



JBug.cz: OpenShift

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Agenda

- What is cloud
- PaaS in Java world
- OpenShift
- Plans for future
- Demo



What is cloud

- On-demand provision of computational resources (data, software) via a computer network



Cloud Computing

Having secure access to all your applications and data from any network device



(x)aaS

- IaaS
 - Amazon EC2, RackSpace
- SaaS
 - Gmail
 - Salesforce.com
- PaaS
 - Google App Engine
 - CloudFoundry



Current PaaS offerings

- Google App Engine
 - by Google :-)
 - Google services
 - Memcache
 - Datastore
 - Task Queues
- CloudFoundry
 - by VMware
 - Spring-based, support for Node.js, Ruby, etc.
 - Grails, MonoDB, MySQL



OpenShift

- <http://openshift.redhat.com/>
- Available since May
- Standard based
- No vendor lock-in
- 3 levels
 - Express
 - Flex
 - Power



OpenShift Express

- Available for free
- Try it now, no other requirements
- Support for PHP, Ruby, Python
- CLI
- Git based deployment
- Support file storage, access to external MySQL, SQLite database



OpenShift Flex

- Express +
 - Tomcat, JBoss AS 6
 - MySQL database
 - MongoDB
 - Clustering, automatic scaling
- EC2 account necessary
- Monitoring and Management available
- Java EE 6



OpenShift Power

- Not publicly available yet
- Allows to execute any binary Linux binary
- Most complex but most flexible setup
 - ImageFactory



Future plans (1/2)

- Express
 - Support for JBoss AS 7
- Flex
 - More databases
 - EAP
 - Rewrite UI from Flash to HTML 5
 - Infinispan
- Power
 - Get it running



Future plans (2/2)

- Tooling
 - SeamForge
 - JBoss Tools



Demo Q&A

