

Create your Spring Boot application

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Go to <http://start.spring.io> and create your app. That's it. You have other options too:

1. With Spring Tool Suite (STS)
2. with Spring Initializr CLI
3. With JBoss Developer Studio (see below)
4. With IntelliJ, Eclipse, Netbeans (via JBoss Forge – see below)
5. With the Fabric8 console for CI/CD

We can also do with these, but will be covered in a different section:

- With JBoss Forge CLI
- With maven archetypes/fabric8 quickstarts

Spring Initializr or existing Spring projects

STS, start.spring.io, and the spring-boot CLI all use Spring Initializr under the covers.

To enable your Spring project you will need to enable the [fabric8 maven plugin](#).

The simplest way to do this is by using the [fabric8:setup](#) goal from the maven plugin; this will add the necessary maven plugin configuration to your [pom.xml](#) file.

```
mvn io.fabric8:fabric8-maven-plugin:${fabric8.maven.plugin.version}:setup
```

Or you can manually add the following section to your [pom.xml](#) by hand:

```
<build>
  ...
  <plugins>
    <plugin>
      <groupId>io.fabric8</groupId>
      <artifactId>fabric8-maven-plugin</artifactId>
      <version>${fabric8.maven.plugin.version}</version>
      <executions>
        <execution>
          <goals>
            <goal>resource</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  ...
```

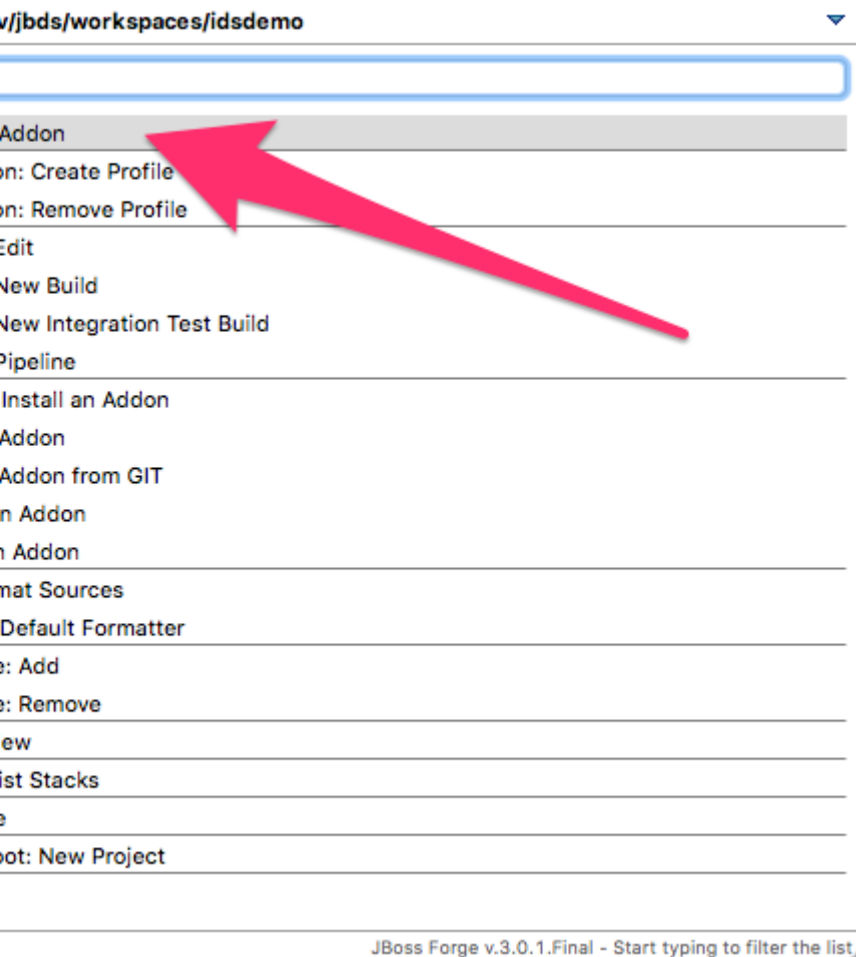
JBoss Developer Studio

JBoss Developer Studio has JBoss Forge tooling installed by default. Press **CTRL+4** or **CMD+4** if on Mac to get the forge window. If you haven't already, install the Fabric8 **devops** plugin which will enable the Spring Boot project wizards. You can install the addon from within JBDS by hitting **CTRL/CMD+4** and type **addon** and find the option for installing. Use the coordinate below:

Current Selection: /Users/ceposta/dev/jbds/workspaces/idsdemo

Previous Choices	Install an Addon
Database/Connections	Connection: Create Profile
	Connection: Remove Profile
DevOps	DevOps: Edit
	DevOps: New Build
	DevOps: New Integration Test Build
	DevOps: Pipeline
Forge/Manage	Build and Install an Addon
	Install an Addon
	Install an Addon from GIT
	Remove an Addon
	Update an Addon
Java	Java: Format Sources
	Java: Set Default Formatter
Maven	Archetype: Add
	Archetype: Remove
Project/Generation	Project: New
Project/Stack	Project: List Stacks
SCM / GIT	GIT: Clone
Uncategorized	Spring-Boot: New Project

JBoss Forge v.3.0.1.Final - Start typing to filter the list,



```
addon-install --coordinate io.fabric8.forge:devops,2.3.18
```


Quick Note: You can also install this from the CLI.

Now when you **CTRL/CMD+4** you can type **project** and select the **Project New** option. When you begin creating the new project, fill in the Project Name, Package Name, etc. and make sure to change the Project Type to 'spring boot':

Project: New [Current Selection: /Users/ceposta/dev/jbds/workspaces/i...

Project: New

Create a new project



Project name: * ipservice

Top level package: com.redhat.demo

Version: 1.0.0-SNAPSHOT

Final name: ipservice

Project location: /Users/ceposta/dev/jbds/workspaces/idsdemo Browse...

☐ Overwrite existing project location

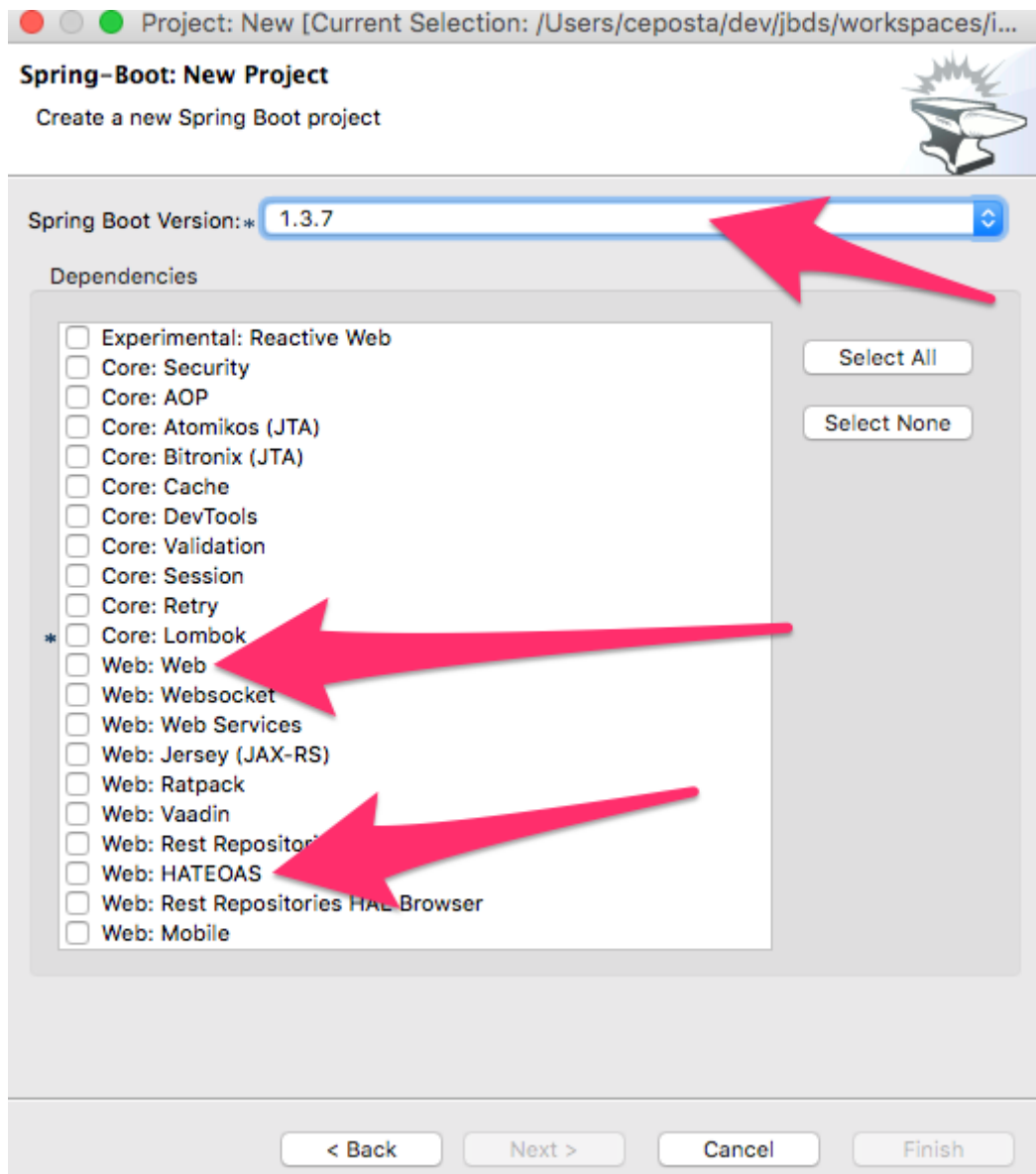
Project type: * Spring Boot

Build system: * Maven

Stack:

< Back **Next >** Cancel Finish

When you click "Next", you can choose the dependencies you like for your project (just as you can from any Spring Initializr dialog including start.spring.io).




Clicking "Finish" will create the project for you. At this point you have a skeleton Spring Boot project into which you can add your own amazing business logic.

What about when you're ready to start using the Fabric8 tooling and build Docker images for your Kubernetes installation?

Select the project in your project/package explorer and then hit **CTRL/CMD+4** and type **fabric8** into the dialog box filter. You should see an option for *Fabric8 Setup*.

Current Selection: /ipservice

fab

Fabric  Fabric8: Setup

JBoss Forge v.3.0.1.Final - Start typing to filter the list,

Setup

JBoss Forge v.3.0.1.Final - Start typing to filter the list,

When the next dialog box comes up you can add metadata about which Docker image to use or

which Main class to bootstrap, but in our case the fabric8 tooling is going to pick sensible defaults since it will auto-detect we have a Spring Boot application. Just click "Finish"

Now if we take a look at the pom.xml, we'll see that our `fabric8-maven-plugin` has been added:

```
<build>
  <plugins>
    <plugin>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-maven-plugin</artifactId>
    </plugin>
    <plugin>
      <groupId>io.fabric8</groupId>
      <artifactId>fabric8-maven-plugin</artifactId>
      <version>3.1.23</version>
      <executions>
        <execution>
          <goals>
            <goal>resource</goal>
            <goal>build</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
```



```
framework.boot</groupId>
boot-maven-plugin</artifactId>
```

```
</groupId>
-maven-plugin</artifactId>
rsion>
```



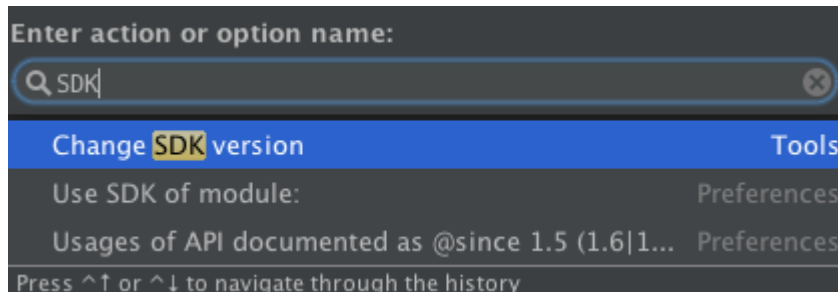
```
esource</goal>
uild</goal>
```

You're now in business! Skip to the section titled "Spring Boot on Kubernetes" if you're not interested in set up for IntelliJ. Or, watch a video of doing this whole process here:

`<iframe src="https://player.vimeo.com/video/180053437" width="640" height="360" frameborder="0" webkitallowfullscreen mozallowfullscreen allowfullscreen></iframe>` `<p>Spring Boot, Spring Cloud with Kubernetes and Fabric8 from Christian Posta on Vimeo.</p>`

IntelliJ

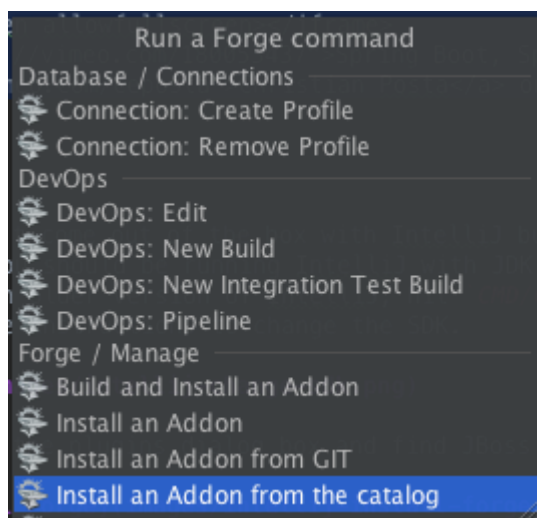
JBoss Forge doesn't come out of the box with IntelliJ but through IntelliJ's amazing plugin system, we can easily added it! Just note, you should be running IntelliJ with JDK 1.8+. Newer versions of IntelliJ bundle and use JDK 1.8 out of the box. If you've an older version of IntelliJ, hit **CMD/CTRL+SHIFT+A** to get the **All Actions** dialog box and start typing **SDK**. Follow the instructions to change the SDK.



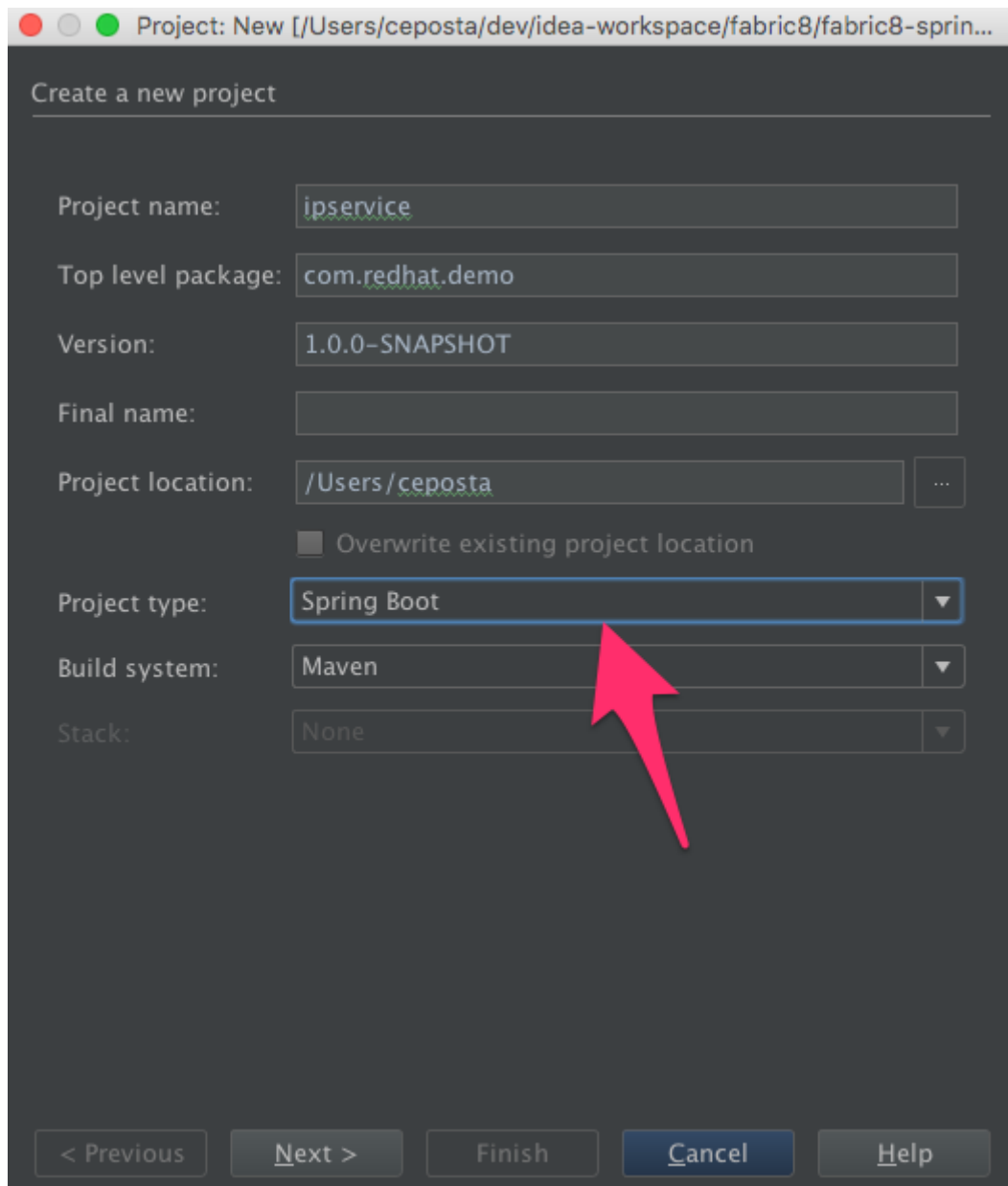
Now you can go to the plugins dialog box and find JBoss Forge:

[IntelliJ install Forge]

Now you can **CTRL+ALT+4** or **CMD+OPTION+4** on Mac to get the Forge dialog box:

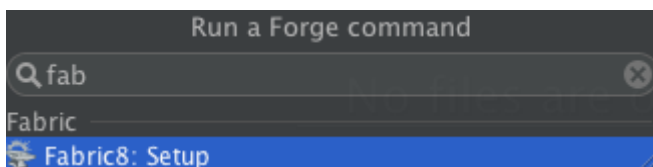


Just like with the JBDS example, we'll find the "Project New" option, fill in the project information, and make sure to select Project Type of Spring Boot:



Click next, select the Spring Boot dependencies you'd like to include in your project and click Finish.

To add the Fabric8 tooling, select the root of your project and go back to the Forge dialog (CMD/CTRL+ALT/OPTION+4) and begin typing fabric8



Again, you can add more details to the setup, but just clicking "Finish" is sufficient because fabric8 can auto-detect we're in a Spring Boot project and use appropriate defaults. Now if you open the `pom.xml` you'll see the `fabric8-maven-plugin` added:

```
<build>
  <plugins>
    <plugin>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-maven-plugin</artifactId>
    </plugin>
    <plugin>
      <groupId>io.fabric8</groupId>
      <artifactId>fabric8-maven-plugin</artifactId>
      <version>3.1.23</version>
      <executions>
        <execution>
          <goals>
            <goal>resource</goal>
            <goal>build</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
```

Spring Boot on Kubernetes

Once we have our Spring Boot microservice to our liking we want to be able to package it up and deliver it to our cluster running in the Cloud. Docker provides a great abstraction (the container!) for doing this. To be able to do this while running on Mac OS X or Windows, we'll need a little help. We'll need a Docker daemon and Kubernetes to do this. Here are a few options for getting started:

- [minikube](#)
- [minishift](#)
- [oc cluster up](#)
- [Red Hat Container Development Kit](#)

See the fabric8 docs (<http://fabric8.io/guide/index.html>) for more details.

Once we have a Docker/Kubernetes environment up and have access to a Docker daemon we can build our docker images. For OpenShift users that wish to use Source to Image, see the next section. First let's verify we have docker connected properly:

```
$ docker images
```

If that command returns a list of docker images, you're ready to go.

Also make sure you're logged into Kubernetes properly:

```
$ kubectl get nodes
```

If that command returns a list of nodes (just 1 if running locally) then you're good!

Navigate to your spring boot application that we created earlier (and also to which we added the

fabric8-maven-plugin). Try running:

```
$ mvn clean install
```

If you run a `docker images` now you should see our new Docker image built and ready to go!!

```
$ docker images
```

REPOSITORY	SIZE	TAG	IMAGE ID
demo/ipservice		latest	b491738bf223
35 seconds ago	161.5 MB		
example/foo		1.0.1	f86db95465cf
About an hour ago	161.5 MB		
172.30.128.90:80/example/foo		1.0.1	f86db95465cf
About an hour ago	161.5 MB		
foo/foo		latest	aa5fa39e3609
21 hours ago	161.5 MB		

That's pretty amazing. Didn't have to touch a Dockerfile or anything.

What about deploying to Kubernetes? To do that, we usually have to build a Kubernetes resource `yml` file. Take a look at the `./target/classes/META-INF/fabric8` folder:

```
$ ls -l ./target/classes/META-INF/fabric8/
total 32
drwxr-xr-x  4 ceposta  staff   136 Sep  2 14:07 kubernetes
-rw-r--r--  1 ceposta  staff  3226 Sep  2 14:07 kubernetes.json
-rw-r--r--  1 ceposta  staff  2344 Sep  2 14:07 kubernetes.yml
drwxr-xr-x  4 ceposta  staff   136 Sep  2 14:07 openshift
-rw-r--r--  1 ceposta  staff  3343 Sep  2 14:07 openshift.json
-rw-r--r--  1 ceposta  staff  2415 Sep  2 14:07 openshift.yml
```

Woah! The maven plugin generated manifest json/yml files for us! Let's take a quick look:

```
$ cat ./target/classes/META-INF/fabric8/kubernetes.yml
---
apiVersion: "v1"
kind: "List"
items:
- apiVersion: "v1"
  kind: "Service"
  metadata:
    annotations:
      prometheus.io/port: "9779"
      prometheus.io/scrape: "true"
      fabric8.io/iconUrl: "img/icons/spring-boot.svg"
  labels:
```

```

    provider: "fabric8"
    project: "ipservice"
    version: "1.0.0-SNAPSHOT"
    group: "com.redhat.demo"
    name: "ipservice"
spec:
  ports:
    - port: 8080
      protocol: "TCP"
      targetPort: 8080
  selector:
    project: "ipservice"
    provider: "fabric8"
    group: "com.redhat.demo"
    type: "LoadBalancer"
- apiVersion: "extensions/v1beta1"
  kind: "Deployment"
  metadata:
    annotations:
      fabric8.io/iconUrl: "img/icons/spring-boot.svg"
      fabric8.io/metrics-path: "dashboard/file/kubernetes-pods.json/?var-
project=ipservice&var-version=1.0.0-SNAPSHOT"
    labels:
      provider: "fabric8"
      project: "ipservice"
      version: "1.0.0-SNAPSHOT"
      group: "com.redhat.demo"
    name: "ipservice"
  spec:
    replicas: 1
    selector:
      matchLabels:
        project: "ipservice"
        provider: "fabric8"
        group: "com.redhat.demo"
    template:
      metadata:
        annotations:
          fabric8.io/iconUrl: "img/icons/spring-boot.svg"
          fabric8.io/metrics-path: "dashboard/file/kubernetes-pods.json/?var-
project=ipservice&var-version=1.0.0-SNAPSHOT"
        labels:
          provider: "fabric8"
          project: "ipservice"
          version: "1.0.0-SNAPSHOT"
          group: "com.redhat.demo"
      spec:
        containers:
          - env:
              - name: "KUBERNETES_NAMESPACE"
                valueFrom:

```

```
    fieldRef:
      fieldPath: "metadata.namespace"
  image: "demo/ipservice:latest"
  imagePullPolicy: "IfNotPresent"
  livenessProbe:
    httpGet:
      path: "/health"
      port: 8080
    initialDelaySeconds: 180
  name: "spring-boot"
  ports:
    - containerPort: 8080
      protocol: "TCP"
    - containerPort: 9779
      protocol: "TCP"
    - containerPort: 8778
      protocol: "TCP"
  readinessProbe:
    httpGet:
      path: "/health"
      port: 8080
    initialDelaySeconds: 10
  securityContext:
    privileged: false
```

Wow! It built out a Kubernetes Service and Kubernetes Deployment resource file/manifest for us! We didn't have to touch a single line of yaml/json!

Let's deploy our application then:

```

$ mvn fabric8:deploy
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=1512m; support
was removed in 8.0
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building demo 1.0.0-SNAPSHOT
[INFO] -----
[INFO]
[INFO] --- fabric8-maven-plugin:3.1.23:deploy (default-cli) @ ipservice ---
[INFO] F8> Using OpenShift at https://192.168.64.7:8443/ in namespace ipservice with
manifest /Users/ceposta/dev/jbds/workspaces/idsdemo/ipservice/target/classes/META-
INF/fabric8/openshift.yml
[INFO] OpenShift platform detected
[INFO] Using project: ipservice
[INFO] Creating a Service from openshift.yml namespace ipservice name ipservice
[INFO] Created Service: target/fabric8/applyJson/ipservice/service-ipservice.json
[INFO] Creating a DeploymentConfig from openshift.yml namespace ipservice name
ipservice
[INFO] Created DeploymentConfig: target/fabric8/applyJson/ipservice/deploymentconfig-
ipservice.json
[INFO] Creating Route ipservice:ipservice host:
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.447 s
[INFO] Finished at: 2016-09-02T14:14:44-07:00
[INFO] Final Memory: 34M/335M
[INFO] -----

```

Now if we take a look at the deployments/replicasets/pods, we should see our application has been deployed!

```

$ kubectl get pod
NAME                READY    STATUS    RESTARTS   AGE
ipservice-1-v3hjc   1/1     Running   0           1m

```

OpenShift s2i binary builds

What if we wanted to use OpenShift to build the Docker image? What if we weren't able to install a Docker daemon locally and wanted to use OpenShift to do the docker builds? Easy! Just change the mode from (default: **kubernetes**) to **openshift**:

```

$ mvn clean install -Dfabric8.mode=openshift

```

Doing this will create an OpenShift BuildConfig and kick off a binary s2i build!

Then if we want to do a deploy:

```
mvn fabric8:deploy -Dfabric8.mode=openshift
```

Then the maven plugin will create the appropriate OpenShift DeploymentConfig and use the associated OpenShift ImageStreams that were created from the BuildConfig.

This approach is great when you don't have access to a Docker daemon to kick off docker builds. Just let the OpenShift Container Platform do it for you.

Continuous Delivery

We want to continuously deliver Spring Boot microservices!

Creating a project as we did above is okay to get started. A lot of times we create projects and then for each one have to go through the steps of setting up a git repository, setting up builds in some kind of CI system, and then fabricating a deployment pipeline that suits us. Then we have to connect all those pieces together. If we want to use containers and run them in Kubernetes then we have to go try find all of the plugins and configure them (and understand the nuance of each). What if we could just do all of this with a couple clicks?

The Fabric8 console allows us to do this. It is a webconsole for Kubernetes that has lots of goodies not the least of which is built-in CI/CD with Jenkins Pipelines. To get started creating a Spring Boot microservice and attach it to a CI/CD system, log in to the console and choose a team (default team works fine for illustration)

[+ Create](#)**Team: default**[Team Dashboard](#)**Namespace**

default ✖

Created

1 day ago

[Runtime](#)

Testing

Not created yet[+ Create](#)[Staging](#)**Namespace**

default-staging ✖

Created

1 day ago

Production

Not created yet[+ Create](#)[+ Create Te](#)**Team: default**[Team Dashboard](#)**Namespace**

default ✖

Created

1 day ago

[Runtime](#)

Testing

Not created yet[+ Create](#)[Staging](#)**Namespace**

default-staging ✖

Created

1 day ago

Production

Not created yet[+ Create](#)

Next we want to create an application, so click Create Application:

There are no applications currently available.

Create Application

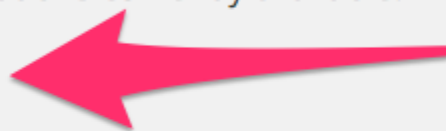


Please create a new application or try browsing the [Runtime](#) for this project



There are no applications currently available.

Create Application



Please create a new application or try browsing the [Runtime](#) for this project

If we had created our app using any of the above (Spring Initializr/STS, JBDS, or IntelliJ) we can check our code into git and import the project. But here, we're going to create a new app:

+ Create New App



Create a new App from our library of templates
with the configured [source secret](#)

+ Import from Git

Import an App which already exists in a git
repository



+ Create New App



Create App from our library of templates
with the configured [source secret](#)

+ Import from Git

Import an App which already exists in a git
repository

In this next dialog, we have myriad of options to choose for how we want to create our microservice. Let's choose the Spring Boot option (but Go, Integration, and WildFly Swarm are also great options!):

ect



Django



From
Archetype



Funktion



Generic



Integration



Java
Enterprise
Archive (EAR)



Java Library
(JAR)



Java Web
Application
(WAR)



NodeJS



PHP



Quickstart



Rails



Swift

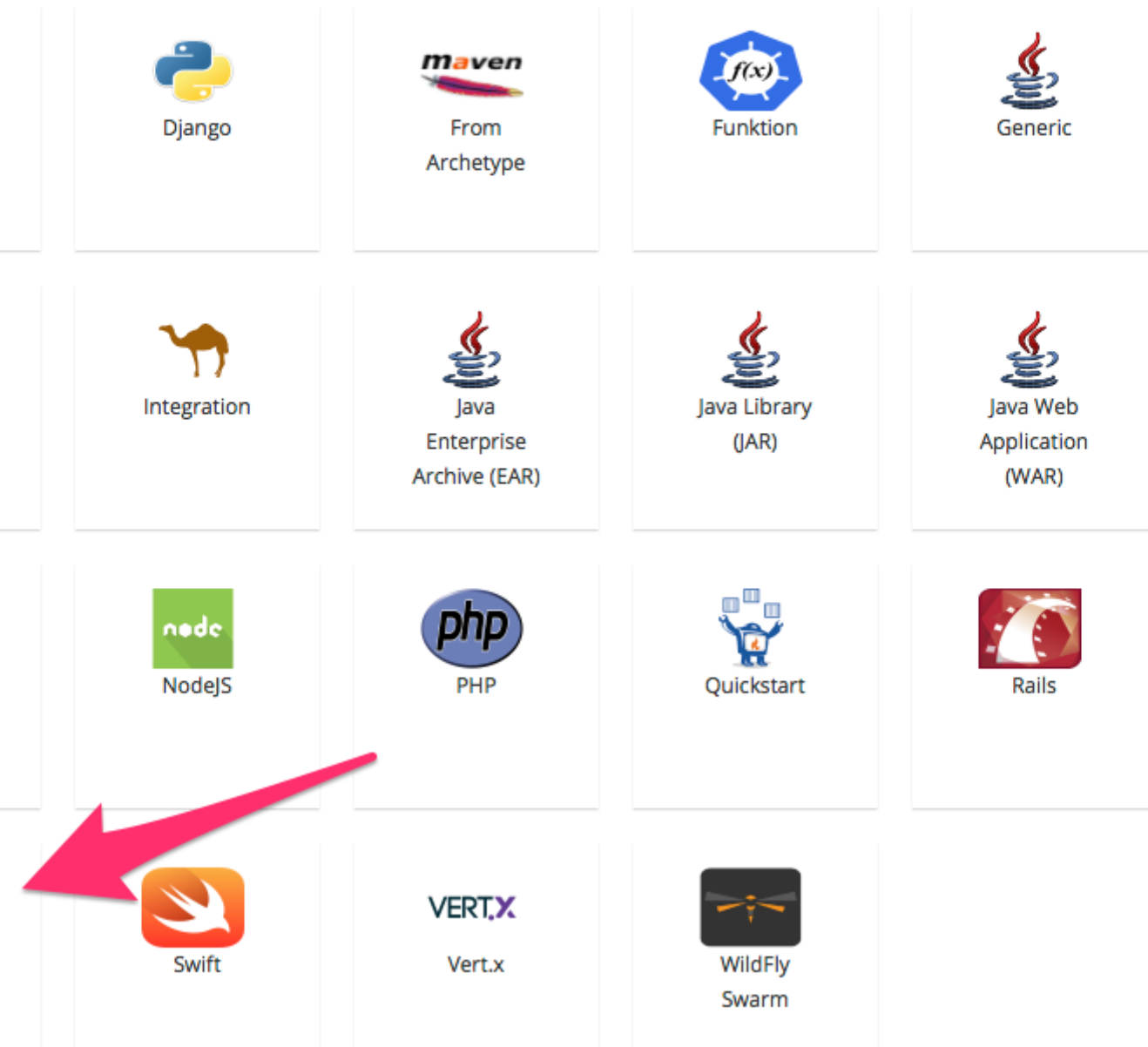


Vert.x



WildFly
Swarm

ect



Give it a name/package name and click "Next"

Now you can see a dialog that looks similar to the <http://start.spring.io> page that lets you choose which version of Spring Boot you want to use and which dependencies to add:

1.3.7

Spring Boot Version to use

actua|

Actuator

Production ready features to help you monitor and manage your application

Actuator Docs

API documentation for the Actuator endpoints

1.3.7

Spring Boot Version to use

actua|

Actuator

Production ready features to help you monitor and manage your application

Actuator Docs

API documentation for the Actuator endpoints

1.3.7

Spring Boot Version to use

Web, Camel, JPA, Actuator, Devtools...

Add Spring Boot Starters and dependencies to your application

Web x

Actuator x

JPA x

HATEOAS x

Rest Repositories HAL Browser x

Rest Repositories x

Car

1.3.7

Spring Boot Version to use

Web, Camel, JPA, Actuator, Devtools...

Add Spring Boot Starters and dependencies to your application

Web x

Actuator x

JPA x

HATEOAS x

Rest Repositories HAL Browser x

Rest Repositories x

Car

Once you've selected the dependencies you like, click "Next"

Now you're taken to a dialog that asks us to select a CI/CD pipeline to associate with your project (eg, CanaryReleaseStageAndApprove for a pipeline with rolling upgrades between environments and approval steps). Choose a pipeline.

it the DevOps configuration for this project

Pipeline

... BuildImage

Stages

canary image

... CanaryRelease

Stages

canary image

integration test

Environments

Testing

... CanaryReleaseAndStage

Stages

canary image

integration test

Rolling upgrade Staging

Environments

Testing

Staging

... CanaryReleaseStageAndApprovePri

Stages

canary image

integration test

Rolling upgrade Staging

approve

Rolling upgrade Production

Environments

Testing

Staging

Production

... Deploy

Stages

deploy

... Install

Stages

install



it the DevOps configuration for this project

Pipeline

... BuildImage

Stages

canary image

... CanaryRelease

Stages

canary image

integration test

Environments

Testing

... CanaryReleaseAndStage

Stages

canary image

integration test

Rolling upgrade Staging

Environments

Testing

Staging

... CanaryReleaseStageAndApprovePri

Stages

canary image

integration test

Rolling upgrade Staging

approve

Rolling upgrade Production

Environments

Testing

Staging

Production

... Deploy

Stages

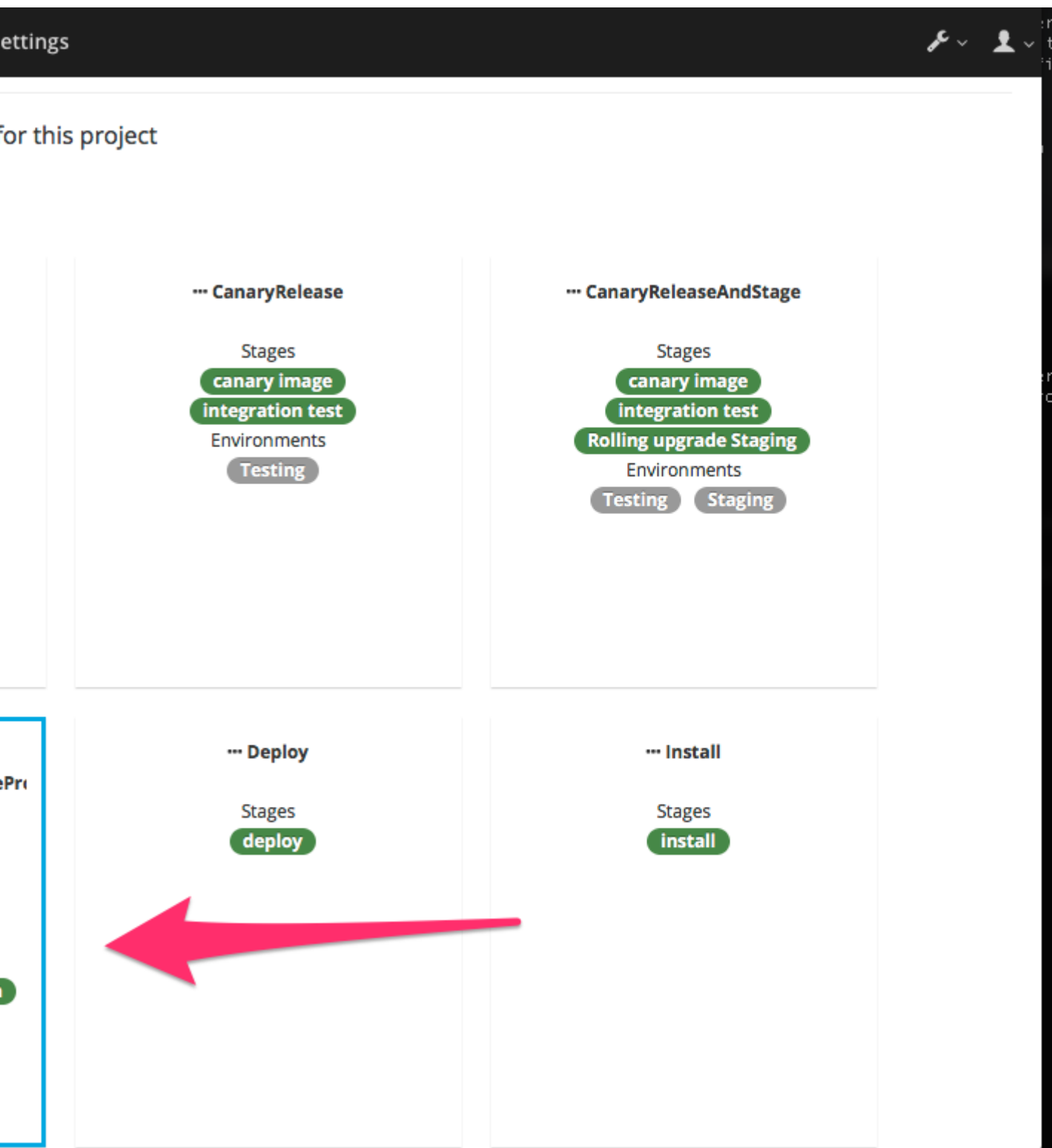
deploy

... Install

Stages

install





After selecting a pipeline, click "Next" and wait a moment for your project to be completed and everything to be set up. You'll initially be taken to a dashboard that appears mostly empty. Give it a few minutes to come alive.

Environments

Testing

Staging

Production

Active Pipelines [View All Pipelines >>](#)

No Pipeline Available

Pipeline is a kind of build which uses Jenkins Workflow internally which has multiple Stages. You will see the active pipelines here after you add this project

Commits [View All Commits >>](#)



devops-edit
gogsadmin committed

16ffca3



index on master: 5c9fd9d project-new --type=Spring Boot --topLevelPackage=org.example --version=1.0.0-SNAPSHOT --targetLocation=/tmp/fabric8-forge/user/gogsadmin --stack=None --named=foo --

adff51a

Environments

Testing

Staging

Production

Active Pipelines [View All Pipelines >>](#)

No Pipeline Available

Pipeline is a kind of build which uses Jenkins Workflow internally which has multiple Stages. You will see the active pipelines here after you add this project

Commits [View All Commits >>](#)



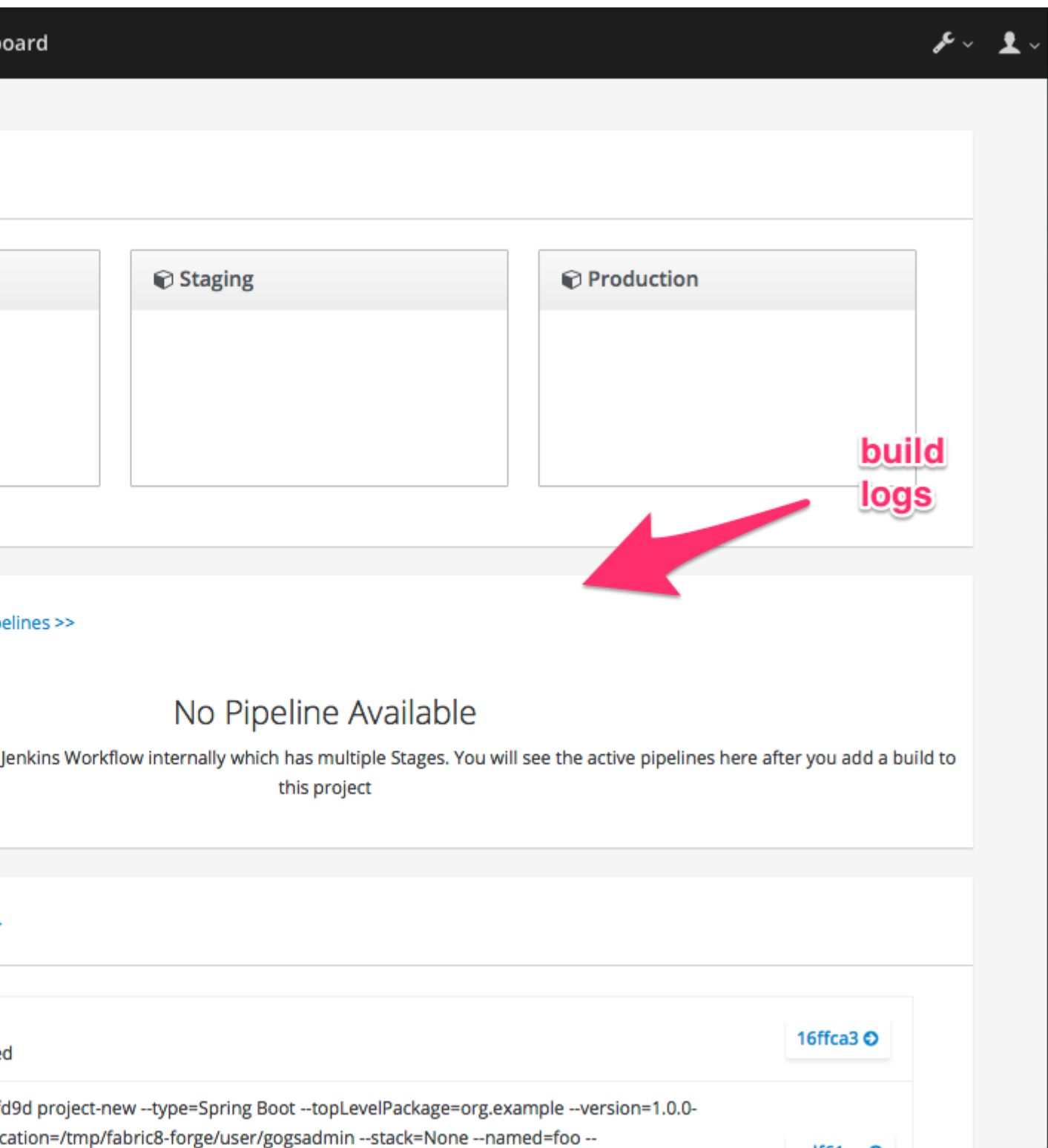
devops-edit
gogsadmin committed

16ffca3



index on master: 5c9fd9d project-new --type=Spring Boot --topLevelPackage=org.example --version=1.0.0-SNAPSHOT --targetLocation=/tmp/fabric8-forge/user/gogsadmin --stack=None --named=foo --

ndf51a











In the mean time, you can navigate to the internal git repository that comes out of the box with a fabric8 installation:

click first

Environments

Testing

Staging

-  fabric8
-  fabric8-dock
-  fabric8-forge
-  gogs
-  gogs-ssh
-  jenkins
-  jenkins-jnlp
-  nexus

Active Pipelines [View All Pipelines >>](#)

Build #1

Canary Release | Started 1 minute

Canary Release



0 seconds

Logs

View

```
[INFO] Downloading: http://nexus/content/groups/public/log4j/log4j/1.2.12/log4j-1.2.12.pom
[INFO] Downloaded: http://nexus/content/groups/public/log4j/log4j/1.2.12/log4j-1.2.12.pom (145 B at 10.1 KB
[INFO] Downloading: http://nexus/content/groups/public/commons-logging/commons-logging-api/1.1/commons-logg
api-1.1.pom
[INFO] Downloaded: http://nexus/content/groups/public/commons-logging/commons-logging-api/1.1/commons-loggi
api-1.1.pom (6 KB at 522.2 KB/sec)
```

click first

Environments

Testing

Staging

fabric8

fabric8-dock

fabric8-forge

gogs

gogs-ssh

jenkins

jenkins-jnlp

nexus

Active Pipelines [View All Pipelines >>](#)

Build #1

Canary Release | Started 1 minute

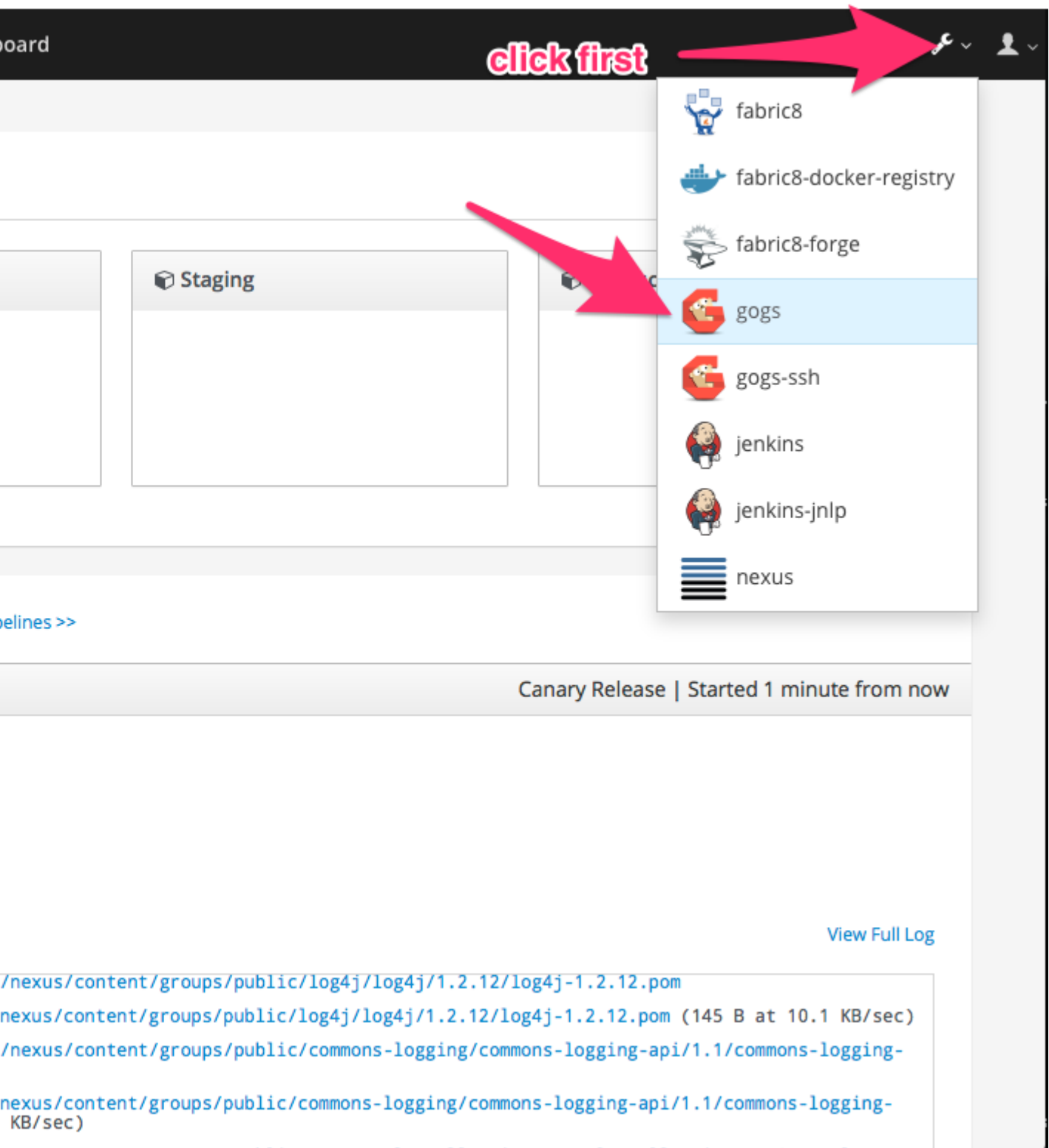
Canary Release

0 seconds

Logs

View

```
[INFO] Downloading: http://nexus/content/groups/public/log4j/log4j/1.2.12/log4j-1.2.12.pom
[INFO] Downloaded: http://nexus/content/groups/public/log4j/log4j/1.2.12/log4j-1.2.12.pom (145 B at 10.1 KB/sec)
[INFO] Downloading: http://nexus/content/groups/public/commons-logging/commons-logging-api/1.1/commons-logging-api-1.1.pom
[INFO] Downloaded: http://nexus/content/groups/public/commons-logging/commons-logging-api/1.1/commons-logging-api-1.1.pom (6 KB at 522.2 KB/sec)
```



Sign in to Gogs to see the repo (note default password for the default installation of fabric8 is `gogsadmin/RedHat$1`):

Sign In

Username or E-mail*

gogsadmin

Password*

.....



☐ Remember Me

Sign In

[Forgot password?](#)

[Need an account? Sign up now.](#)

 OpenShift

gogsadmin

.....


🔑

☐ Remember Me

Sign In


Forgot password?

Need an account? Sign up now.


 OpenShift

Once you've logged into the Git repo, you can navigate to find your project, and clone it to your IDE and start working where you wish.

ExploreHelp

gogsadmin+▼

foo




Unwatch 1Star


SSHHTTPS

http://gogs.192.168.64.7.xip.io/gogsadr

Copy


Need help cloning? Visit [Help!](#)

ZIP

TAR.GZ


c22b	devops-edit	1 hour ago
c9fd9d953	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
c9fd9d953	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
a6ae2c22b	devops-edit --copyPipelineToProject=true --pipeline=workflo...	1 hour ago
a6ae2c22b	devops-edit --copyPipelineToProject=true --pipeline=workflo...	1 hour ago
c9fd9d953	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
c9fd9d953	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
123eabc0d	Stash before a write	1 hour ago


Help

 gogsadmin

+

▼





Unwatch 1

★ Star 0


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HTTPS

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 ZIP


 TAR.GZ

Issues

master

 Commits

 Releases

 Settings

53	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
53	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
2b	devops-edit --copyPipelineToProject=true --pipeline=workflo...	1 hour ago
2b	devops-edit --copyPipelineToProject=true --pipeline=workflo...	1 hour ago
53	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
53	project-new --type=Spring Boot --topLevelPackage=org.exa...	1 hour ago
0d	Stash before a write	1 hour ago

If you go back to the console after the builds take place, you should see that your new project has been automatically attached to the Fabric8 CI/CD system:

Environments

Testing

Staging

foo-1 : 1.0.1

1

Build #1

fa6ae2c

Production

Active Pipelines [View All Pipelines >>](#)

Build #1

Approve | Started 1 minute

<div>Canary Release</div> <div><div></div></div> <div>1 minute, 13 seconds</div>	<div>Integration Testing</div> <div><div></div></div> <div>10 seconds</div>	<div>Rolling Upgrade Staging</div> <div><div></div></div> <div>0 seconds</div>	<div>Approve</div> <div><div></div></div> <div>0 seconds</div>
--	---	--	--

Logs

```
Would you like to promote version 1.0.1 to the Production namespace?  
to Proceed reply: fabric8 jenkins proceed job foo build 1  
to Abort reply: fabric8 jenkins abort job foo build 1  
No service hubot is running!!!  
No service found!
```


Environments

Testing

Staging

foo-1 : 1.0.1

1

Build #1

fa6ae2c

Production

Active Pipelines [View All Pipelines >>](#)

Build #1 Approve | Started 1 minute

<div>Canary Release</div> <div><div></div></div> <div>1 minute, 13 seconds</div>	<div>Integration Testing</div> <div><div></div></div> <div>10 seconds</div>	<div>Rolling Upgrade Staging</div> <div><div></div></div> <div>0 seconds</div>	<div>Approve</div> <div><div></div></div> <div>0 seconds</div>
--	---	--	--

Logs

```
Would you like to promote version 1.0.1 to the Production namespace?  
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No service hubot is running!!!  
No service found!
```

board

The dashboard shows two environments: Staging and Production. The Staging environment contains a build for 'foo-1 : 1.0.1' with a green status icon and a link to the build details. The Production environment is currently empty.

[elines >>](#)

Approve | Started 1 minute from now

on Testing

0 seconds

Rolling Upgrade Staging

0 seconds

Approve

0 seconds

[View Full Log](#)

```

version 1.0.1 to the Production namespace?
jenkins proceed job foo build 1
jenkins abort job foo build 1
g!!!

```

Your new Spring Boot app was checked into git, a new Jenkins Pipeline continuous delivery pipeline was set up, all builds are integrated with Nexus and the Docker registry and you've even deployed into the Staging environment. Take a browse around the Dashboard to get more familiar. The current build is waiting in an "approval" state before it can get to production. In the Build log console you should be able to see the button to "Approve" the build or "Deny" it. Additionally, if we had deployed the chat applications (LetsChat/HipChat/Slack,etc) then we could have approved/denied this build via ChatOps. Or, we could have hooked it up to a ticketing system. Or, if you like crusty old email, we could have done it like that as well.