

Mobile Applications Development

Higher Diploma in Science in Computer Science

Produced
by

Eamonn de Leastar (edeleastar@wit.ie)

Department of Computing, Maths & Physics
Waterford Institute of Technology

<http://www.wit.ie>

<http://elearning.wit.ie>



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE



Play->Cloudbees Recap

Cloudbees

Sign Up for CloudBees

Email *

Company Name (Optional)

First Name *

Last Name *

Password *

Confirm Password *

At least 8 characters

Forge Username *

What is this?

Domain/Account *

What is this?

☐ I have read and agreed to the [Terms of Service](#)

Wait, I have an account, let me log in...

Create Account

ClickStart Apps DBs Builds Repositories Services Support

Eamonn | Account: wit

ClickStart
Integrated Services
Go to it!

RUN@cloud
Application Service
Go to it!
Upgrade

RUN@cloud
Database Service
Go to it!
Upgrade

Forge
Source Repositories
Go to it!
Upgrade

Jenkins CI
Build Service
Go to it!
Upgrade

Store and Share Source Code

CloudBees DEV@cloud Forge Services provide hosted Git, SVN, and Maven repositories exclusively for users within your account. Build hooks are already in place for continuous integration with Jenkins.

Add Repository

< Back Esc to Close Next >

Click to show core services Launch Tour

Browse Ecosystem Download Tools and SDK

Upgrade Jenkins... Upgrade RUN@cloud...

CloudBees Resources

Filter items View: Icons

Builds

Go to Builds

Getting Started with Builds

Try the most popular CI server with the power of elastic cloud resources. Deploy your apps to CloudBees for testing, staging or production, to your own internal systems, or to other cloud providers.

Applications

Go to Applications

Getting Started with Applications

Deployment and management of applications is easier than ever before. The hassle of setting up and configuring middleware technologies is eliminated.

Databases

Go to Databases

Getting Started with Databases

Use the full capabilities of MySQL with the peace of mind a fully managed CloudBees service offers. We take care of the details as you scale up, down, and redeploy.

Repositories

Go to Repositories

Getting Started with Repositories

Provide hosted Git, SVN, and Maven repositories exclusively for users within your account. Build hooks are already in place for continuous integration with Jenkins.

Support

Request Support... View Support Tickets...

Getting Started

- DEV@cloud - Jenkins as a service
- RUN@cloud - Deploying Java apps
- Continuous deployment
- CloudBees for Eclipse

Quick Reference

- DEV@cloud Wiki
- GIT/SVN repositories
- Application monitoring
- Selenium browser testing
- RUN@cloud Wiki
- Maven Integration
- MySQL databases
- Sonar code coverage

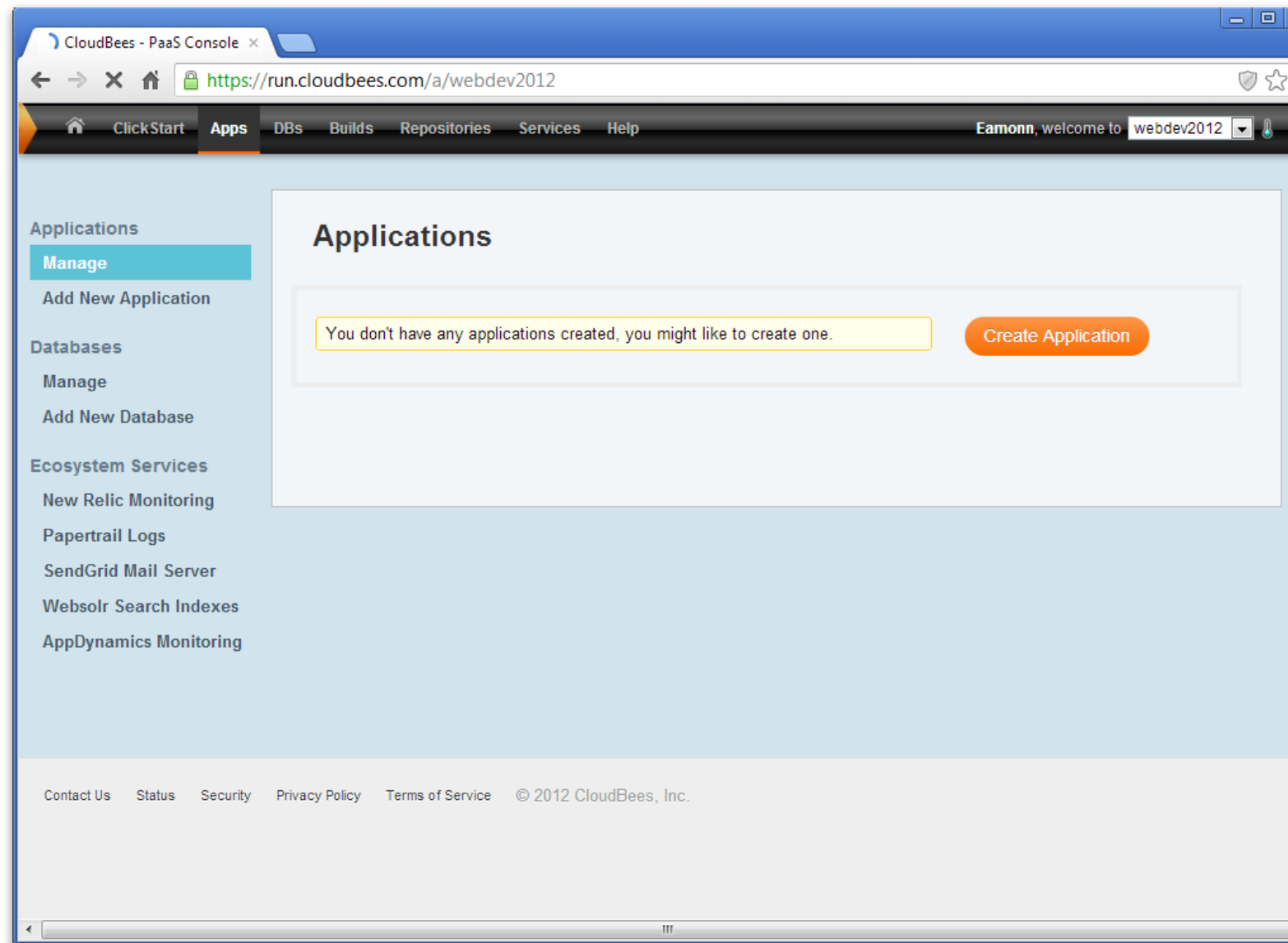
Community Links

Recent Blog Entries

- 13 May Recording of most recent hangout with Netflix
- 13 May Play Framework with AngularJS and WebJars
- 10 May iUI - iOS style web-apps for javascript developers on all devices
- 10 May Dart on CloudBees
- 8 May Upcoming (US timezone) Hangout with CloudBees developers
- 2 May Grails clickstarts now available
- 2 May Jetty on CloudBees

News from CloudBees...

Cloudbees Applications



Create an Application

Application name

Application core runtime

JVM Web Application (WAR)

See the [Wiki](#) for more info about supported runtimes.

Finish

Cancel

Application is ready

Your new application is now running at:

<http://spacebook.wit.cloudbees.net>

You may close this window and resume other tasks or continue on to configure your new application.

Configure

Close

Application Dashboard

The screenshot displays the CloudBees Application Dashboard. The top navigation bar includes links for ClickStart, Apps, DBs, Builds, Repositories, Services, and Support. The user 'Eamonn' is logged in with account 'wit'. The left sidebar contains sections for Regions (CloudBees - US), Applications (Manage, Add New Application), Databases (Manage, Add New Database), and Ecosystem Services (New Relic Monitoring, Papertrail Logs, SendGrid Mail Server, WebSolr Search Indexes, AppDynamics Monitoring).

The main content area shows the 'spacebook' application details: Owner, Created: 2013 May 14, Status: active, ID: wit/spacebook, and Location: <http://spacebook.wit.cloudbees.net>. Below this are icons for Development, Operations, Logs, and Configuration. The 'Development' tab is active, showing the 'Application Development Center'.

The 'Application Development Center' section includes a congratulatory message: 'Congratulations, your new application is now running at <http://spacebook.wit.cloudbees.net>'. It also provides the next step: 'update your application. You can do this via the SDK (recommended) or by uploading a WAR directly.' A list of instructions follows:

- If you haven't done so already, install the **CloudBees SDK** so you can build and test your application from your local workstation.
- Use the SDK's *create* command to get started fast:

```
bees create spacebook
cd spacebook
```
- Build and test your application updates using the SDK on a locally running application (<http://localhost:8080>):

```
bees run
```
- Use your favorite tools to edit the application.
- When ready, deploy your updated application:

```
bees deploy -a wit/spacebook
```
- If you already have your own WAR-based package, you can deploy it directly:

```
bees app:deploy WAR_FILE -a wit/spac
```

At the bottom of the development center, there is a button: '» Alternatively, upload a WAR file'.

A modal window titled 'CloudBees' is overlaid on the dashboard. It contains the text: 'This application under development' and 'Your new application is created and now running successfully on CloudBees RUN@cloud (this is it!). Well done!'. Below this, it says 'What to do next:' and provides a link to 'Update your application'. The modal also includes a button '» Take me to the Console' and a link '» Support (Access support, Wiki, Forum etc.)'.

On the right side of the dashboard, there is a 'KnowledgeBase' section with a list of links:

- RUN@Cloud knowledgebase and tutorials
- Discussion forums and Q&A
- Report an issue or problem
- Suggest an idea or request a feature
- Announcements
- CloudBees blog

A 'More...' link is available at the bottom right of the KnowledgeBase section.

Cloudbees Database

Create a MySQL Database

Database name

Username

Password

Confirm password

Finish

Cancel

spacebook-ict-lab08

Owner: wit Created: 2013 May 19 Status: active

Server: ec2-50-19-213-178.compute-1.amazonaws.com Port: 3306 Username: wit



Overview

General information

Database type **MySQL/5.0.51**

Status **active**

Size **5MB - Free**

Remote connections

Server **ec2-50-19-213-178.compute-1.amazonaws.com**

Port **3306**

Schema name **spacebook-ict-lab08**

Username **wit**

Snapshots

No snapshots have been created

Datasource configuration tips

Cloudbees Play Plugin Install

- Assuming Play installed and configured correctly
- Install Cloudbees/Play Plugin by entering the following in DOS/Terminal:

```
play install cloudbees
```

dependencies.yaml

- Makes the cloudbees plugin available to your application

```
require:  
  - play  
  - play -> cloudbees 0.2.2
```

- Update 'dependencies' in play application

```
play deps
```


Database Configuration

- Comment mem database config

```
#db=mem
```

- Incorporate db credentials

```
db.url=jdbc:cloudbees://YOUR_DB_NAME
db.driver=com.mysql.jdbc.Driver
db.user=YOUR_DB_USER_NAME
db.pass=YOUR_DB_USER_PASSWORD

jpa.ddl=create
```

Create a MySQL Database

Database name

Username

Password

Confirm password

Finish

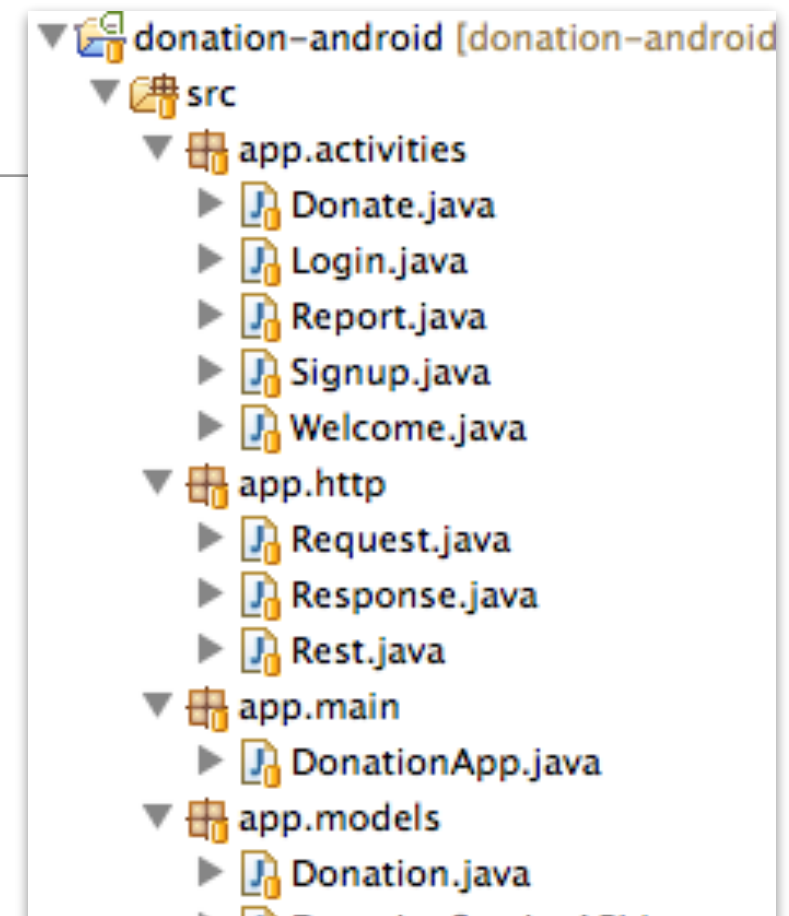
Cancel

Deployment

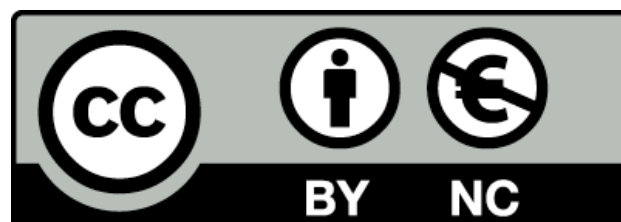
```
play bees:app:deploy
```

android-v3

- Engage the cloudbees url in the Rest class:



```
public class Rest
{
    private static DefaultHttpClient httpClient = null;
    //private static final String URL = "http://10.0.2.2:9000";
    private static final String URL = "http://donation-edel020.edel020.cloudbees.net";
}
```



Except where otherwise noted, this content is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

For more information, please see <http://creativecommons.org/licenses/by-nc/3.0/>



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

