

# Data Driven Applications

RHTE 2014 – Macau Glenn West

#### Overview

- Hands-on Session
- No programming experience needed
- Uses:
  - Openshift
  - Ruby
  - Ruby On Rails
  - Active Admin

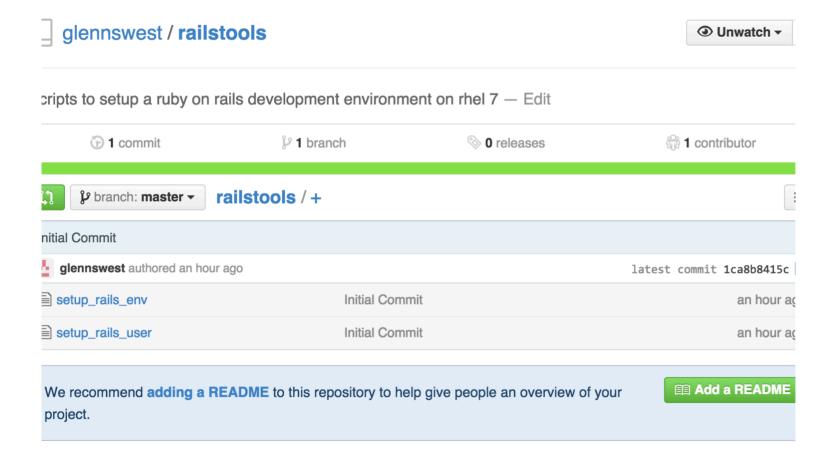
#### What You Need

- Rhel7/Centos 7 (Vm is fine)
- System subscribed to channels and up to date
- Access to RHN and GitHub and Openshift.com
- Openshift Account
- A Laptop
- Root login

# Mhàs

- Need to create a Application Fast?
- Don't want to use Spreedsheet/Excel?
- Want to levarge Openshift for your apps?
- Don't know how to code?
- Want to learn more about Cloud Applications?

# Getting Setup



git clone https://github.com/glennswest/railstools.git

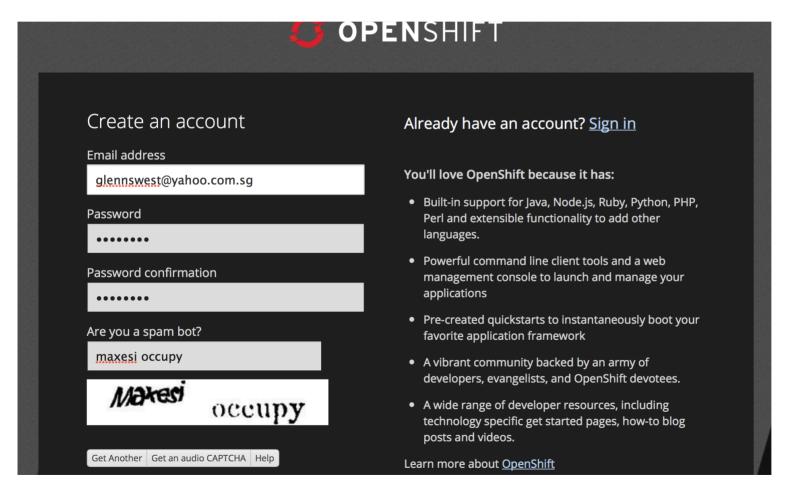
## Setup the environment

- Su root
- yum install git -y
- git clone https://github.com/glennswest/railstools.git
- ./railstools/setup\_rails\_env

# Setup User Env

- As your normal user
- ./railstools/setup\_rails\_user

# Setup OpenShift Account



https://www.openshift.com/app/account/new

### Setup Rhc

[cloud@localhost ~]\$ source .bash\_profile
[cloud@localhost ~]\$ rhc setup
OpenShift Client Tools (RHC) Setup Wizard

This wizard will help you upload your SSH keys, set your application namespace, and check that other programs like Git are properly installed.

If you have your own OpenShift server, you can specify it now. Just hit enter to use the server for OpenShift Online: openshift.redhat.com.

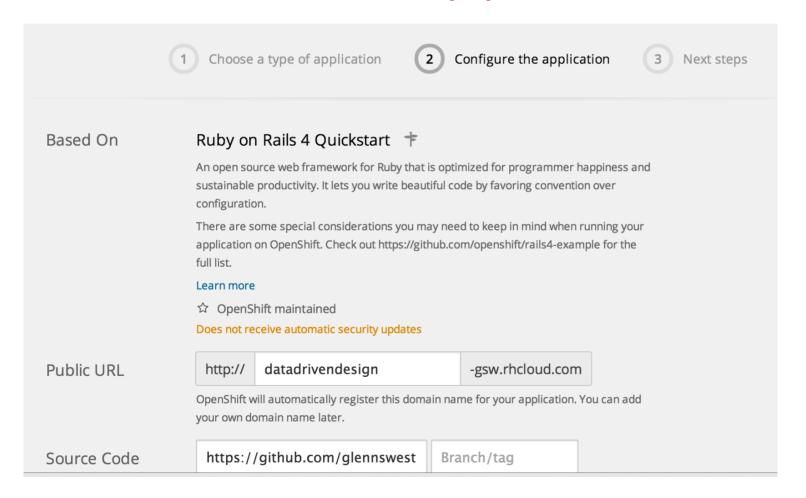
Enter the server hostname: |openshift.redhat.com|

You can add more servers later using 'rhc server'.

OpenShift can create and store a token on disk which allows to you to access the server without using your password. The key is stored in your home directory and should be kept secret. You can delete the key at any time by running 'rhc logout'.

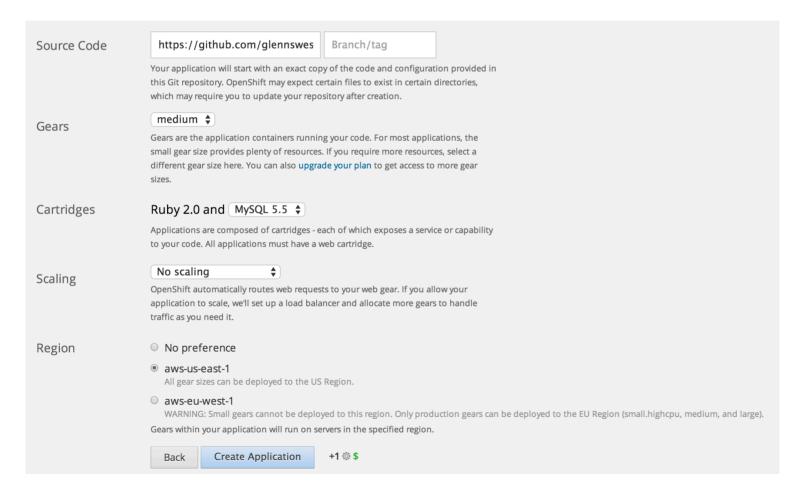
Generate a token now? (yes|no) yes

### Create a new app

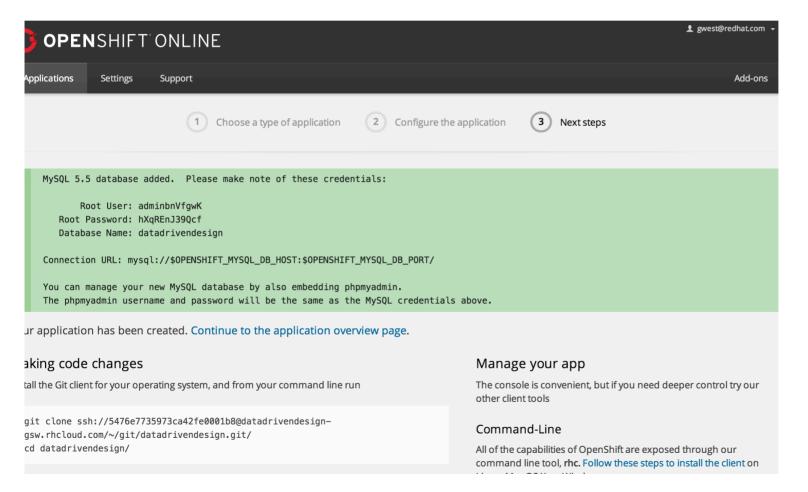


https://github.com/glennswest/datadrivenbase

#### Create a new app



# Clone your app



#### Clone you app

```
datadriven
                 http://datadriven-gsw.rhcloud.com/
  keystoneistest http://keystoneistest-gsw.rhcloud.com/
                 http://test-qsw.rhcloud.com/
  test
  You are using 3 of 15 total gears
  The following gear sizes are available to you: small, medium
Your client tools are now configured.
[cloud@localhost ~]$ git clone ssh://5476e7735973ca42fe0001b8@datadrivendesign-g
sw.rhcloud.com/~/git/datadrivendesign.git/
Cloning into 'datadrivendesign'...
The authenticity of host 'datadrivendesign-gsw.rhcloud.com (23.20.242.119)' can'
t be established.
RSA key fingerprint is cf:ee:77:cb:0e:fc:02:d7:72:7e:ae:80:c0:90:88:a7.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'datadrivendesign-gsw.rhcloud.com.23.20.242.119' (RSA
) to the list of known hosts.
remote: Counting objects: 180, done.
remote: Compressing objects: 100% (117/117), done.
remote: Total 180 (delta 49), reused 180 (delta 49)
Receiving objects: 100% (180/180), 505.65 KiB | 153.00 KiB/s, done.
Resolving deltas: 100% (49/49), done.
[cloud@localhost ~]$
```

#### **Bundle Install**

■ Execute "bundle install"

```
Source 'https://rubygems.org'
# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '4.1.6'
# Use sqlite3 as the database for Active Record
gem 'sqlite3'
# Use CoffeeScript for .js.coffee assets and views
gem 'coffee-rails', '~> 4.0.0'
# See https://github.com/sstephenson/execjs#readme for more supported runtimes
# gem 'therubyracer', platforms: :ruby
# Use jquery as the JavaScript library
gem 'jquery-rails'
# Turbolinks makes following links in your web application faster. Read more: ht
tps://github.com/rails/turbolinks
gem 'turbolinks'
# Build JSON APIs with ease. Read more: https://github.com/rails/jbuilder
gem 'jbuilder', '~> 2.0'
# bundle exec rake doc:rails generates the API under doc/api.
gem 'sdoc', '~> 0.4.0',
                                group: :doc
# Spring speeds up development by keeping your application running in the backgr
ound. Read more: https://github.com/rails/spring
#gem 'spring',
                     group: :development
# Use ActiveModel has_secure_password
# gem 'bcrypt', '~> 3.1.7'
# Use unicorn as the app server
# gem 'unicorn'
# Use Capistrano for deployment
# gem 'capistrano-rails', group: :development
# Use debugger
# gem 'debugger', group: [:development, :test]
gem 'devise', '3.3.0'
gem 'therubyracer'
gem 'activeadmin', github: 'activeadmin/activeadmin'
gem 'mysql2'
"Gemfile" 40L, 1313C
```

#### Data Types

- :binary
- :boolean
- :date
- :datetime
- :decimal
- :float
- :integer
- :primary\_key
- :references
- :string
- :text
- :time
- :timestamp

[cloud@localhost testit]\$ rails generate model product name:string description:text
 invoke active\_record
 create db/migrate/
20141203031945\_create\_products.rb
 create app/models/product.rb
 invoke test\_unit
 create test/models/product\_test.rb
 create test/fixtures/products.yml
[cloud@localhost testit]\$

#### Migration – rake db:migrate

```
rake [cloud@localhost testit] rake db:migrate
== 20141126072949 DeviseCreateAdminUsers: migrating ===========================
-- create_table(:admin_users)
  -> 0.0024s
-- add_index(:admin_users, :email, {:unique=>true})
  -> 0.0005s
-- add_index(:admin_users, :reset_password_token, {:unique=>true})
  -> 0.0005s
== 20141126072949 DeviseCreateAdminUsers: migrated (0.0035s) ==================
== 20141126072954 CreateActiveAdminComments: migrating ========================
-- create_table(:active_admin_comments)
  -> 0.0010s
-- add_index(:active_admin_comments, [:namespace])
  -> 0.0003s
-- add index(:active admin comments, [:author type, :author id])
  -> 0.0004s
-- add_index(:active_admin_comments, [:resource_type, :resource_id])
  -> 0.0005s
== 20141126072954 CreateActiveAdminComments: migrated (0.0024s) ===========
-- create_table(:products)
  -> 0.0009s
== 20141203031945 CreateProducts: migrated (0.0009s) ===========================
[cloud@localhost testit]$
```



[cloud@localhost testit]\$ rails generate
active\_admin:resource product
 create app/admin/products.rb
[cloud@localhost testit]\$



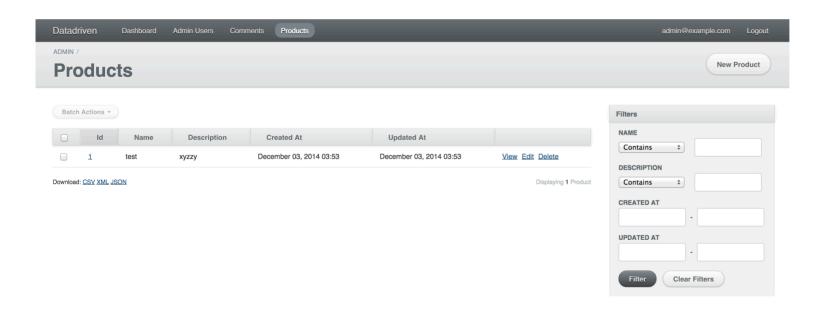
Execute:

git add -all

git commit –a –m "Add product screen and table"

git push origin master

#### Result



Powered by Active Admin 1.0.0.pre

### Advanced Reading

- Activeadmin Screens Menus all extensible
- Devise Authentication Fully customizable
- Rails Migrations http://guides.rubyonrails.org/migrations.html