



**DRUPALCON
LONDON**

Easy Drupal hosting lifecycle

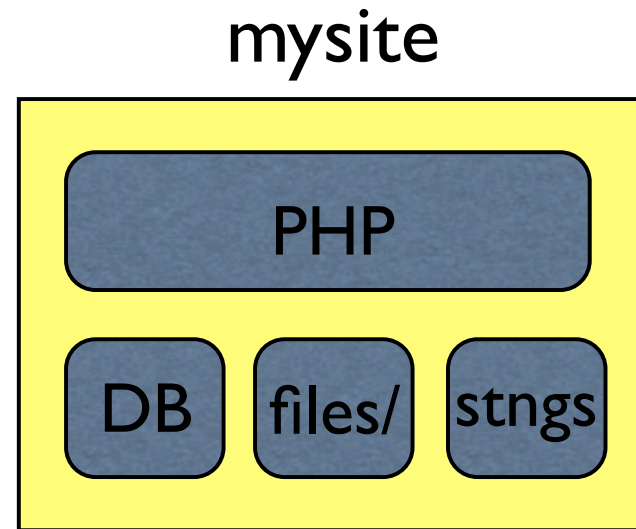
Local dev, production deploy, cloud scale, and sleep well

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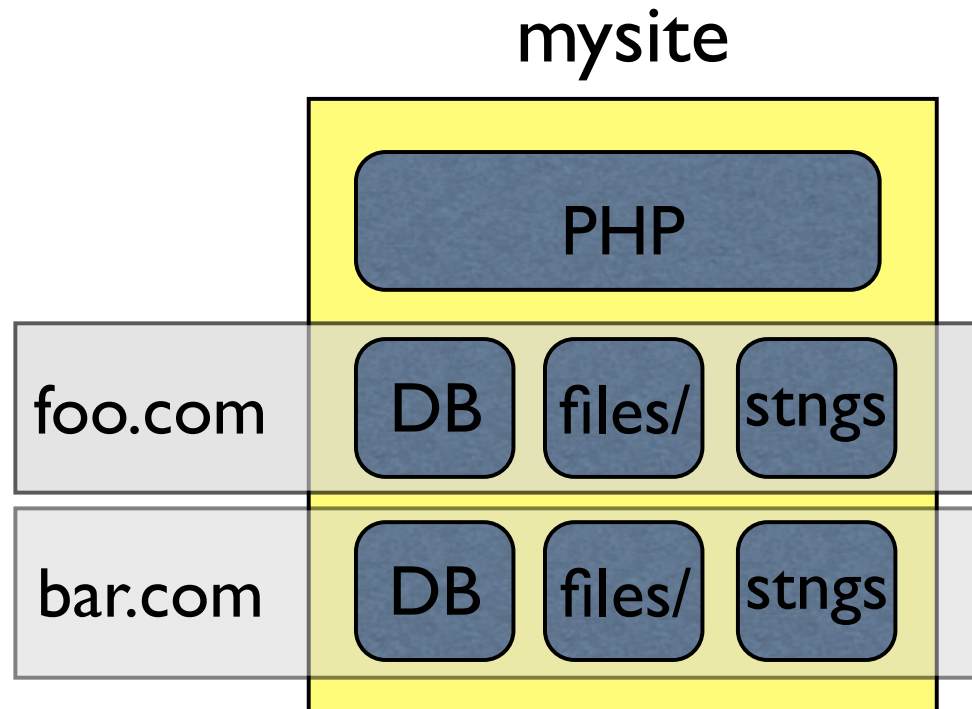
Anatomy of a Drupal site

- PHP code
- SQL database
- Files directory
 - User-uploaded images, ...
- Settings file
 - Ties the code to the DB and files dir



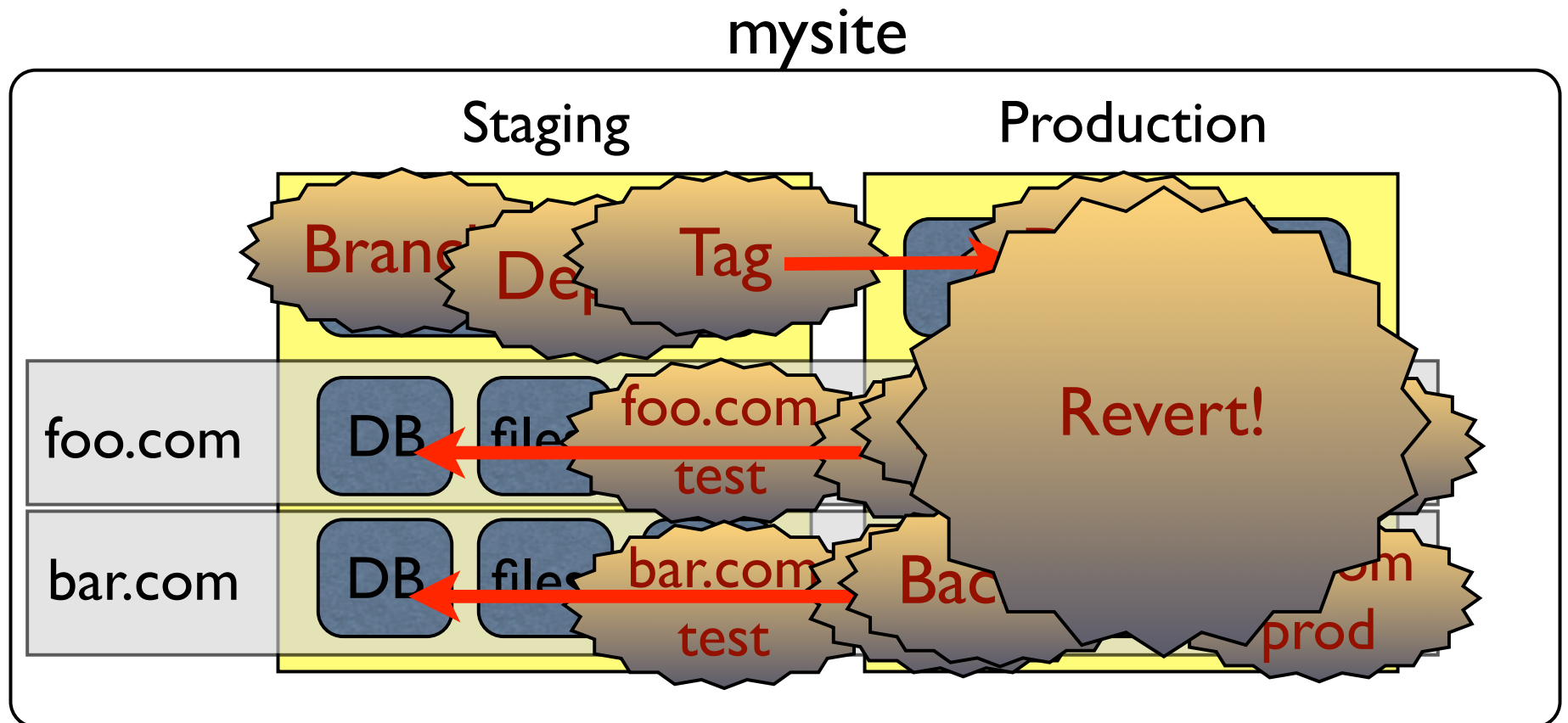
Multi-site

- Drupal multi-sites support additional domains
- Each domain needs:
 - SQL Database
 - Files directory
 - Settings file
- More parts to manage



Multiple environments

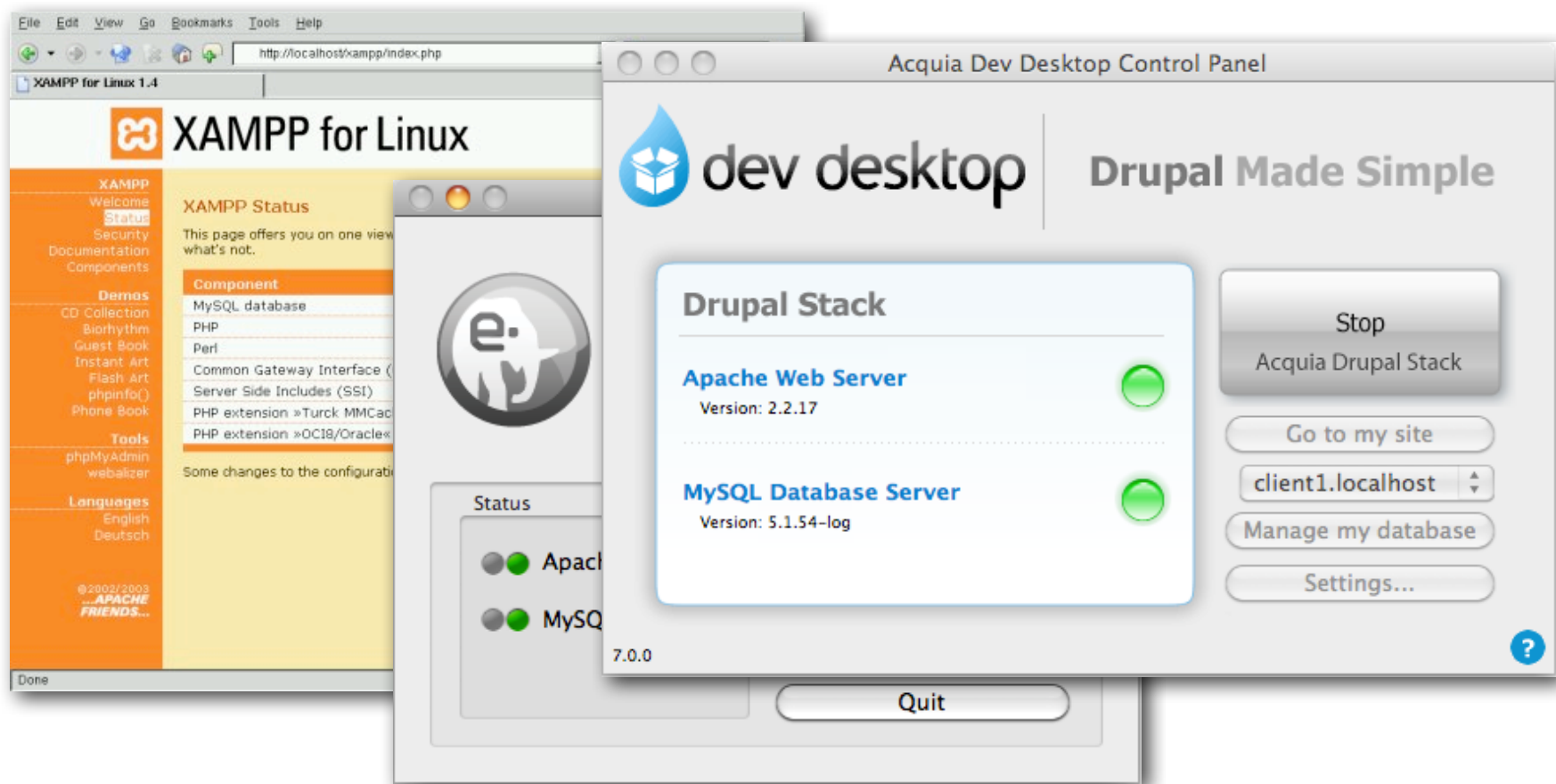
- Best practice: Local, Dev, Staging, Production
- Managing all the steps gets complicated



Two basic tools

Develop locally

- xAMP application stacks provide Apache, MySQL, and PHP in a single package



Version control

- Manage your code without losing your mind
- Simple model sufficient for most projects
 - Main branch (trunk, master): development
 - Release branches: demo, test, hotfixes
 - Tags: production; immutable
- Other models are possible
 - If you need them, you'll know

SVN v GIT: The Holy War

SVN

- checkout url/b
- update
- commit
- copy b1 b2
- copy b tag

GIT

- clone url; checkout b
- pull
- add; commit; push
- branch b2 b1; push
- tag -a tag; push

- Bottom line: It doesn't matter. Both work fine.
- If someone takes >30 seconds to explain why you need more, *back away slowly!*

Three Approaches to Managing Your Site

(among many other options)

CLI, manually

```
Terminal — tail — 41x9
~$ ssh mysite@srv-10
srv-10% cd /var/www/html/dev
srv-10% git pull
remote: Counting objects: 7238, done.
remote: Compressing objects: 100% (605~$
055), done.
remote: Total 7238 (delta 927), reused
21 (delta 925)
█
```

CLI, with Drush

```
Terminal — tail — 41x9
~$ drush sql-sync @local @dev
~$
```

Dev Cloud

All sites: Code

Git Repository URL: devcloud2@svn-3.devcloud.hosting.acquia.com:devcloud2.git

Dev	Stage	Prod
 Dev Code	drop here	drop here
Change to: master	Change to: tags/2011-08-12	Change to: tags/2011-07-14.0

Managing Code

Code: Manual

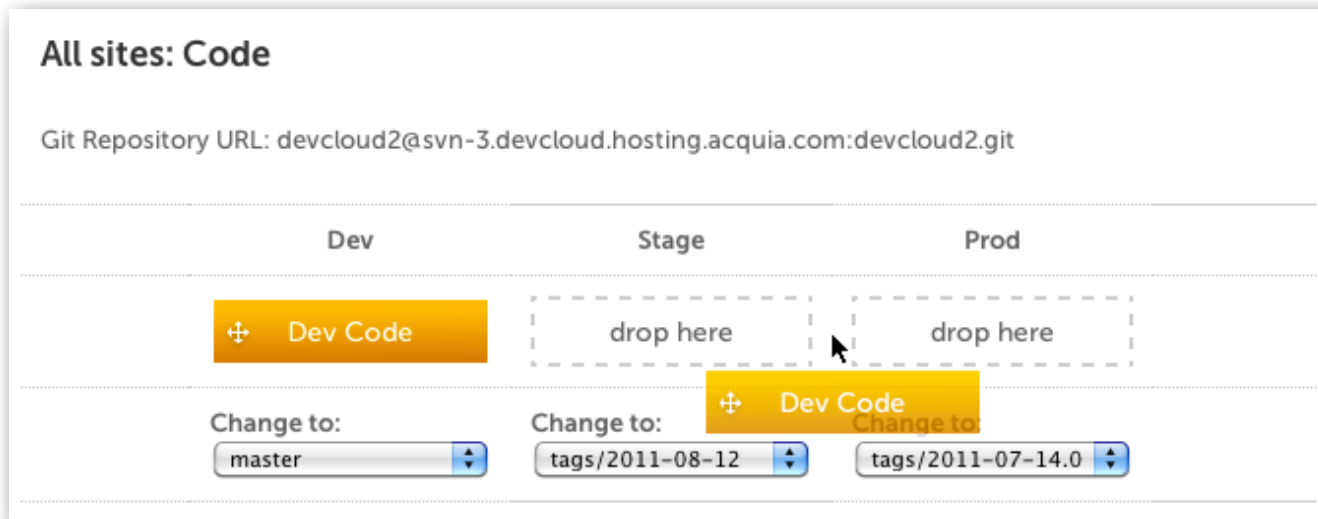
- Develop locally with xAMP
 - VCS commit to master branch
- Push latest code to Dev
 - `ssh srv bash -c 'cd /dev; git pull'`
- Push to Stage for RC
 - `git branch v1.2; git push`
 - `ssh srv bash -c 'cd /test; git fetch; git checkout v1.2'`
- Tag and push to Prod for release
 - `git tag -a v1.2.3; git push --tags`
 - `ssh srv bash -c 'cd /prod; git fetch --tags; git checkout tags/v1.2.3'`

Code: Drush

- Develop locally with xAMP
 - VCS commit to master branch
- Push latest code to Dev
 - `drush rsync @local @dev`
 - NOTE: rsync instead of git pull can lead to conflicts
- Push to Stage for RC
 - `git branch v1.2; git checkout v1.2`
 - `drush rsync @dev @test`
- Tag and push to Prod for release
 - `git tag -a v1.2.3 and push`
 - `drush rsync @test @prod`

Code: Dev Cloud

- Develop locally with xAMP
 - VCS commit to master branch
- Latest code deployed to Dev automatically
- Drag/drop to Stage or Prod to tag and deploy



- Cutting branches and tags manually works, too

Code: Dev Cloud

- Revert!

All sites: Code

Git Repository URL: devcloud2@svn-3.devcloud.hosting.acquia.com:devcloud2.git

Dev	Stage	Prod
⊕ Dev Code	⊕ Stage Code	
Change to: master	Change to: tags/2011-08-12	master webinar tags/2011-07-13 tags/2011-07-14 ✓ tags/2011-07-14.0 tags/2011-07-17 tags/2011-07-18 tags/2011-08-12 tags/WELCOME

All sites: Files

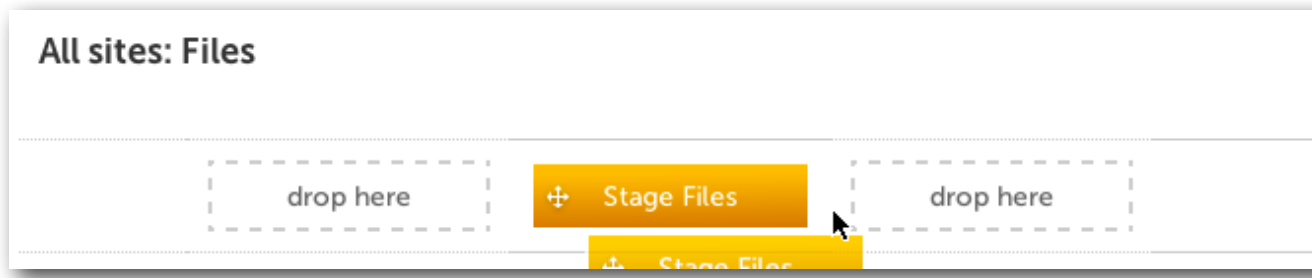
Managing Files

Files: Manual and Drush

- `rsync -az ./sites/default/files srv:/dev/sites/default/files`
- `ssh srv 'rsync -az /dev/sites/default/files /test/sites/default/files'`
- `ssh srv 'rsync -az /test/sites/default/files /prod/sites/default/files'`
- Trickier if the environments on are different remote servers
- `drush rsync @local:%files @dev:%files`
- `drush rsync @dev:%files @test:%files`
- `drush rsync @test:%files @prod:%files`

Files: Dev Cloud

- Drag and drop from source to destination
 - Currently syncs files for all sites in a multi-site



- Manual and Drush ways work, too

Managing Databases

DBs: Manual and Drush

- Manual with mysql and mysqldump
 - Same server:

```
ssh srv 'mysql -e "drop database dstdb; create database dstdb"'
```

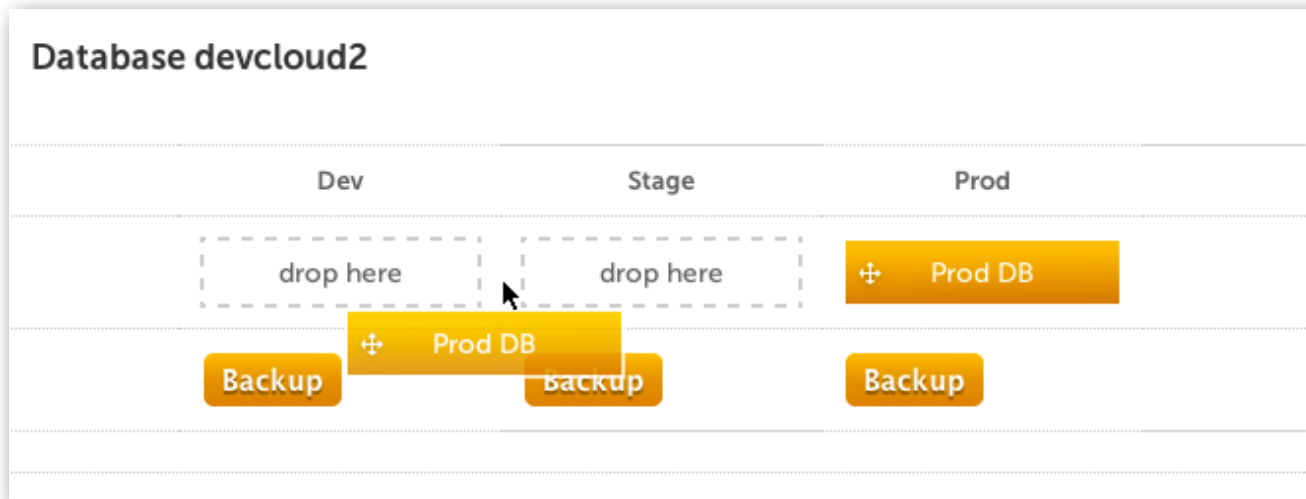
```
ssh srv 'mysqldump srcdb | mysql dstdb'
```
 - Different servers:

```
ssh dstsrv 'mysql -e "drop ..."'
```

```
ssh srcsrv 'mysqldump srcdb | gzip' | ssh dstsrv 'gunzip | mysql dstdb'
```
- Drush
 - `drush sql-sync @src @dst`
 - Much simpler, handles different servers

DBs: Dev Cloud

- Drag and drop from source to destination



- Manual and Drush ways work, too

Managing Your Server(s)

Servers: “Manual”

- Apache vhost x 3
 - Domain names, SSL certs, ...
- PHP extensions
- MySQL database, user, password x 3
- SVN or Git server, scripts for deployment
- Backup and restore for everything
- Monitoring system for reliability and performance
- Automation to rebuild server
- MUCH MORE... (see many previous talks)

Servers: Dev Cloud

- Configured automatically
- Resize on demand, pay by the hour

Environment: Prod

Server	Size	Service	Status	Operations
srv-6	m1.small	Varnish	active	Reboot Configure
		Database	primary	
		Web	active	

Press Reboot to reboot server srv-6. The server will be down for approximately 30-60 seconds if you do not change the server size.

Change server size:

- ✓ 1 ECU, 1 32-bit core, 1.7GB RAM
- + \$98/mo: 5 ECU, 2 32-bit cores, 1.7GB RAM
- + \$260/mo: 4 ECU, 2 64-bit cores, 7.5GB RAM**
- + \$411/mo: 6.5 ECU, 2 64-bit cores, 17.1GB RAM
- + \$585/mo: 8 ECU, 4 64-bit cores, 15GB RAM
- + \$585/mo: 20 ECU, 8 64-bit cores, 7GB RAM
- + \$886/mo: 13 ECU, 4 64-bit cores, 34.2GB RAM
- + \$1835/mo: 26 ECU, 8 64-bit cores, 68.4GB RAM

Credits

- Acquia Cloud team
 - Amin Astaneh
 - Michael Booth
 - Martin Hrabovcin
 - Joey Imbasciano
 - Stellina McKinney
 - Kevin O'Leary
 - Kevin Rego
 - Jim Salem
 - Peter Wolanin
- The Awesome Acquia Customer Support Team

Credits

YOU?

We're hiring. USA and EU.

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Questions?

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What did you think?

Locate this session on the
DrupalCon London website:

[http://london2011.drupal.org/conference/sessions/
easy-drupal-hosting-lifecycle-local-dev-
production-deploy-cloud-scale-and-sleep-](http://london2011.drupal.org/conference/sessions/easy-drupal-hosting-lifecycle-local-dev-production-deploy-cloud-scale-and-sleep-)

Click the “Take the survey” link

THANK YOU!



Backups: Dev Cloud

- Backups

Database devcloud2

Dev	Stage	Prod
drop here	drop here	⊕ Prod DB
Backup	⊕ Prod DB Backup	Backup

Environment: Prod

Date	Db	Type	Filename	Status	Operations
05/12/2011 - 5:41pm	devcloud2	User	backup-devcloud2-6747.sql.gz	complete	Restore Delete
05/19/2011 - 1:27pm	devcloud2	User	backup-devcloud2-8351.sql.gz	complete	Restore Delete