

Platform Engineering as the catalyst for 10x developer productivity

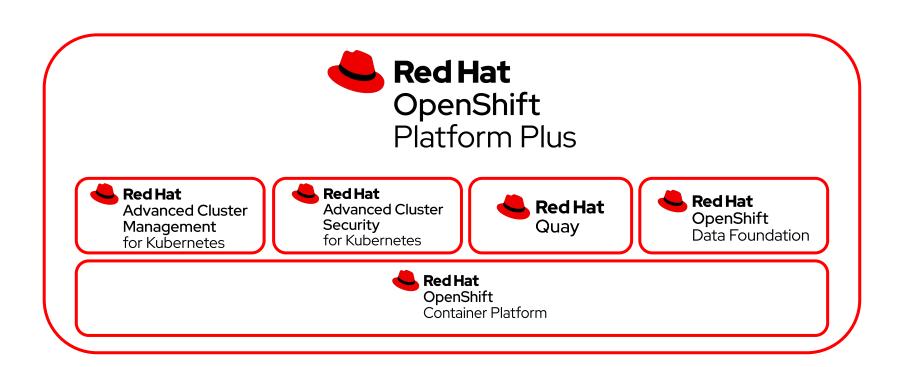
Internal Developer Platform with Trusted Software Supply Chain





Red Hat OpenShift Platform Plus

Unified experience, secure and platform consistent everywhere



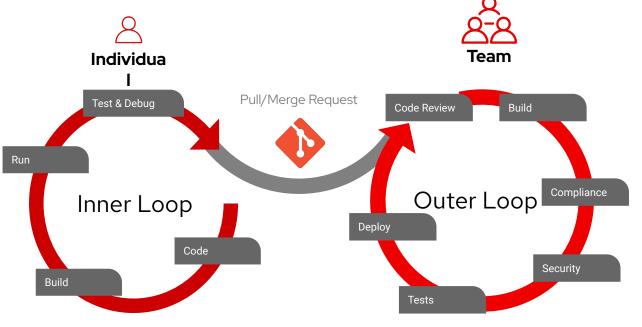
Developer Experience

Highly Restricted Laptop - Empowered workspace in the cloud

3 weeks to 1st commit

-1 minute to contribute code

"It works on my machine" - Consistent tooling and dependencies across the team



Is my code secure? -Golden Path Templates ensure compliance

How do I deploy? -Self-service provisioning

Where is ...? - Single pane of glass for all tooling

Dev Spaces

Developer Hub

Developer Experience

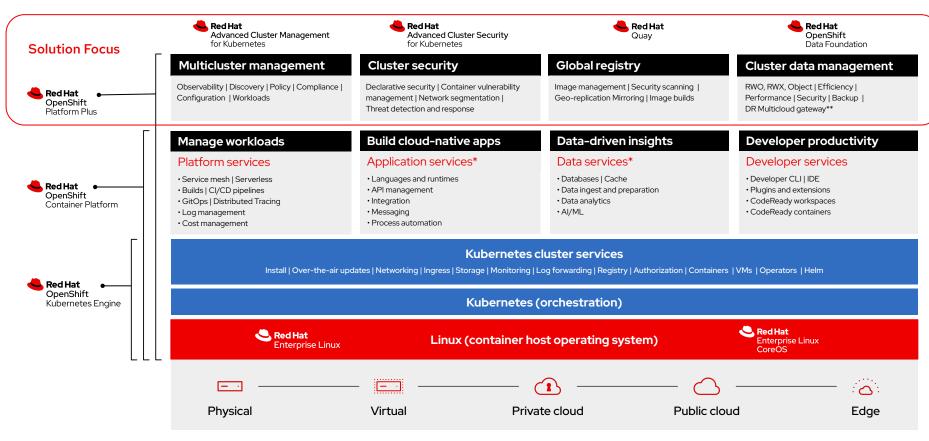




Developer Hub



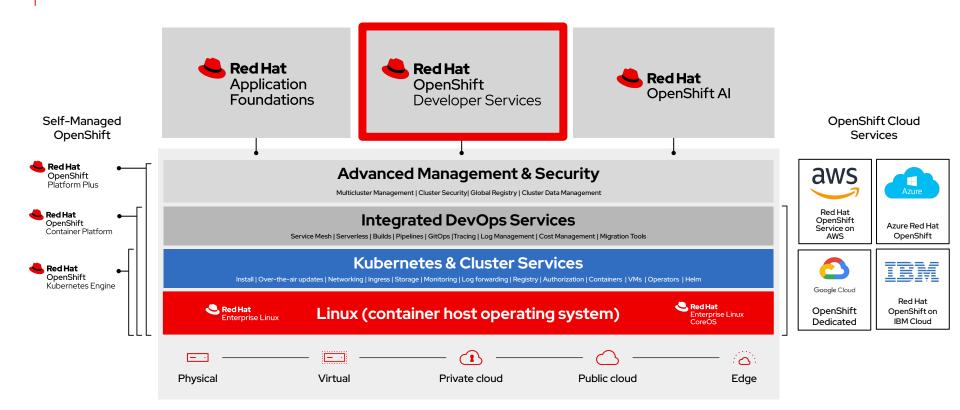
Red Hat open hybrid cloud platform



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



^{**} Disaster recovery, volume and multicloud encryption, key management service, and support for multiple clusters and off-cluster workloads requires OpenShift Data Foundation Advanced





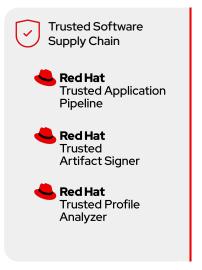


Red Hat
Developer Hub









Application Networking Services Red Hat Service Interconnect

Allows developers to quickly and securely deliver applications to production

Enabling platform engineers to more easily enforce operational controls and compliance across hybrid multi-cloud environments



Advanced Cluster Management

Advanced Cluster Management

Application-centric Management

Deploy, upgrade, and manage applications with consistency across multiple clouds

Policy-Based Governance

Enforce configuration policies and ensure compliance across clusters, applications and infrastructures

Cluster Lifecycle Management

Centrally, create, update, delete clusters across the enterprise





Management









Management

#redhat #openshit

ACM capabilities

- ACM provides the single pane of glass to manage Kube clusters regardless of region.
 ACS shines at evaluating and enforcing the security posture for those clusters.
- End to End management, visibility and control across hybrid platforms

 Security and Compliance of entire kubernetes domain across multiple data centers

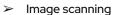
 Clusters can be running anywhere on prem, public clouds, private clouds & managed
- Network configuration, Role based configuration, CMDB, ITSM integration Ansible can be leveraged to boost the automation and remediation with ACM
- Policy driven governance, risk and compliance management
- Advanced application life cycle management & Application Topology view
 Deploy applications at scale to clusters with labels, Applications views across clusters, events oriented action before and after deployments
- Multicluster observability for health and optimization Select/Sort/filter capabilities, troubleshot faster, aggregated metrics



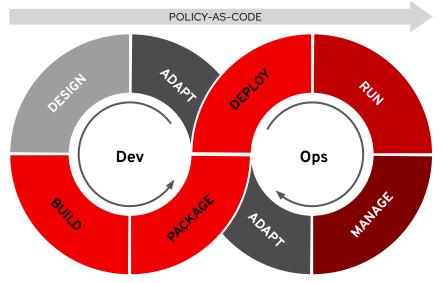
Advanced Cluster Security

Red Hat Advanced Cluster Security: Use Cases

Security across the entire application lifecycle



- > Host scanning
- Serverless scanning
- Configuration scanning
- Compliance checks, auditing, reporting, remediation
- CI/CD integration and automation
- Artifact attestation



- Runtime threat detection
 - ✓ Process allowlisting
 - / Anomaly detection
 - / Policy-based detection
- Runtime vulnerability management
- Incident response
- Integrations
 - ✓ SIEM
 - ✓ Registries, CI/CD, runtimes, notification tools
- Feedback loop

VISIBILITY (images, deployments, network flows, processes, secrets use)

CONTAINERS AND K8S (on-premises, cloud/hybrid, edge)



Run

Secure the container runtime, effectively triage issues, and fix problems upstream

Platform capabilities

Minimize the impact of an attack with runtime enforcement of

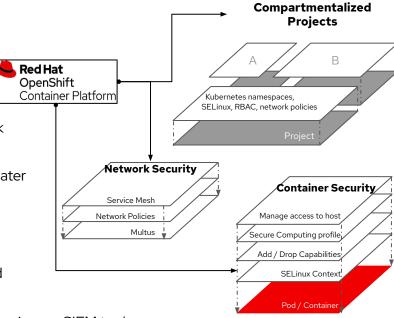
Security contexts, pod security standards

· Network Policies for microsegmentation

Analyze kube-audit logs for high risk events

Analyze network traffic in real-time and flag anomalous network behavior as well as other anomalous runtime behavior

- Combine configuration details with vulnerability details for a greater understanding of risk and impact of running workloads.
- Get compliance information tied directly to workloads, enabling Security teams to respond effectively.
- Automate threat detection and response with build, deploy, and runtime policies integrated into your supply chain.
- Export security information to scheduled reports, notification services or SIEM tools



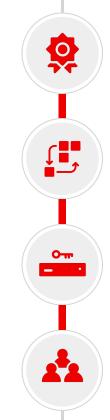




Red Hat Quay

Enterprise container registry for multi-cluster environments





Red Hat

Quay

Trusted, open source container registry platform that runs everywhere, but runs best on Red Hat OpenShift

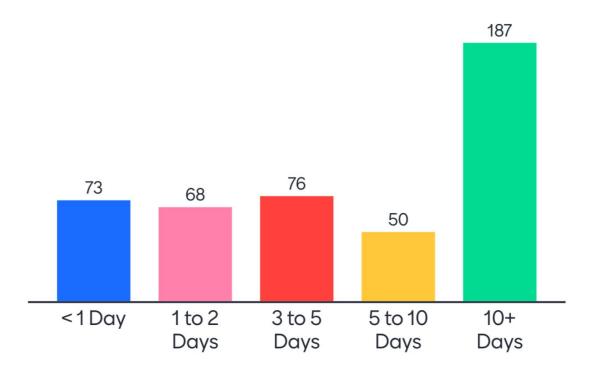
Scalability without limits, from a developer laptop to a container host or Kubernetes, on-premise or on public cloud

Global governance and security controls, with image vulnerability scanning, access controls, geo-replication, etc.

Offered as a **self-managed enterprise container registry product** and as a **hosted multi-tenant SaaS solution**



How many days waiting on <resources>?





Overloaded

COBOL JCL/WFL

Batch Centralized

C/C++ 4GLs RDBMS/ SQL Unix

Interactive Distributed

Mouse **PushButton Click** DropDown List Windows

GUI/Event-Driven

HTML HTTP CGI **GET/POST** Cookies Java Servlet EJB

Request/Response

Solaris/AIX

MVC-Struts **DI-Spring ORM-Hibernate** XML

WS-* JSF

Agile

Automated Testing CI

SVN Linux

AJAX

Java EE 6 HTML5 (JavaScript) iOS/Android Phonegap/Cordova

> Cucumber REST

Maven/Gradle

git MongoDB/Redis Hadoop

> **DevOps** CD

Microservices

Asynch, Functional Reactive

Java EE 8-12, NodeJS, Go Serverless

> AWS. Azure Flutter, Typescript

Kafka, GCP

gRPC, Avro

Vue, React, Next.js Serverless, Wasm Terraform, Vault

CRI-O, Podman

ArgoCD, Tekton, CircleCI Backstage, Helm

Kustomize

Istio/ServiceMesh

Cloud, Kubernetes

2010-2016





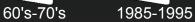




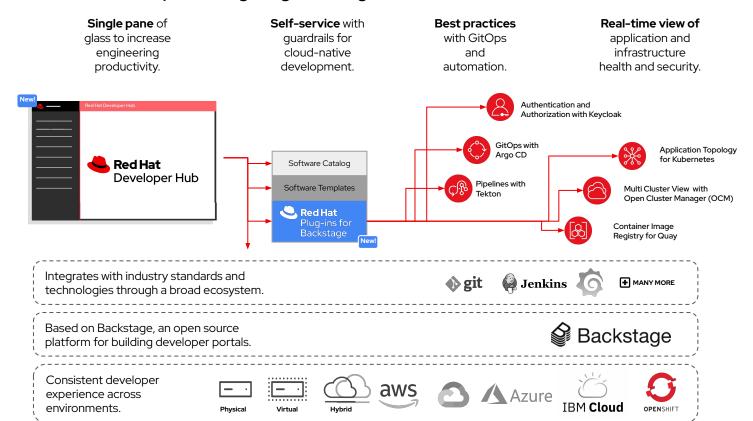
1995-2003



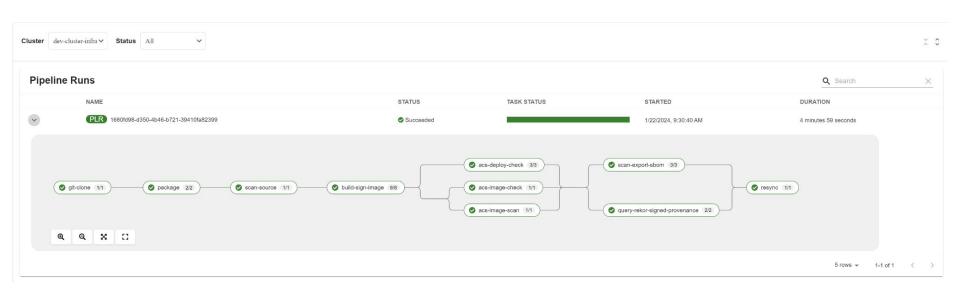
2003-2011



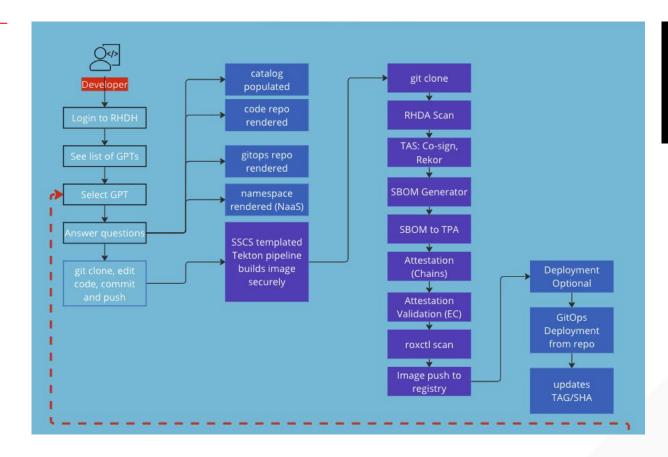
Empowering engineering to deliver business value faster.











Scenario

Using the GPT set up by Paula the app dev team can create a new app and work on it all in RHDH.

DEMO

https://youtu.be/Mw4PReDnwv0?si=J4Br6gID5Evommf9





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.

- in linkedin.com/company/red-hat
- youtube.com/user/RedHatVideos
- facebook.com/redhatinc
- twitter.com/RedHat



