

# FRIT WebSphere Cartridge User Guide

# A. Synopsis

The purpose of this document is to present how OpenShift 2 users can interact with the WebSphere 8.5.5.1 OpenShift Enterprise V2.2 cartridge. By the end of this document users that have the WebSphere cartridge enabled for them will be able to provision WebSphere servers in a matter of minutes.

The end result of their OpenShift 2 WebSphere gear provisioning would be a WebSphere console that gives them full administrative rights over their WebSphere servers.

Each WebSphere server is contained in an OpenShift gear which means that collocated WebSphere users are segregated from one another. The figure below shows the WebSphere administrative console that every users will obtain.

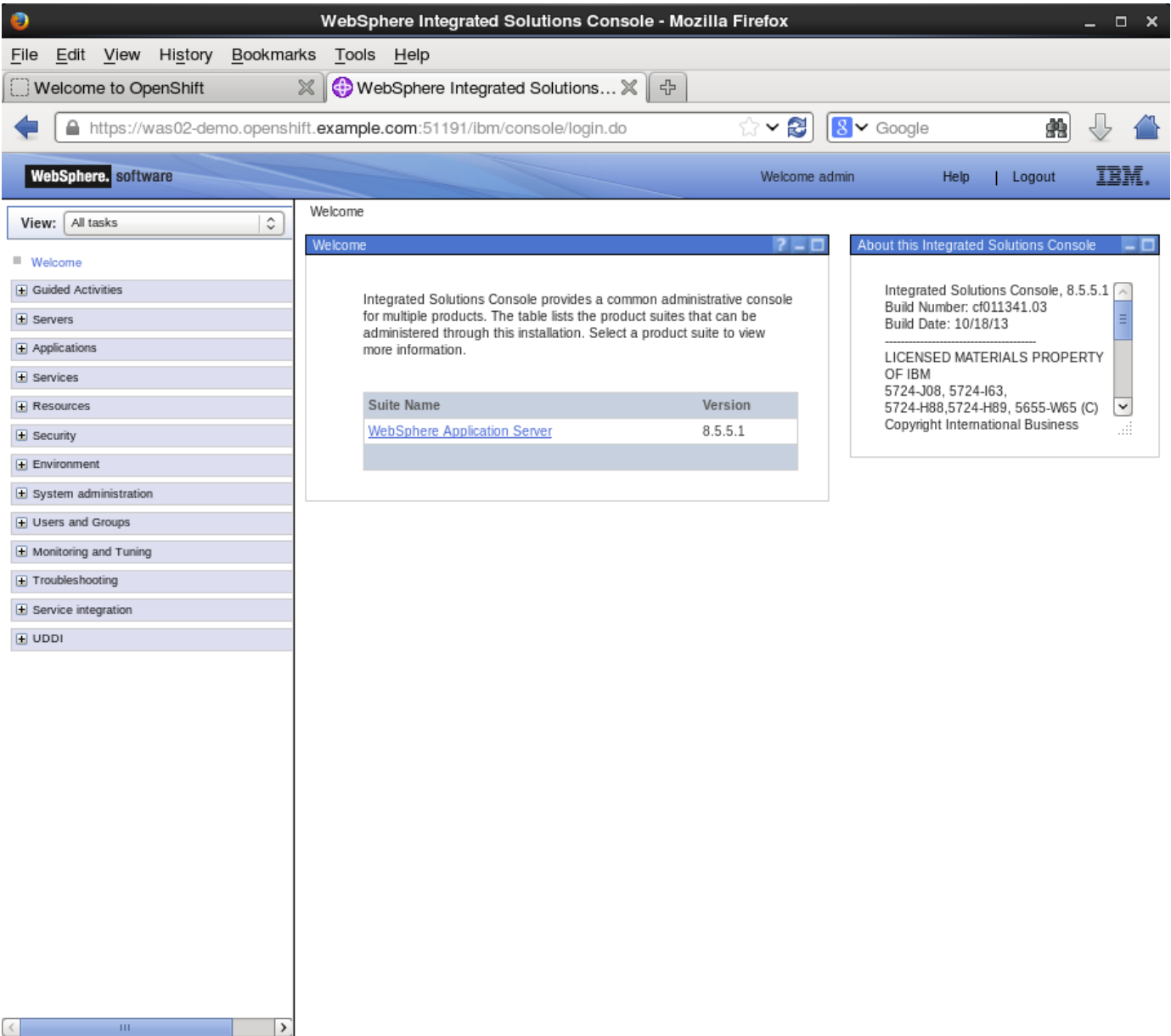


Figure 1: WebSphere Administration Console in OpenShift

# B. OpenShift 2 WebSphere Gear Creation:

There are two ways to create a WebSphere gear in OpenShift 2:

1. Via the OpenShift Console
2. Via the OpenShift Client Tools

The following sections will present how each of these methods can be used to create a WebSphere gear in OpenShift 2

## Creating WebSphere Gear Via the OpenShift Console:

The steps to create a WebSphere gear via the OpenShift console are very straightforward:

### 1.1. Login to the OpenShift Console as per the image below:

#### NOTE

OpenShift can be configured with various identity stores. Check with your organization's administrator to find out your login credentials.

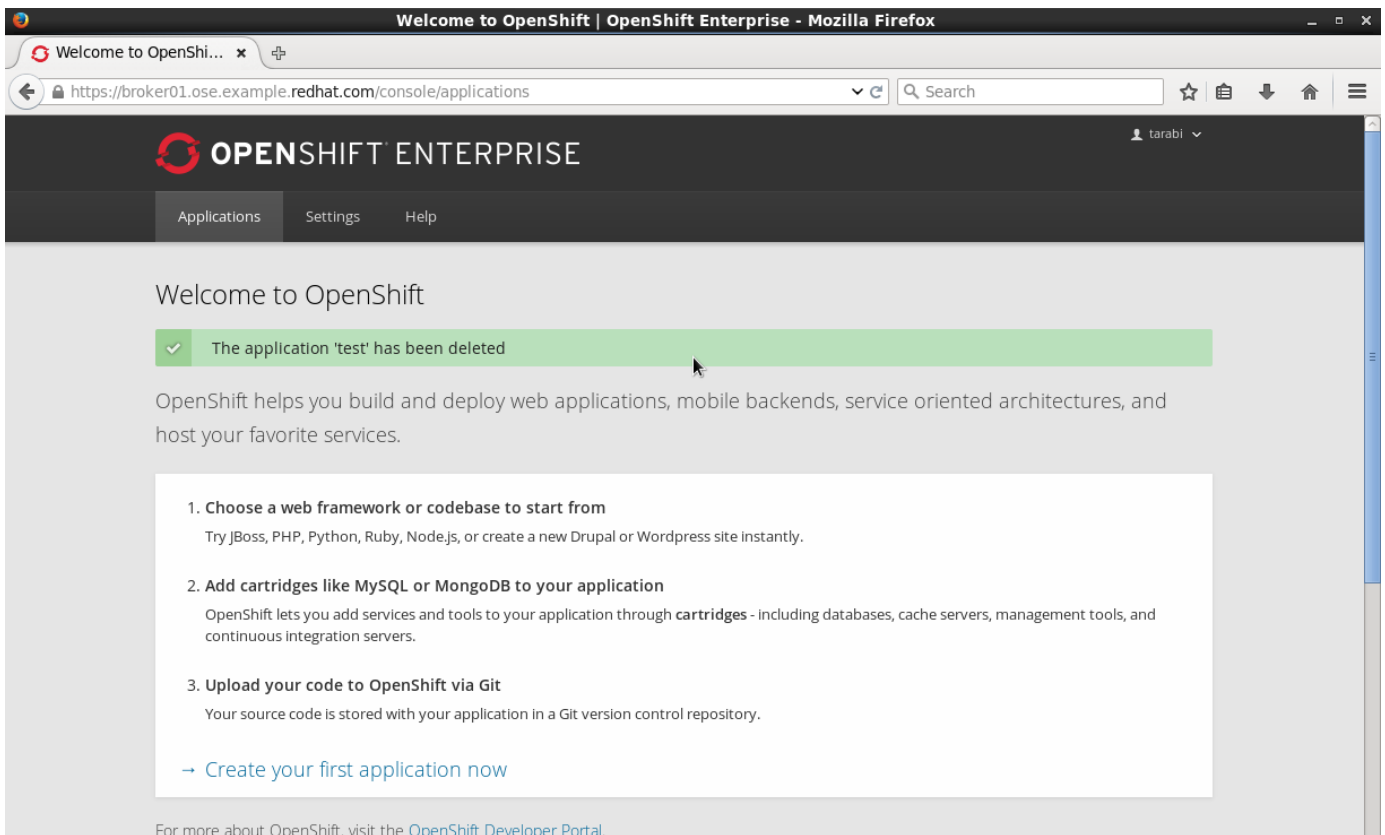


Figure 2: OpenShift Login Page

## 1.2. Click on "Create Your First Application Now"

### NOTE

This step assumes that the user has already created a namespace, and has setup his public key in his OpenShift account.

The next page that is displayed should show the list of all the cartridges that are available. The name of the cartridge might be different between this document and what you are seeing, therefore make sure that you select the one that hints to WebSphere.

### NOTE

OpenShift can be configured with various identity stores. Check with your organization's administrator to find out your login credentials.

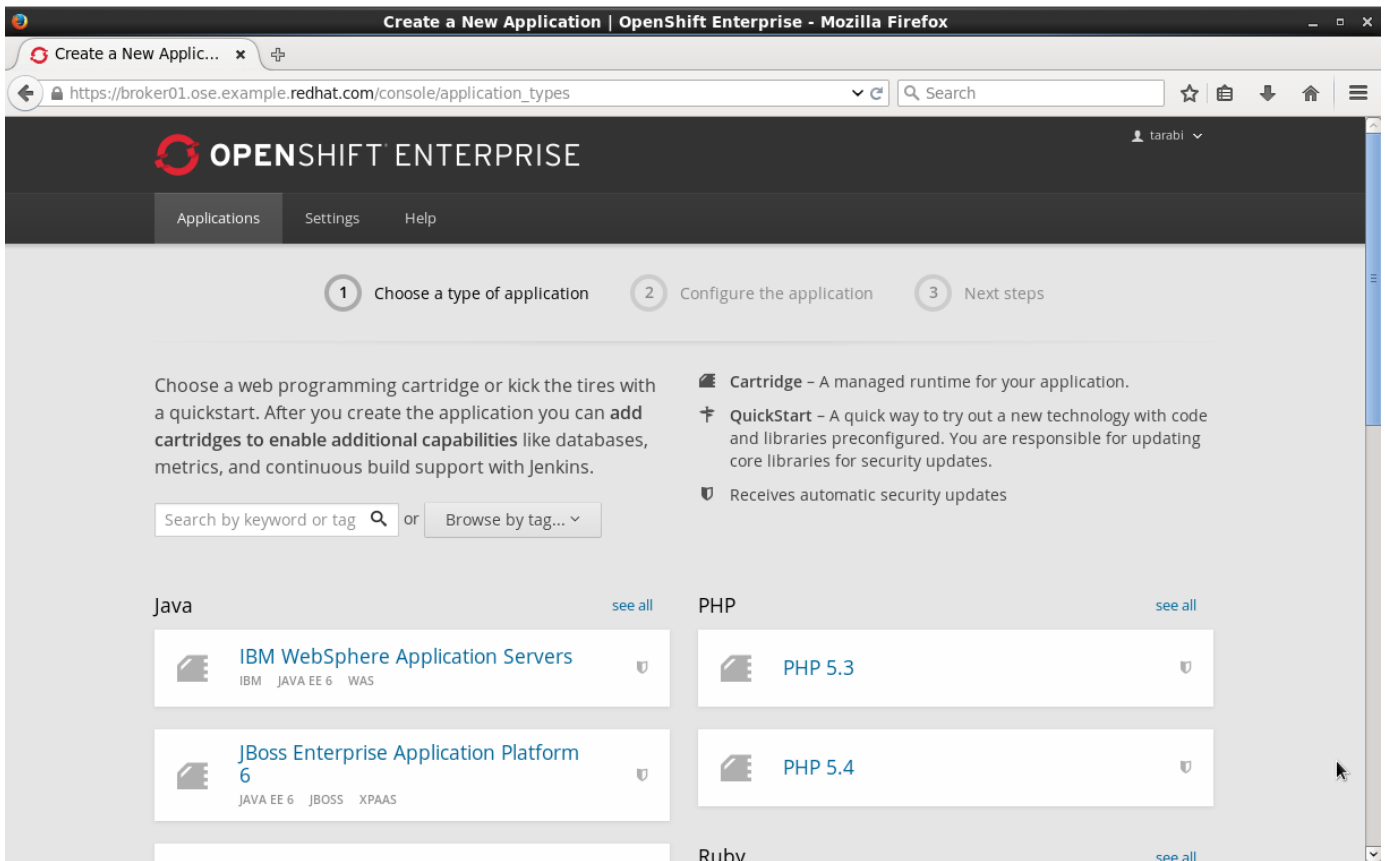


Figure 3: OpenShift Available Cartridges Menu

## 1.3. Complete the Application Form

On the next page you will be presented with a form that has a few fields to be completed:

1. The Public URL: This is the name your application will be registered with in DNS. It will have the formate **application\_name-namespace.Enterprise\_Domain**
2. Source Code: If your application code is stored in a Git repository, you may provide the Git URL and OpenShift will clone the code into the Gear so that the application is built and ready on gear creation - Not frequently used.
3. Gears: This is the size in memory, disk and CPU that will be given to the application. Each cartridge may be associated wiht one or more gear types. Check your OpenShift administrator to find out what gear size to choose for the WebSphere cartridge
4. Scaling:

There are two options that you may choose from:

- **No Scaling:** This means that OpenShift will not attempt to spin up identical gears of your applicaiton when its being "hit" with a lot of web traffic
- **Scaling:** Allows OpenShift to create more gears as web traffic increases to your application. This is horizontal scaling. Once the web traffic is reduced, the additional gears are destroyed and resources are released back to the system.

Create a New Application | OpenShift Enterprise - Mozilla Firefox

https://broker01.ose.example.redhat.com/console/application\_type/cartlfb-websphere-8.5.5.1

OPENSIFT ENTERPRISE

Applications Settings Help

1 Choose a type of application 2 Configure the application 3 Next steps

Based On IBM WebSphere Application Servers Cartridge

IBM WebSphere Application Server for Developers provides access to the development runtime when production runtime capabilities matter. It is a no-charge development runtime. This software helps to enable faster, more efficient development of applications and services, and is available without the expense of a priced and supported runtime on the developer's desktop.

<http://www01.ibm.com/software/products/en/appserv-was-for-dev/>

Receives automatic security updates

Community created

Public URL

You can also create a new domain.

OpenShift will automatically register this domain name for your application. You can add your own domain name later.

Source Code

We'll create a Git code repository in the cloud, and populate it with a set of reasonable defaults. If you provide a Git URL, your application will start with an exact copy of the code and configuration provided in this Git repository.

Gears medium

Gears are the application containers running your code.

Cartridges IBM WebSphere Application Servers

Applications are composed of cartridges - each of which exposes a service or capability to your code. All applications must have a web cartridge.

Scaling No scaling

OpenShift automatically routes web requests to your web gear. If you allow your application to scale, we'll set up a load balancer and allocate more gears to handle traffic as you need it.

Back Create Application +1 @

Figure 4: OpenShift Application Form

## 1.4. Create the Application

Once you are done completing the form above, click on **"Create Application"** button. The page will show that it is "working". It will take about a few minutes before the WebSphere gear is created.