



Driving Developer Productivity @ Red Hat

Red Hat Summit Connect Istanbul

Natale Vinto

Senior Manager, Developer Advocates

@natalevinto

Developer-centric productivity

Past

vs.

Today



Time to
complete a task

Traditional apps



Cloud-native apps



AI/ML, Functions



Secure & Automated Infrastructure and Operations



Physical



Virtual



Private cloud



Public cloud



Edge

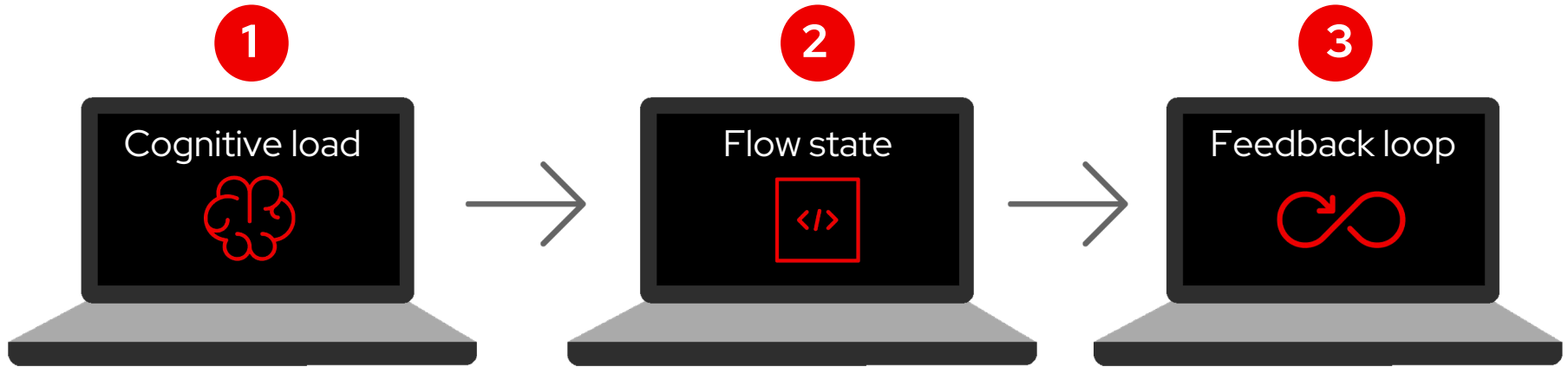
Benefit of having a Developer-centric culture

 4x revenue
growth

Developer velocity: “How software excellence fuels business performance”
McKinsey & Company

Source: <https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/developer-velocity-how-software-excellence-fuels-business-performance>

Ideal Developer Experience



1

Cognitive load... 

"Cognitive load refers to the amount of working memory resources used"



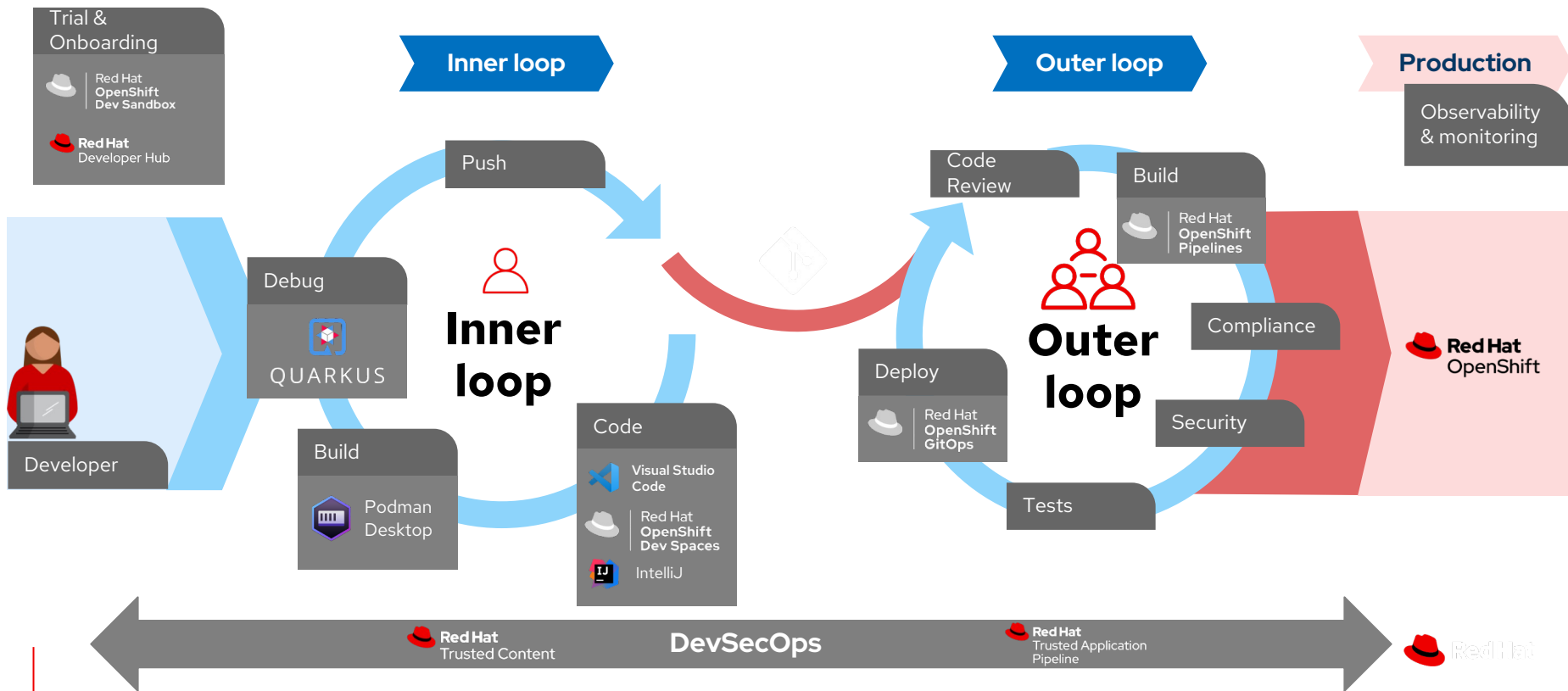
Reduce the cognitive load



Simple & intuitive

Developer Strategy follows the Developer Flow

How Developer **Tools** bring customers from code to production



Developer Strategy Follows the Developer Flow

Developer Strategy Follows the Developer Flow

Trial & Onboarding

- Red Hat OpenShift Dev Sandbox
- Red Hat Developer Hub



Developer



Our commitment to OpenSource



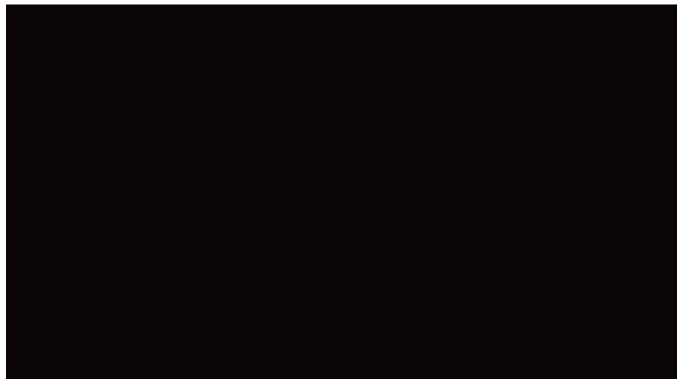
Red Hat
Developer Hub



Backstage



Backstage: An open platform for building developer portals



[Backstage.io](https://backstage.io)








Allowing developers to focus on what they want to ... coding, rather than navigating to all the different tools

Resulting in lowering the cognitive load and **unlocking developer productivity**

Developer portals function as access points to the IDP and provide a user interface for developers to discover the platform's capabilities.

Happy developers makes happy code!

The five parts of Backstage

	Centralized Software Catalog	Keep track of application ownership and metadata for all the software in your organization (services, websites, libraries, data pipelines, etc.)
	Plugins	Extend functionality and provide customization
	Software Templates (Golden Path Templates)	Quickly spin up new projects and standardize your tooling with your organization's best practices
	Tech Docs	Easily create, maintain, and find technical documentation using a "docs as code" approach
	Search	Find the right information across your entire Backstage ecosystem

Empowering engineering to deliver business value faster.

Single pane of glass to increase engineering productivity.

Self-service with guardrails for cloud-native development.

Best practices with GitOps and automation.

Real-time view of application and infrastructure.

Authentication & Authorization with Keycloak



GitOps with Argo CD



Pipelines with Tekton



**Red Hat
Developer Hub**



Application Topology for Kubernetes



Container Image Registry for Quay



Multi Cluster View with OCM

Red Hat Developer Hub

Supported plugins



Authentication and Authorization with Keycloak



GitOps with Argo CD



Pipelines with Tekton



Application Topology for Kubernetes



Container Image Registry for Quay



Multi Cluster View with Open Cluster Manager (OCM)

Integrates with industry standards and technologies through a broad ecosystem of **community plugins**.



GitLab



Jenkins

sonarqube



argo



MANY MORE

Based on Backstage, an open source platform for building developer portals.



Backstage

Supported deployment

Customer-managed Red Hat OpenShift



Red Hat OpenShift Platform Plus



Red Hat OpenShift Container Platform



Red Hat OpenShift Kubernetes Engine

Managed Red Hat OpenShift services



Managed Kubernetes Services



EKS



AKS



GKE



Red Hat



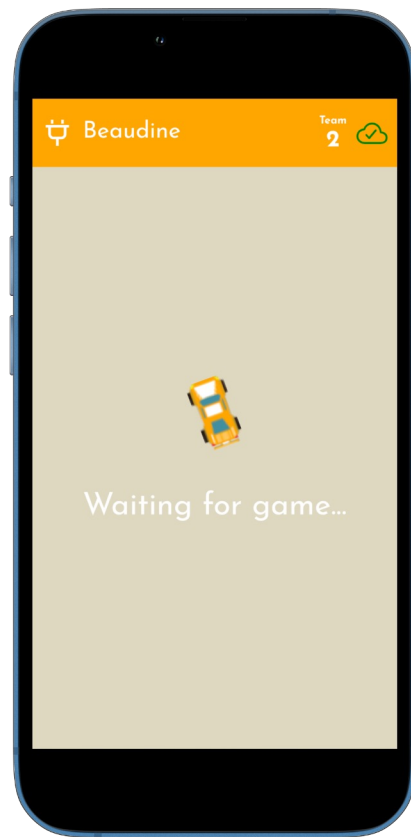
Demo Developer Hub

To get started with Developer Hub, email to rhdh-interest@redhat.com and get access



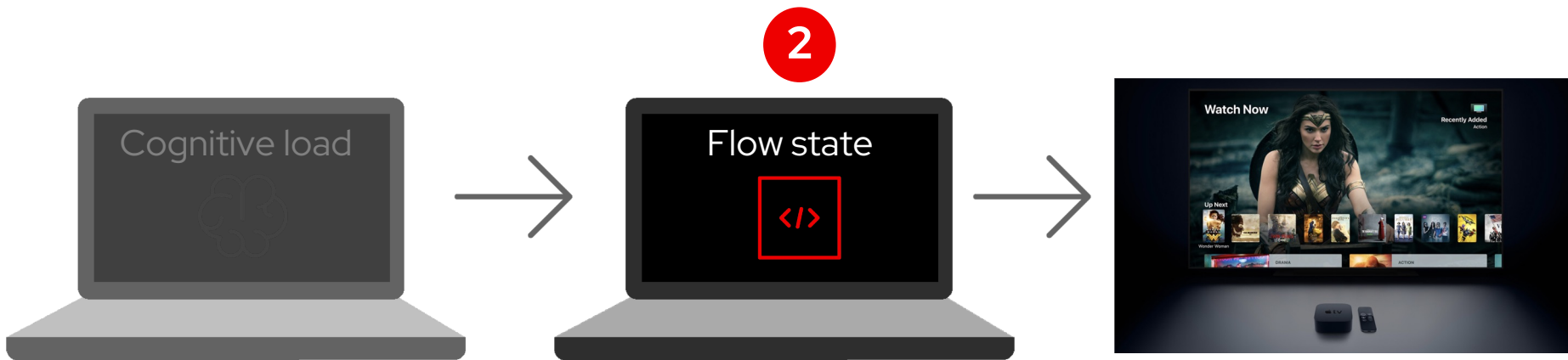


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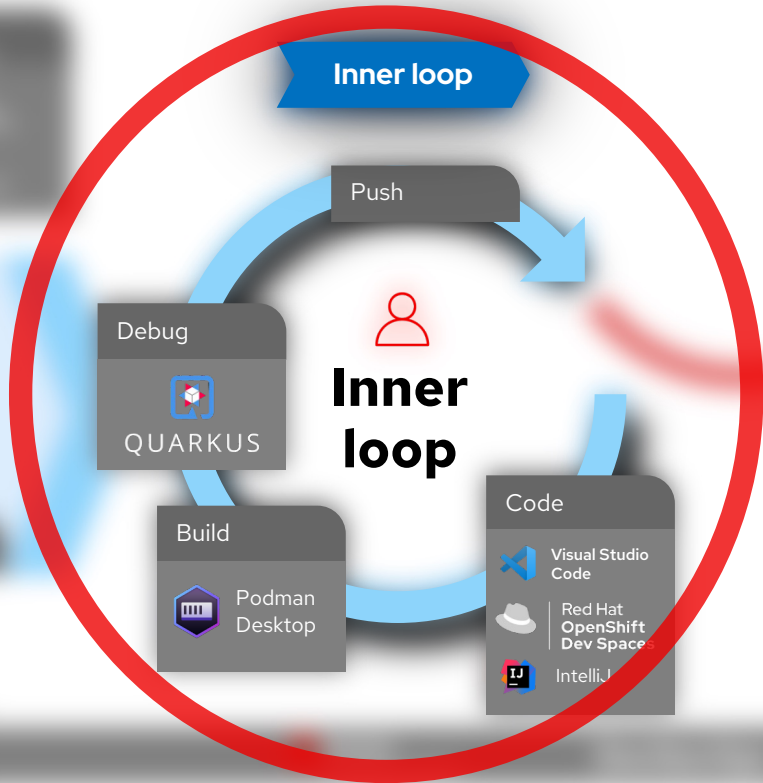


2 Flow state... `</>`

2. Optimize for the *ideal* flow state...



Developer Strategy Address the Developer Flow



SUPERSONIC/ SUBATOMIC/ JAVA

A Kubernetes Native Java stack tailored for OpenJDK HotSpot and GraalVM, crafted from the best of breed Java libraries and standards.

Now Available

QUARKUS 3.2.2

[Read the release notes](#)

GET STARTED WITH QUARKUS

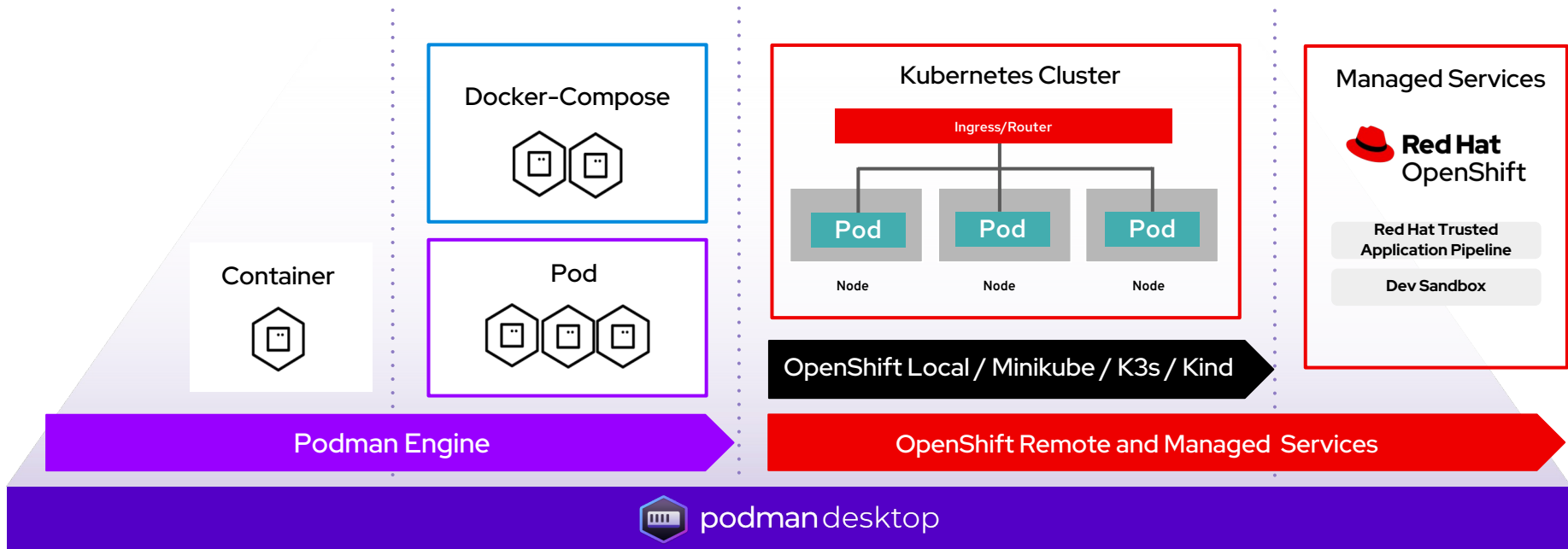
READ THE GUIDES



Podman Desktop

Simplistic onboarding

From applications to containers, to pods, to OpenShift/Kubernetes





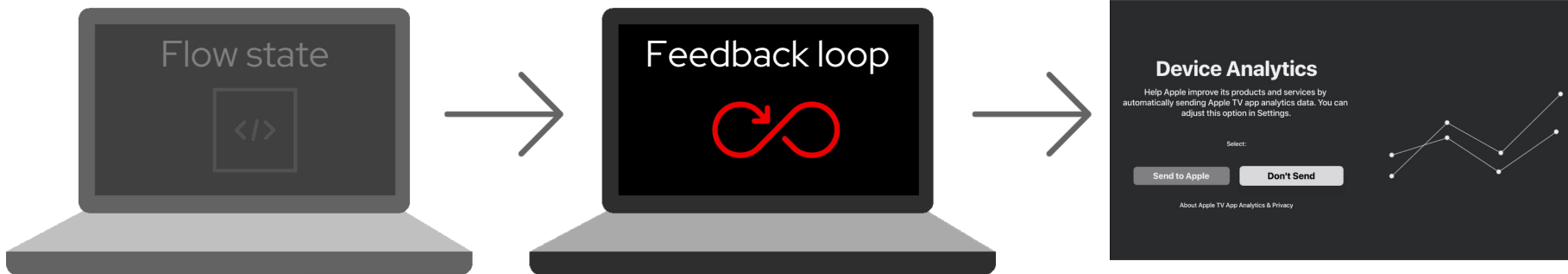
Demo Quarkus & Podman Desktop

Download Podman desktop, <https://podman-desktop.io/downloads>

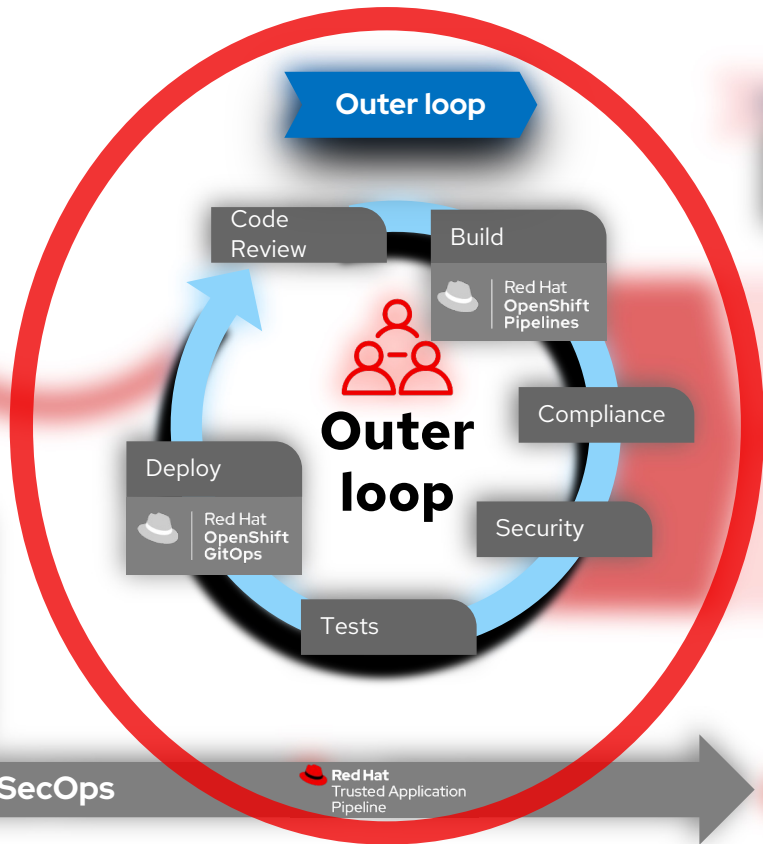
Try Sandbox <https://developers.redhat.com/developer-sandbox>

3 Feedback loop...

Establishing an intuitive feedback loop



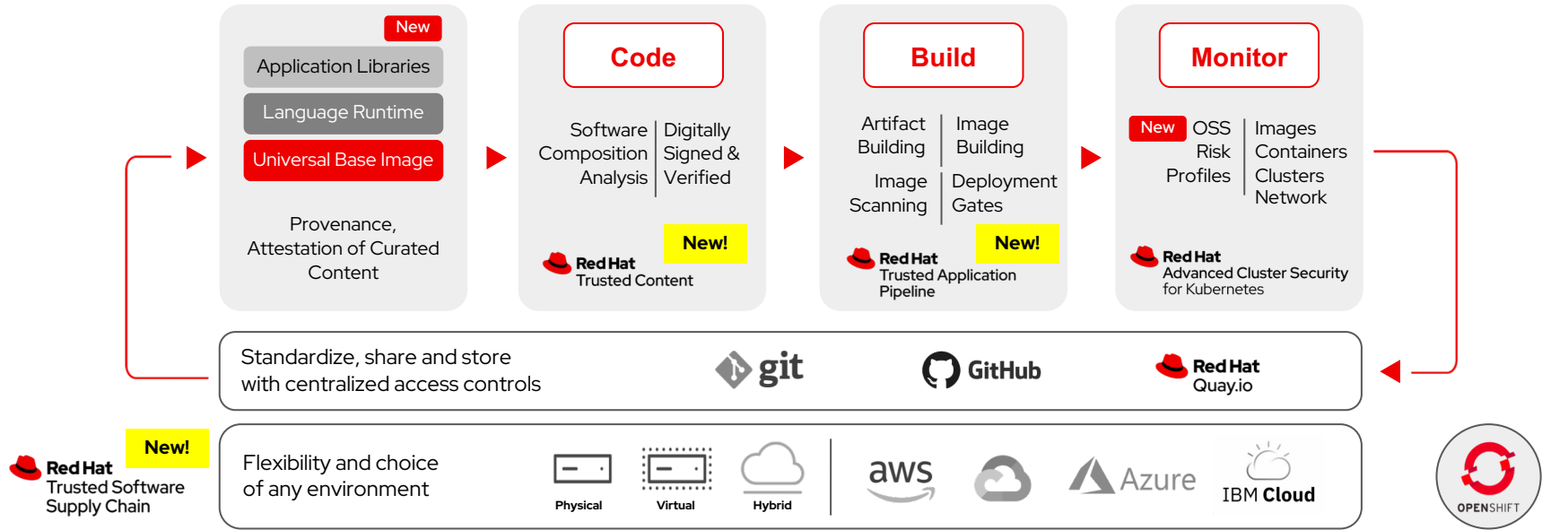
DevSecOps Strategy Address the DevSecOps Plan



Red Hat Trusted Software Supply Chain

Code, build, and monitor with a Trusted Software Supply Chain

With integrated security guardrails at every phase of the software development lifecycle

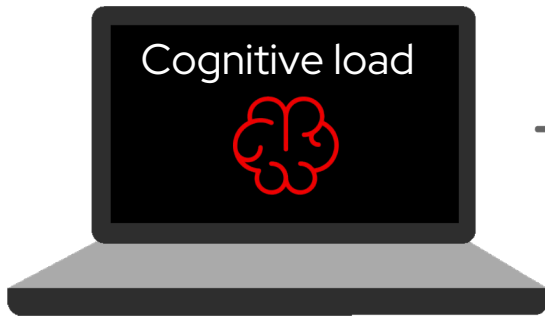




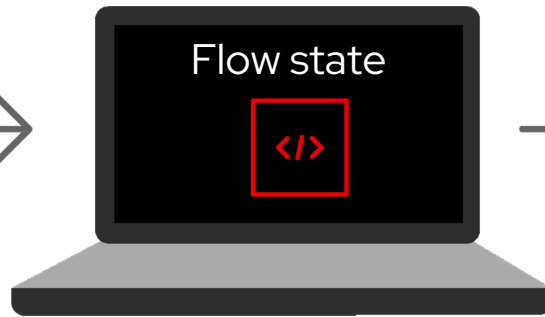
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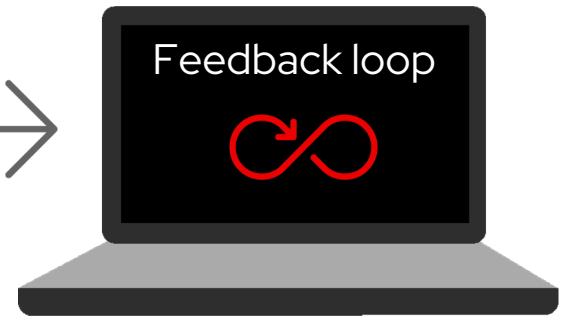
An Ideal developer experience → reduces developer toil and increases developer joy



Red Hat Developer Hub

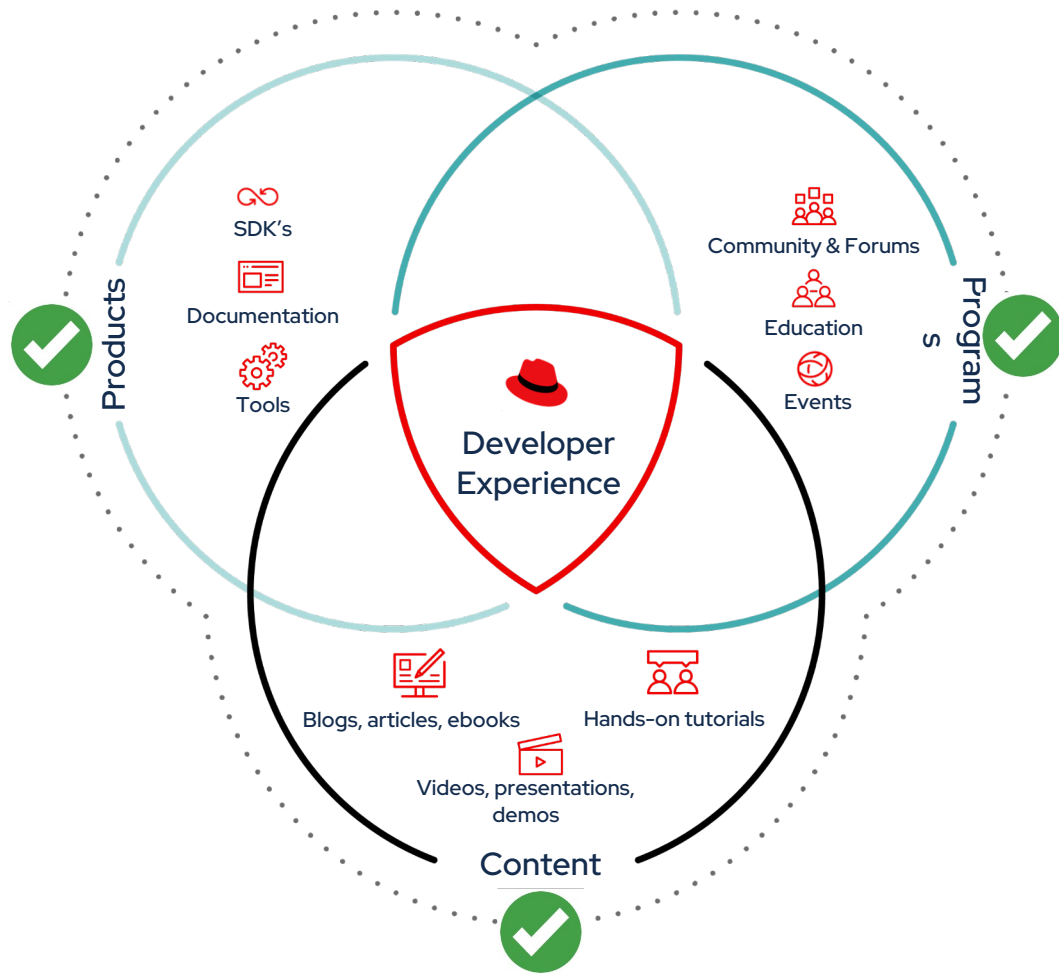


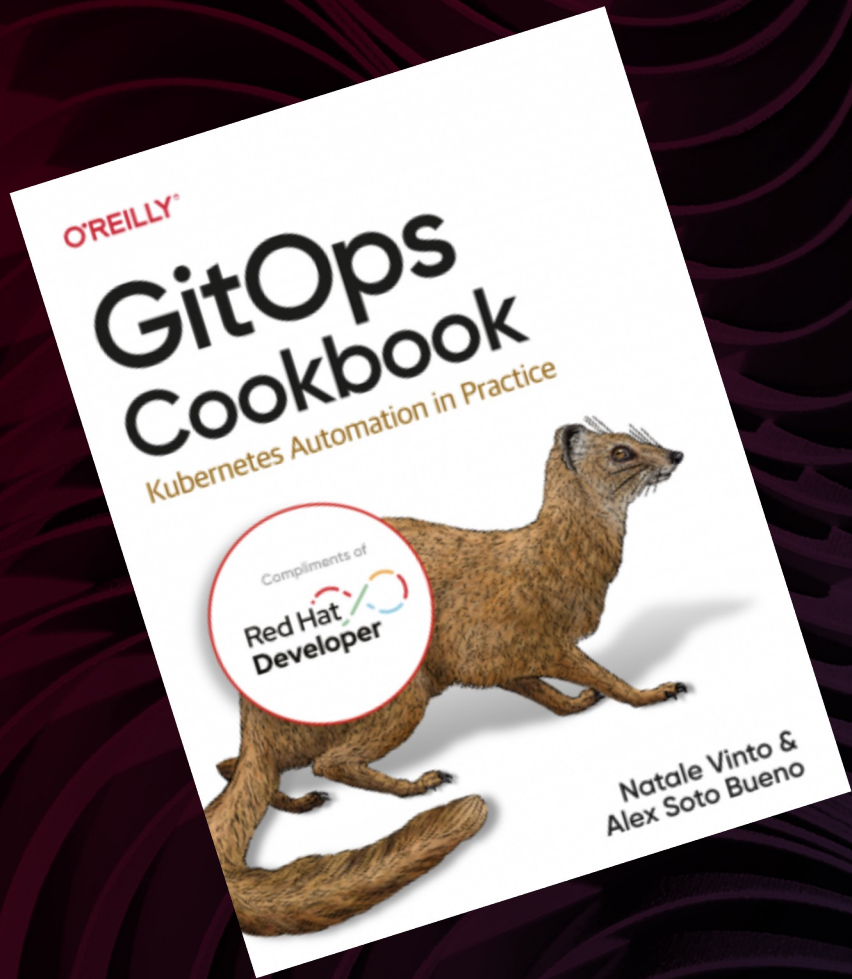
Podman Desktop
Red Hat OpenShift Console

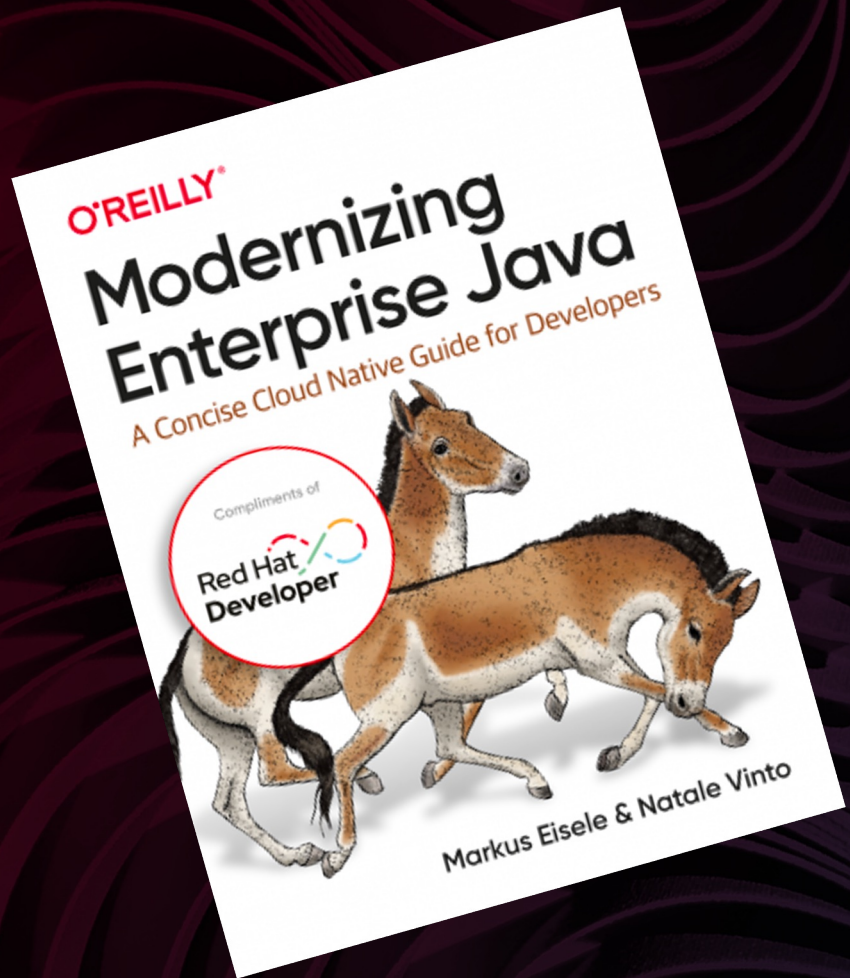


Red Hat Trusted Software
Supply Chain

Red Hat Developer

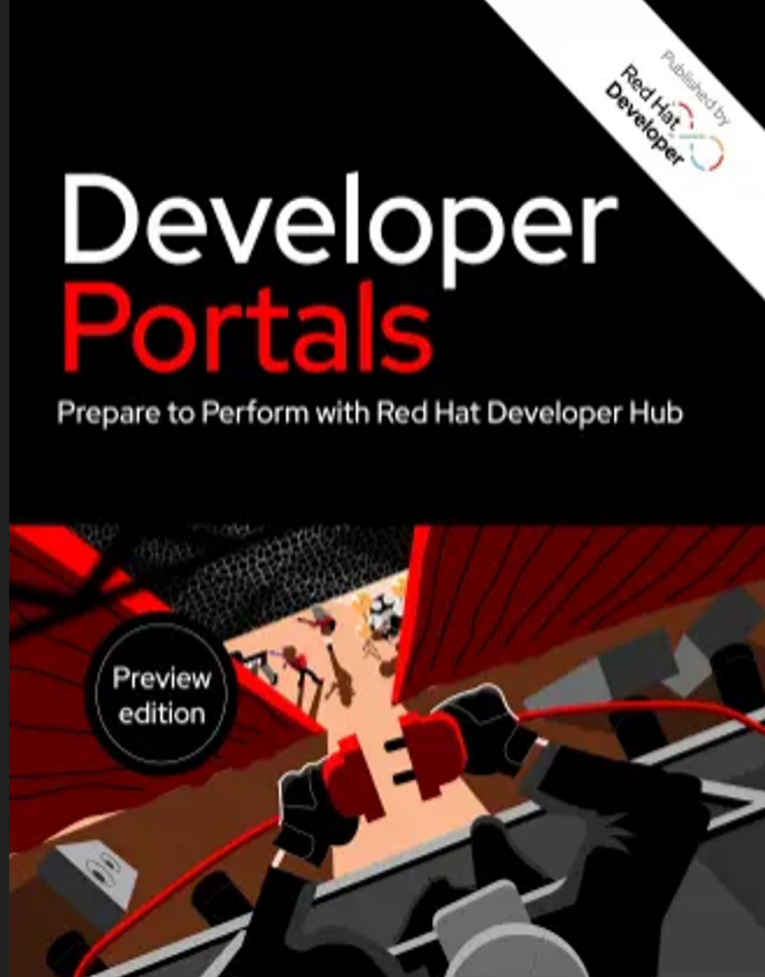








Download the free e-book from:
developers.redhat.com





Learn More about our new products?

Red Hat Developer Hub

<http://red.ht/rhdh>

Podman Desktop

<https://podman-desktop.io/>

Red Hat Trusted Software Supply Chain

<http://red.ht/trusted>



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Breakout Session Feedback



<https://forms.gle/nir7oqhiWbt7dzoy5>