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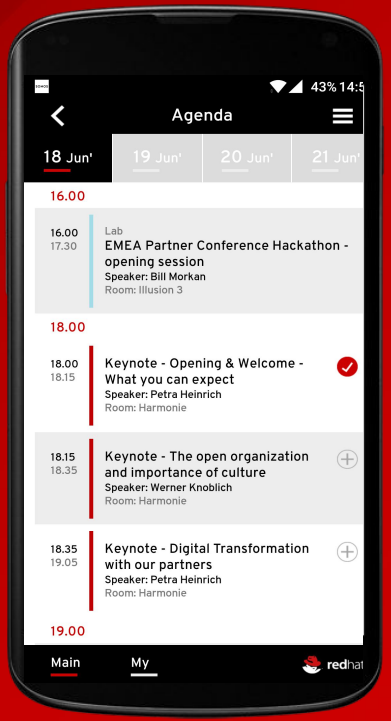
Building Scalable Apps
on
OpenShift Container Platform (OCP)

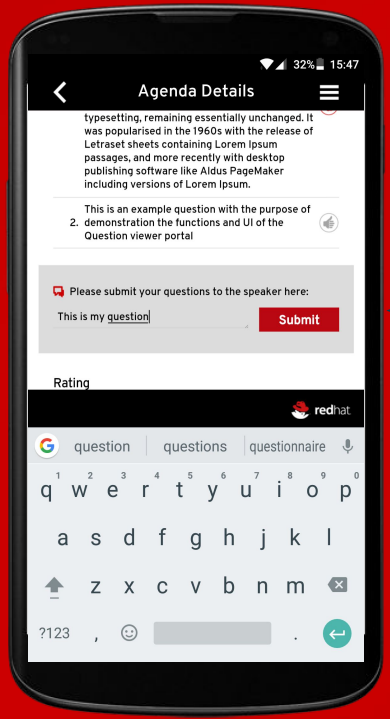
Don’t Forget to Ask Questions in our App!

Ask Questions and Promote Questions asked by others.



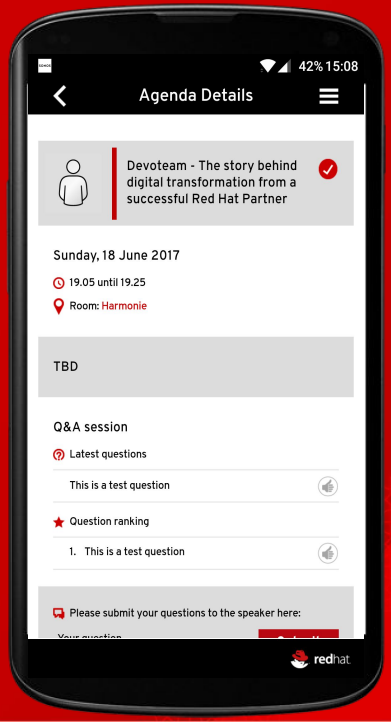
1. Add the session to your personal Agenda, tap ⊕

2. Tap on the session title to view the details



3. Type your question and hit Submit!

4. Or “like” a good question from someone else, just tap 👍



Building Scalable Apps on OpenShift Container Platform (OCP) with JBoss Data Grid (JDG)

Make your data storage scale as well as your application !

Romain Pelisse
Sustain Developer
Tuesday, June 20, 2017 - 10:30 to 12:30

Agenda

Labs Goals

What are going to do today

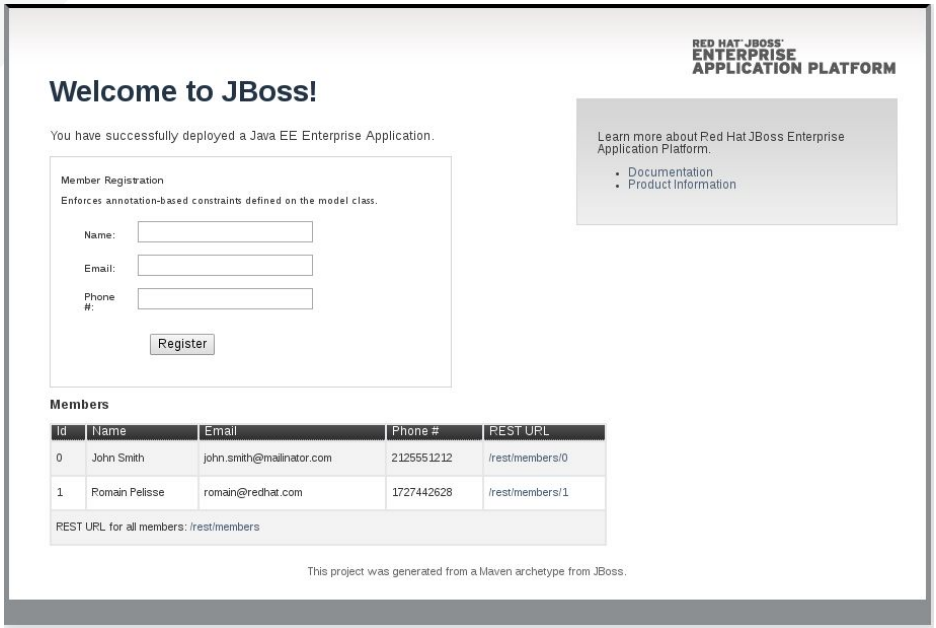
- Lab 0 - Set up a Java project on Openshift
- Lab 1 - Use JBoss Data Grid (library mode) to cache data coming from the database
- Lab 2 -Scale Up !
- Lab 3 - Replace the datasource by JBoss Data Grid

OpenShift and JBoss Data Grid

If you have no idea what either or both are about, now is the slide to ask about this !
Otherwise, we'll move along :)

Kitchen Sink App

Just an other demo app....



- Coming out of the Wildfly / JBoss EAP Quickstarts
  - Simple JEE App
- A simple phone book app
- Using a datasource (HSQLdb) to store its content

LAB 0
Set up a Java Project on OpenShit

Lab 0 - Set Up OpenShift

Photo Credit: Amy Loves Yah

- Kitchen Sink App
  - Please clone it to your own github account:
  - https://github.com/rpelisse/kitchensink-webapp-lab
- Use your clone to create EAP 7.0.5 Project using the OpenShift Web UI
- Deploy the application on OpenShit and test it
  - Check that you can see the WebUI
  - Try to add a phone number

LAB 1
Use JDG to cache our data

Lab 1 - Use JDG to cache our data

… a good old, fashion app cache

Photo Credit: Seth Stoll

- Add JDG as a dependency to the project
- Modify the application code to lookup results in JDG before going to the database
- If results not found, store the results in JDG
- Easy, isn't it ? :)

LAB 2
Scale up !

Lab 2 - Scale up !

Photo Credit: Andrew Wilkinson

- Fire several instances of your app and see how the nodes creates a cluster
- Load a large amount of data, using the provided scripts - see how they spread across the grid

Lab 3
Replace the datasource by JDG

Lab 3 - Replace the datasource by JDG

Go datagrid, all the way...

Photo Credit: Pattys-photos

- Modify the code to remove any call to the datasource
- Change JDG configuration to be persistent
- Why did we ever use databases in the first place ? :)

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