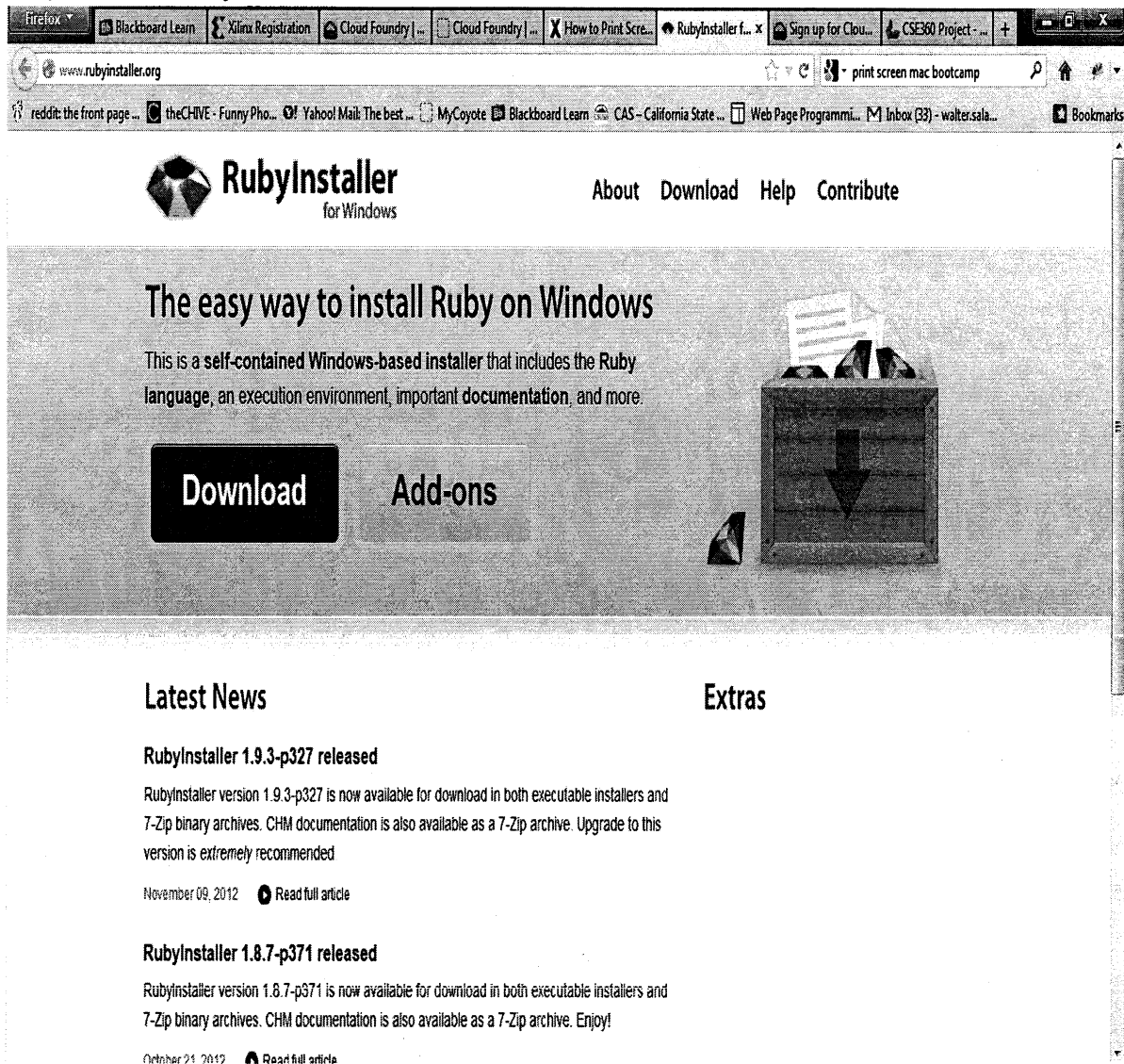


CSE 360: Presentation: Cloud Foundry

Setting up Cloud Foundry Server using Ruby with Rails

Step 1. Register for a free account at <http://my.cloudfoundry.com/signup>

Step 2. Install Ruby Installer



Step 3. Once you have installed Ruby and RubyGems on your computer open the application and run the command

```
prompt> gem install vmc
```

Step 4. Once vmc has been installed you need to connect to cloud foundry using the command

```
prompt> vmc target http://api.cloudfoundry.com
```

prompt> vmc login

(this will ask for the email that your registered with in in step 1 and the password that was emailed to you)



Step 5. Now that you are logged into your Cloud Foundry you can now upload applications from your computer. In this guide we will be uploading a rails application. To install rails you must use VMC. While in vmc, you need to make sure you are in the correct directory to download rails so you know where it is located.

prompt> cd Documents

prompt> mkdir app

prompt> cd app

Step 6: Once in the correct directory in vmc, download rails using the command

prompt> gem install rails

Step 7: With rails installed, you can now create an application, use the command

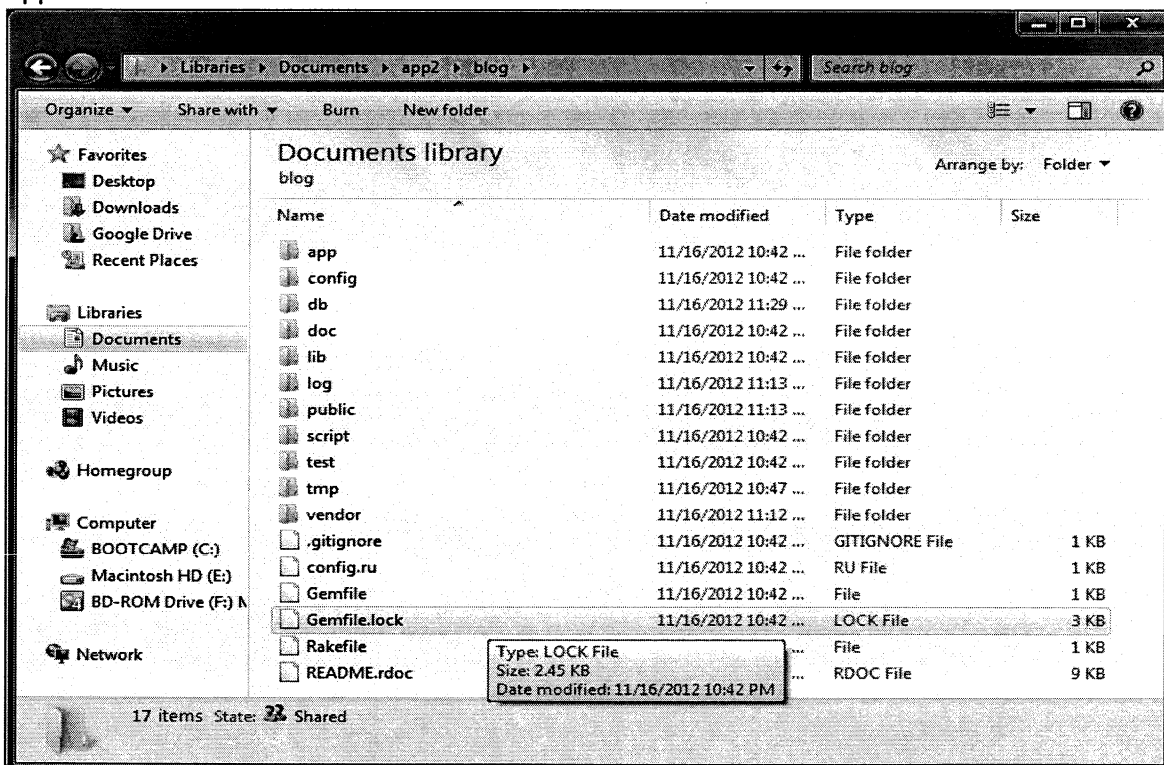
prompt> rails new blog

```
Start Command Prompt with Ruby

Using actionmailer (3.2.9)
Using arel (3.0.2)
Using tzinfo (0.3.35)
Using activerecord (3.2.9)
Using activerecord (3.2.9)
Using bundler (1.2.2)
Using coffee-script-source (1.4.0)
Using execjs (1.4.0)
Using coffee-script (2.2.0)
Using rack-ssl (1.3.2)
Using json (1.7.5)
Using rdoc (3.12)
Using thor (0.16.0)
Using railties (3.2.9)
Using coffee-rails (3.2.2)
Installing jquery-rails (2.1.4)
Using rails (3.2.9)
Using sass (3.2.3)
Using sass-rails (3.2.5)
Using sqlite3 (1.3.6)
Using uglifier (1.3.0)
Your bundle is complete! Use 'bundle show [gemname]' to see where a bundled gem
is installed.

C:\Users\Walter\Documents\app>
```

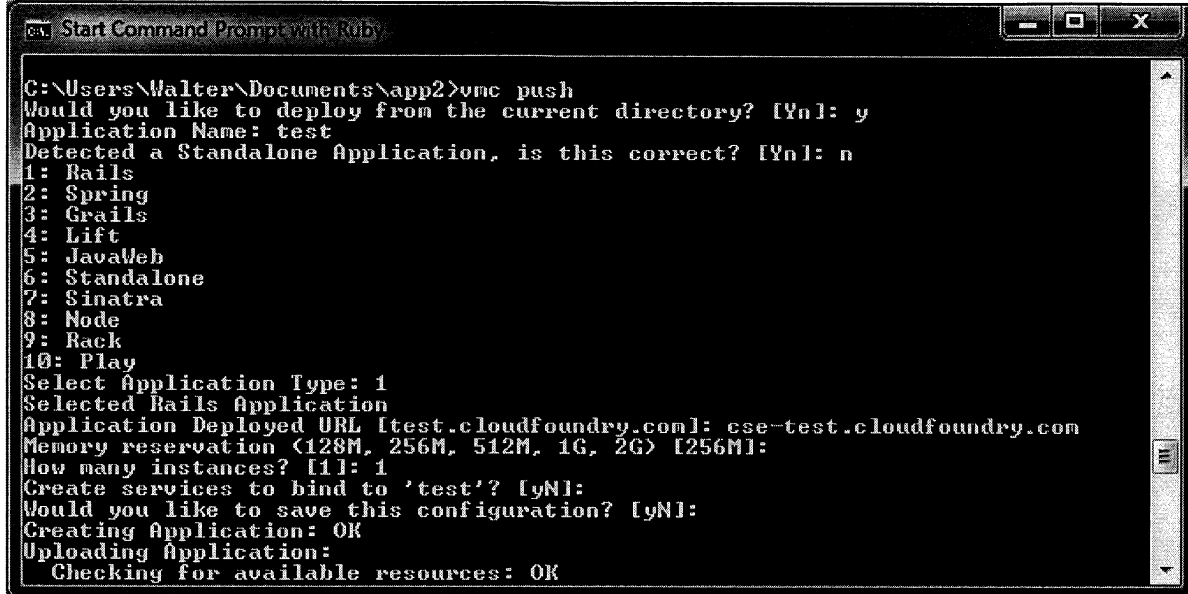
Step 7. You can now access the blog folder and you can see it has multiple files and folders in it. These files can be edited using a simple wordpad application



Step 8: Once you have edited the files you can now upload the application to Cloud Foundry. You can use the command

```
prompt> vmc push
```

Make sure you are in the blog directory and follow the prompts in the vmc terminal



```
C:\Users\Walter\Documents\app2>vmc push
Would you like to deploy from the current directory? [Yn]: y
Application Name: test
Detected a Standalone Application, is this correct? [Yn]: n
1: Rails
2: Spring
3: Grails
4: Lift
5: JavaWeb
6: Standalone
7: Sinatra
8: Node
9: Rack
10: Play
Select Application Type: 1
Selected Rails Application
Application Deployed URL [test.cloudfoundry.com]: cse-test.cloudfoundry.com
Memory reservation <128M, 256M, 512M, 1G, 2G> [256M]:
How many instances? [1]: 1
Create services to bind to 'test'? [Yn]:
Would you like to save this configuration? [Yn]:
Creating Application: OK
Uploading Application:
Checking for available resources: OK
```

Step 9. If the application was uploaded correctly you should be able to see the application running using the command

```
prompt> vmc apps
```



```
C:\Users\Walter\Documents\app2>vmc apps

+-----+-----+-----+-----+-----+
| Application | # | Health | URLS | Services |
+-----+-----+-----+-----+-----+
| hello       | 1 | RUNNING | hello-wally.cloudfoundry.com |          |
| noscope     | 1 | STOPPED | noscope-test.cloudfoundry.com |          |
| rails       | 1 | RUNNING | cse360-rails.cloudfoundry.com |          |
+-----+-----+-----+-----+-----+

C:\Users\Walter\Documents\app2>
C:\Users\Walter\Documents\app2>vmc apps

+-----+-----+-----+-----+-----+
| Application | # | Health | URLS | Services |
+-----+-----+-----+-----+-----+
| hello       | 1 | RUNNING | hello-wally.cloudfoundry.com |          |
| noscope     | 1 | STOPPED | noscope-test.cloudfoundry.com |          |
| rails       | 1 | RUNNING | cse360-rails.cloudfoundry.com |          |
+-----+-----+-----+-----+-----+

C:\Users\Walter\Documents\app2>
```

Step 10. You can now test the application at the URL that was given to it. In this guide you can to cse360-rails.cloudfoundry.com on your preferred web browser.

## Use Micro Cloud Foundry with Spring Tool Suite

Micro Cloud Foundry is a downloadable version of Cloud Foundry that can run on a developer's computer. Micro Cloud Foundry contains a version of the Cloud Foundry software and offers symmetry with other instances of Cloud Foundry.

The Micro Cloud Foundry virtual machine connects to VMware servers to set up DNS for your application. This is accomplished by using a configuration token, which is generated for you when you visit the Micro Cloud Foundry Web site at <https://micro.cloudfoundry.com/dns>. The generated DNS token is good for one use; if your network changes, you must return to the Micro Cloud Foundry Web site, generate a new token, and, in the Micro Cloud Foundry virtual machine to reconfigure your domain.

### *Software needed:*

1. VMware player
2. Micro Cloud Foundry virtual image
3. Spring Tool Suite (based on Eclipse Juno)
4. Java Development Kit

### *Steps:*

1. Create a free account with Cloud Foundry
2. Install VMware Player
3. Login into Cloud Foundry and reserve your domain and create configuration token
4. Download Micro Cloud Foundry virtual image
5. Start the Micro Cloud Foundry virtual image and configure (you will need to enter the configuration token that is given to you when you reserved your domain)
6. Test your configuration by starting your Internet browser and going to `api.nameofapp.cloudfoundry.me`
7. Download, install, and start Spring Tool Suite (you will need a Java Development Kit and point to its path during installation)
8. Create a workspace folder
9. Install Cloud Foundry Integration Extension and then restart Spring Tool Suite
10. Setup your Micro Cloud Foundry server by right-clicking server box > new > server
11. In the Server's host name box type in your Micro Cloud Foundry domain name
12. Drag project to the server choose a name and finish

For more instructions visit: <http://docs.cloudfoundry.com/infrastructure/micro/mcf.html>