



Red Hat
OpenShift

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 time	
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	
12.	Test integrations and resolve any issues	2 hours	Total (active work) 14 hours
13.	Test application software	1 hour	Total elapsed time ~ 7 working days
			Total valuable work ~ 1 hour

OpenShift - Does the things you don't want to

- | | | |
|--|---|---|
| 1. Install compiler | } | <i>OpenShift builder image</i> |
| 2. Patch tools | | |
| 3. Request server virtual machines | } | <i>OpenShift container runtime environment</i> |
| 4. Wait for virtual machines | | |
| 5. Configure middleware | } | <i>Pre-integrated middleware from operators</i> |
| 6. Integration of middleware | | |
| 7. Test connectivity | | |
| 8. Download dependencies | } | <i>Included within the source-2-image build process</i> |
| 9. Create build process | | |
| 10. Build application | | |
| 11. Deploy to middleware | | |
| 12. Test integrations ----- | <i>Not necessary</i> | Total (active work) ~ 1 hour |
| 13. Test application software ----- | <i>Real (valuable) work to validate your code</i> | Total elapsed time ~ 1 hour |
| | | Total valuable 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 -
 - Digress into areas that matter to you
 - Bring your application environment related questions
- Focused content - pick and choose for you
 - Get what you need from the workshop
 - Get what you need from Red Hat OpenShift

A vertical decorative graphic on the left side of the slide, rendered in various shades of red. It features a collage of icons: a cloud with a keyhole, a database cylinder, server racks, a computer monitor, and several arrows pointing in different directions, some with 'X' marks.

Thank you

Ian Lawson - ilawson@redhat.com

Phil Prosser - pprosser@redhat.com

Mark Roberts - mroberts@redhat.com



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