

The OpenShift Developer Experience



# The OpenShift Developer Experience (DevEx)

Immerse yourself in the OpenShift experience

Start your OpenShift adventure

Experiment with Red Hat innovation on OpenShift

Get answers to your questions on containerisation

Understand what OpenShift can do for you and your teams

**DevEx**: by developers for developers



# What's important to you?

As a developer I don't want to ...

... wait for infrastructure

... install tools

... resolve integration issues

... write complex build processes

... configure stuff

As a developer I want to ...

... write application code

... test applications immediately

... use innovative services and technology

... have access to environments when I need them

... get stuff done



# **Developer scenarios - Without OpenShift**

1.	Install compiler and other tools locally		2 hours		
2.	Patch tools and confirm all at right release		30 minutes		
3.	Request server virtual machines for testing		30 minutes		
4.	Wait for virtual machines - days, weeks		1 week elapsed tin	ne	
5.	Configure middleware		2 hours		
6.	Integration of middleware		1 hour		
7.	Test connectivity and resolve any issues		2 hours		
8.	Download all software dependencies		1 hour		
9.	Create build process		1 hour		
10.	Build application		A few minutes		
11.	Deploy to middleware		1 hour	Total (active work)	1/1 hours
12.	Test integrations and resolve any issues	2 hou	rs	Total elapsed time	
13.	Test application software		1 hour	Total <i>valuable</i> work	~ 1 hour



# **OpenShift -** Does the things you don't want to

1. 2.	Install compiler Patch tools	OpenShift builder image			
3. 4.	Request server virtual machines  Wait for virtual machines	OpenShift container runtime environment			
5.	Configure middleware				
6.	Integration of middleware	Pre-integrated middleware from operators			
7.	Test connectivity				
8.	Download dependencies				
9.	Create build process	Included within the course 2 image build n	raaaa		
10.	Build application	Included within the source-2-image build p	ocess		
11.	Deploy to middleware		Total (active work) ~ 1 hour		
12.	Test integrations	- Not necessary	Total elapsed time ~ 1 hour		
13.	Test application software	- Real (valuable) work to validate your code	Total <i>valuable</i> work ~ 1 hour		



## OpenShift Developer Experience: Modular Workshop

#### **OpenShift Essential**

An introduction to containerised development with OpenShift

Using OpenShift - command line and graphical interfaces

Deployment configurations and strategies - configuration maps, volumes, blue / green deployments

Software defined networks & role based access control

Health probes

#### **OpenShift Innovation**

OpenShift Pipelines - Tekton

OpenShift DO - Developer command line interface

Red Hat Quay image repository for OpenShift image management across clusters

OpenShift Service Mesh for managed traffic routing within applications

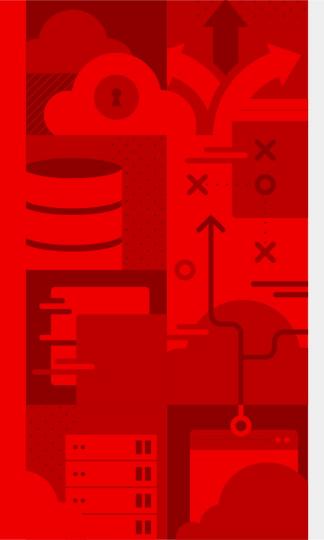
Developing and Deploying integrations with the lightweight integration platform Camel K

Camel K with OpenShift serverless for scaling to zero for eventing and serving applications. Eventing integration with AMQ Streams (Kafka)



### **OpenShift Developer Experience**

- Choose your content Select the sections most appropriate for your needs
- Interact with workshop facilitators remote or face to face (when possible)
  - During the workshop and afterwards
- Continue after the workshop if appropriate
  - Environment is available for a few days after the workshop event
  - Full workshop takes around 10 hours to complete take your time and complete it over a few days
- Ask your questions
  - o Digress into areas that matter to you
  - o Bring your application environment related questions
- Focused content pick and choose for you
  - Get what you need from the workshop
  - o Get what you need from Red Hat OpenShift



# Thank you

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