OpenShift
Demo Walkthrough

CSCI4140
Open-Source Software Project Development

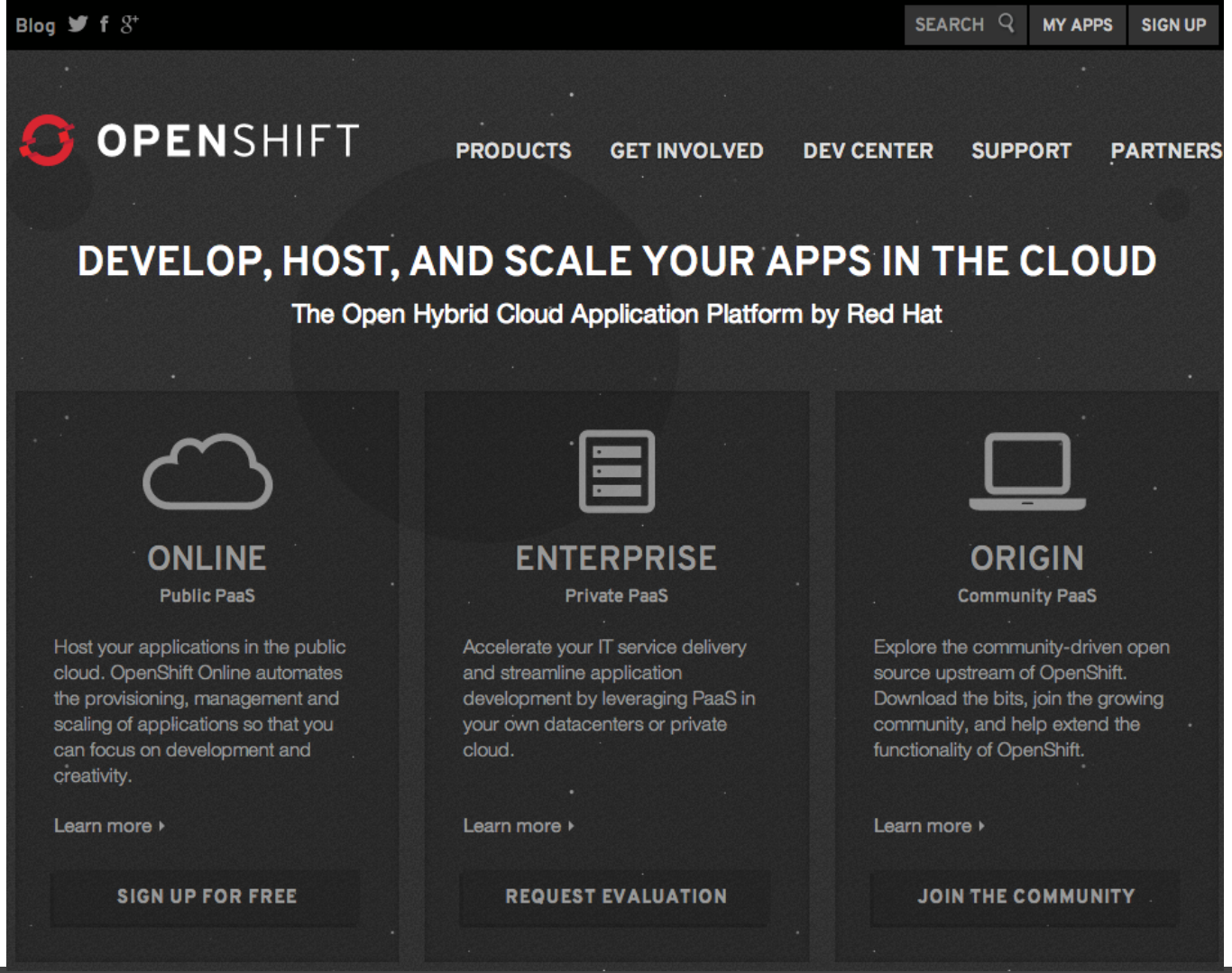
Spring 2014

29 Jan
Leave filename as blank in ssh-keygen to avoid extra setting

Last Update: 29 Jan 2015

Account Setup

OpenShift Demo Part (1)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Explore the community-driven open source upstream of OpenShift. Download the bits, join the growing community, and help extend the functionality of OpenShift.
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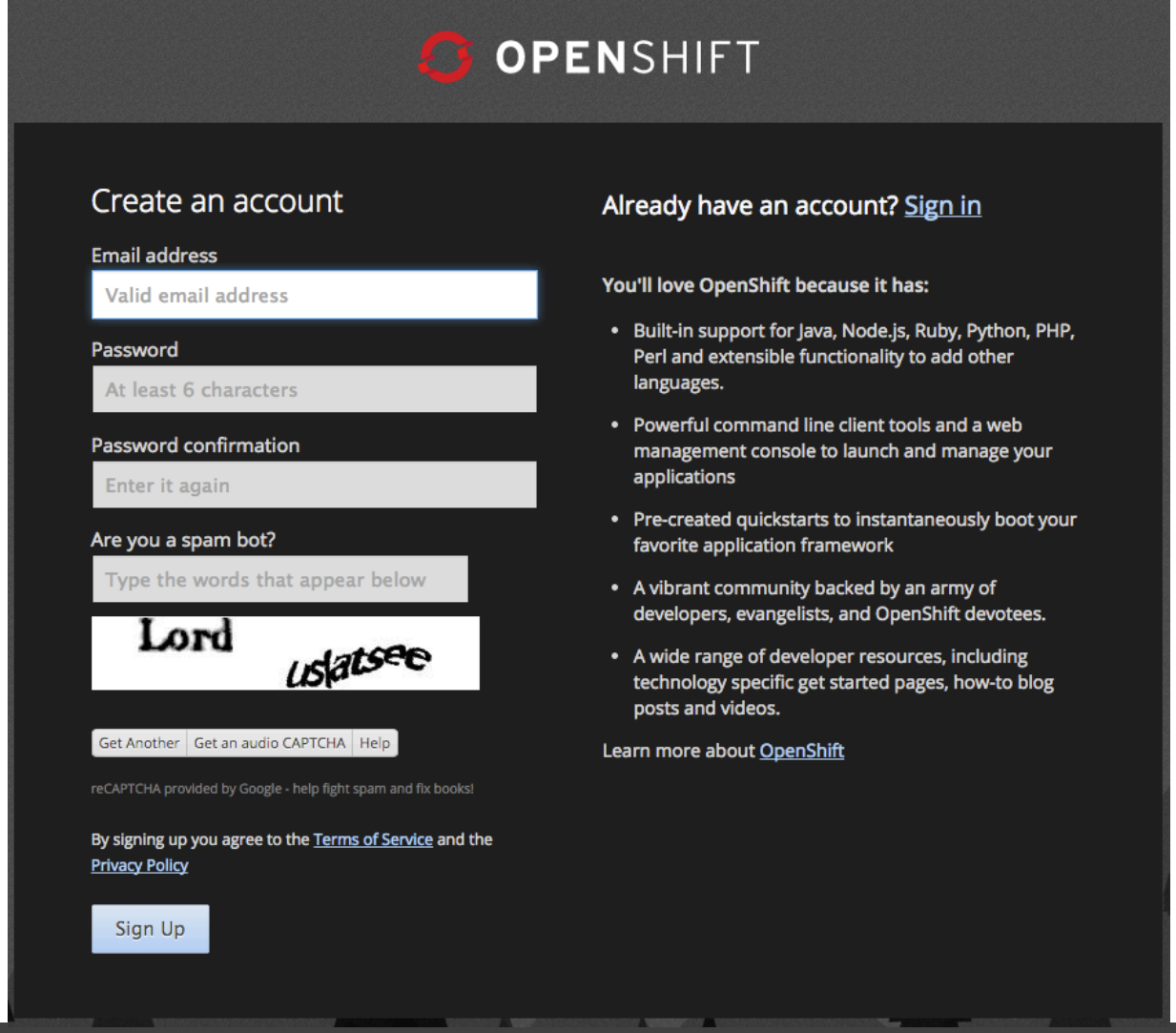
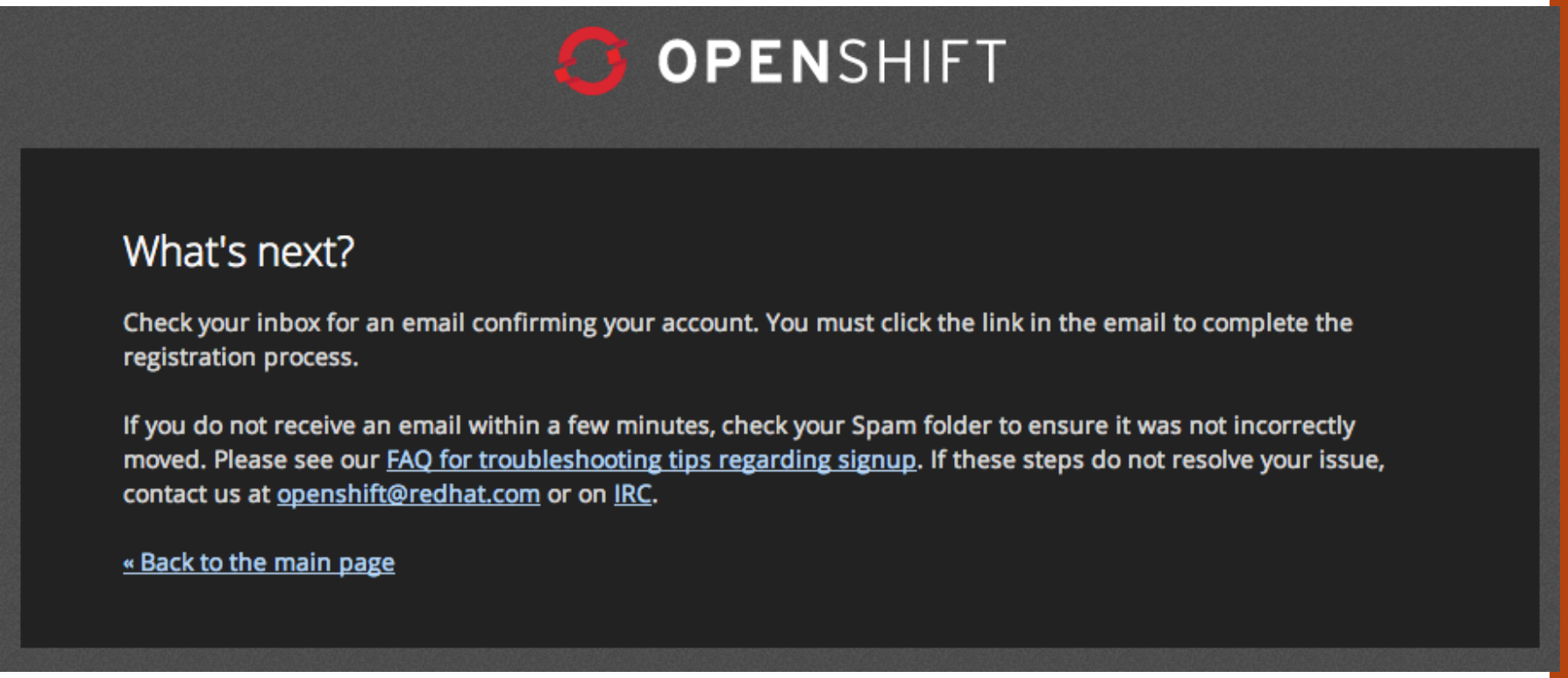
JOIN THE COMMUNITY

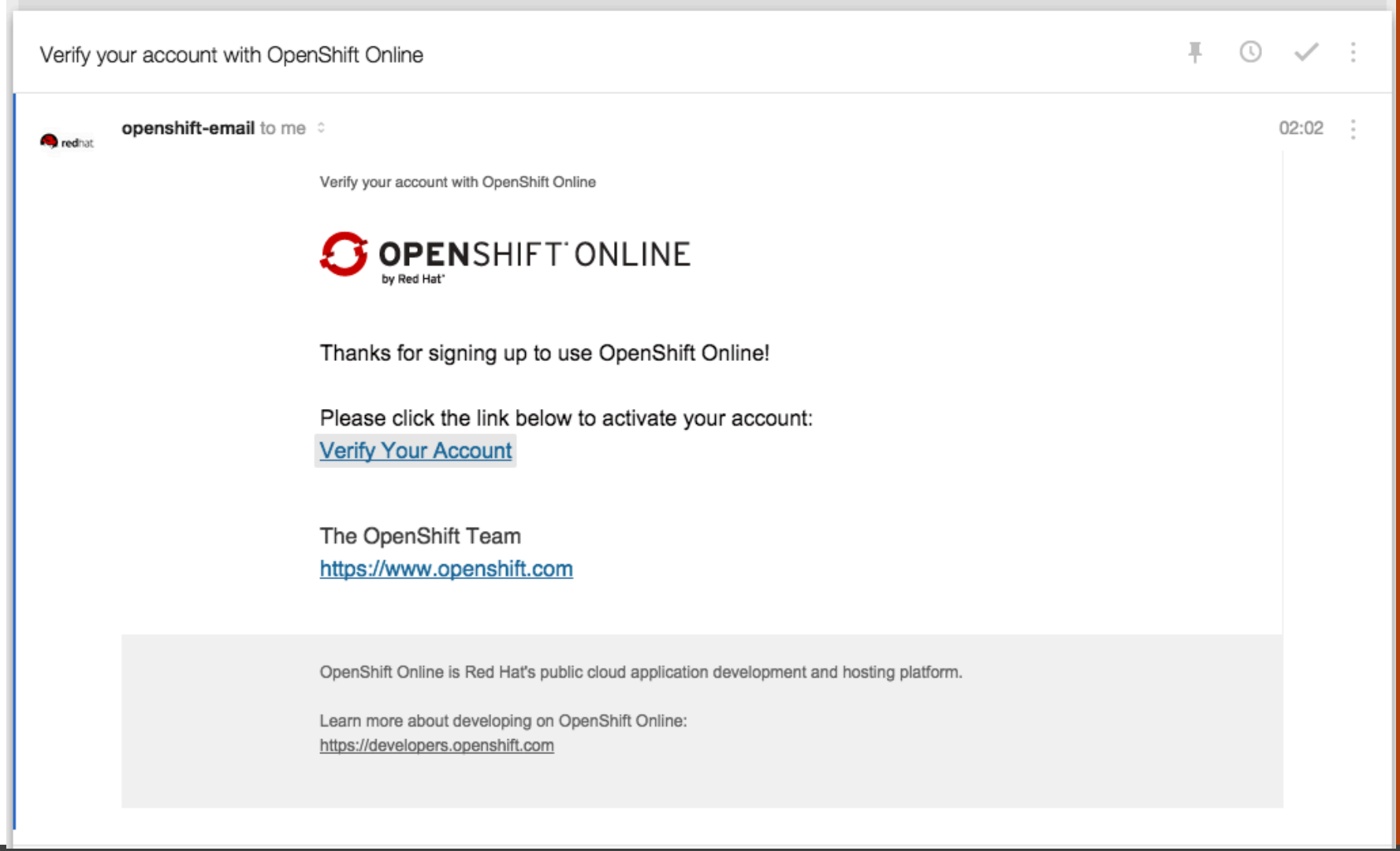
Signup (1)


OPENSHIFT
Create an account
Email address
Valid email address
Password
At least 6 characters
Password confirmation
Enter it again
Are you a spam bot?
Type the words that appear below
Lord
usfatsee
Get Another
Get an audio CAPTCHA
Help
reCAPTCHA provided by Google - help fight spam and fix books!
By signing up you agree to the Terms of Service and the Privacy Policy
Sign Up
Already have an account? Sign in
You'll love OpenShift because it has:
Built-in support for Java, Node.js, Ruby, Python, PHP, Perl and extensible functionality to add other languages.
Powerful command line client tools and a web management console to launch and manage your applications
Pre-created quickstarts to instantaneously boot your favorite application framework
A vibrant community backed by an army of developers, evangelists, and OpenShift devotees.
A wide range of developer resources, including technology specific get started pages, how-to blog posts and videos.
Learn more about OpenShift

Signup (2)

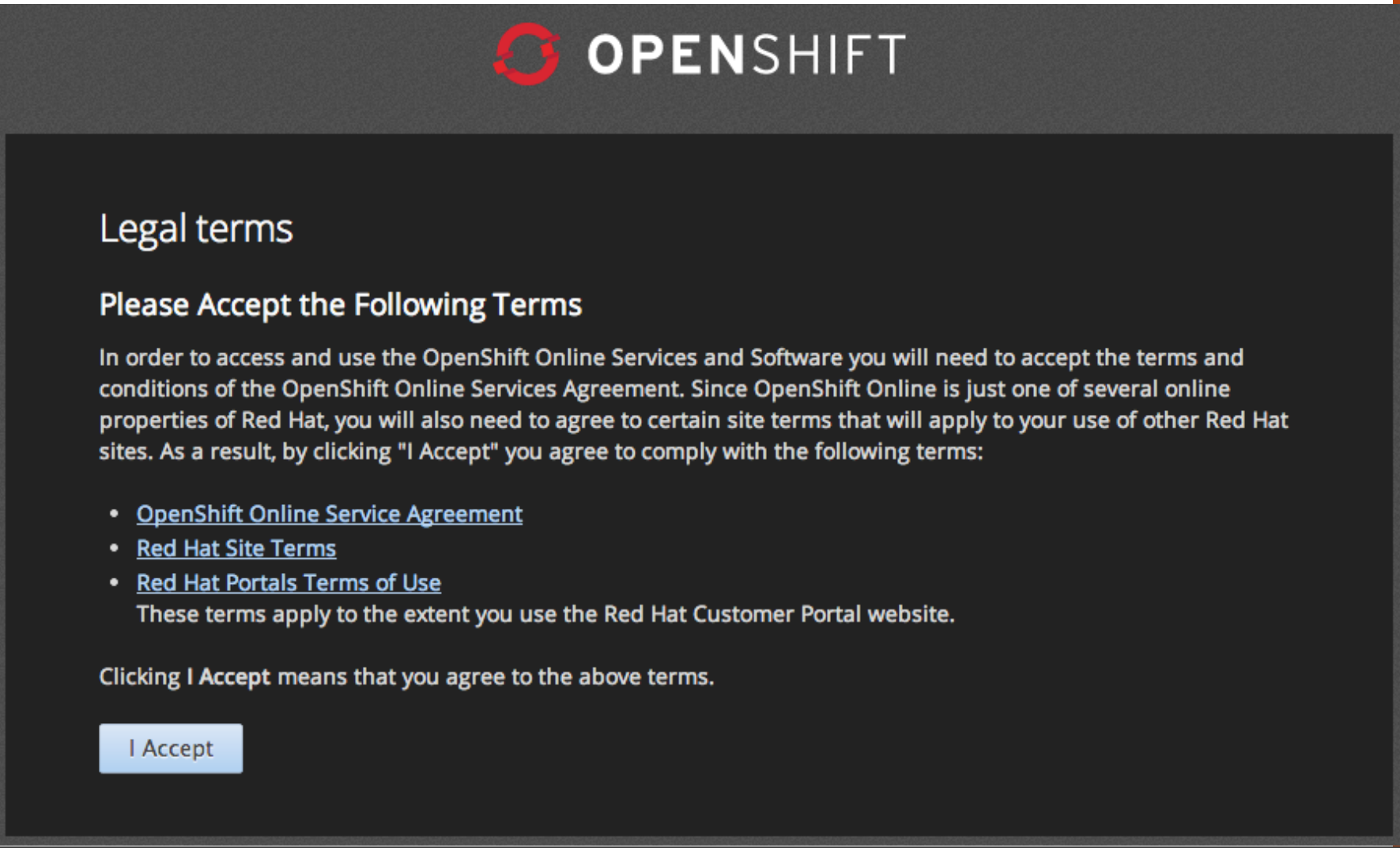

OPENSHIFT
What's next?
Check your inbox for an email confirming your account. You must click the link in the email to complete the registration process.
If you do not receive an email within a few minutes, check your Spam folder to ensure it was not incorrectly moved. Please see our FAQ for troubleshooting tips regarding signup. If these steps do not resolve your issue, contact us at openshift@redhat.com or on IRC.
« Back to the main page

Signup (3)



Signup (4)

Check your email to verify your account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Legal terms
Please Accept the Following Terms
In order to access and use the OpenShift Online Services and Software you will need to accept the terms and conditions of the OpenShift Online Services Agreement. Since OpenShift Online is just one of several online properties of Red Hat, you will also need to agree to certain site terms that will apply to your use of other Red Hat sites. As a result, by clicking "I Accept" you agree to comply with the following terms:
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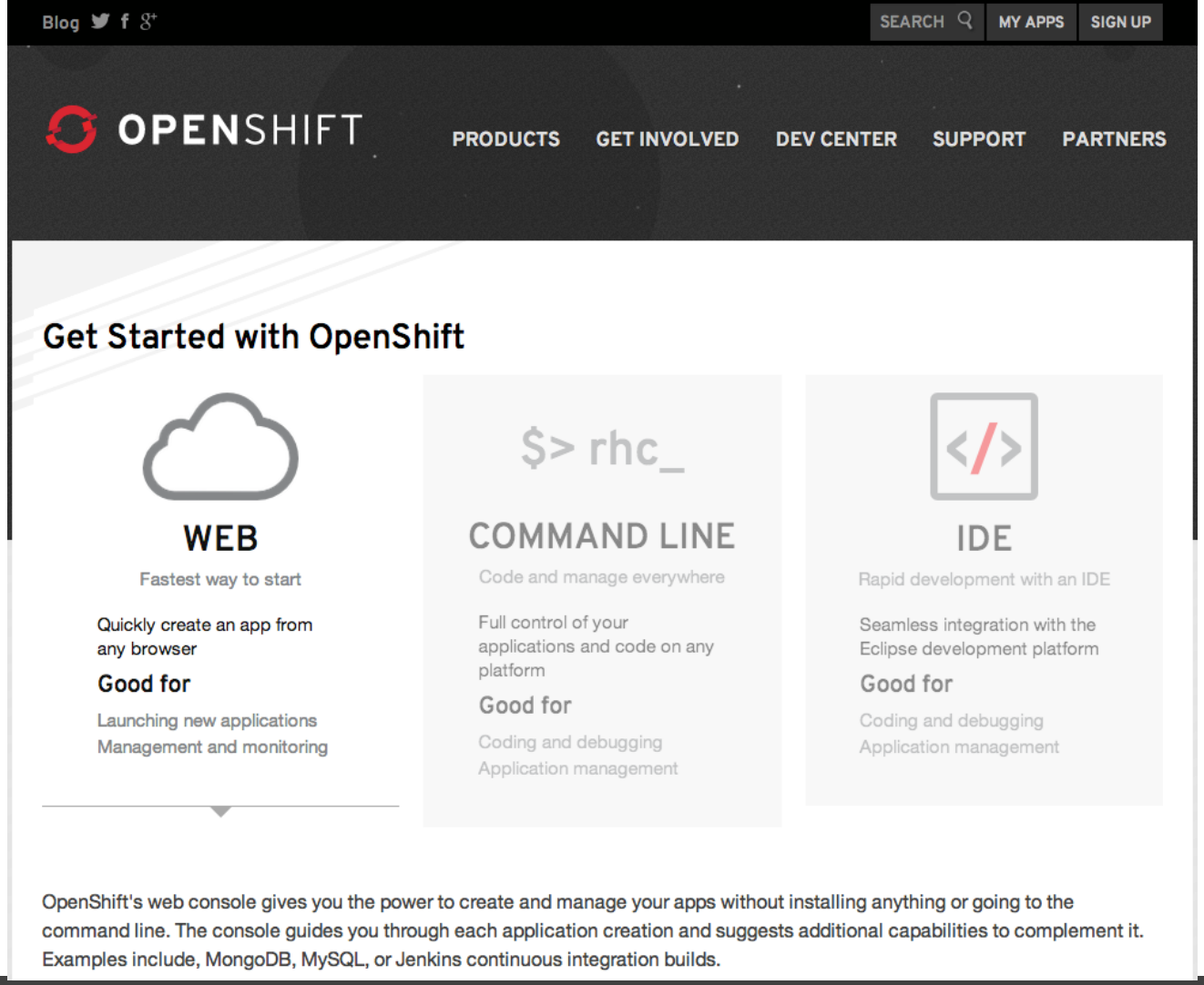
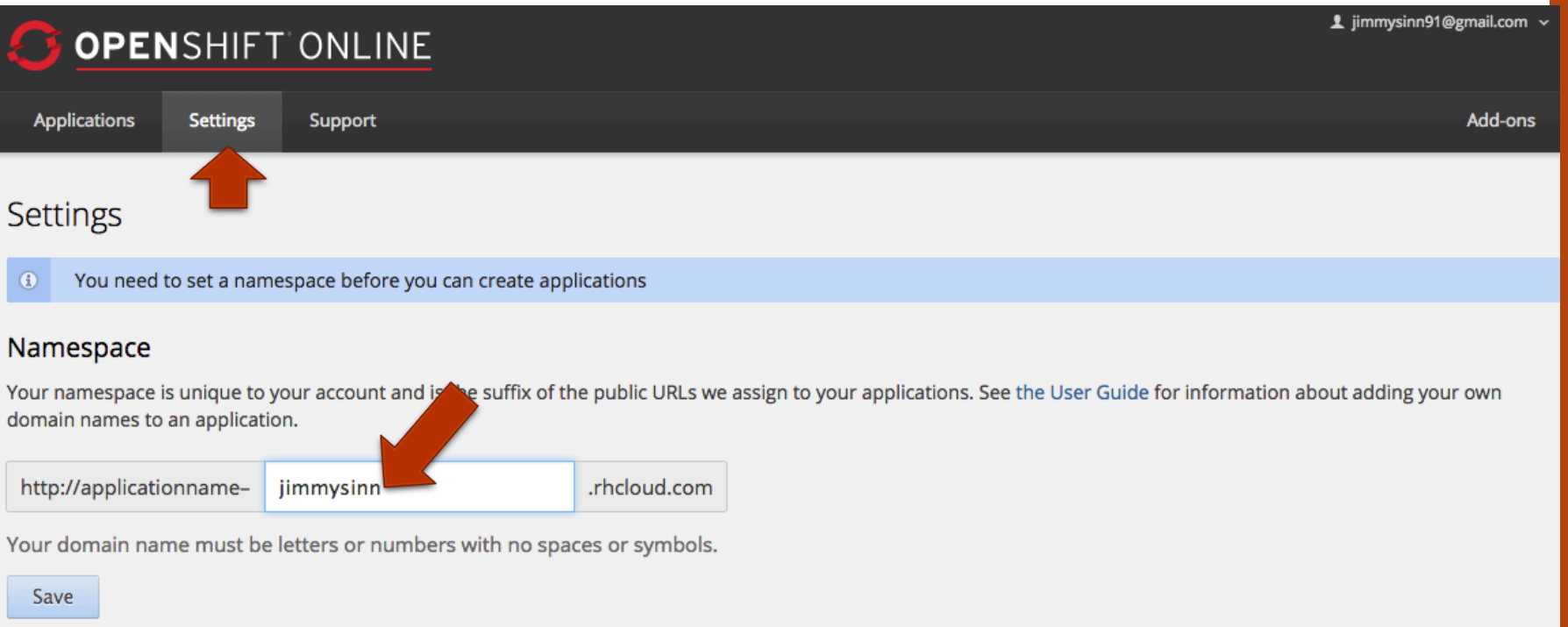
Red Hat Site Terms
Red Hat Portals Terms of Use
These terms apply to the extent you use the Red Hat Customer Portal website.
Clicking I Accept means that you agree to the above terms.
I Accept

Signup (5)



Signup (6)

You are done =D



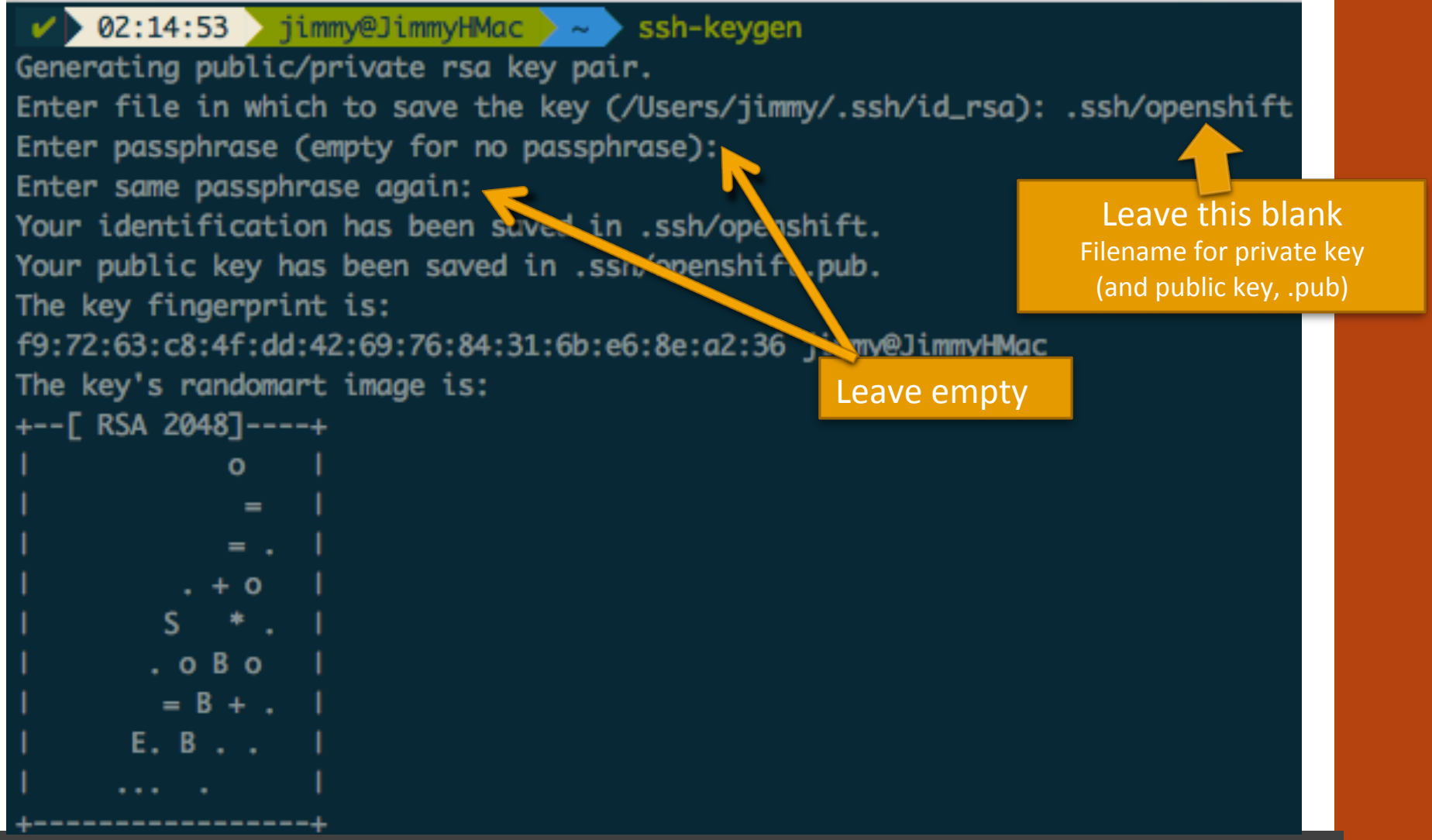
Getting Namespace

Go to “Settings” tab

Setup SSH Key (1)

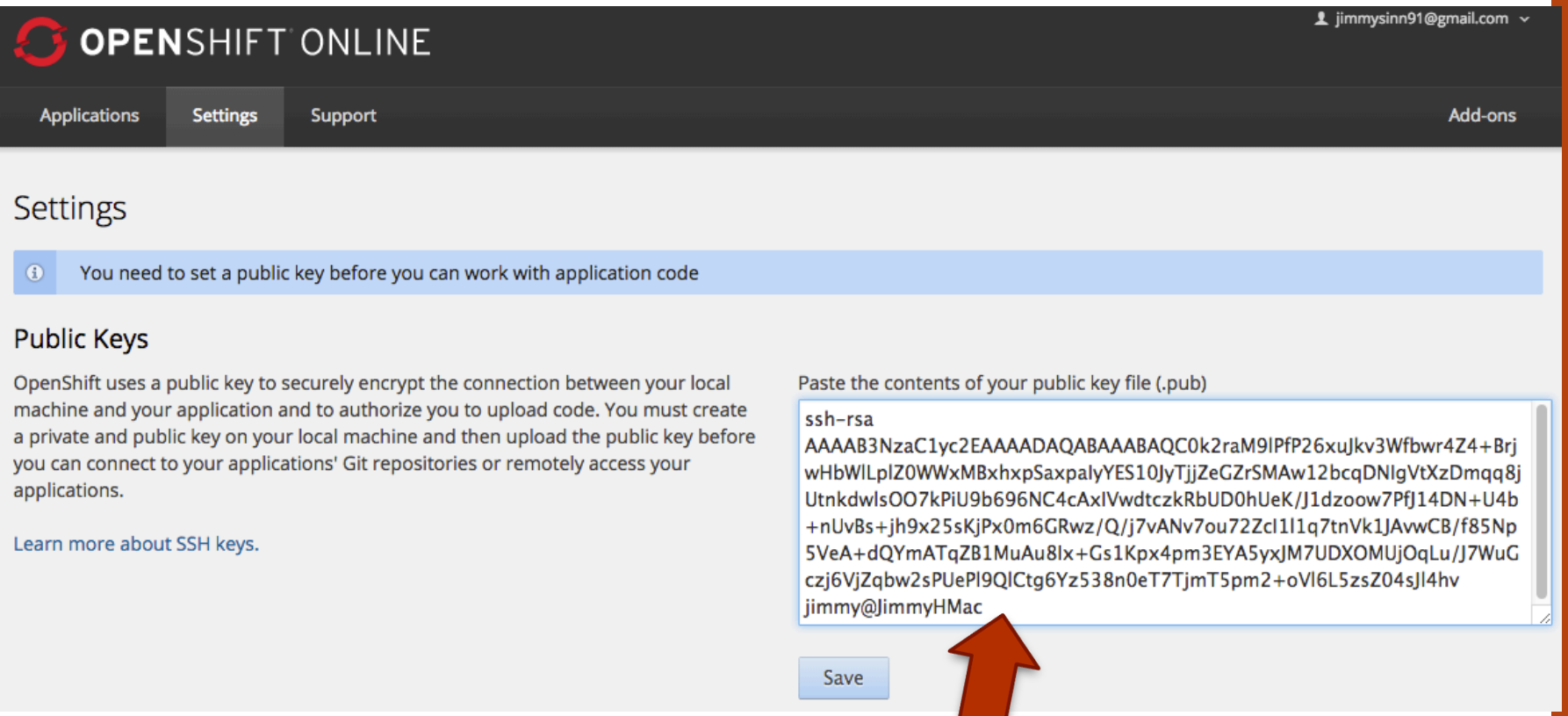
- Prepare SSH key
  - Using `ssh-keygen`
    - Available in department `linux*` and linux / mac machine
  - Using PuTTYgen
    - Get PuTTY / PuTTYgen: http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

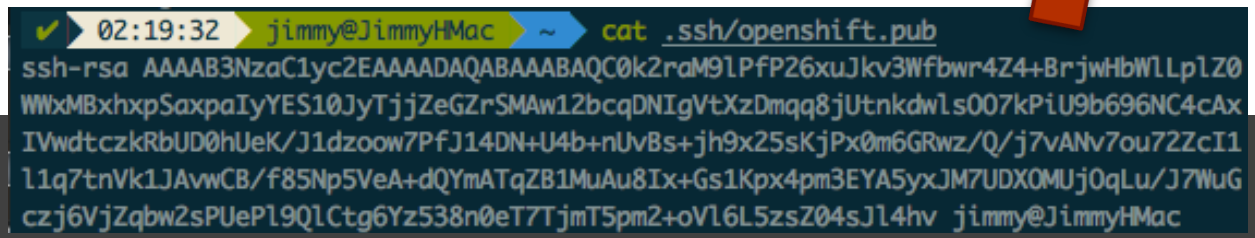
- Get public key and private key pair
  - Upload public key to OpenShift (or other host) only
  - Use private key your own



Setup SSH Key (2)

Generate ssh key by ssh-keygen



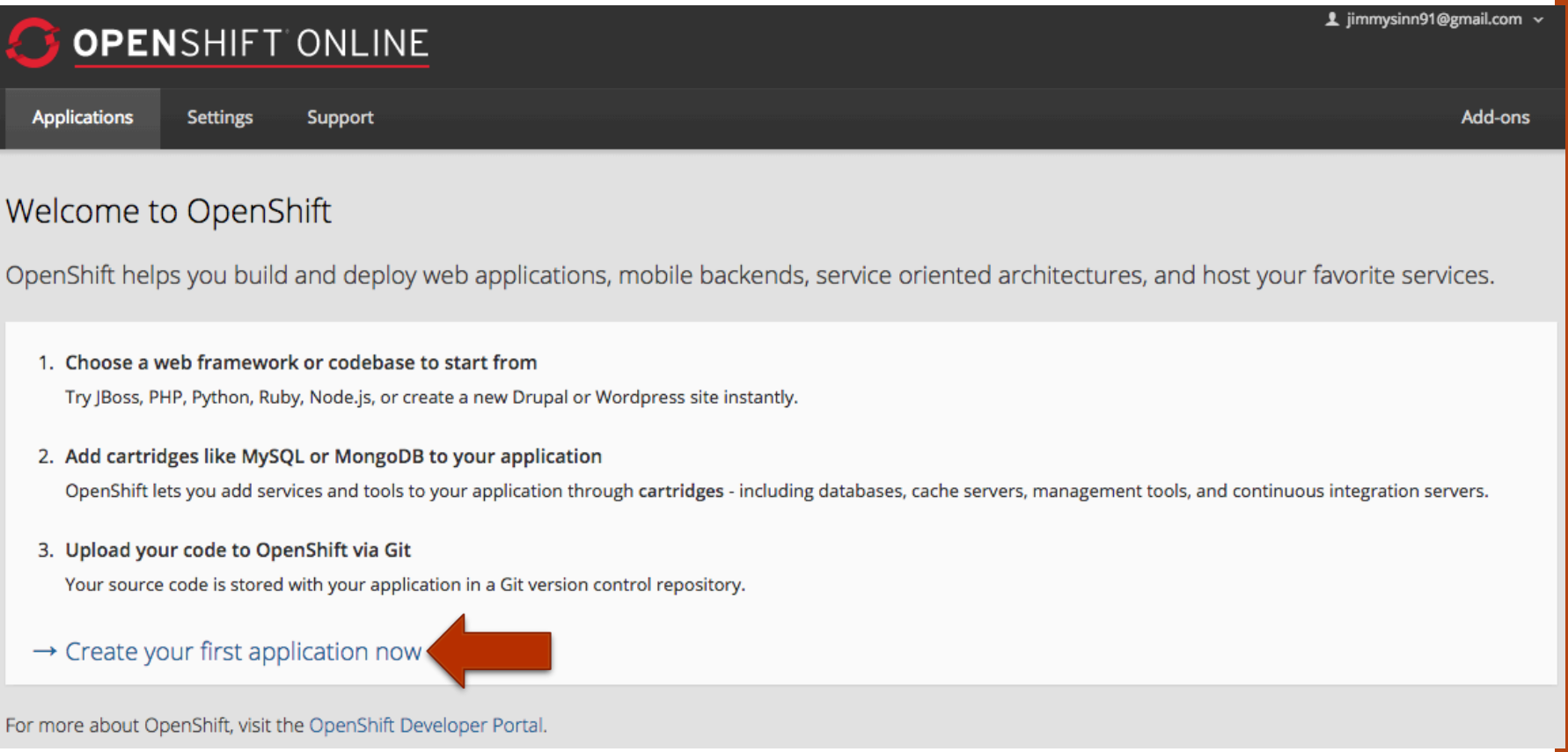


Setup SSH Key (3)

Paste your public key (.pub) to OpenShift website

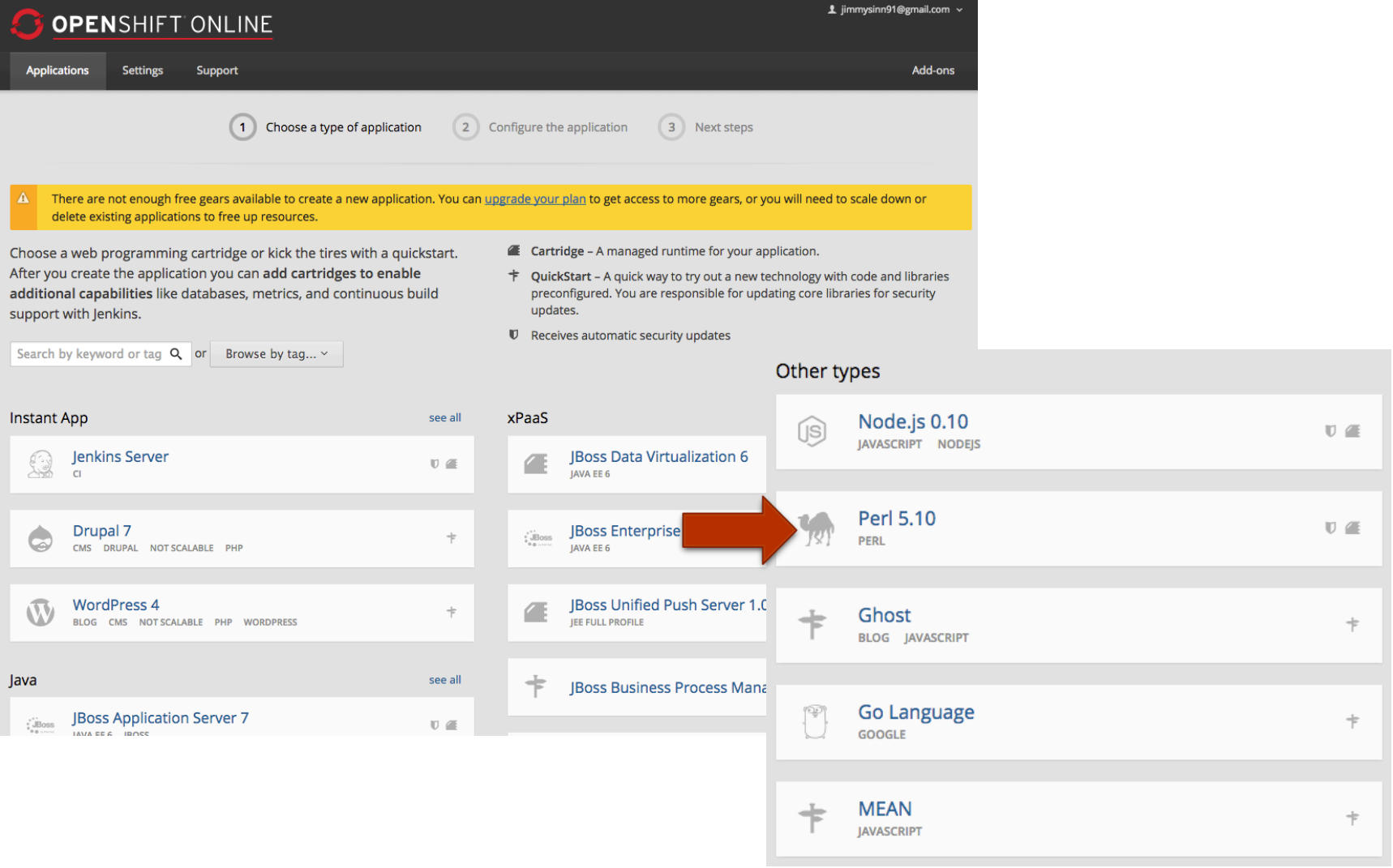
Create Application

OpenShift Demo Part (2)



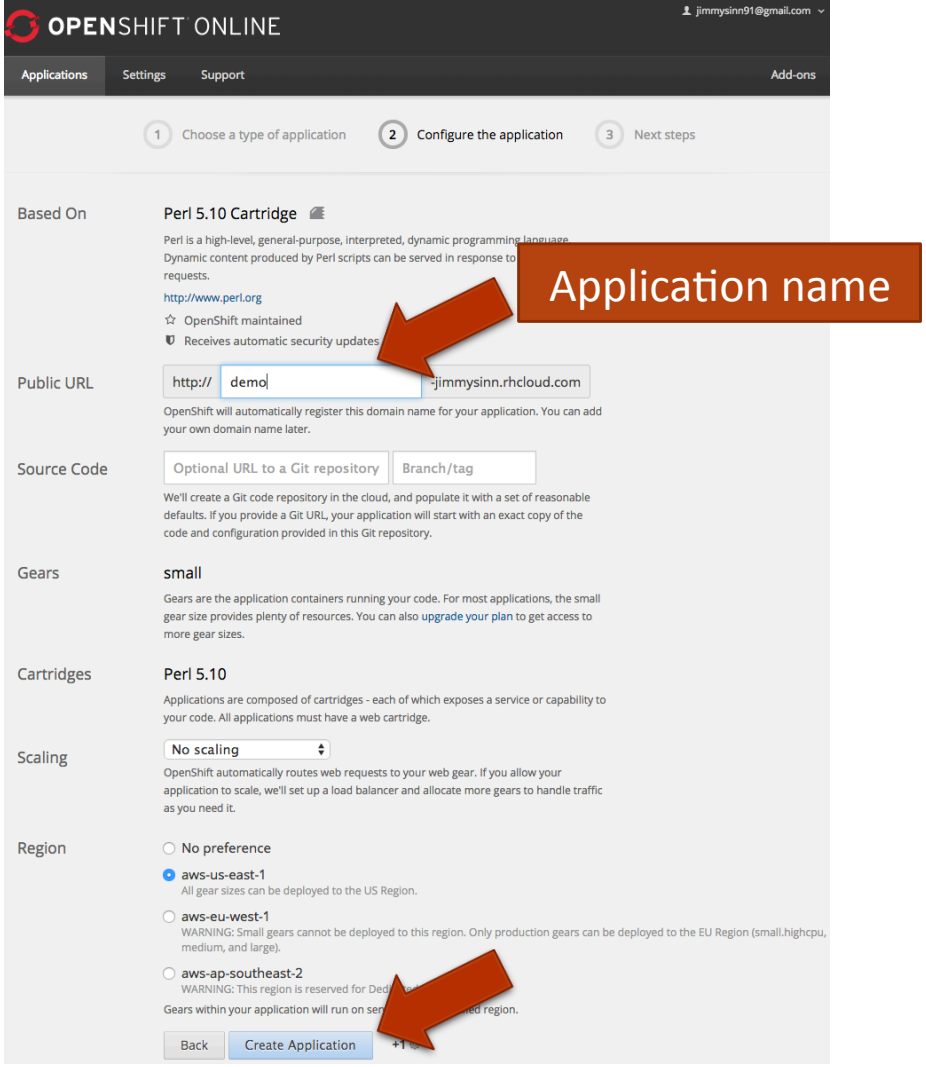
Create Application (1)

Go to “Applications” tab



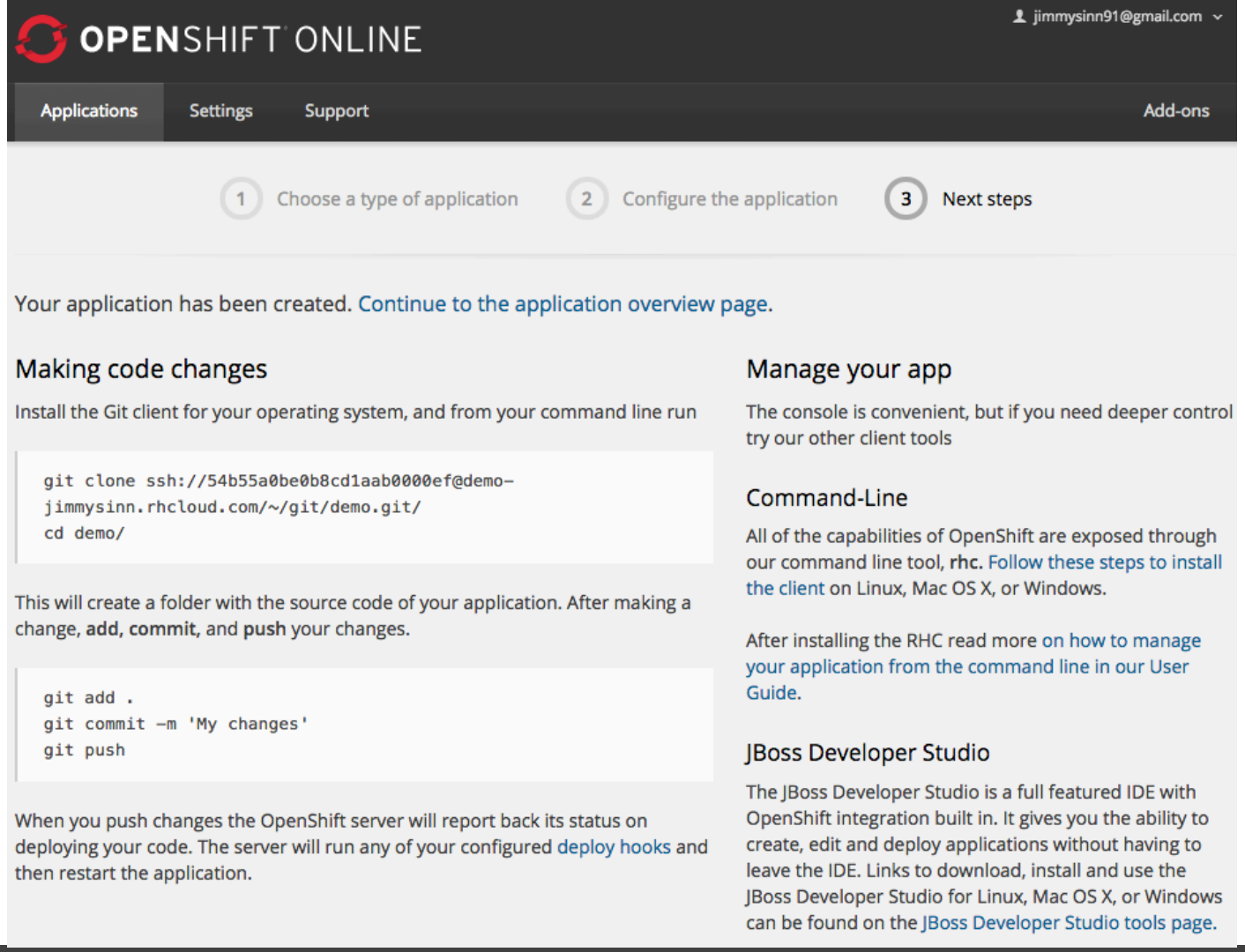
Create Application (2)

Many type available
Choose Perl 5.10



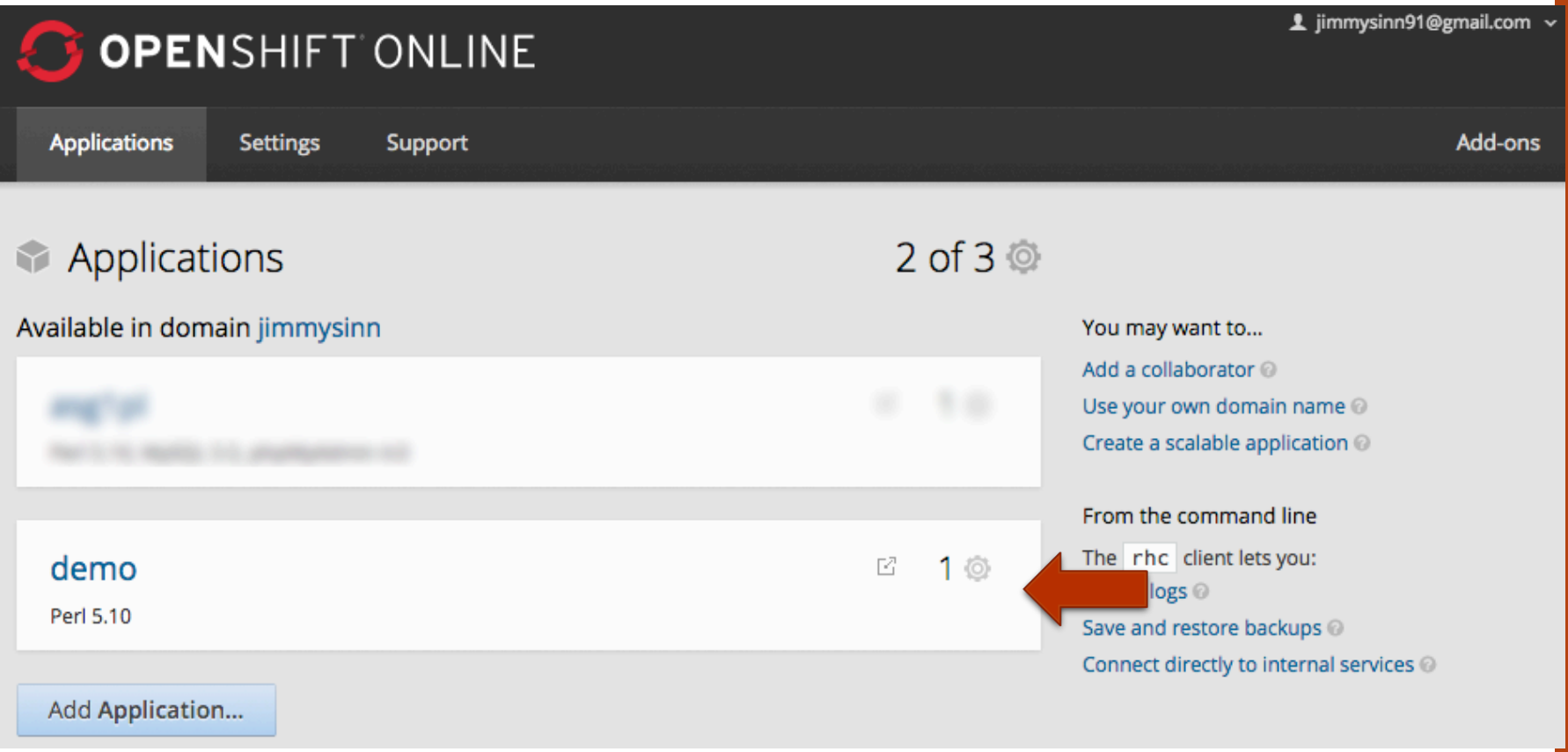
Create Application (3)

Type an application name, then create

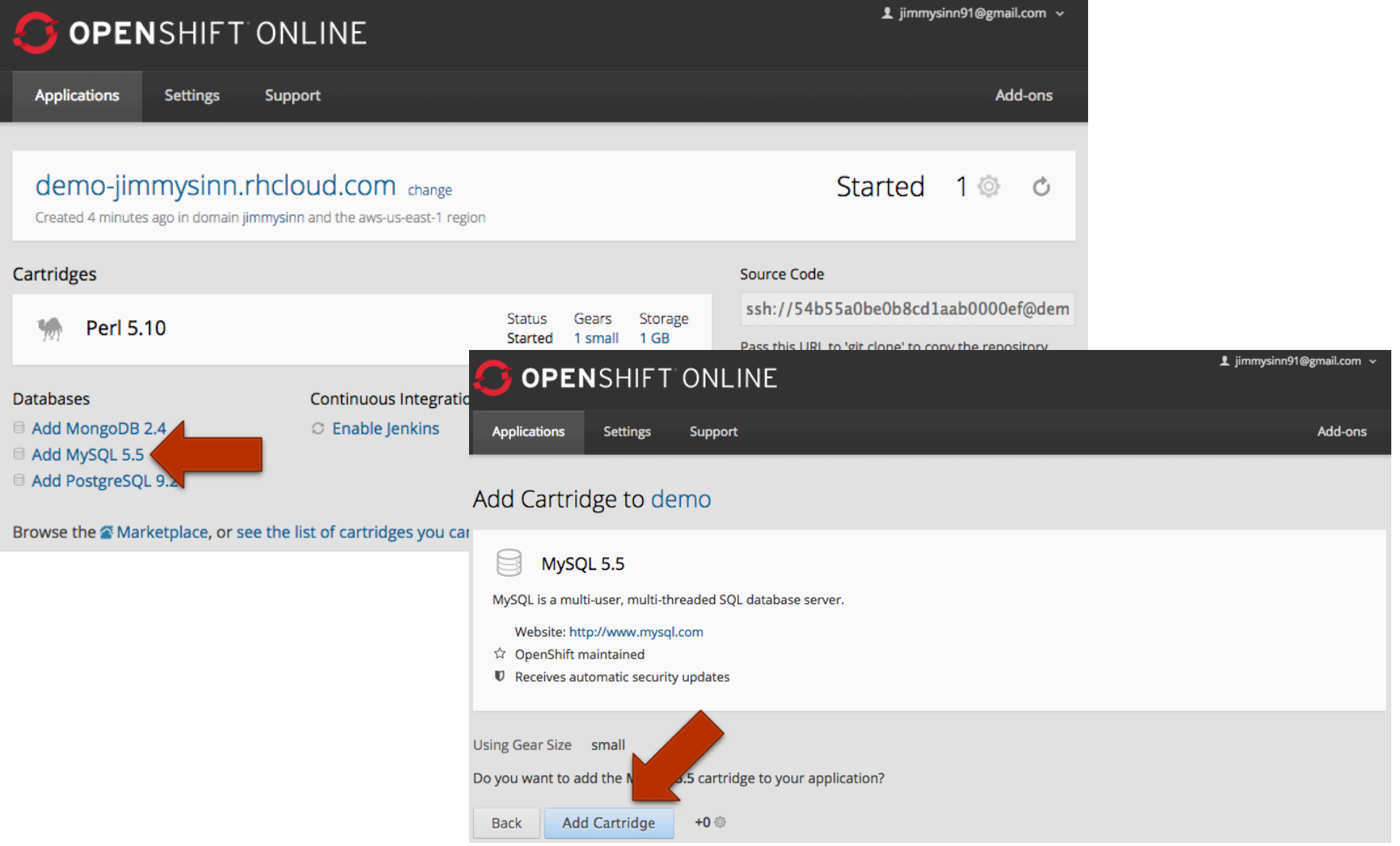


Create Application (4)

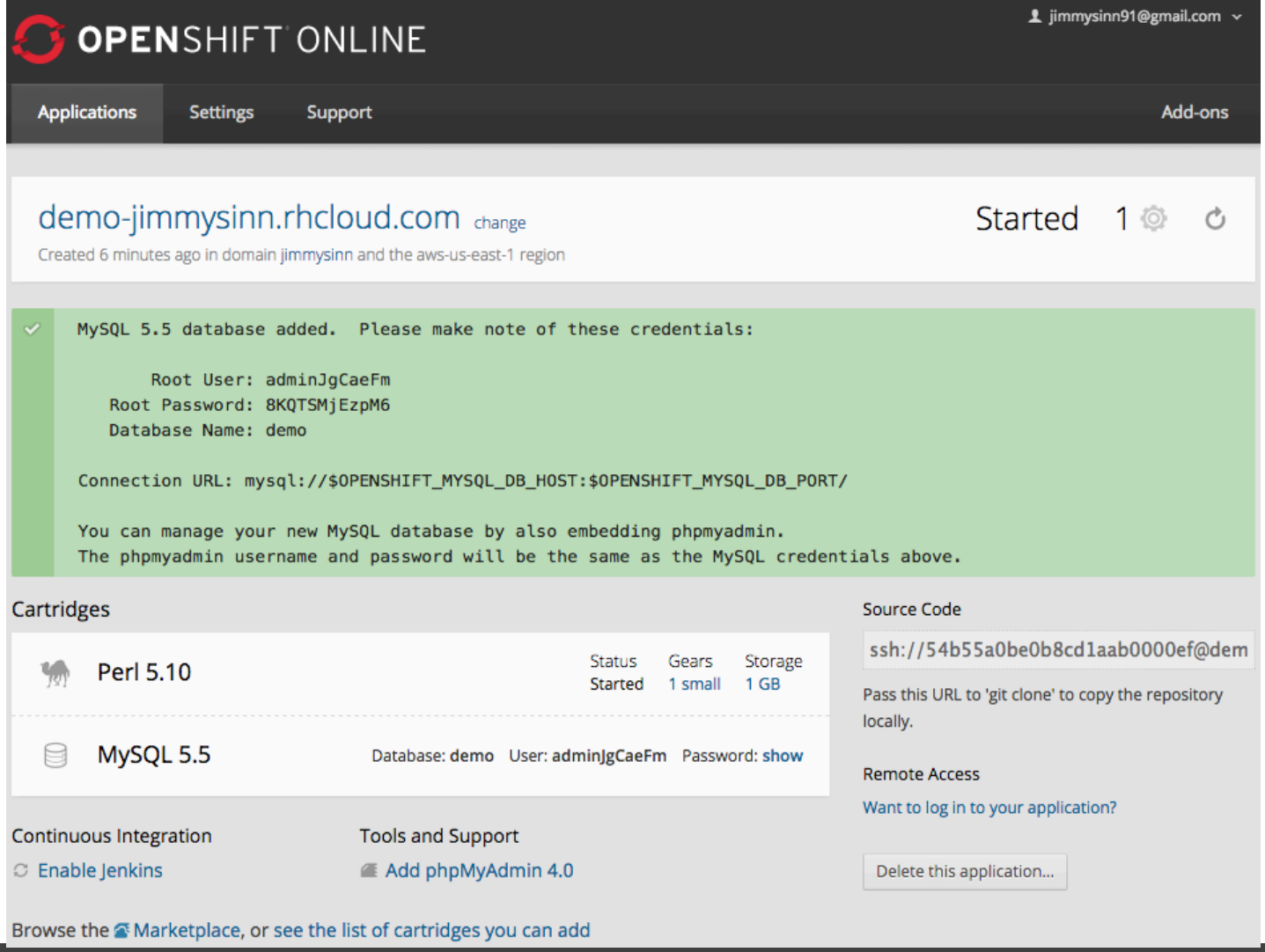
Done ☺



Application Overview

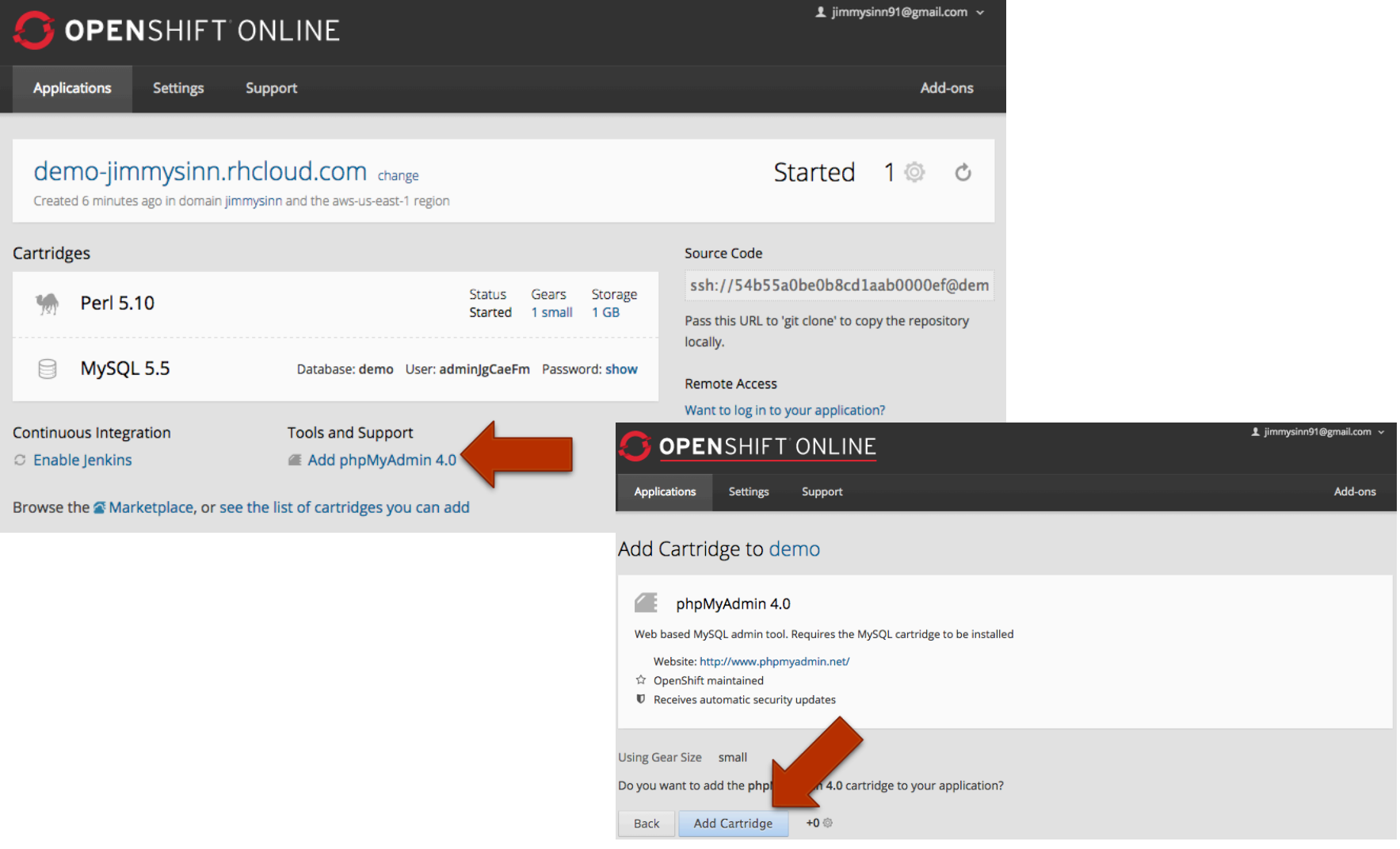


Add Cartridge – MySQL (1)



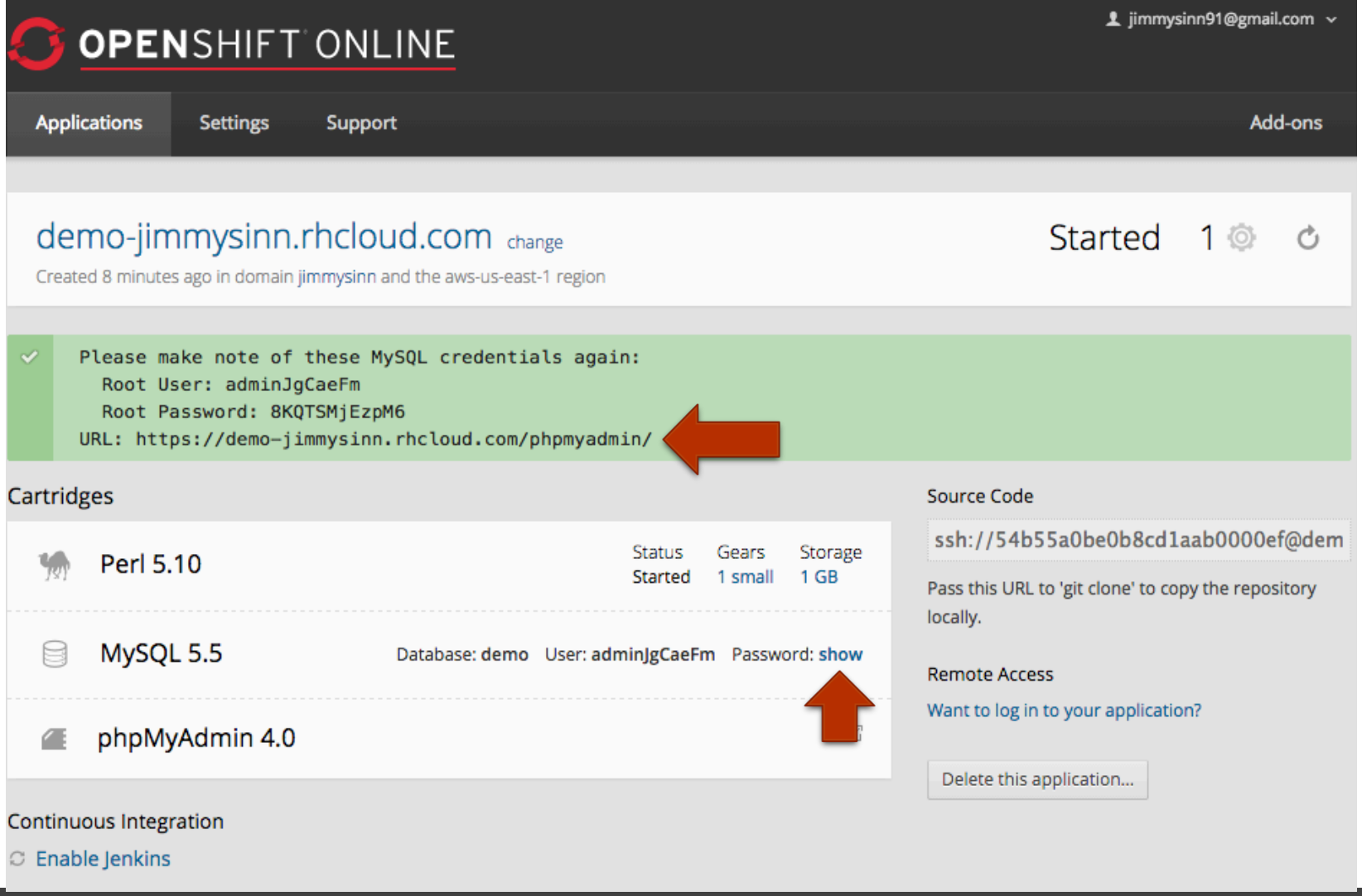
Add Cartridge – MySQL (2)

No need to record username / password …
Use environment variable in your code!



Add Cartridge – phpMyAdmin (1)

Ease your effort in managing MySQL database

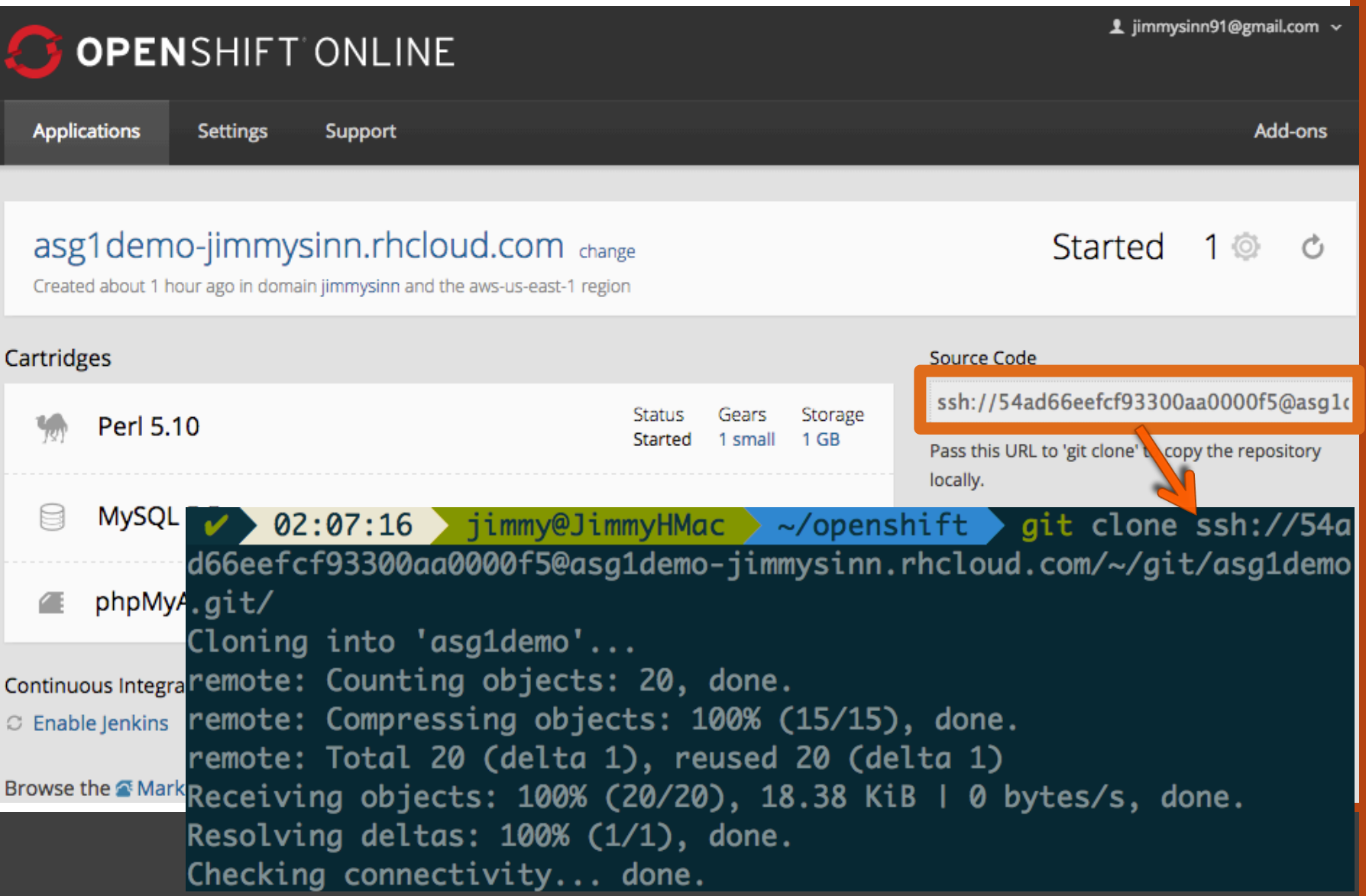


Add Cartridge – phpMyAdmin (2)

You can get the password afterward by “show”

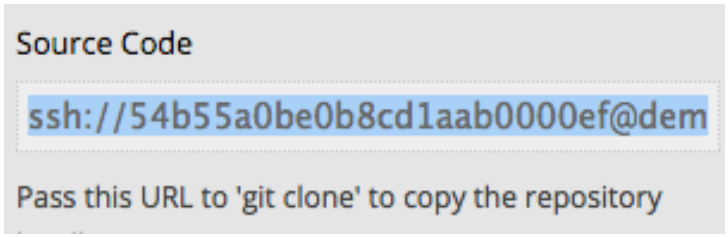
Using OpenShift

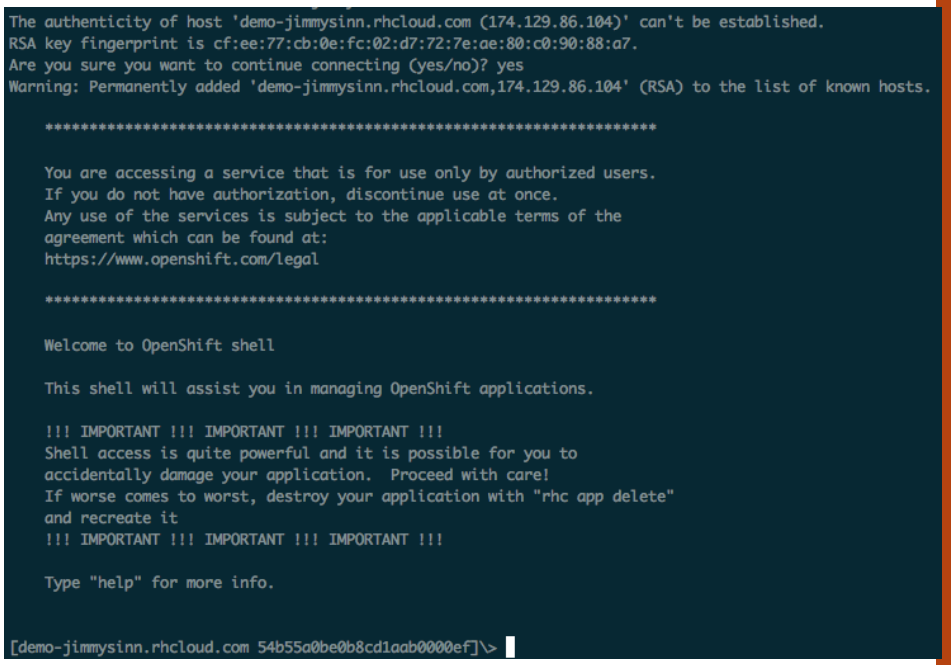
OpenShift Demo Part (3)



Clone Repository to Local Machine

Pass source code URL to git clone





SSH to OpenShift Application

```
✔ 02:16:40 jimmy@JimmyHMac ~/openshift/asg1demo  master cd .openshi
ft/action_hooks
✔ 02:16:47 jimmy@JimmyHMac ~/openshift/asg1demo/.openshift/action_hooks
 master cat > deploy
echo ">> Running deploy script <<"
ln -s ${OPENSHIFT_DATA_DIR} ${OPENSHIFT_REPO_DIR}/data
echo ">> Deploy script done <<"
✘ 02:17:42 jimmy@JimmyHMac ~/openshift/asg1demo/.openshift/action_hooks
 master chmod +x deploy
✔ 02:17:46 jimmy@JimmyHMac ~/openshift/asg1demo/.openshift/action_hooks
 master git add deploy
✔ 02:17:51 jimmy@JimmyHMac ~/openshift/asg1demo/.openshift/action_hooks
 master ✚ git commit -am "Add deploy script"
[master 03fb6c8] Add deploy script
 1 file changed, 3 insertions(+)
✔ 02:18:06 jimmy@JimmyHMac ~/openshift/asg1demo/.openshift/action_hooks
✔ 02:18:09 jimmy@JimmyHMac ~/openshift/asg1demo/.openshift/action_hooks
 master git push
```

Add Action Hook Script

```
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 215 bytes | 0 bytes/s, done.
Total 2 (delta 1), reused 0 (delta 0)
remote: Stopping Perl cartridge
remote: Waiting for stop to finish
remote: Waiting for stop to finish
remote: Stopping MySQL 5.5 cartridge
remote: Stopping PHPMyAdmin cartridge
remote: Waiting for stop to finish
remote: Waiting for stop to finish
remote: Building git ref 'master', commit 8cd43f0
remote: Building Perl cartridge
remote: ***  Installing modules from .openshift/cpan.txt
remote: Preparing build for deployment
remote: Deployment id is ff2b4ca6
remote: Activating deployment
remote: Starting MySQL 5.5 cartridge
remote: Starting PHPMyAdmin cartridge
remote: >> Running deploy script <<
remote: >> Deploy script done <<
remote: Starting Perl cartridge
remote: Application directory "/" selected as DocumentRoot
remote: -------------------------
remote: Git Post-Receive Result: success
remote: Activation status: success
remote: Deployment completed with status: success
To ssh://54ad66eefcf93300aa0000f5@asg1demo-jimmysinn.rhcloud.com/~/git/asg1demo
.git/
   03fb6c8..8cd43f0  master -> master
```

Checking Deploy Script

Find us on Facebook Group!