

**OPENSIFT**

marek@redhat.com

stick@gk2.sk

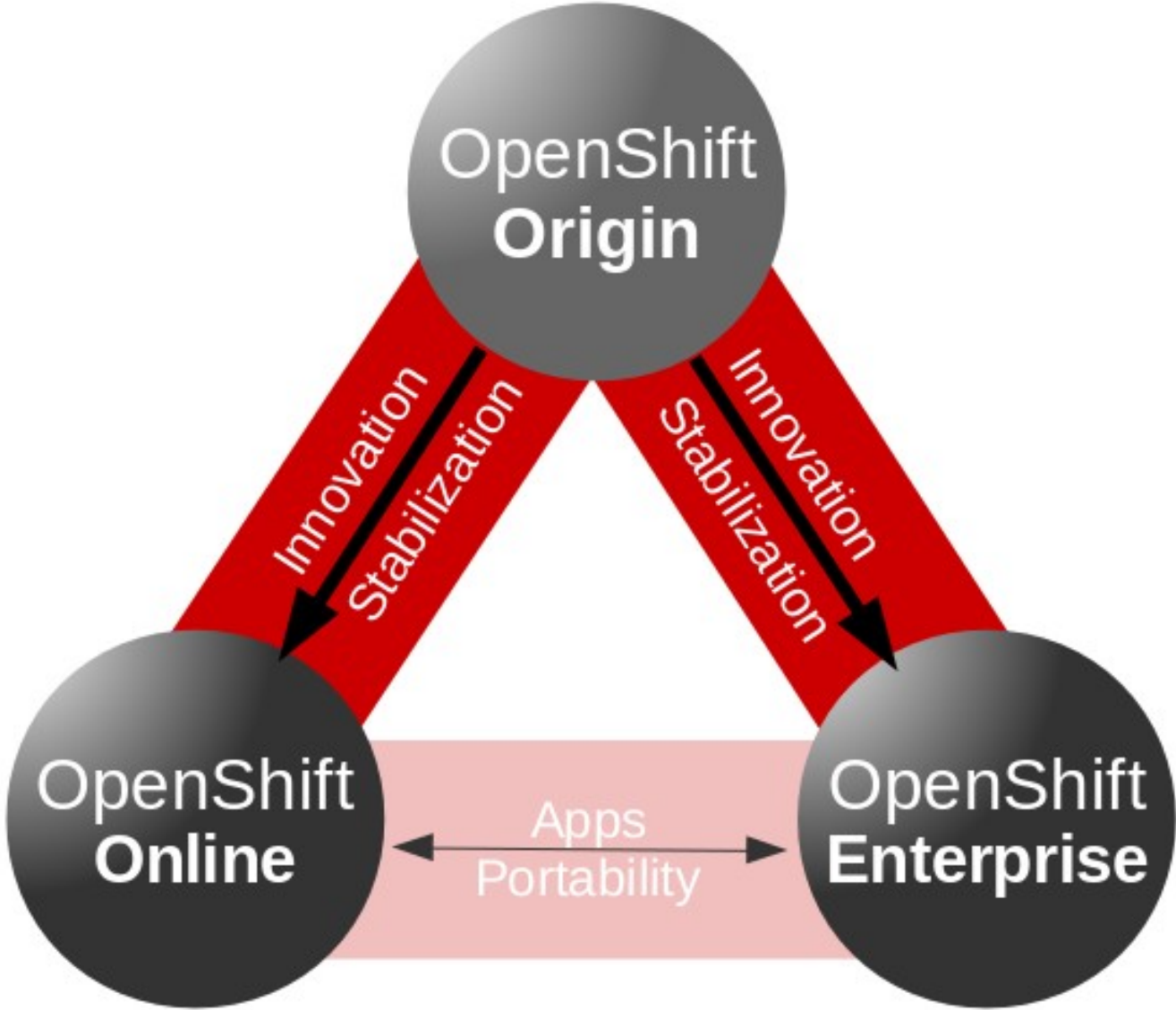
# IaaS / PaaS / SaaS / Cloud

- Infrastructure as a Service
  - physical or virtual machines and resources
  - Amazon EC2, Azure Services Platform, Google Compute, Linode, Rackspace/OpenStack, etc.
- Platform as a Service
  - IaaS + operating system + environment
  - Heroku, Google App Engine, Cloud Foundry, EngineYard, Azure Cloud Services, **OpenShift**
- Software as a Service
  - PaaS + applications
  - Google Apps, Office 365, Salesforce

# OpenShift

- Platform as a Service
- runs on top of:
  - Amazon EC2, Rackspace/OpenStack, RHEV, VMWare, bare metal
- Red Hat project
- open-source(!)
- rhc cli tool, git for code

Open Source  
Community Project



On-demand Service  
Operated by Red Hat at  
OpenShift.com

Commercial Software to Run  
Your Own Private PaaS on the  
Infrastructure of your Choice

# Terms

- broker
  - management host, orchestration of nodes
- node
  - compute host containing gears
- gear
  - allocation of fixed memory, compute and storage resources (“container”)
- cartridge
  - a technology/framework loaded into gear
  - programming environment, database, etc.

# Cartridges

- Web
  - Java/JBoss, PHP, Python, Perl, Node.js, Ruby
- Database
  - MongoDB, MySQL, PostgreSQL
- Administration
  - phpMyAdmin, RockMongo
- Other
  - Jenkins, Cron
- DIY!

# Example

```
// create app
rhc app create brm python-2.6

// add MongoDB database
rhc cartridge add mongodb-2.2 -a brm

// add upstream repo
cd brm
git remote add upstream -m master git://github.com/...
git pull -s recursive -X theirs upstream master

// push repo
git push

// enjoy!
http://brm-$user.rhcloud.com
```

# Gears

- small
  - 512 MB RAM, 1 GB storage, \$0.05/hour
- medium
  - 1 GB RAM, 1 GB storage, \$0.12/hour
- ...
- Heroku has equivalent of small gears
  - 1 free, max 24+24 (each \$35/month)
  - \$0.05/hour



# OpenShift Online Pricing

- FreeShift
    - free
    - max 3 small gears
    - community support
    - no additional storage
  - MegaShift
    - \$42/month
    - max 16 gears (small or medium)
    - Red Hat support
    - additional storage \$1/GB
- <https://www.openshift.com/developers/pricing>

# Thanks!

- <https://www.openshift.com/>
- <https://www.openshift.com/get-started>
- <https://www.openshift.com/developers>
- <https://github.com/openshift>
- #openshift @ freenode