Red Hat
OpenShift
Commons

Enhancing Developer Productivity
for the New Normal

Introductions

Raffaele Spazzoli

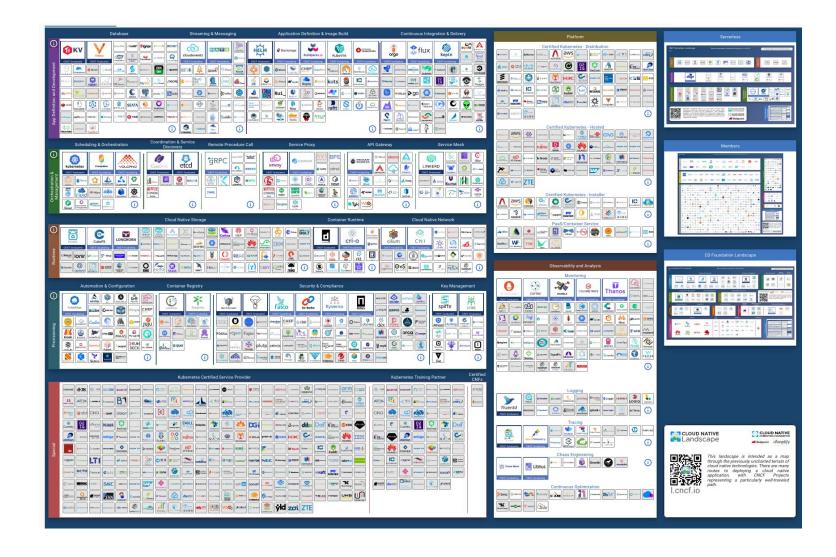Sr Principal Architect, Red Hat

Lead at CNCF TAG Storage

Serena Chechile Nichols

Product Manager, Developer Tooling

Distinguished Engineer, Red Hat

@serenamarie125

Red Hat

3

source: https://landscape.cncf.io

IdPs

An IDP consists of many different techs and tools, glued together in a way that lowers cognitive load on developers without abstracting away context and underlying technologies. Following best practices, platform teams treat their platform as a product and build it based on user research, maintain and continuously improve it. [1]

Simplify onboarding and the provisioning of application development environments

Customizable and repeatable Golden Path templates enabling consistent patterns for software delivery

A consistent mechanism for communicating system architecture and application tech documentation

[1] https://internaldeveloperplatform.org/what-is-an-internal-developer-platform/

Enter Backstage

- open-source framework for building developer portals

- donated to the Cloud Native Computing Foundation by Spotify

- vibrant ecosystem

- growing number of adopting companies

Demo time

Red Hat

Welcome to the community, Red Hat!

First steps

▸ Red Hat joins the Backstage.io community!

▸ Helm chart is now available which gets Backstage up and running on OpenShift or any k8s cluster

  https://github.com/redhat-developer/helm-backstage

▸ More to come!

👆check out the Helm Chart

Join us to shape the future of service delivery on OpenShift!

Red Hat

Components ▾

CREATE COMPONENT   ❓ SUPPORT

Type

| All | ▾ |

PERSONAL

| ⚙ Owned | 2 |
| ★ Starred | 0 |

MY DEMO COMPANY

| All | 4 |

OWNER

| | ▾ |

LIFECYCLE

| | ▾ |

TAGS

| | ▾ |

Owned (2)
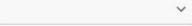
≡ Filter   ✕

NAME	SYSTEM	OWNER	TYPE	LIFECYCLE	DESCRIPTION	TAGS	ACTIONS
myquarkus	myapp	demo-team-a	service	experimental	myquarkus	java quarkus	⬈ ✎ ★
raffa-qrs2	myapp	demo-team-a	service	experimental	raffa-qrs2	java quarkus	⬈ ✎ ★

Red Hat

About

VIEW SOURCE   **VIEW TECHDOCS**

DESCRIPTION

myquarkus

OWNER	SYSTEM	TYPE
demo-team-a	myapp	service

LIFECYCLE	TAGS
experimental	java quarkus

Relations

group:demo-team-a

ownerOf / ownedBy

component:myqu...

system:myapp

hasPart / partOf

View graph →

Code Quality

Gate failed

0 A   Bugs

0 A   Vulnerabilities

3 A   Code Smells

— A   Hotspots Reviewed

0.0%   Coverage

0.0%   Duplications

Last analyzed on Oct 24, 2022, 14:53

Links

CodeReady Workspaces (Eclipse Theia)

CodeReady Workspaces (VS Code)

CodeReady Workspaces (JetBrains IntelliJ)

SRE Metrics (production)

Workflow runs / *Workflow run details*

Branch	master
Message	initial commit
Commit ID	d9d387718a7d419d95f33ed9a3dda63a39ab1c5c
Workflow	push
Status	● Error
Author	Scaffolder (scaffolder@backstage.io)
Links	Workflow runs on GitHub 🗗

Jobs

Re-run triggered yesterday
👤 raffaelespazzoli ⟲ d9d3877 `master`

Status
Failure

Total duration
4m 1s

Artifacts
–

---

push.yaml
on: push

✅ call-workflow / java-build 37s ── ✅ call-workflow / image-build 2m 49s ── ❌ call-workflow / deploy-dev 12s ── ⊘ call-workflow / deploy-qa 0s ── ⊘ call-workflow / deploy-prod 0s

myapp-root-application ★

Project:	default
Labels:	app.kubernetes.io/instance=approved-na...
Status:	♥ Healthy ✓ Synced
Reposito...	https://github.com/raf-backstage-demo/...
Target R...	
Path:	components
Destinati...	in-cluster
Namesp...	myapp-build

⟳ SYNC   ↻ REFRESH   ⊗ DELETE

myquarkus-dev ★

Project:	default
Labels:	app.kubernetes.io/instance=myapp-root-...
Status:	♥ Healthy ✓ Synced
Reposito...	https://github.com/raf-backstage-demo/...
Target R...	HEAD
Path:	.helm/chart
Destinati...	in-cluster
Namesp...	myapp-dev

⟳ SYNC   ↻ REFRESH   ⊗ DELETE

myquarkus-prod ★

Project:	default
Labels:	app.kubernetes.io/instance=myapp-root-...
Status:	♥ Healthy ✓ Synced
Reposito...	https://github.com/raf-backstage-demo/...
Target R...	HEAD
Path:	.helm/chart
Destinati...	in-cluster
Namesp...	myapp-prod

⟳ SYNC   ↻ REFRESH   ⊗ DELETE

myquarkus-qa ★

Project:	default
Labels:	app.kubernetes.io/instance=myapp-root-...
Status:	♥ Healthy ✓ Synced
Reposito...	https://github.com/raf-backstage-demo/...
Target R...	HEAD
Path:	.helm/chart
Destinati...	in-cluster
Namesp...	myapp-qa

⟳ SYNC   ↻ REFRESH   ⊗ DELETE

raffa-qrs2-dev ★

Project:	default
Labels:	app.kubernetes.io/instance=myapp-root-...
Status:	♥ Healthy ✓ Synced
Reposito...	https://github.com/raf-backstage-demo/...
Target R...	HEAD
Path:	.helm/chart
Destinati...	in-cluster
Namesp...	myapp-dev

⟳ SYNC   ↻ REFRESH   ⊗ DELETE

raffa-qrs2-prod ★

Project:	default
Labels:	app.kubernetes.io/instance=myapp-root-...
Status:	♥ Healthy ✓ Synced
Reposito...	https://github.com/raf-backstage-demo/...
Target R...	HEAD
Path:	.helm/chart
Destinati...	in-cluster
Namesp...	myapp-prod

⟳ SYNC   ↻ REFRESH   ⊗ DELETE

raffa-qrs2-qa ★

Project:	default
Labels:	app.kubernetes.io/instance=myapp-root-...
Status:	♥ Healthy ✓ Synced
Reposito...	https://github.com/raf-backstage-demo/...
Target R...	HEAD
Path:	.helm/chart
Destinati...	in-cluster
Namesp...	myapp-qa

⟳ SYNC   ↻ REFRESH   ⊗ DELETE

Red Hat

Maturity Model

Golden Path as Product

Clone and Forget Golden Path

Platform with No Golden Path

Building Capabilities

v1.0

v1.1

v1.2

v42.0

???

Red Hat