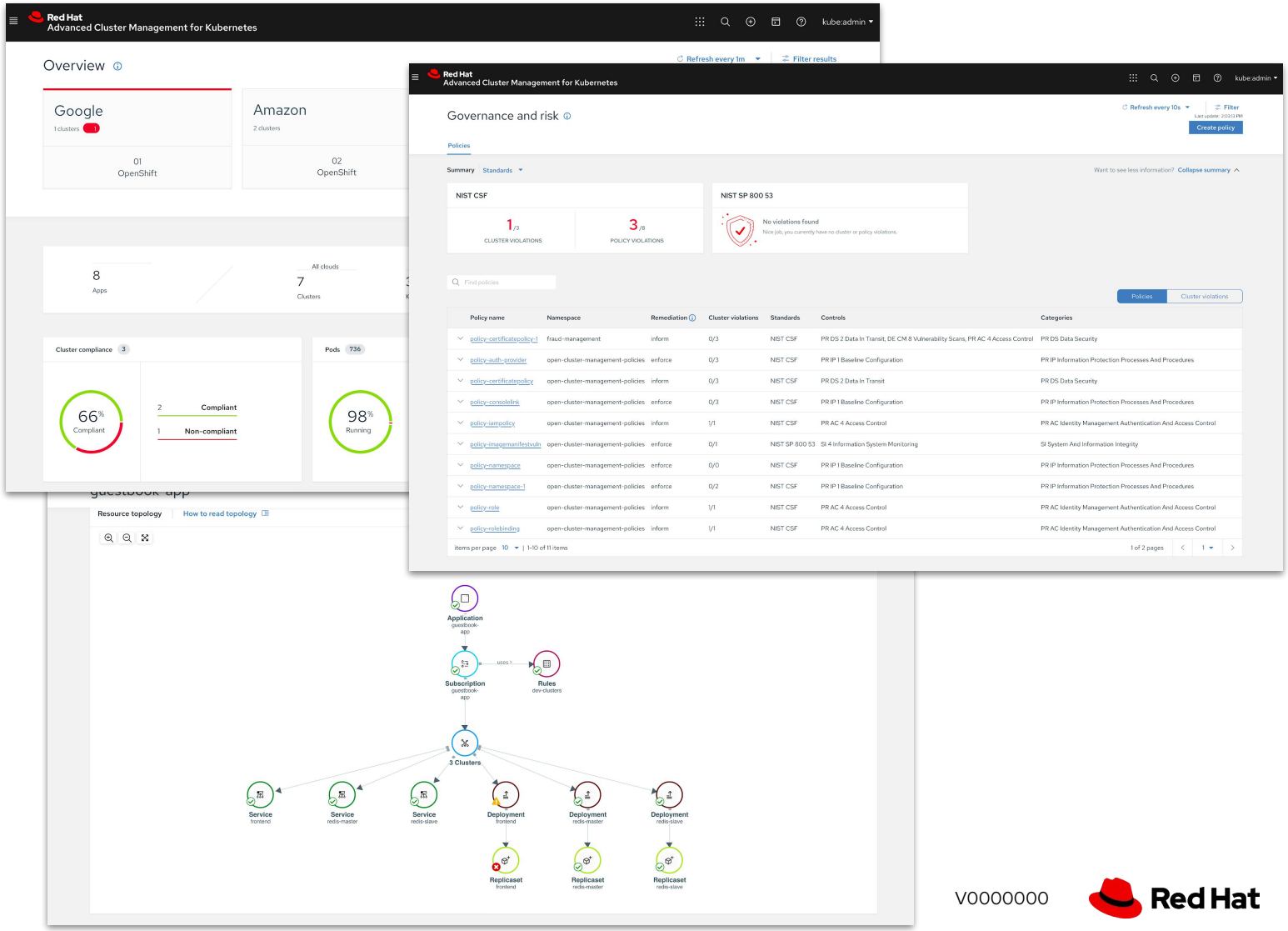
Alfred Bach
PSA EMEA

Robust. Proven. Award winning.

Multicluster lifecycle management

Policy driven governance, risk, and compliance

Advanced application lifecycle management

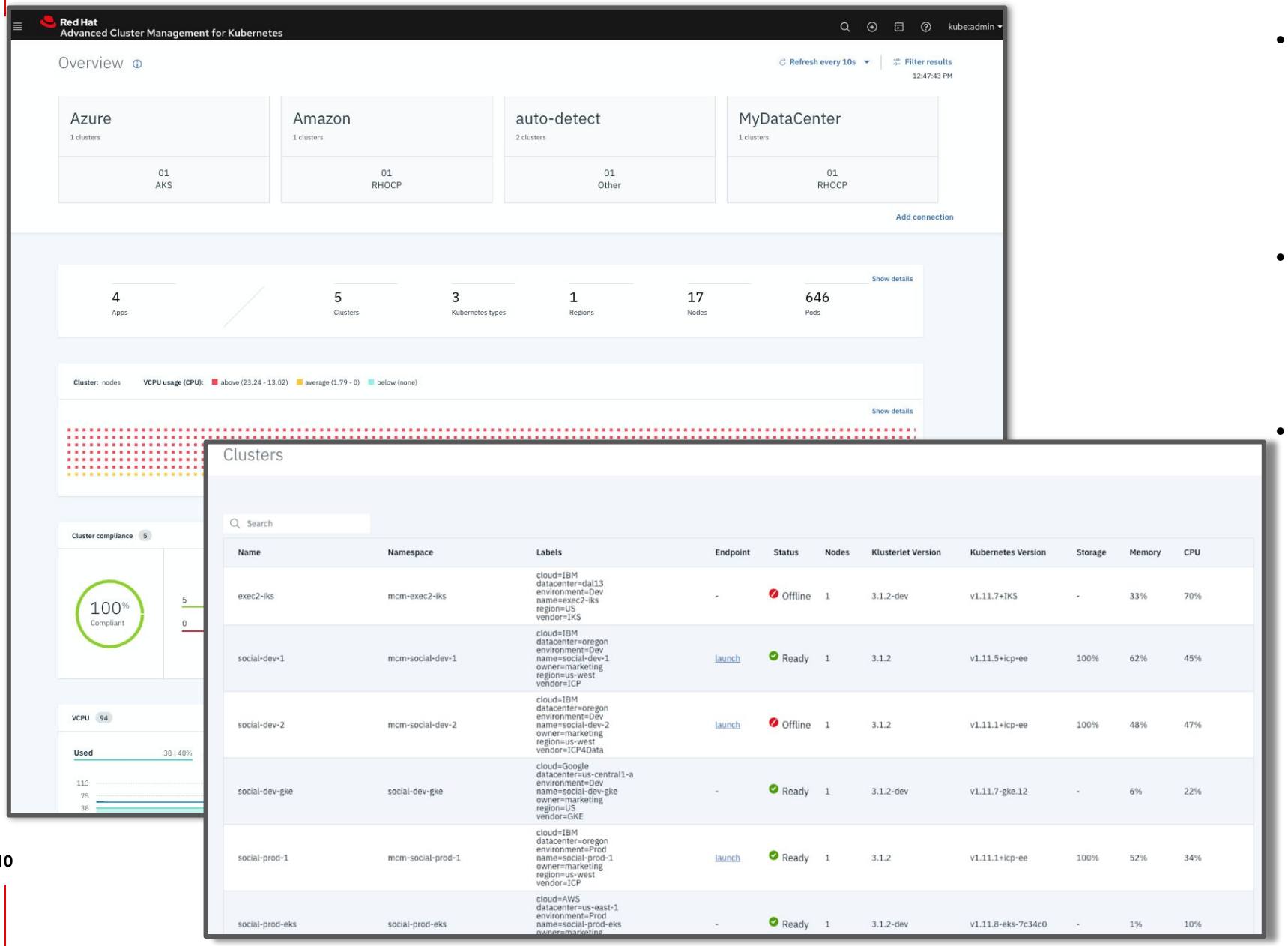


V0000000

Red Hat

Unified Multi-Cluster Management

Single Pane for all your Kubernetes Clusters

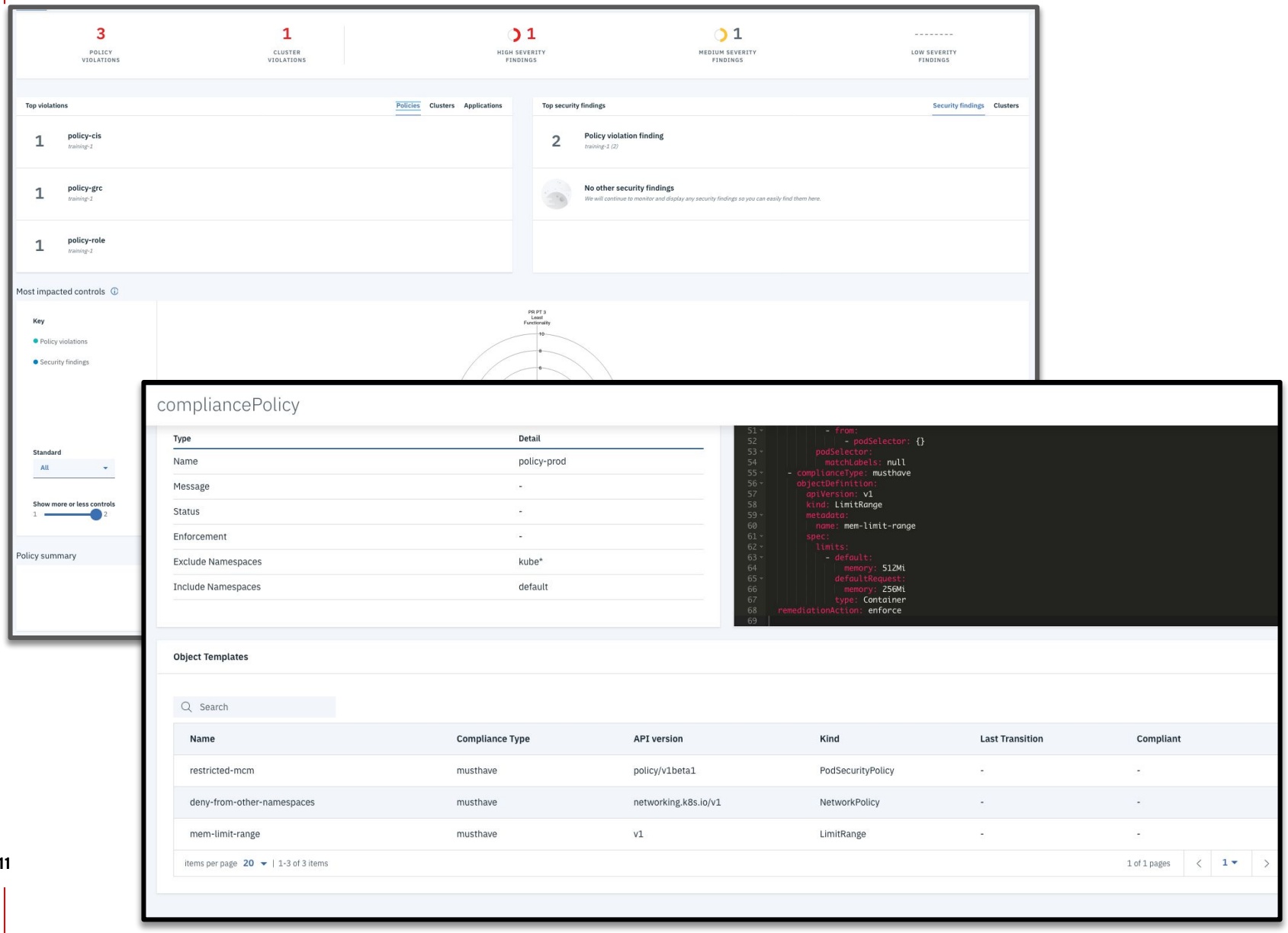


- **Centrally** create, update and delete Kubernetes clusters **across multiple** private and public clouds
- Search, find and modify **any** kubernetes resource across the **entire** domain.
- **Quickly** troubleshoot and resolve issues across your **federated** domain

Red Hat

Policy based Governance, Risk and Compliance

Don’t wait for your security team to tap you on the shoulder

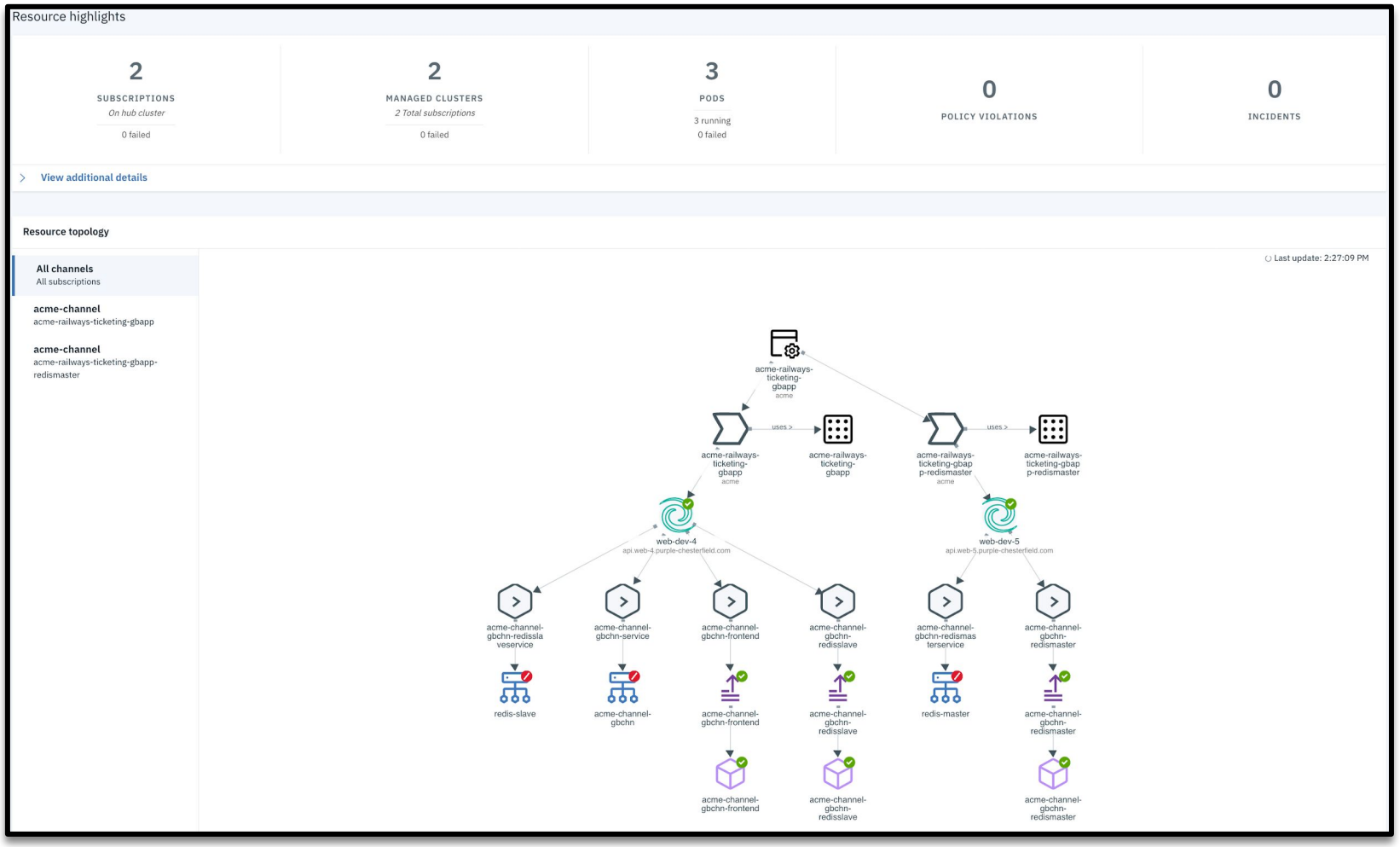


- **Centrally** set & enforce policies for security, applications, & infrastructure
- Quickly **visualize** detailed **auditing** on configuration of apps and clusters
- Built-in **CIS** compliance policies and audit checks
- **Immediate** visibility into your compliance posture based on **your** defined standards

Red Hat

Advanced Application Lifecycle Management

Simplify your Application Lifecycle



- **Easily** Deploy Applications at **Scale**
- Deploy Applications from **Multiple** Sources
- Quickly **visualize** application relationships **across** clusters and those that **span** clusters

Red Hat

Benefits

Red Hat OpenShift and Red Hat Advanced Cluster Management for Kubernetes

Accelerate development to production

Self-service provisioning allows app dev teams to request clusters directly from a catalog removing central IT as a bottleneck.

Increase application availability

Placement rules can allow quick deployment of clusters across distributed locations for availability, capacity, and security reasons.

Reduce costs

Centralized management of clusters reduces operational cost, makes the environment consistent, and removes the need to manually manage individual clusters.

Ease compliance

Policies can be written by the security team and enforced at each cluster, allowing environments to conform to your policy.

Red Hat
Advanced Cluster Security
for Kubernetes

StackRox | Red Hat ACS

Alfred Bach
Principal Solution Architect - Cloud, Security & DC- Infrastructure
Partner Enablement Team EMEA
abach@redhat.com

Red Hat

Kubernetes is the standard for application innovation...

- Microservices architecture
- Declarative definition
- Immutable infrastructure

...and Kubernetes-native security is increasingly critical

- Secure supply chain
- Secure infrastructure
- Secure workloads

DevOps DevSecOps Security

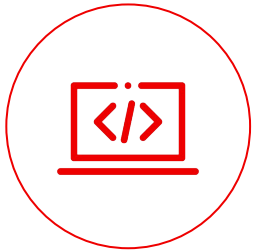
Benefits of a Kubernetes-native approach to security

Lower operational cost

DevOps and Security teams can use a common language and source of truth

Reduce operational risk

Ensure alignment between security and infrastructure to reduce application downtime



Increase developer productivity

Leverage Kubernetes to seamlessly provide guardrails supporting developer velocity

Red Hat Advanced Cluster Security for Kubernetes

A cloud workload protection platform and cloud security posture management to enable you to “shift left”

Shift left	**Cloud security posture management (CSPM)**	**Cloud workload protection (CWPP)**
Secure supply chain	Secure infrastructure	Secure workloads
Extend scanning and compliance into development (DevSecOps)	Leverage built-in Kubernetes CSPM to identify and remediate risky configurations	Maintain and enforce a “zero-trust execution” approach to workload protection

Red Hat OpenShift provides a secure foundation

Detect

- Trusted content
- Container registry
- Build management
- CI/CD pipeline

Protect

- Kubernetes platform lifecycle
- Identity and access management
- Platform data
- Deployment policies

Respond

- Container isolation
- Network isolation
- Application access and data
- Observability

Build — **Deploy** — **Run**

DevSecOps

RHACS delivers security depth to entire application lifecycle

Detect	Protect	Respond
Trusted content	Kubernetes platform lifecycle	Container isolation
Container registry	Identity and access management	Network isolation
Build management	Platform data	Application access and data
CI/CD pipeline	Deployment policies	Observability
Vulnerability analysis	Image assurance and policy admission controller	Runtime behavioral analysis
App config analysis	Compliance assessments	Auto-suggest network policies
APIs for CI/CD integrations	Risk profiling	Threat detection / incident response

Build — **Deploy** — **Run**

DevSecOps

RHACS

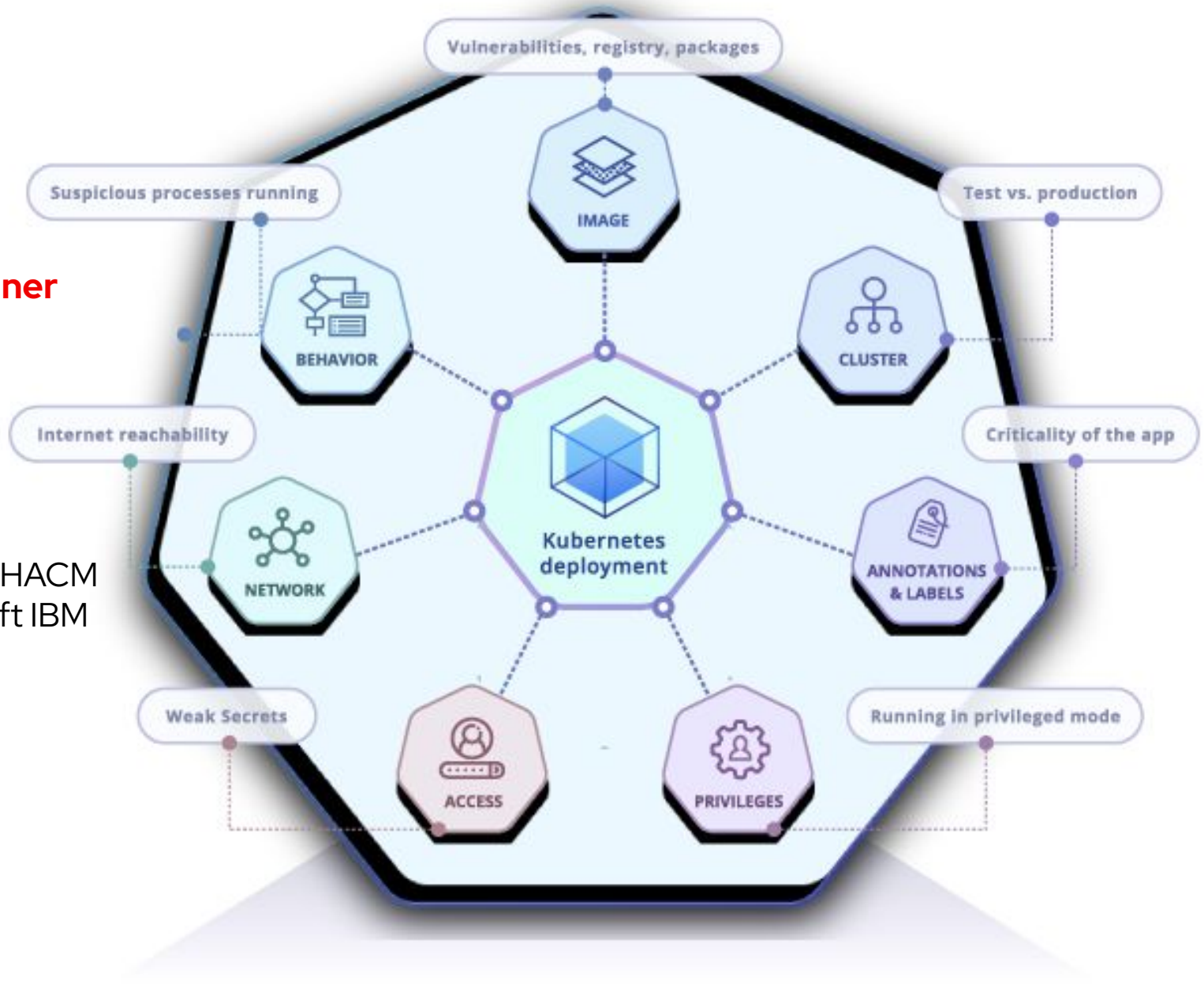
Securing Kubernetes Deployments

It's all about the Application in the container

- plus a Registry Scanner.

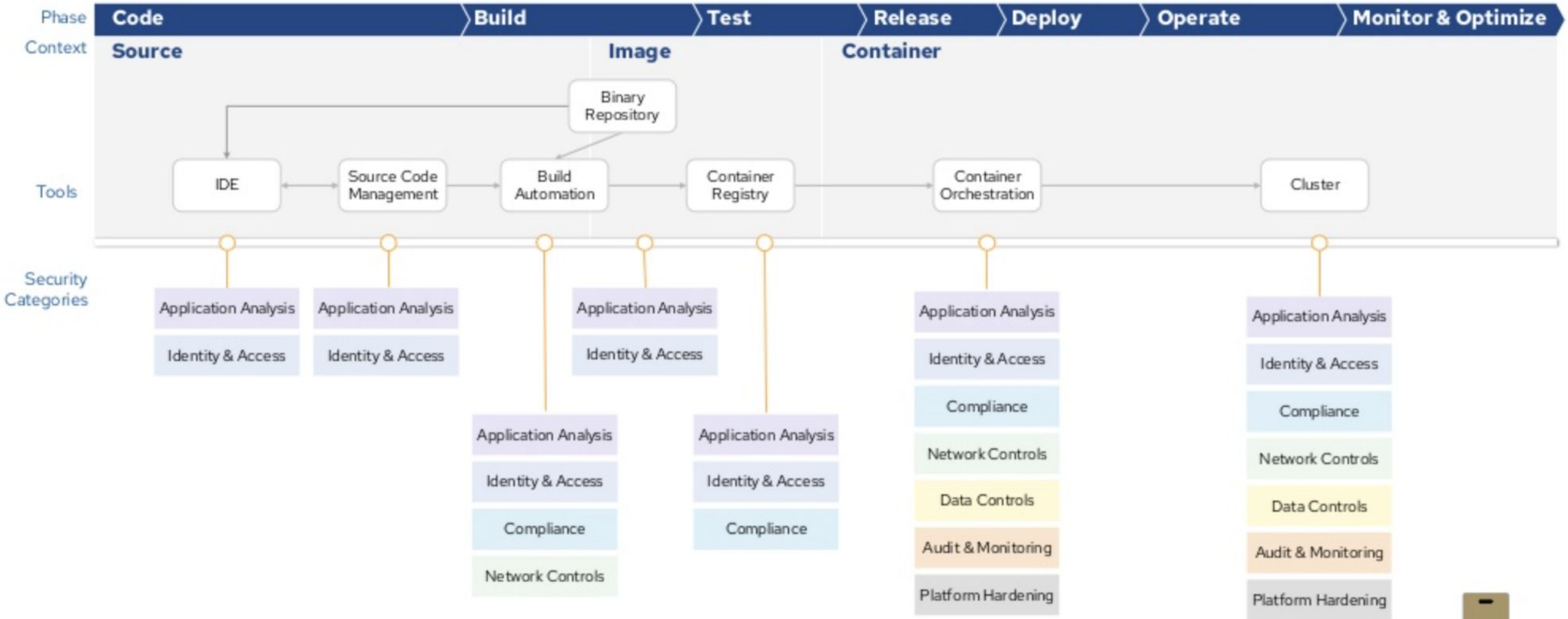
It's not:

- End 2 End Monitoring -> Dynatrace
- Infrastructure Monitoring - RHACM
- Infrastructure Compliance Monitoring - RHACM
- Access Control / Audit to and in OpenShift IBM QRadar or CyberARC
- SIEM Solution -> Splunk
- Certificate Management - Cert Manager
- API Management - 3scale
- Application Performance Management
- Registry - QUAY
- Service MESH

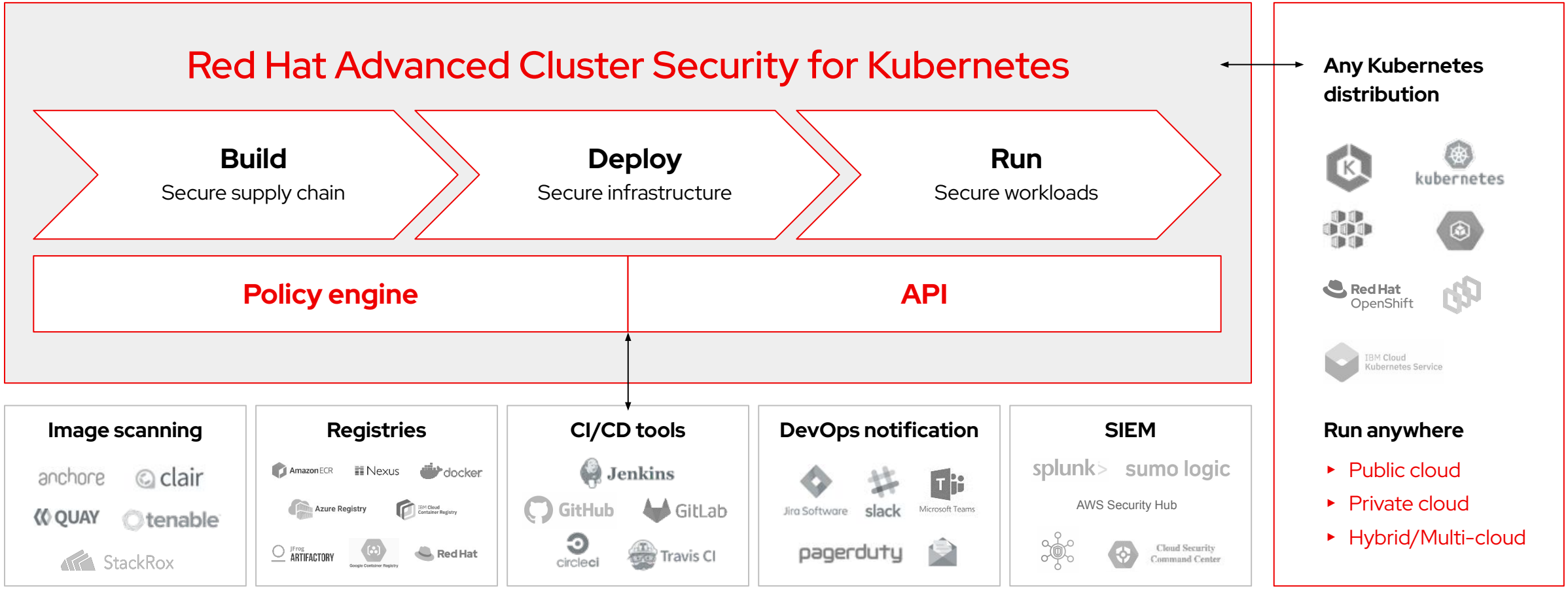


RHACS

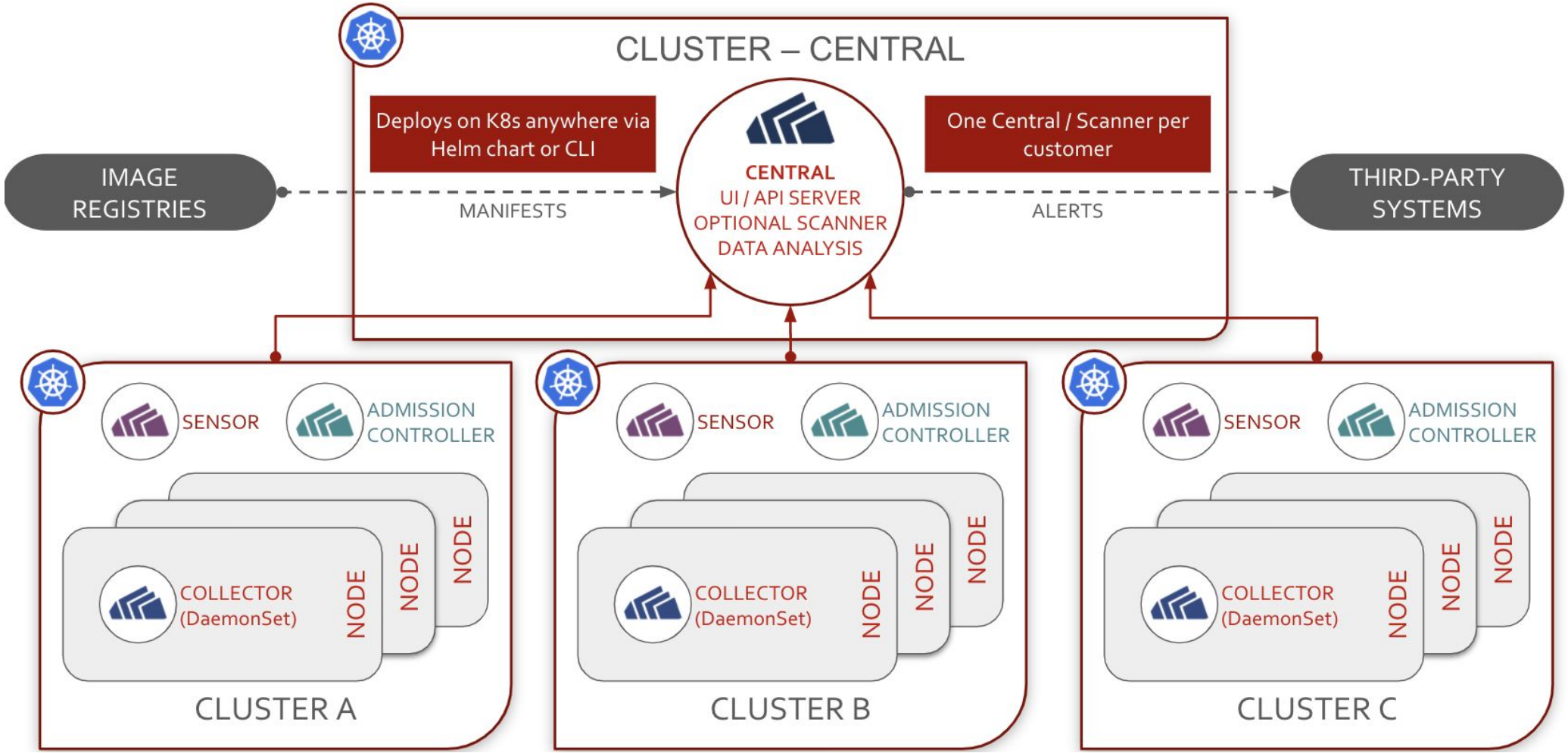
adding security to dev ops for your kubernetes native applications



The first Kubernetes-native security platform



Architecture



Who are the buyers?

Budget may come from CISO, DevOps, Platform team

Cloud Native companies

- DevOps teams
- Shift left / DevSecOps
- Influencers: Security Architects

Fortune 500, Global 2,000

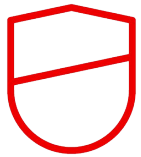
- CISO
- IT Ops
- Influencers: Security Architects, DevOps

Relevant use-cases for StackRox you can have a conversation on day 1

Try to focus on these use-cases and give timely & valuable feedback to help shaping our roadmap

Detect

Find and remediate security issues as your applications are built enabling faster delivery. Apply intelligence from runtime analysis to adjust subsequent builds.



Protect

Protect your infrastructure by securing the Kubernetes platform configuration and automating security-related application deployment policies.

Respond

Monitor for and respond to anomalous application behavior. Leverage deep data collection and correlation to identify threats and enable forensic analysis.

Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.


linkedin.com/company/red-hat


youtube.com/user/RedHatVideos


facebook.com/redhatinc


twitter.com/RedHat

Red Hat