OpenShift v3 Creation Workflows
Interaction Design

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About this document

This document contains ideas for the Creation Workflows in the OpenShift v3 Console.

These exploratory wireframes are intended only to support the conversation about user stories agreed upon by Eng and PM. These wireframes do not indicate any speciflc implementation intent.

Project vision [DRAFT]

What are we trying to accomplish?
- Make component and app creation quick and intuitive

Where can I find additional information and user stories?
https://docs.google.com/a/redhat.com/document/d/10_qeEW-lPPIdunUGjVgyCsyMiCpJdOJj0DefsGw2ySE/edit?usp=sharing
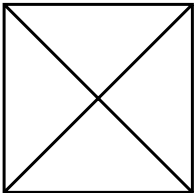
Document Change History

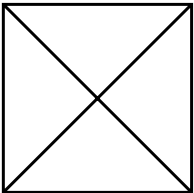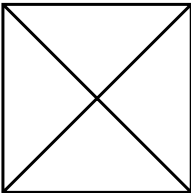| Date	Version Number	Author	Change Notes	Document Status
09 Feb 2015	0.1	Emily Dirsh	Initial wireframes	Draft

COMPONENTS

Search 🔍
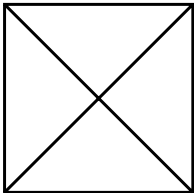
POPULAR

TITLE OF IMAGE

TITLE OF IMAGE

TITLE OF TEMPLATE

TITLE OF TEMPLATE

APPS

APP

TITLE OF TEMPLATE
BRIEF DESCRIPTION OF THE TEMPLATE

APP

TITLE OF TEMPLATE
BRIEF DESCRIPTION OF THE TEMPLATE

APP

TITLE OF TEMPLATE
BRIEF DESCRIPTION OF THE TEMPLATE

APP

TITLE OF TEMPLATE
BRIEF DESCRIPTION OF THE TEMPLATE

RUNTIMES

BUILDER

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

BUILDER

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

BUILDER

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

BUILDER

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

DATABASES

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

OPENSHIFT V3 CREATION WORKFLOWS

Template and image catalog

A user may come to this screen as part of (or immediately after) Project creation, or through an "Add component" link in an existing project.

Both templates and images are shown together in this interface.

Search is the primary way of finding a template or image.

To support browse/demo use cases, a selection of templates and images are shown, grouped into a few categories.

Selecting a template or image will bring up a dialogue with more information.

COMPONENTS

POPUL...
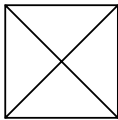
TIT...

APPS

APP

APP

BRIEF DESCRIPTION OF THE
TEMPLATE

TITLE OF TEMPLATE
BRIEF DESCRIPTION OF THE
TEMPLATE
APP

TITLE OF TEMPLATE
BRIEF DESCRIPTION OF THE
TEMPLATE
APP

BRIEF DESCRIPTION OF THE IMAGE
BUILDER

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE
BUILDER

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE
BUILDER

...MPLATE

...THE IMAGE

BRIEF DESCRIPTION OF THE IMAGE

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

TITLE OF IMAGE
BRIEF DESCRIPTION OF THE IMAGE

Dialogue

TITLE OF IMAGE

SLIGHTLY LONGER DESCRIPTION OF THE IMAGE,
MAYBE WITH SOME ADJECTIVES, SOME
PUNCTUATION, AND MAYBE ELLIPSES...

BUILDER

VERSION: 123.45   PROVIDED BY: OpenShift

ADD TO PROJECT

Template or image details

Selecting a template or image from the main page brings up a dialogue with details about the image or template.

From the dialogue, the user can choose to add the image or template to their project.

ADD A COMPONENT

Foo 🔍

SEARCH RESULTS FOR "FOO"   SORT BY: | RELEVANCE ▼ | **1**
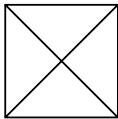
200 RESULTS

TITLE OF IMAGE

BRIEF DESCRIPTION OF THE IMAGE. THIS COULD BE A SLIGHTLY LONGER DESCRIPTION — MAYBE A COUPLE SENTENCES.
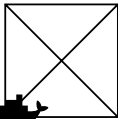
BUILDER   VERSION 1.23   PROVIDED BY: OPENSHIFT

TITLE OF IMAGE

BRIEF DESCRIPTION OF THE IMAGE. THIS COULD BE A SLIGHTLY LONGER DESCRIPTION — MAYBE A COUPLE SENTENCES.

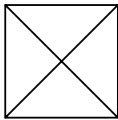VERSION 1.23   PROVIDED BY: OPENSHIFT

TITLE OF IMAGE HOSTED ON DOCKER HUB **2**

BRIEF DESCRIPTION OF THE IMAGE. THIS COULD BE A SLIGHTLY LONGER DESCRIPTION — MAYBE A COUPLE SENTENCES.

3 BUILDER   VERSION 1.23   PROVIDED BY: OPENSHIFT

TITLE OF IMAGE

BRIEF DESCRIPTION OF THE IMAGE. THIS COULD BE A SLIGHTLY LONGER DESCRIPTION — MAYBE A COUPLE SENTENCES.

BUILDER   VERSION 1.23   PROVIDED BY: OPENSHIFT

TITLE OF TEMPLATE HOSTED ON SOME3RDPARTY

BRIEF DESCRIPTION OF THE IMAGE. THIS COULD BE A SLIGHTLY LONGER DESCRIPTION — MAYBE A COUPLE SENTENCES.

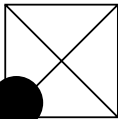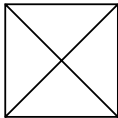APP   VERSION 1.23   PROVIDED BY: OPENSHIFT

TITLE OF IMAGE

BRIEF DESCRIPTION OF THE IMAGE. THIS COULD BE A SLIGHTLY LONGER DESCRIPTION — MAYBE A COUPLE SENTENCES.

BUILDER   VERSION 1.23   PROVIDED BY: OPENSHIFT

Search results

Search is likely to be the primary way users interact with the catalog. They should be able to search on name, category, author, etc.

Search results are shown in a list, and have a bit more information than the "browsable" listings on the main page.

1 Search results can be sorted based on relevancy, date, and popularity.

Selecting a search result will skip the dialogue and go directly to the configuration page.

2 Some search results may come from third parties,
3 such as the Docker registry. Those results are clearly marked using both an emblem over the logo/ thumbnail and a small indicator next to the title.

Wordpress

Version 1.23   Provided by: OpenShift

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam non magna accumsan, hendrerit lectus quis, lacinia ex. Proin aliquet neque a purus fermentum, ut tempus enim iaculis. Vivamus elementum et nisi mattis rutrum. Maecenas placerat massa vel ultrices lacinia. Fusce vel pulvinar odio, eget aliquam turpis. Maecenas quis rutrum lectus. Morbi eu consectetur diam. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Praesent cursus quam at nibh ornare, non semper leo fringilla.

Images

☒ PHP-5.4   version 123.45   provided by OpenShift

☒ MySQL-5.5   version 123.45   provided by OpenShift

Name

1 | Wordpress |

Name is used as a prefix for the components that make up the app and will automatically be added as a label

Labels   **2** ? ABOUT LABELS

3 | Label | : | Value | ADD LABEL

Label : Value

Label : AnotherValue

4

AnotherLabel : Value ⊗

YALabel : YAValue ⊗

ADD WORDPRESS TO MYPROJECT   CANCEL

Template configuration

If a user chooses a template, they should only have to provide a minimum amount of configuration.

Whenever possible, the configuration options are prefilled with good defaults. The user should be able to leave all configuration options unaltered and still get a working app or component.

1 Name is prefilled with the app name. In the case of a template with multiple images, the name is used as a prefix for the images. The name is also added as a label for the components of the app.

2 The label addition widget will be the first exposure a new user will have to labels, so including good documentation is important.

3 The label widget inputs are formatted in the same way as the completed label.

4 The user can remove a label using the corresponding delete icon.We may want to disallow the removal of system-created labels, in which case, those labels don't have a delete icon.

PHP—5.4

BUILDER   VERSION 5.4.1234   PROVIDED BY: OPENSHIFT

LOREM IPSUM DOLOR SIT AMET, CONSECTETUR ADIPISCING ELIT. ALIQUAM NON MAGNA ACCUMSAN, HENDRERIT LECTUS QUIS, LACINIA EX. PROIN ALIQUET NEQUE A PURUS FERMENTUM, UT TEMPUS ENIM IACULIS. VIVAMUS ELEMENTUM ET NISI MATTIS RUTRUM. MAECENAS PLACERAT MASSA VEL ULTRICES LACINIA. FUSCE VEL PULVINAR ODIO, EGET ALIQUAM TURPIS. MAECENAS QUIS RUTRUM LECTUS. MORBI EU CONSECTETUR DIAM. VESTIBULUM ANTE IPSUM PRIMIS IN FAUCIBUS ORCI LUCTUS ET ULTRICES POSUERE CUBILIA CURAE; PRAESENT CURSUS QUAM AT NIBH ORNARE, NON SEMPER LEO FRINGILLA.

NAME

PHP

PICK A MEANINGFUL NAME FOR THIS COMPONENT. NAME WILL AUTOMATICALLY BE ADDED AS A LABEL.

CUSTOM DOMAIN (OPTIONAL)

WWW.EXAMPLE.COM

IF YOU DON'T PROVIDE A CUSTOM DOMAIN, YOU WILL STILL BE ABLE TO CONNECT TO THE COMPONENT WITH AN IP ADDESS AND PORT.

(1) DEPLOYMENT CONFIGURATION ▼   ? ABOUT DEPLOYMENTS

AUTODEPLOY

☐ AUTODEPLOY WHEN A NEW IMAGE IS AVAILABLE

☐ AUTODEPLOY WHEN DEPLOYMENT CONFIGURATION CHANGES

(2) ENVIRONMENT VARIABLES

HELP TEXT ABOUT ENVIRONMENT VARIABLES — WHAT'S THE DIFFERENCE B/T THESE AND LABELS?

NAME   =   VALUE   ADD

VAR ⇒ VALUE

VAR2 ⇒ ANOTHERVALUE

ANOTHER_VAR ⇒ VALUE

(3) BUILD CONFIGURATION ▼   ? ABOUT BUILDS

SOURCE CODE (OPTIONAL)

REPOSITORY URL

SUPPORTED REPOSITORY TYPES INCLUDE GIT, MERCURIAL, SVN, AND CVS

☐ AUTOMATICALLY BUILD NEW IMAGE WHEN CODE CHANGES

(4) SCALING ▼   ? ABOUT SCALING

☐ AUTOMATICALLY SCALE BASED ON TRAFFIC

SCALING LIMITS

MIN   MAX

2   ●━━━━━━━●━━━━━━━   5

(5) LABELS ▼   ? ABOUT LABELS

LABEL   :   VALUE   ADD

LABEL : VALUE

LABEL : ANOTHERVALUE

ANOTHERLABEL : VALUE   ⊗

YALABEL : YAVALUE   ⊗

ADD PHP TO MYPROJECT   CANCEL

Image configuration

When a user chooses an image to add to their project, they get a few more options, but it's still a guided process.

Wherever possible, configuration options should be prefilled with good defaults.

Configuration options are grouped into expandable sections.

(1) Deployment configuration options include autodeploy choices and environment variables.

(2) The environment variables section is similar in layout and functionality to the labels section, but should have some clarifying text to ensure that the user can understand the difference.

(3) The build configuration section allows users to specify a repository url and choose to automatically build
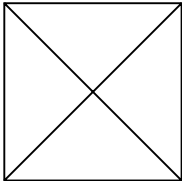
(4) The scaling section has a slider to allow the user to set scaling limits - the slider is inactive unless the user selects the autoscaling option.

(5) The label widget should also list any system-added labels, but those should be visually distinguished from the user-added labels. We may want to disallow the removal of system-created labels, in which case, they won't have a delete icon.

PHP-5.4

OPENSHIFT V3 CREATION WORKFLOWS

BUILDER   Version 5.4.1234   Provided by: OpenShift

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam non magna accumsan, hendrerit lectus quis, lacinia ex. Proin aliquet neque a purus fermentum, ut tempus enim iaculis. Vivamus elementum et nisi mattis rutrum. Maecenas placerat massa vel ultrices lacinia. Fusce vel pulvinar odio, eget aliquam turpis. Maecenas quis rutrum lectus. Morbi eu consectetur diam. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Praesent cursus quam at nibh ornare, non semper leo fringilla.

Name

```
PHP
```

Pick a meaningful name for this component. Name will automatically be added as a label.

Custom domain (optional)

```
WWW.EXAMPLE.COM
```

If you don't provide a custom domain, you will still be able to connect to the component with an IP address and port.

Deployment Configuration ▼   ❓ ABOUT DEPLOYMENTS

Autodeploy

☐ Autodeploy when a new image is available

☐ Autodeploy when deployment configuration changes

Environment Variables

Help text about environment variables — what's the difference b/t these and labels?

```
NAME            =    VALUE            ADD
```

VAR = Value

VAR2 = AnotherValue

ANOTHER_VAR = Value

VAR = Value

VAR2 = AnotherValue

ANOTHER_VAR = Value

BUILD CONFIGURATION ▼   ❓ ABOUT BUILDS

SOURCE CODE (OPTIONAL)

[Repository URL]

Supported repository types include Git, Mercurial, SVN, and CVS

☐ Automatically build new image when code changes

SCALING ▼   ❓ ABOUT SCALING

☐ Automatically scale based on traffic

SCALING LIMITS

MIN   MAX
[2] ●━━━━━━━●━━━━━━━━━━━━━━━   [5]

LABELS ▼   ❓ ABOUT LABELS

[Label] : [Value]   [ADD]

Label : Value

Label : AnotherValue

AnotherLabel : Value ⊗

YALabel : YAValue ⊗

[ADD PHP TO MYPROJECT]   CANCEL

PHP-5.4

BUILDER   VERSION 5.4.1234   PROVIDED BY: OPENSHIFT

LOREM IPSUM DOLOR SIT AMET, CONSECTETUR ADIPISCING ELIT. ALIQUAM NON MAGNA ACCUMSAN, HENDRERIT LECTUS QUIS, LACINIA EX. PROIN ALIQUET NEQUE A PURUS FERMENTUM, UT TEMPUS ENIM IACULIS. VIVAMUS ELEMENTUM ET NISI MATTIS RUTRUM. MAECENAS PLACERAT MASSA VEL ULTRICES LACINIA. FUSCE VEL PULVINAR ODIO, EGET ALIQUAM TURPIS. MAECENAS QUIS RUTRUM LECTUS. MORBI EU CONSECTETUR DIAM. VESTIBULUM ANTE IPSUM PRIMIS IN FAUCIBUS ORCI LUCTUS ET ULTRICES POSUERE CUBILIA CURAE; PRAESENT CURSUS QUAM AT NIBH ORNARE, NON SEMPER LEO FRINGILLA.

NAME

```
PHP
```

PICK A MEANINGFUL NAME FOR THIS COMPONENT. NAME WILL AUTOMATICALLY BE ADDED AS A LABEL.

CUSTOM DOMAIN (OPTIONAL)

```
WWW.EXAMPLE.COM
```

IF YOU DON'T PROVIDE A CUSTOM DOMAIN, YOU WILL STILL BE ABLE TO CONNECT TO THE COMPONENT WITH AN IP ADDESS AND PORT.

DEPLOYMENT CONFIGURATION ▶   ❓ ABOUT DEPLOYMENTS

AUTODEPLOY WHEN A NEW IMAGE IS AVAILABLE: NO
AUTODEPLOY WHEN DEPLOYMENT CONFIGURATION CHANGES: NO
ENVIRONMENT VARIABLES: VAR = VALUE; VAR2 = ANOTHERVALUE; ANOTHER_VAR = VALUE;

BUILD CONFIGURATION ▶   ❓ ABOUT BUILDS

SOURCE CODE: NOT SPECIFIED
AUTOMATICALLY BUILD NEW IMAGE WHEN CODE CHANGES: NO

SCALING ▶   ❓ ABOUT SCALING

AUTOMATICALLY SCALE BASED ON TRAFFIC: NO

LABELS ▶   ❓ ABOUT LABELS

LABEL: VALUE   ANOTHERLABEL: VALUE
LABEL: ANOTHERVALUE   YALABEL: YAVALUE

ADD PHP TO MYPROJECT   CANCEL

Image configuration - collapsed

When the various configuration sections are collapsed, they present small summaries of the selected options in each section.

This allows us to potentially have certain sections collapsed by default - making the page a bit shorter and easier to digest - without completely hiding the available options.

ADDING WORDPRESS TO YOUR PROJECT...

CONTINUE IN BACKGROUND

DEPLOYING WORDPRESS-PHP POD...

FETCHING WORDPRESS-PHP IMAGE ... ✔

HELPFUL LINKS

GETTING STARTED WITH WORDPRESS

OFFICIAL WP DOCUMENTATION

Template progress screen

Once the user has finished configuring the template, they're presented with a screen that allows them to track the progress of the creation and deployment.

Individual steps are logged as they occur, and marked as completed when complete.

Contextual help is available in a small sidebar next to the steps.

The user can choose to background the process. If they do so, they should get an alert when it's completed.

* TBD *************
Where does the user get redirected after this screen? Project overview; label filtered overview; previous screen; etc
****

ADDING PHP-5.4 TO YOUR PROJECT...

CONTINUE IN BACKGROUND

BUILDING IMAGE FROM SOURCE ...

FETCHING SOURCE CODE FROM HTTP://GITHUB.COM/GIT/FOO/BAR.GIT ✔

FETCHING OPENSHIFT-PHP-5.4-BUILDER IMAGE ✔

HELPFUL LINKS

GETTING STARTED WITH PHP-5.4

OFFICIAL PHP DOCUMENTATION

CONNECTING TO A DATABASE

Image progress screen

Once the user has finished configuring the image, they're presented with a screen that allows them to track the progress of the creation and deployment.

Individual steps are logged as they occur, and marked as completed when complete.

Contextual help is available in a small sidebar next to the steps.

The user can choose to background the process. If they do so, they should get an alert when it's completed.

* TBD *************
Where does the user get redirected after this screen? Project overview; label filtered overview; previous screen; etc
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