

# Make developers happy :-)

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# What do developers want the most?

5b



To be home on **time!**

# What do developers want the most?

A sepia-toned historical photograph showing a farmer in a wide-brimmed hat operating a wooden plow pulled by two horses in a rural field. The background shows a distant fence and trees under a hazy sky.

Up to date **skills** and  
development practices

# What do developers want the most?



## Frictionless development





# What do developers want the most?

**No tickets**  
**No barriers**  
**No waiting**

# Alex Groom

Based in UK

**Specialist Solution Architect, EMEA**

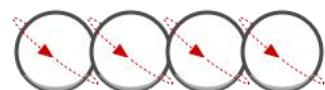
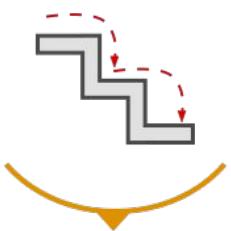
Focus on OpenShift Developer Adoption

+25 years in Software Development



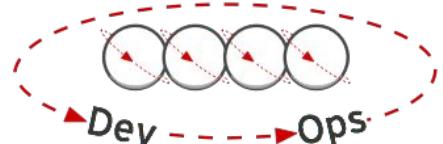
## Development Process

Waterfall



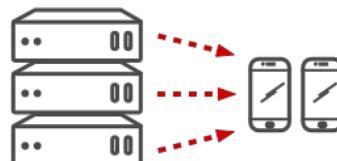
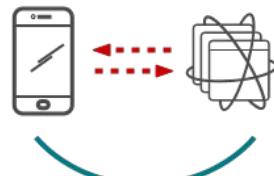
Agile

**DevOps**



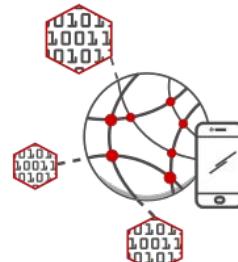
## Application Architecture

Monolithic



N-Tier

**Microservices**



## Deployment & Packaging

Physical Servers



Virtual Servers



**Containers**

## Application Infrastructure

Datacenter



Hosted



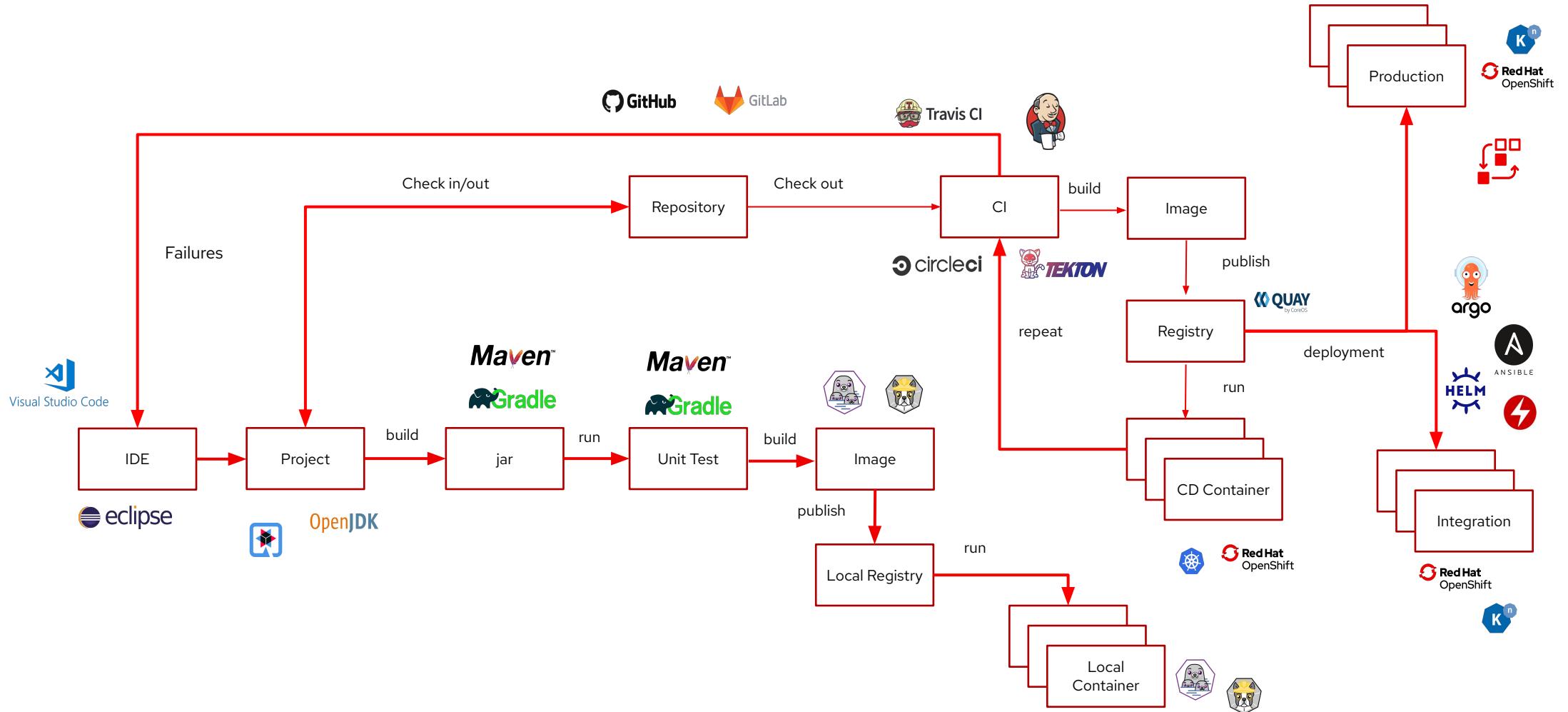
**Cloud**

# We all need to Capture Developers!



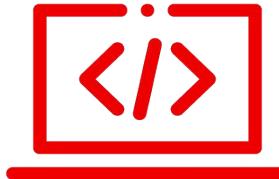
# And turn them into Influencers!

If you help developers, they are helping you!

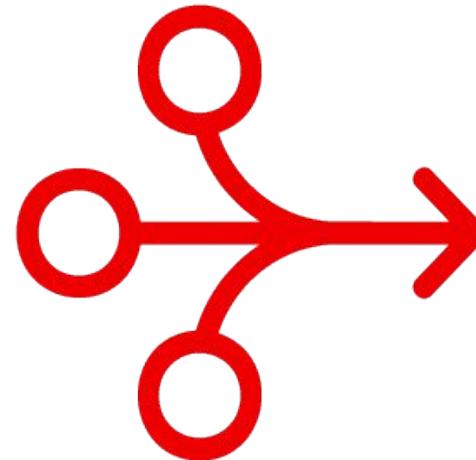
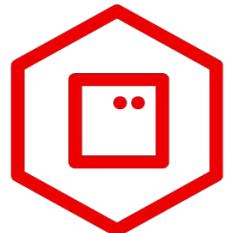


It takes a village....

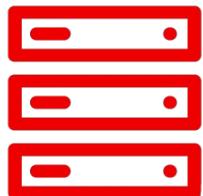
Win the  
developers



Win the  
workloads



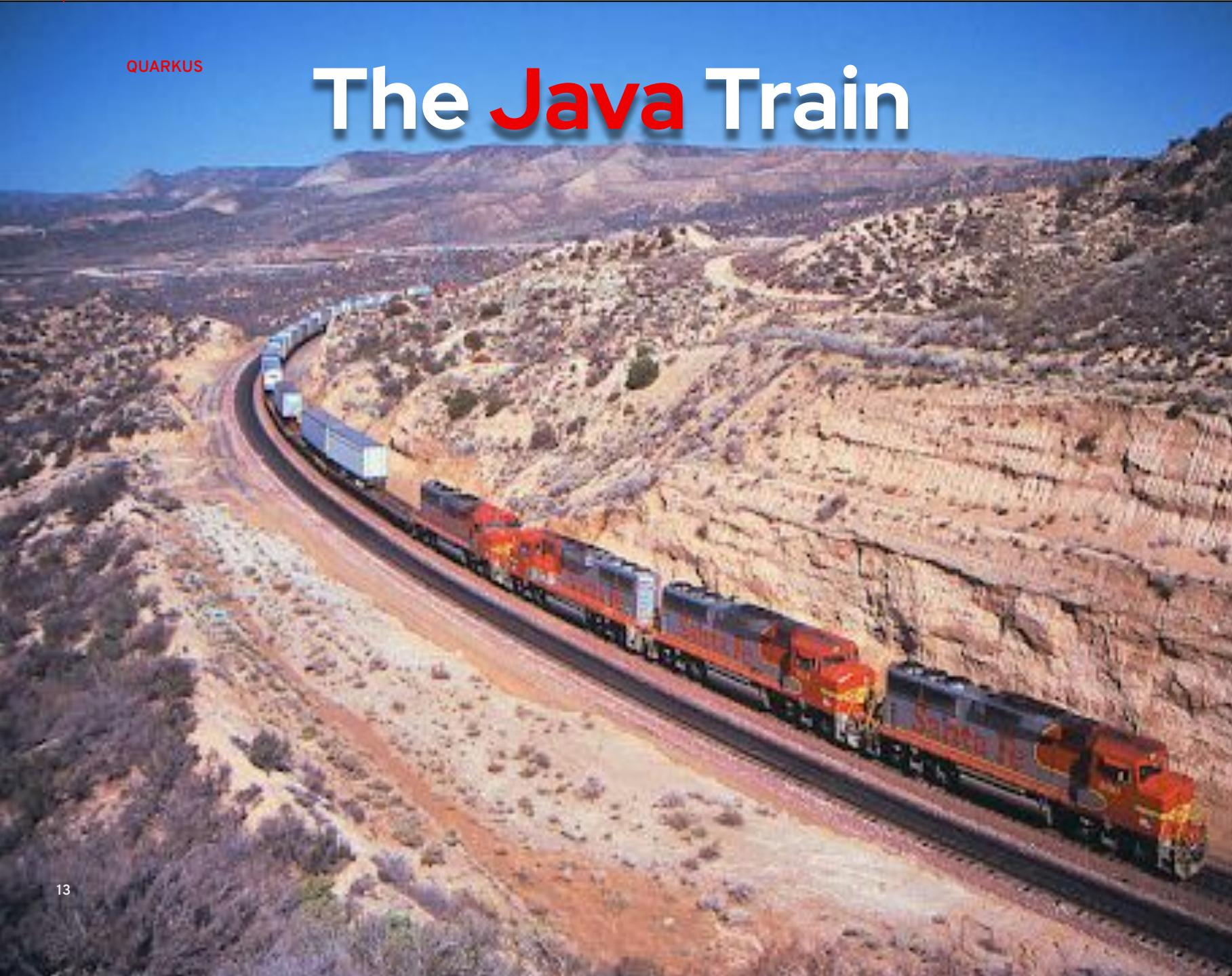
Win the  
platform



# The evolution of software buying

	1990s	2000s	Today
Infrastructure	Data Centers	Cloud	Hybrid Cloud
Buyer	CIO	Executive	End User
Pricing	Large Upfront purchase	Recurrent annual purchase	Start free - Pay as you grow
Distribution	Sales-led growth	Marketing-led growth	Product-led growth

# The Java Train



- A lumbering workhorse
- Takes a while to get going
- But runs for ages
- Lots of skilled people out there
- But designed for a different age

# The Container Runtime



- Lean, fast and small
- And lots of them
- Applications scale with many instances
- Density and Speed is a must

# Quarkus - “The Rocket”



 QUARKUS

- It's still Java
- Ahead of time compilation
- Dependency pruning
- Milli-second start time
- Aimed at Micro-services and Serverless
- 10th of the memory footprint
- Can generate native-images

# The developer wants to learn...

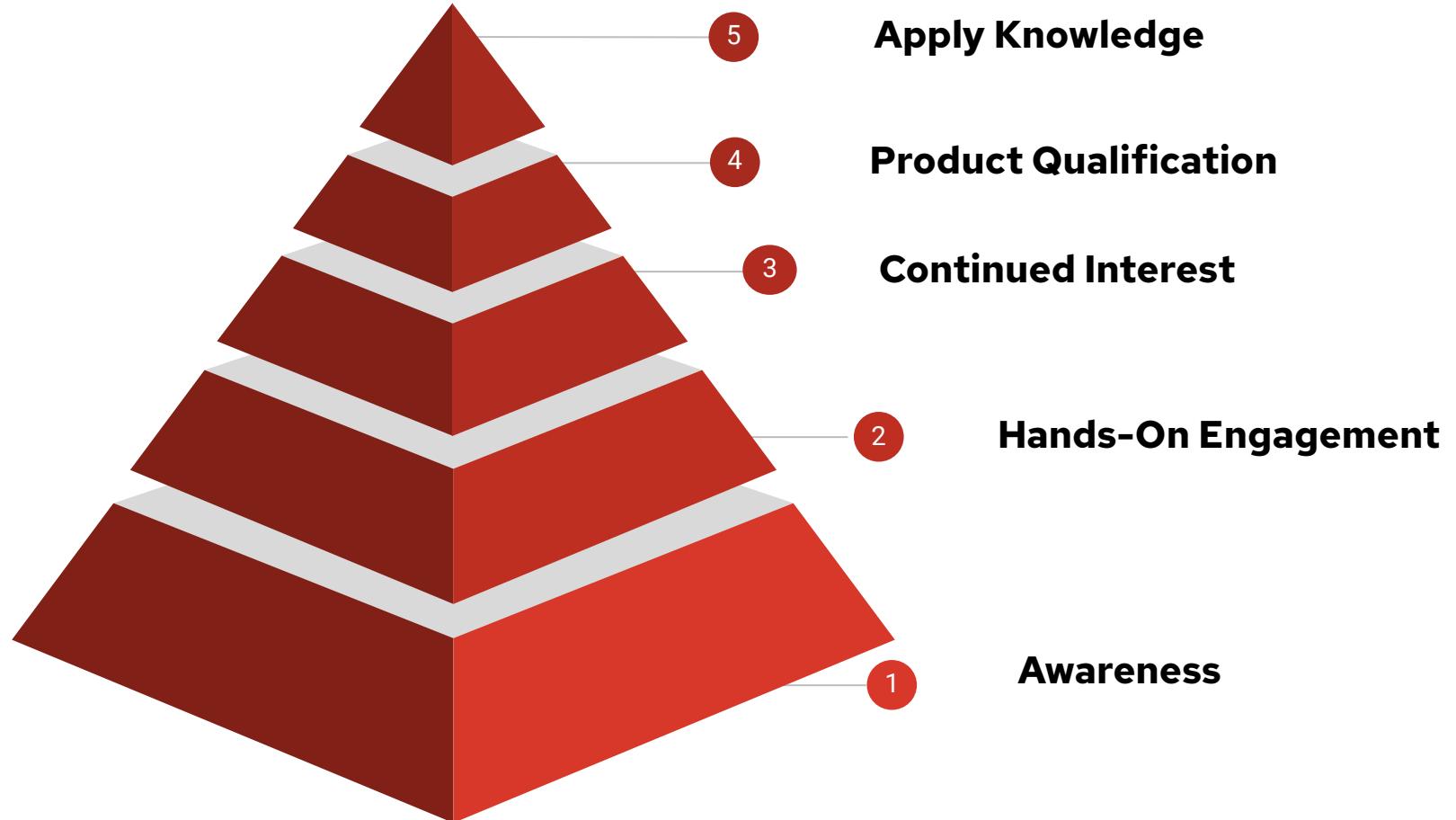


...and Red Hat want to give  
away **free** stuff....



## Developers want to be productive and enjoy their work.

Enabling developers to achieve their goals and use technology with joy and ease is a guarantee for it being used more over time. The OpenShift platform is the kubernetes-native development platform for them.

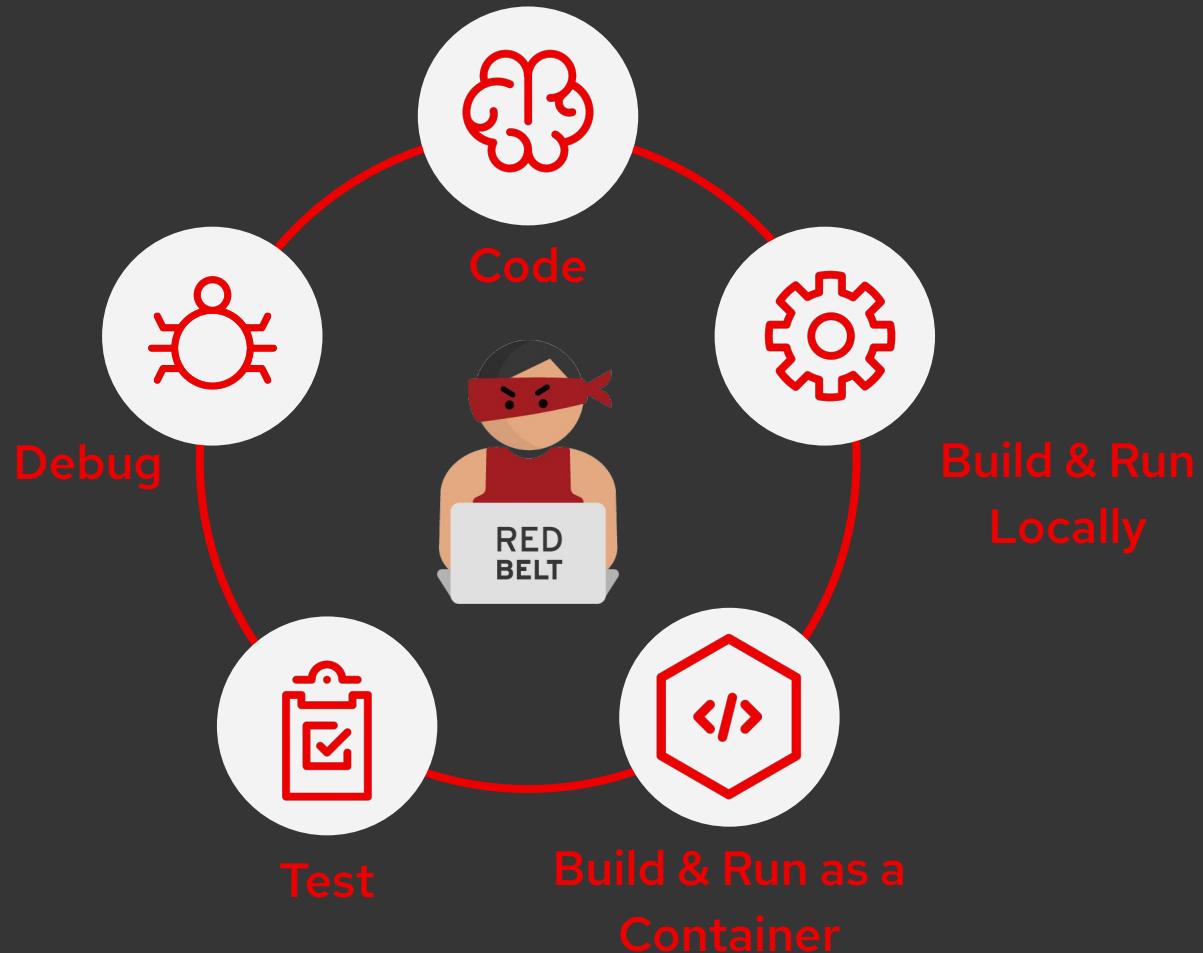


## Developer Activation Tools and Initiatives

Name	Description	Further Material	Activation level
OpenDevHour Webinar Series	A webinar series with a monthly cadence available to attract developers in accounts. No signup. No nurture.	<a href="#">Webinar Schedule</a> <a href="#">Public Website</a>	Awareness
Guided OpenShift Journeys	A simple but scripted approach to learn.openshift.com. Help your customer developers to get first hand experience with OpenShift and Quarkus.	<a href="#">Webinar Page</a>	Continued Interest
SSA Developer Experience Workshops	4 hour long workshops for developers to get a hands on experience with OpenShift and DevOps including inner & outer developer loop, GitOps and Service Mesh	<a href="#">Example Workshop Cloud Native</a>	Hands-On Engagement
Developer Workshops managed by OSEVG	Hands on experience workshops for Developers. Ranging from 1 to two hours in length.	<a href="#">Example Workshop</a>	Hands-On Engagement
DEAP Program	Developer Engineering Advocacy Program. Assigned Red Hat Engineers for 1:1 sessions and high level architecture coaching.	Please contact <a href="mailto:markus@redhat.com">markus@redhat.com</a>	Continued Interest

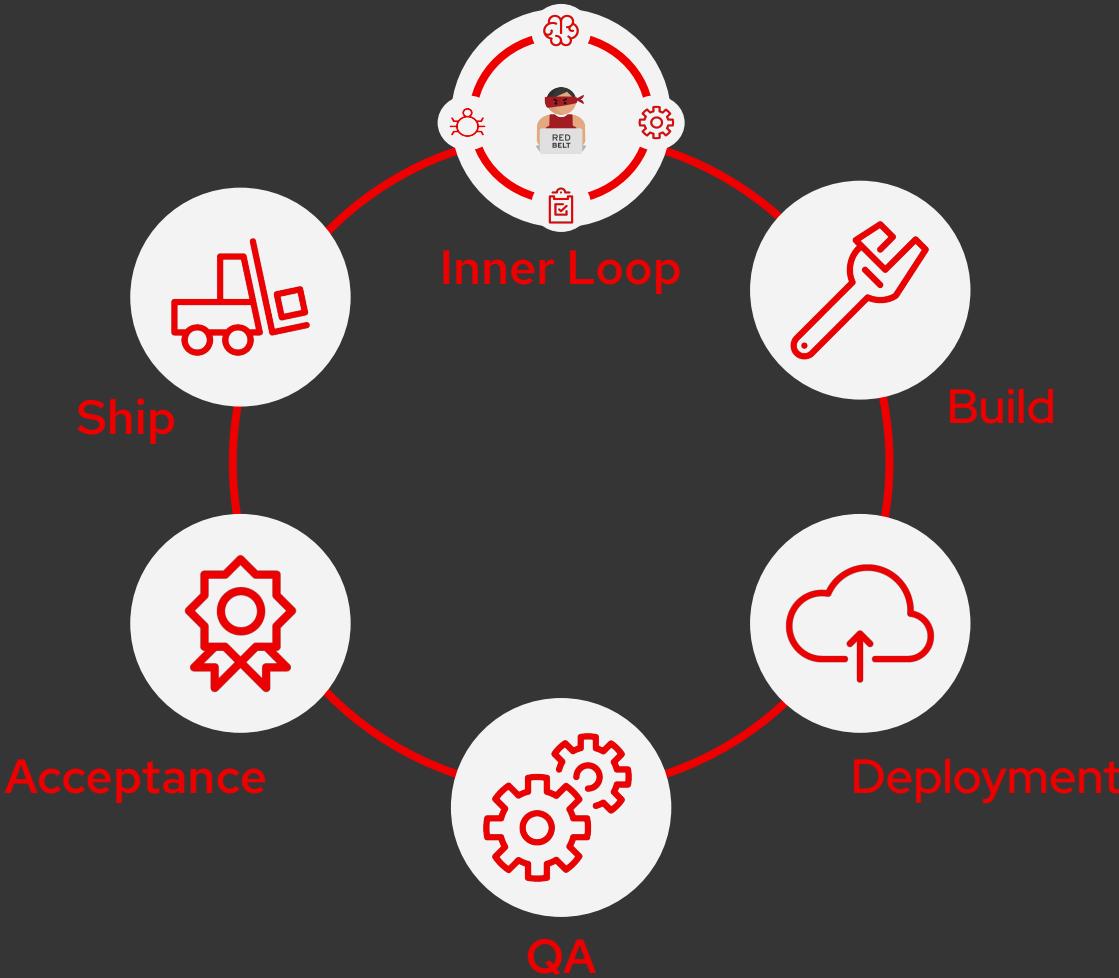
# Developer Inner Loop

Before committing your code



# Developer Outer Loop

After committing your code



## Developer Activation Tools

Name	Description	Further Material	Activation level
Red Hat Developer Deep Dives	Workshops for Kubernetes, Knative, Istio, Quarkus, Kafka, Tekton and OpenShift Operators	<a href="#">Overview</a>	Hands-On Engagement
Quarkus QIoT Hackathon for Partner	Hacking the EDGE. Please contact your partner account manager for information about the next edition.	<a href="#">Overview</a> <a href="#">Presentation</a>	Hands-On Engagement
Red Hat Developers Program	Sign up! It's free! It's awesome!	<a href="#">Public Website</a>	Awareness
Red Hat Developer Subscription for Teams	The Developer for Teams subscription will grow overtime to include many Red Hat products as the Red Hat Developer program expands.	<a href="#">Public website</a>	Awareness
The Containers & Cloud Native Roadshow modules	Hands-on workshops on migration toolkit, debugging, service mesh and middleware integration with OpenShift.	<a href="#">Migration</a> <a href="#">Debugging</a> <a href="#">Service Mesh</a> <a href="#">Advanced MW integration</a>	Hands-On Engagement



# Migration: EAP to JBoss with Toolkit

**MIGRATION TOOLKIT FOR APPLICATIONS**

**Dashboard** monolith

**Incidents by Category**

Category	Incidents	Total Story Points
mandatory	11	21
optional	28	0
potential	7	1
cloud-mandatory	0	0
cloud-optional	0	0
information	5	0

**Incidents by Category**

**Incidents and Story Points**

**Mandatory Incidents by Type**

Type	Incidents	Total Story Points
Info	0	0
Trivial	6	6
Complex	5	15
Redesign	0	0
Architectural	0	0
Unknown	0	0

**Mandatory Incidents by category**

**Mandatory Incidents and Story Points**



**Migration Toolkit  
for Applications**

**MIGRATION TOOLKIT FOR APPLICATIONS**

**Application List**

Name ▾ Filter by name... Matches all filters (AND) ▾ Name ▾ ↴ ↵

Runtime labels legend Supported Partially supported Unsuitable Neutral

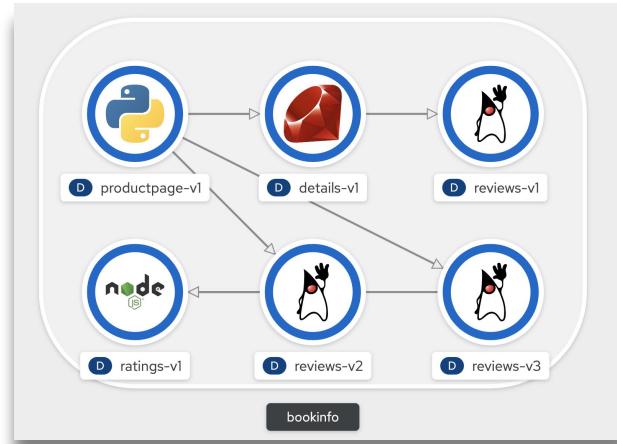
monolith JBoss EAP JWS

CDI Clustering Web Session Common Annotations JAX-RS JAXB JPA entities JSP Page JTA Java EE JSON-P Java Source Manifest Maven XML Message (MDB) Properties Stateful (SFSB)  
Stateless (SLSB) Web XML 3.0

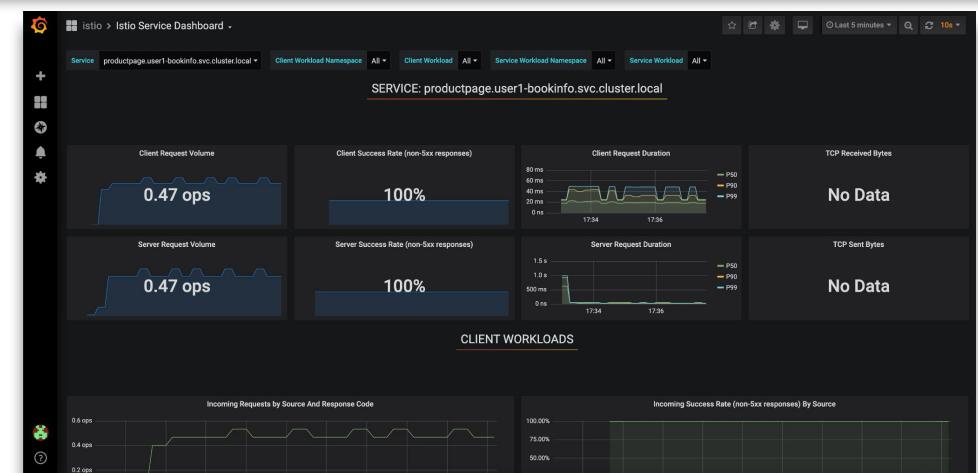
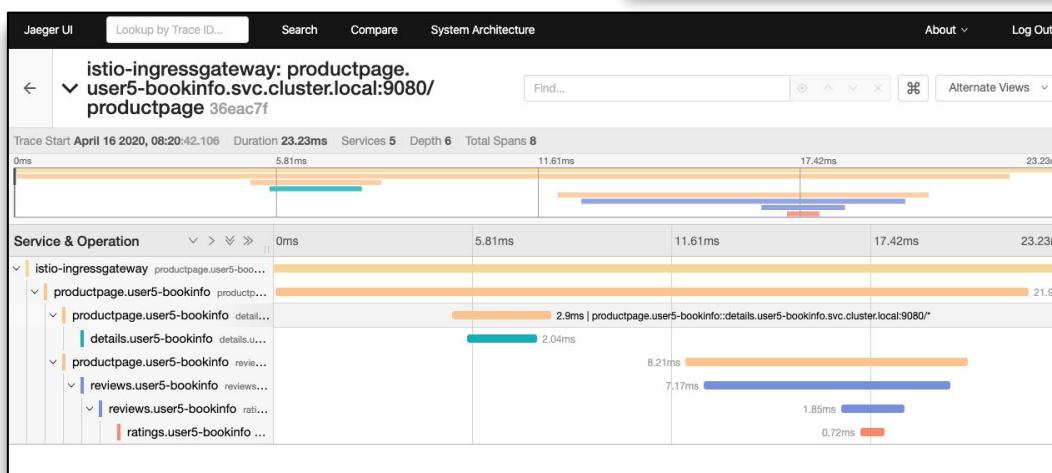
Number of incidents  
84 Migration Optional  
9 Information  
93 Total

0 story points

# Introduction to Service Mesh & BookInfo

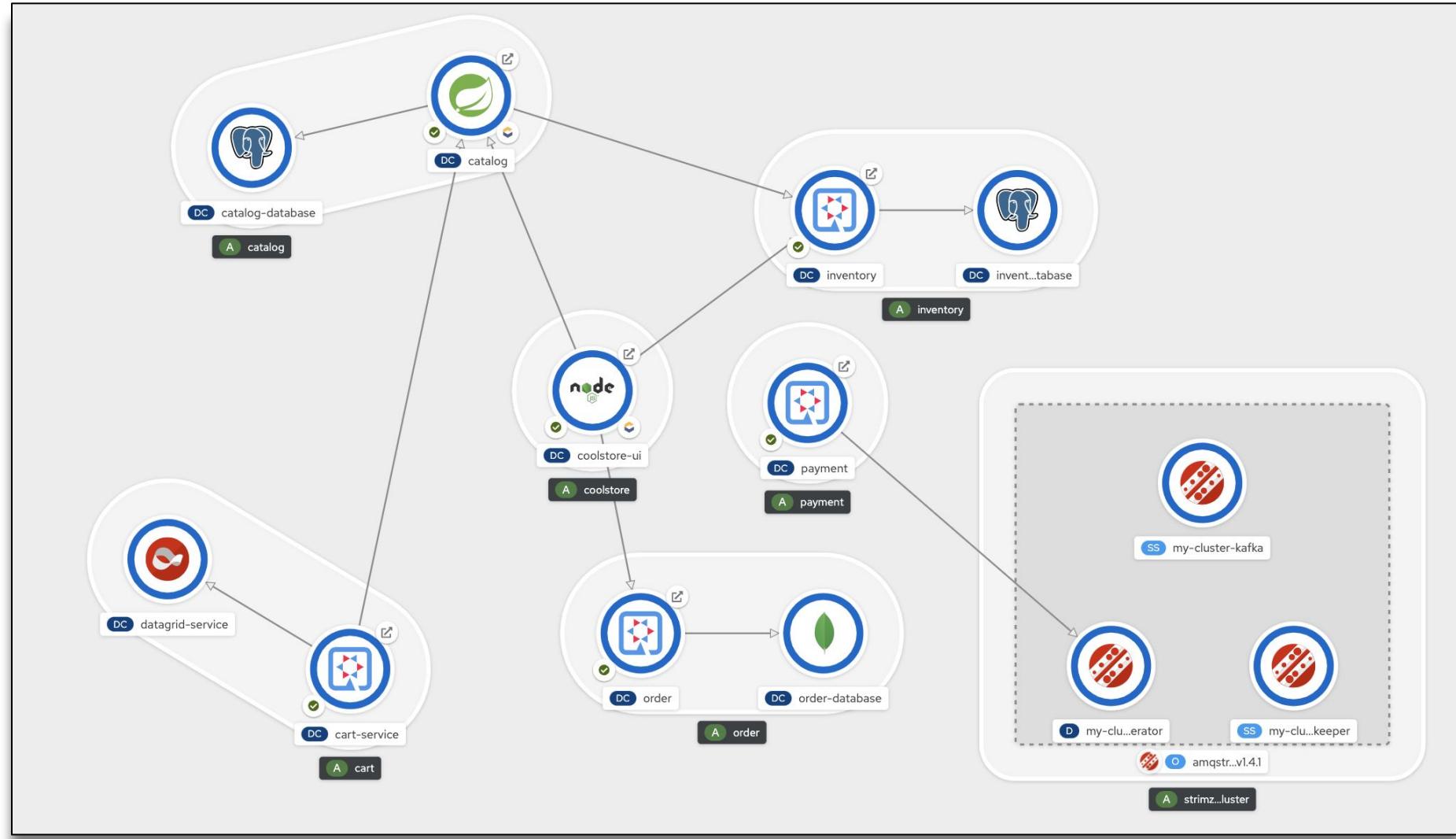


The Kiali dashboard provides a detailed view of the "productpage-v1" workload. The left sidebar includes "Overview", "Graph", "Applications", "Workloads" (selected), "Services", "Istio Config", and "Distributed Tracing". The main area shows "Workload Properties" with fields like Name (productpage-v1), Template Labels (app: productpage, version: v1), and Istio Sidecar Inject Annotation (true). The "Graph Overview" section displays a network graph with nodes like "istio-ingressgateway", "productpage", "productpage-v1", "details", "details-v1", "reviews", "reviews-v1", "reviews-v2", and "reviews-v3". The "Health Overview" section indicates an overall healthy status with 1/1 pod status and 0.00% traffic status.



# CoolStore with Kafka Based Payment Services

- Inventory
- Catalog
- Database
- Order
- Cart
- Web-ui
- Payment
- Orders



## Developer Activation Tools

Name	Description	Further Material	Activation level
Getting Started with OpenShift	Introductory experience with OpenShift available in a number of formats for developers. Exploring CLI and web console, deploying containers, adding RBAC, database and health	<a href="#">Homeroom</a> <a href="#">Workshop summary</a>	Hands-On engagement
Bobby Car Demo	Bobbycar is a Service based cloud-native application and demo, highlighting OpenShift and most of the RH Middleware portfolio in a business relevant IoT context.	<a href="#">Git Repository</a>	Hands-On Engagement
OpenShift Developer Distance Learning	Distance learning program for customers and partner developers with homework.	<a href="#">Public Website</a> <a href="#">Git Repository</a>	Hands-On Engagement
Red Hat Accelerators Program	The Red Hat Accelerators program is a global customer community of passionate Red Hat technology experts and enthusiasts who willingly share their knowledge, experience, and expertise with industry peers, their communities, and with Red Hat.	<a href="#">Customer Application Page</a>	Continued Interest
Open Innovation Labs Residency	A transformational format aimed at forming, enabling and accelerating product teams through a close collaboration with Red Hat's best architects & engineers. Virtual and face-to-face delivery	<a href="#">Public Website</a>	Apply Knowledge



# ParksMap application

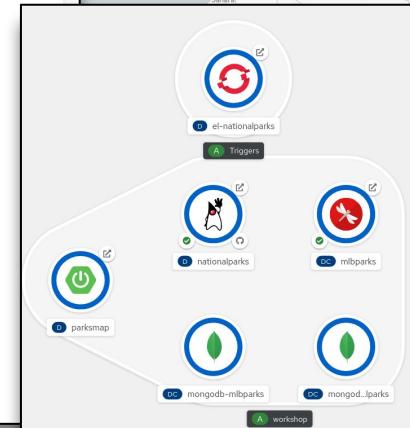
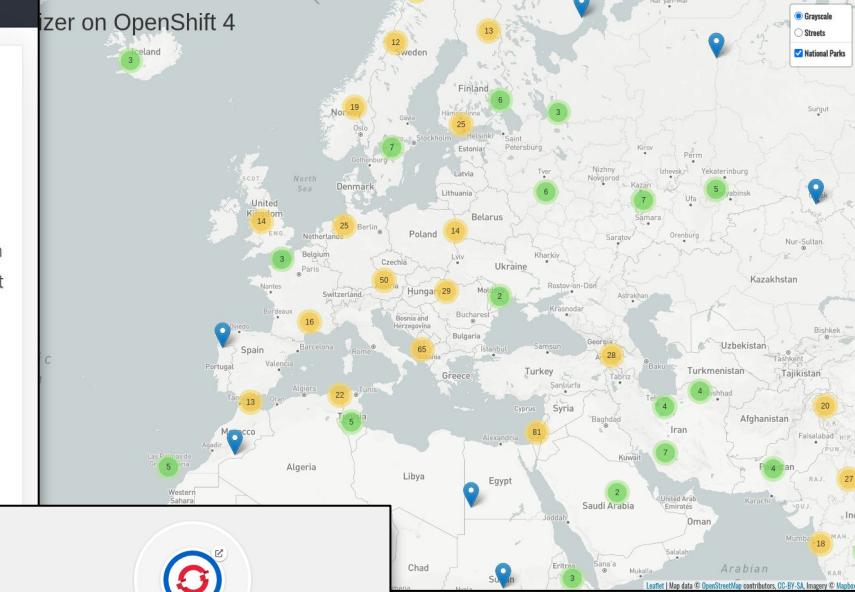
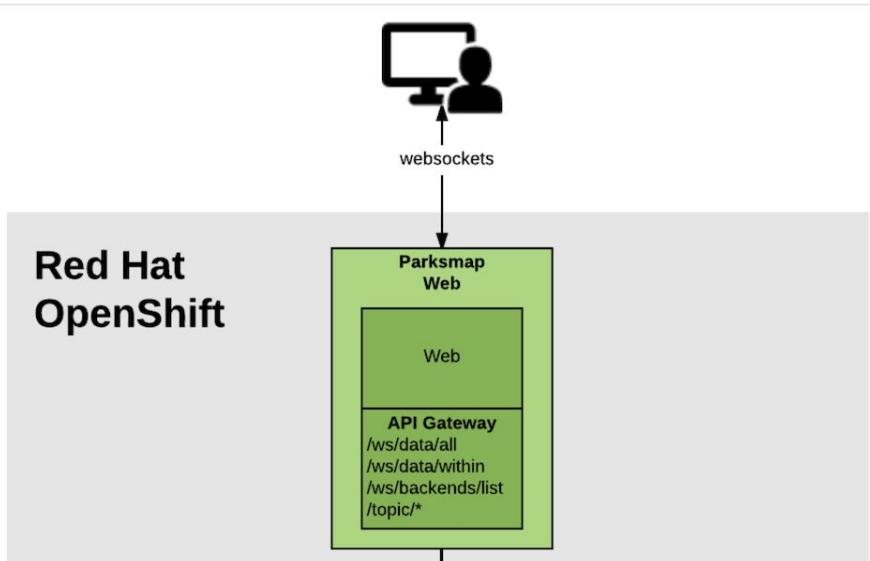
## Starter Labs (Java)

### WORKSHOP MODULES

- Workshop Summary
- Environment Overview
- Using Homeroom
- Architecture Overview of the ParksMap Application**
- Exploring the CLI and Web Console
- Deploying Your First Container Image
- Scaling and Self Healing
- Exposing Your Application to the Outside World
- Exploring OpenShift's Logging Capabilities
- Role-Based Access Control
- Remote Access to Your Application
- Deploying Java Code
- Adding a Database (MongoDB)
- Application Health
- Automate Build and Deployment with Pipelines
- Automation for Your Application on Code Changes
- Using Application Templates
- Binary Builds for Day to Day Development
- Further Resources
- Workshop Links

## Architecture Overview of the ParksMap Application

This lab introduces you to the architecture of the ParksMap application used throughout this workshop, to get a better understanding of the things you'll be doing from a developer perspective. ParksMap is a polyglot geo-spatial data visualization application built using the microservices architecture and is composed of a set of services which are developed using different programming languages and frameworks.



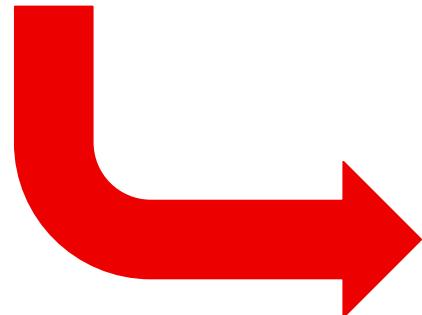
## Developer Activation Tools

Name	Description	Further Material	Activation level
Red Hat Sticker Market for Developers	Whenever you visit a user group and want them to have access to stickers. Hand out this link and they can order one package per person and three months.	<a href="#">Public Website</a>	Awareness
Application Development Demos and Workshops	Order and Deliver Demos & Workshop On-Demand in RHPDS (Red Hat Product and Demo System) or Git Repositories. Please contact <a href="mailto:markus@redhat.com">markus@redhat.com</a> in case you are looking for something specific.	<a href="#">Emergency Response Demo</a> <a href="#">Middleware Demos</a>	Hands-On Engagement
Ready to Accelerate	This assessment tool focuses on organizational maturity in environment, development, and operations. And it evaluates corporate resiliency and innovation in these key areas based on your organization's goals:	<a href="#">Public Website</a>	Apply Knowledge
OpenShift.tv	The experts in open source technology, off-script and on-air.	<a href="#">Public Website</a>	Awareness
Quarkus I, II and II	Basic to advanced Quarkus experience, culminating with conversion of PetStore app from Spring to Quarkus	<a href="#">Basic</a> <a href="#">Advanced</a> <a href="#">For Spring developers</a>	Hands-On engagement



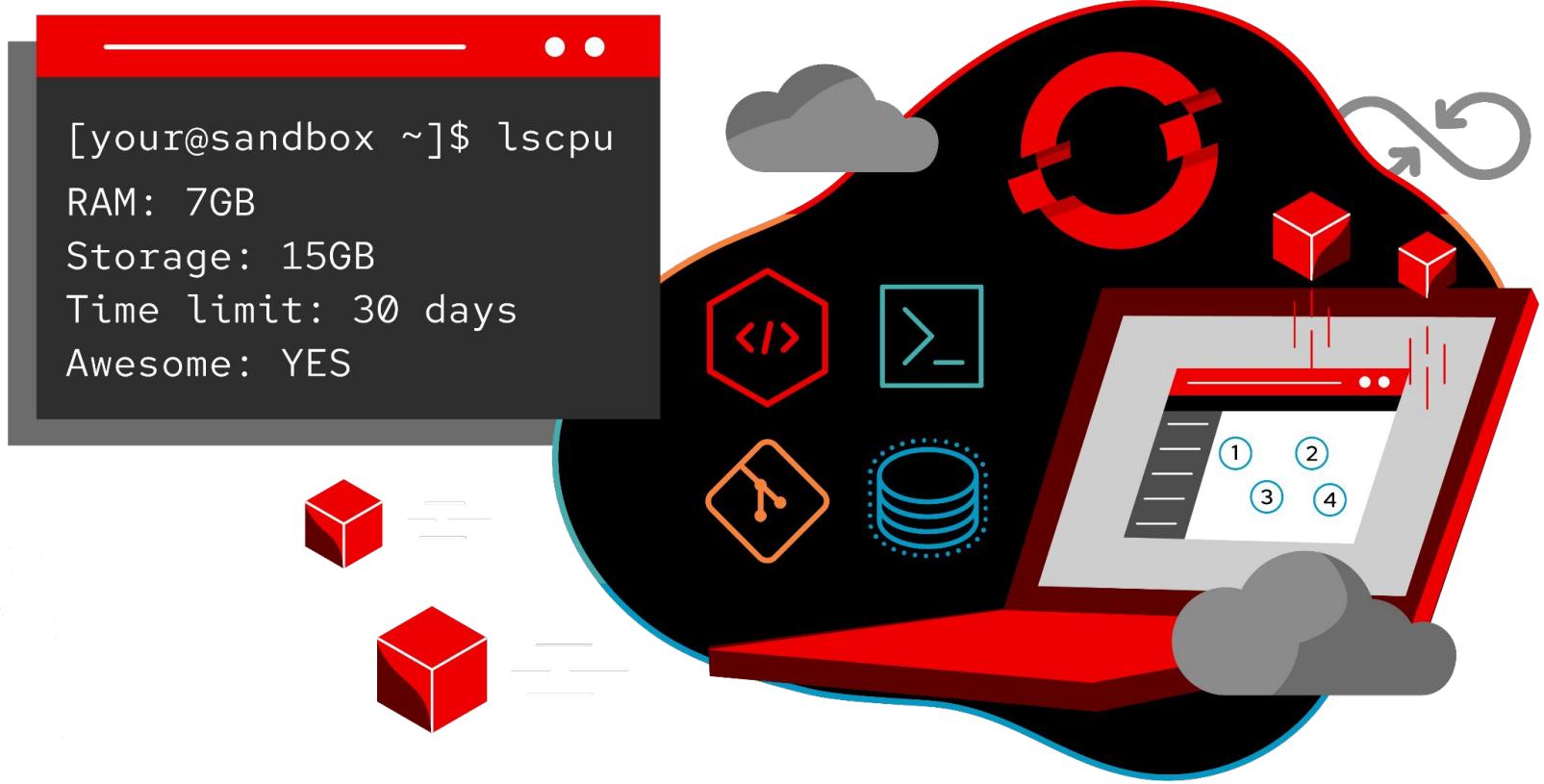
# Quarkus for Spring Developers

The screenshot shows a web application interface. At the top, there is a navigation bar with the Spring logo on the left and links for HOME, FIND OWNERS (which is highlighted in green), VETERINARIANS, and ERROR. Below the navigation bar, the page title is "Find Owners". There is a form with a label "Last name" and a text input field. Below the input field is a button labeled "Find Owner". To the left of the input field is a button labeled "Add Owner". At the bottom of the page, there is a "spring by Pivotal" footer.



The screenshot shows a web application interface. At the top, there is a navigation bar with the Quarkus logo on the left and links for HOME, FIND OWNERS, VETERINARIANS, and ERROR. Below the navigation bar, the page title is "Welcome". The main content area features a photograph of a brown puppy and a white kitten lying together. In the bottom right corner of the main content area, there is a Red Hat Runtimes logo, which includes a red fedora icon and the text "Red Hat Runtimes".

Now is  
the time  
to try  
something  
new.



[developers.redhat.com/developer-sandbox](https://developers.redhat.com/developer-sandbox)

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[Launch Red Hat OpenShift](#)   [How to access, download, and](#)   [How to create a PyTorch model](#)

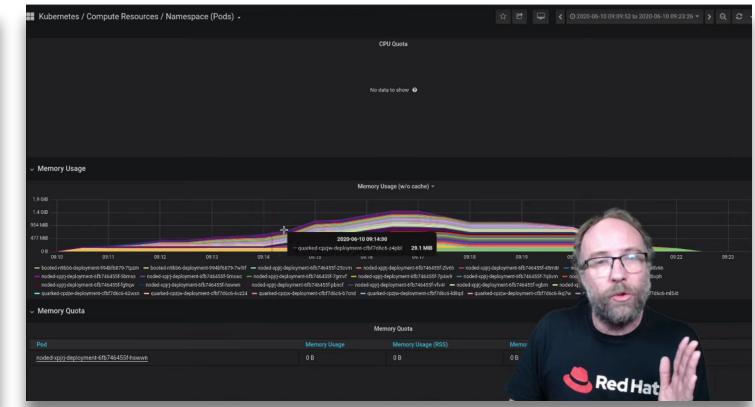
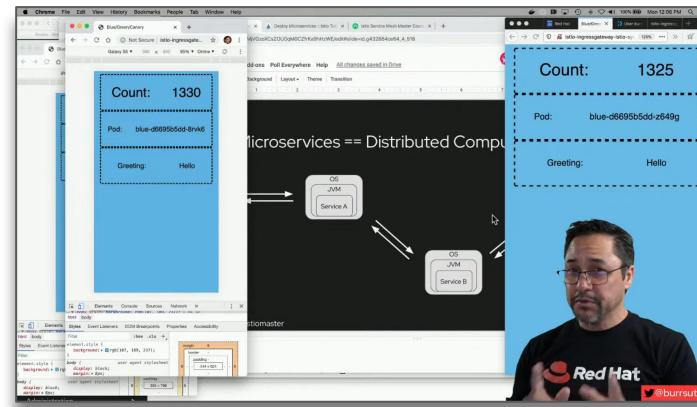
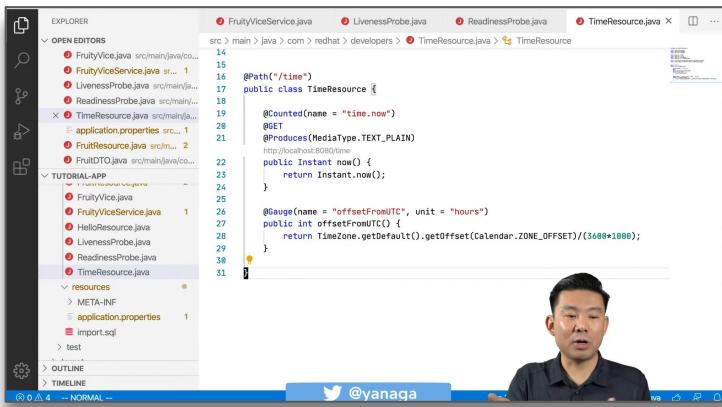


## Further Reading





Visit <https://dn.dev/upcoming> for the schedule of upcoming events





Get yours: <https://red.ht/emea-sticker-market>!

# Cloud Native Application Development Is about becoming **faster**





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