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a Rogue Wave Company

Intranet My i

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Audience

- Manager looking for Intranet/place to put stuff
- Developers looking to leverage PHP
- Excess CPW
- Avoid buying more Intel servers
- Executive looking for new home base for apps
- Do you want to learn how to install an open source application on IBM i?

Agenda

- Zend Server
- MySQL on IBM i
- Review of Drupal
- Drupal Installation
- Drupal in action
- Implement cron (batch) scripts with Zend Server Job Queue
- Wrap-up

Intranet My i

MariaDB

MySQL

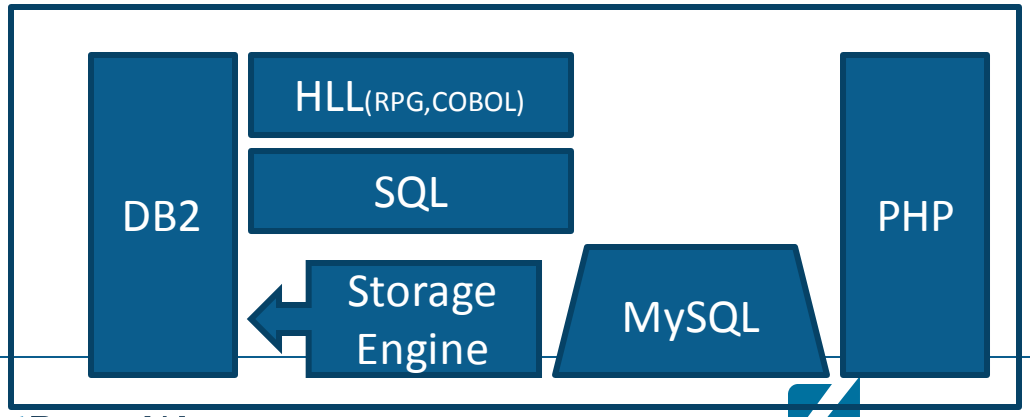
- MySQL discontinued distributions.
- Zend and IBM have partnered to bring something back!
- Get ready for…

Zend DBi

- Zend Technologies will provide Zend DBi as a drop-in replacement for MySQL on the IBM i platform
- Zend DBi will be shipped as a part of Zend Server for IBM i and freely downloadable as a standalone package
- The build will remain open-source and be updated over time to implement relevant bug fixes and features
- IBM will continue to maintain and deliver the DB2 Storage engine for MySQL for IBM i, via Zend Server and as a standalone package

Why Zend Dbi?

- COMMON, COMMON Europe and WMCPA (Wisconsin Midrange Computer Professional Association) all use open source application Joomla
- Manage their respective organizations with PHP handling the transactions and presentation layer.
- These organizations depend on MySQL as the database storing content and important transaction processing.



Why run Maria when I have DB2?

- Access to thousands of Open Source Apps
- Easy to use Database
- Open the door to new report options
  - Zend Server simultaneous connections to:
    - DB2
    - MySQL
    - Microsoft SQL Server
    - PHP Toolkit (RPG & COBOL programs & more)
- DB2 Storage Engine
  - Application thinks it's writing to MySQL
  - Data store resides in DB2
  - RPG applications can now access data!

Where do I get it? Soon…

- MySQL is bundled in Zend Server for IBM i
  - Convenient installation
  - Use QSECOFR!
- Available at Zend.com as separate download
- Maria is in last stages of Alpha, private Beta soon

IBM i

Product	Version	Format/Size	Notes
Zend DBi	5.1.59	(ZIP) 122.03 MB	Readme

Drupal, Zend Server and IBM i

www.zend.com

Drupal

Drupal is popular

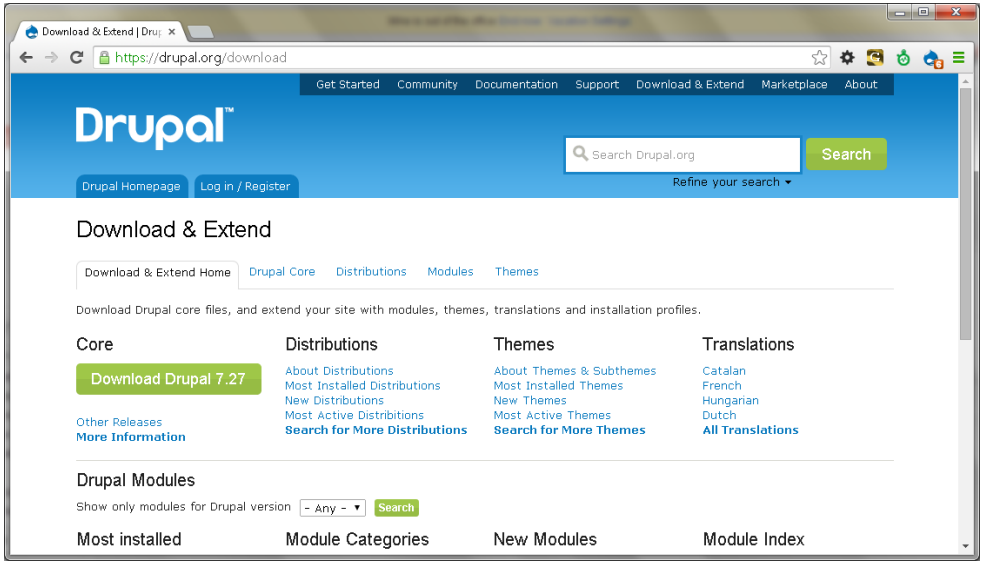
Statistics

- 75%of the Internet is running PHP (Google)
- 250 million+ websites running PHP (Netcraft Jan. 2013)
- About 1% of all internet websites are running Drupal
- Drupal is second only to WordPress as a content management site (backendbattles.com)

History of Drupal (Dutch for water drop)

- Dries Buytaert PHD dissertation starts Drupal by accident
- 1999: Developed a message board while studying LAN tech
- 2000: Received a lot of interest from folks
- 2001: Turned it loose as open source Drupal
- 2007: Forms Acquia
- 2008: Dries defends his dissertation
- 2009: Acquia helps launch Whitehouse.gov
- Today: Current project lead

Drupal itself

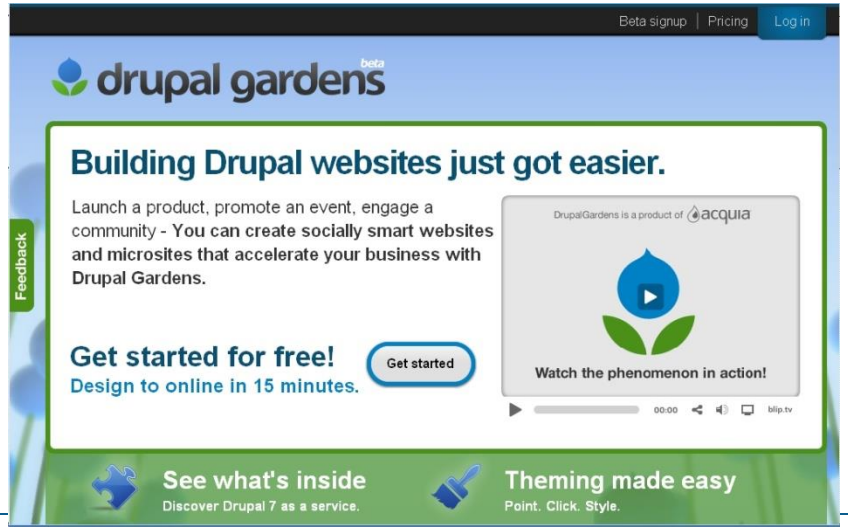


- Current version "Core" 7.27*
  - Available at drupal.org
  - Loads of features like: blogs, forums, content, etc.
  - Key enhancements: Simplified installer, Language support, Update status and more

*Version at the time this deck was created…

DrupalGardens

- Runs on Drupal 7
- Hosted solution with three pricing tiers starting at free!
- No need to buy/run server, kick the tires and more
- Drupal in the cloud!



Drupal, Zend Server and IBM i

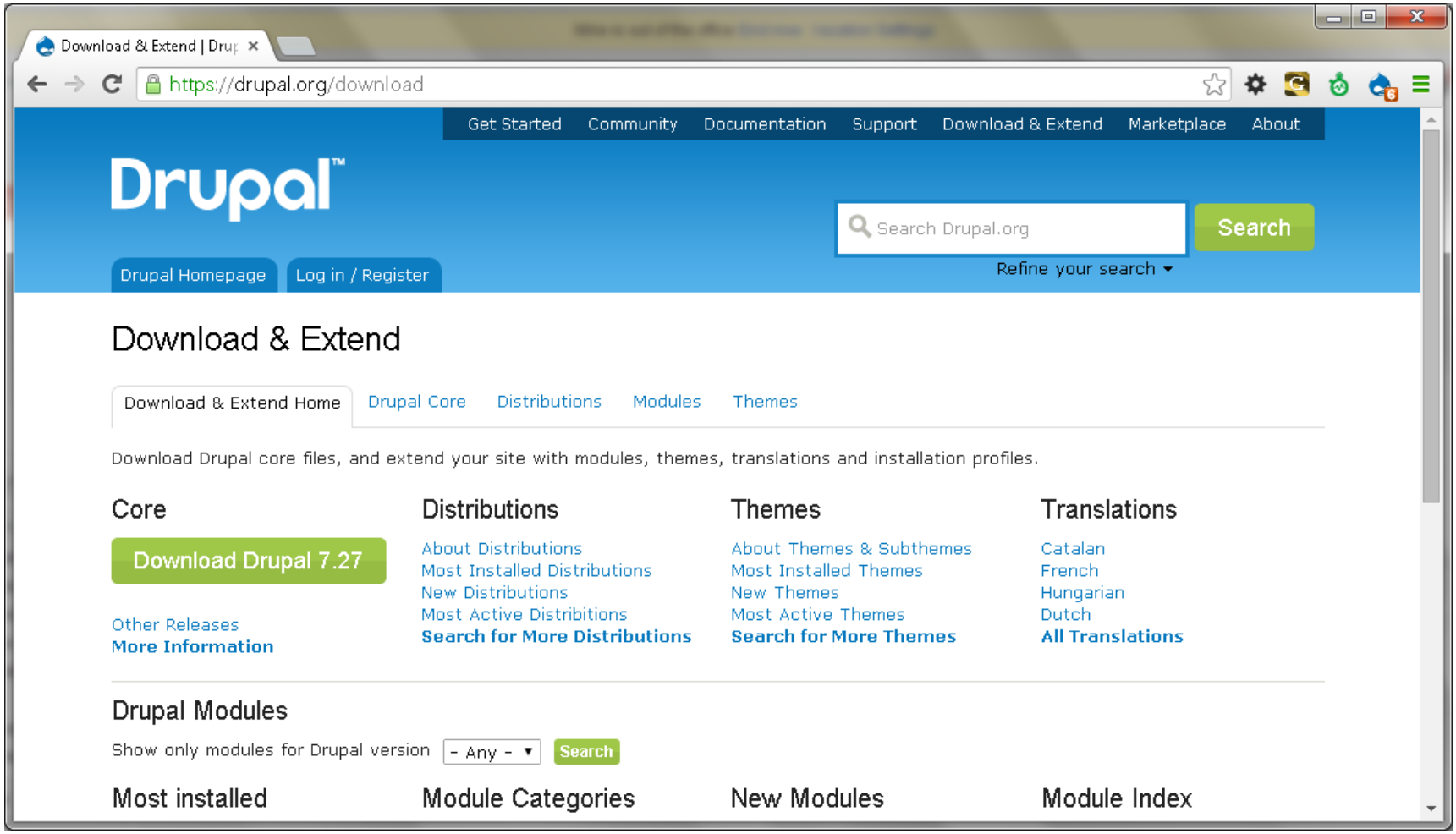
www.zend.com

Drupal Installation

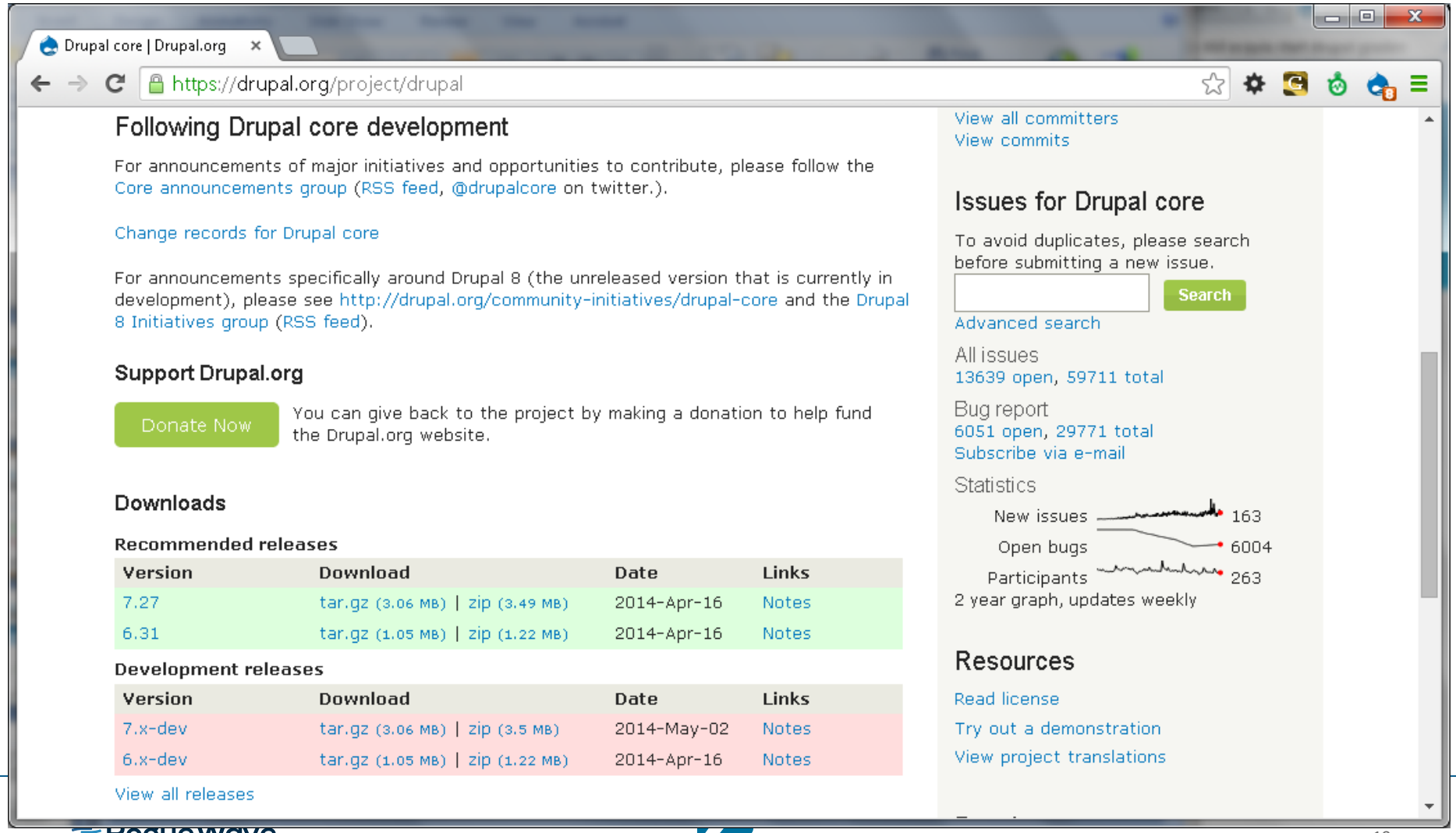
Drupal Installation Steps

- Download drupal & unzip
  - .tar or .zip (I like the tar but either should work)
- Move to the IFS
- Untar
- Create database
- Settings.php
- Run install script
- Have fun!

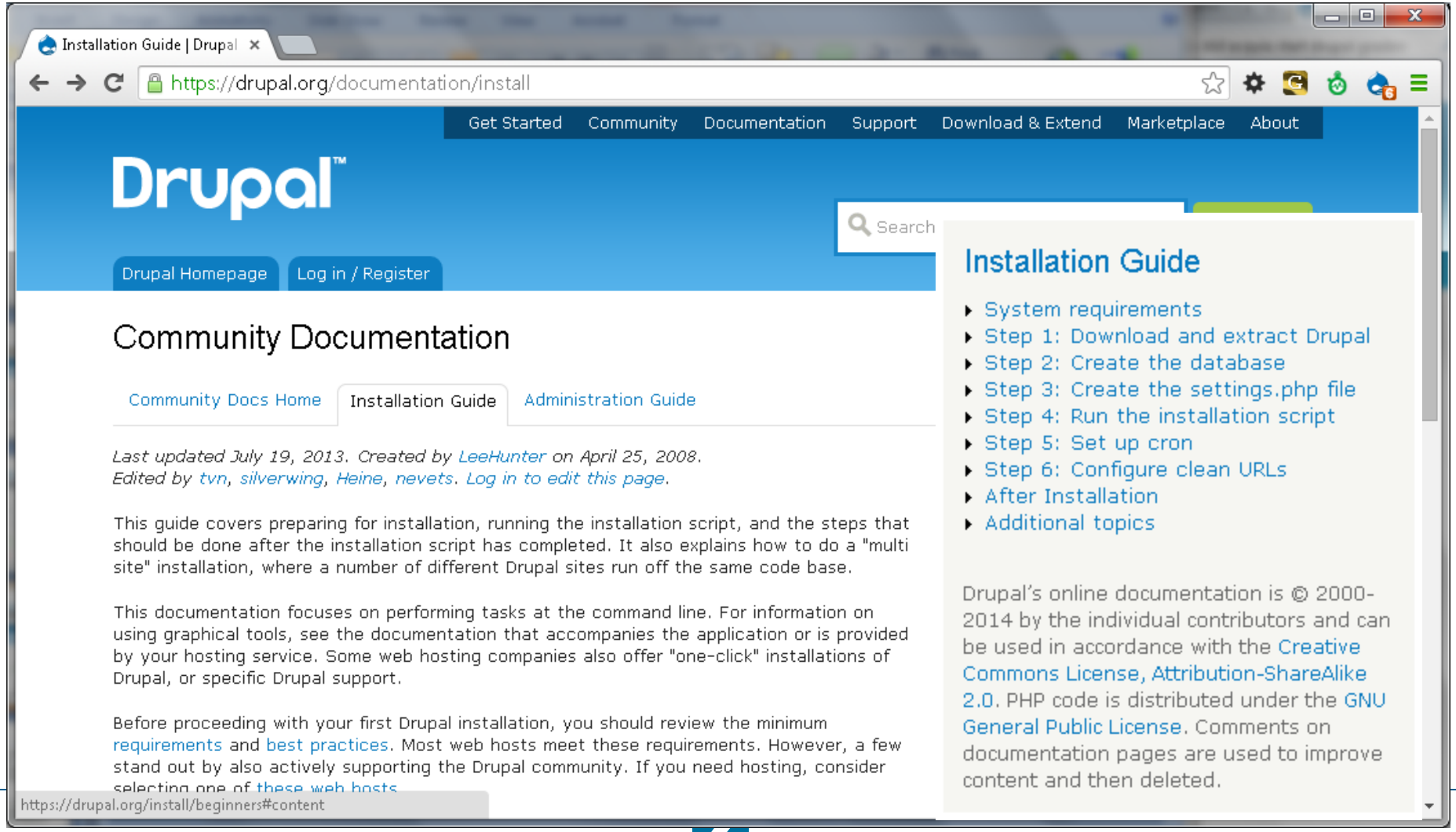
Download Drupal



Download the Drupal Version you like…



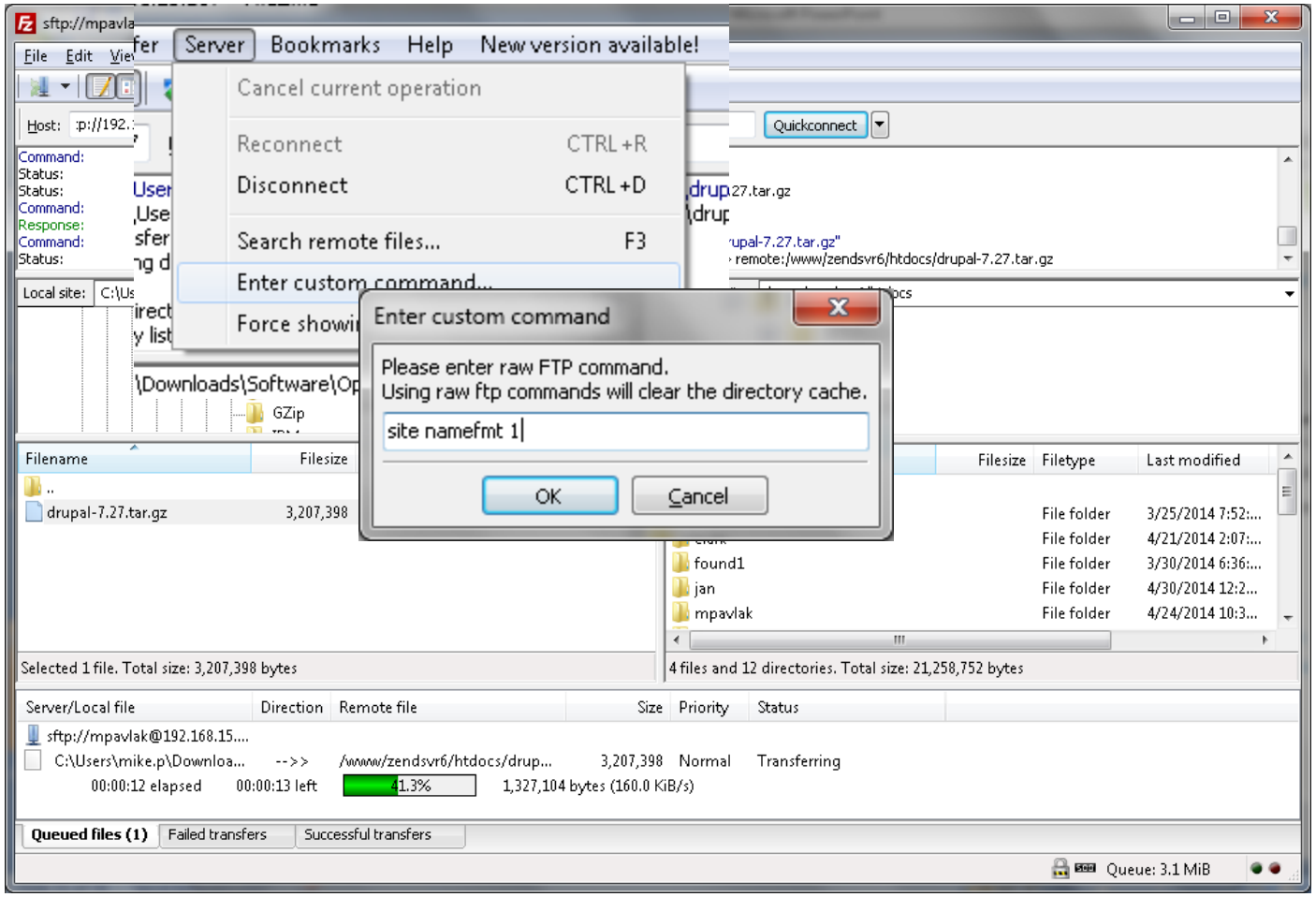
Reference the installation doc



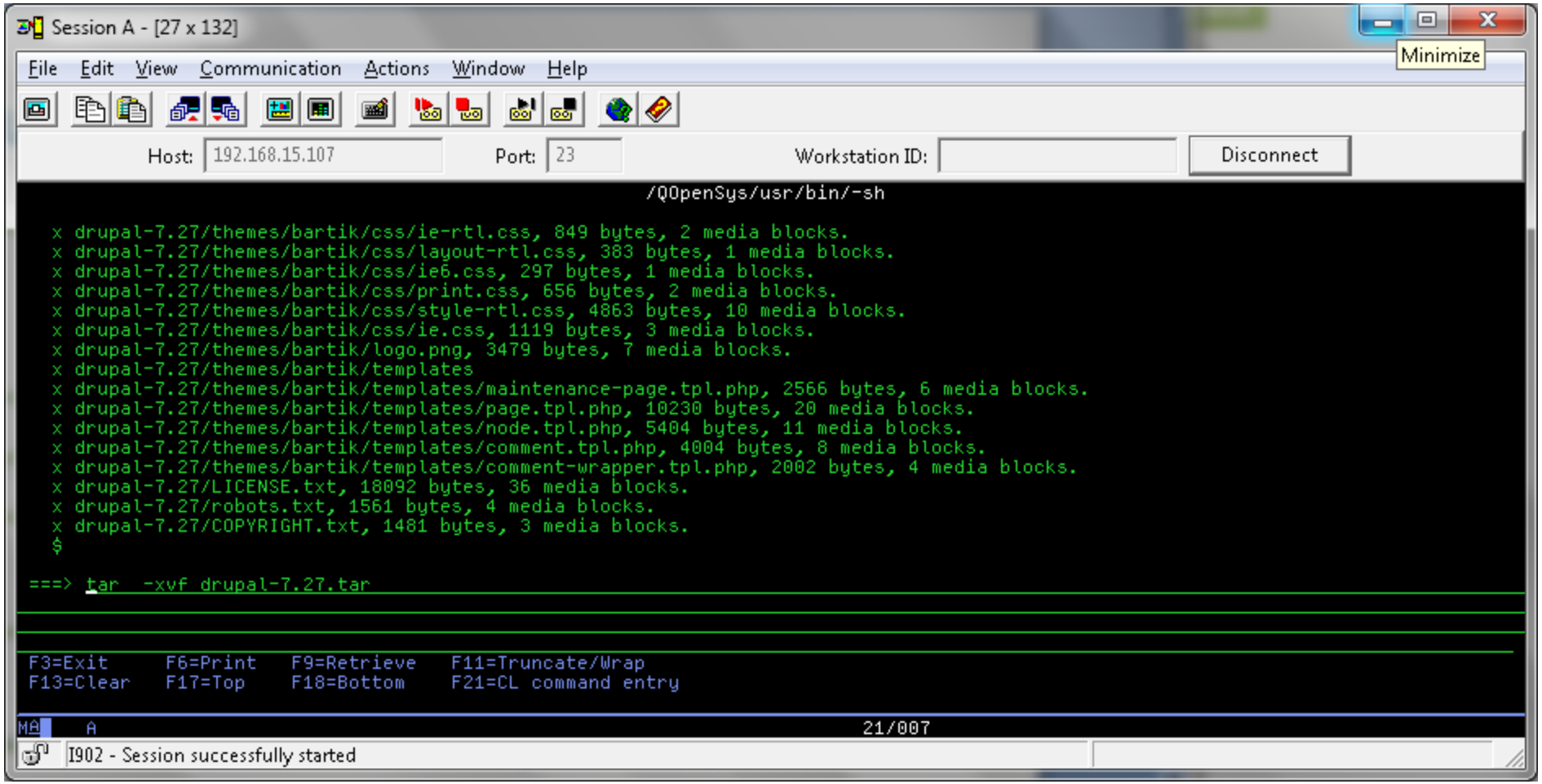
Unpack the file

- Unzip the file locally to extract the tar (7-zip works for me)
  - Or on server: jar xf files.zip
  - (Ted Holt: http://www.itjungle.com/fhg/fhg011112-story02.html)
- FTP file to the IFS of the IBM i (Filezilla…)
- Start QP2TERM to get PASE command shell
- Issue the standard TAR (Tape Archive) command
  - tar -xvf drupal-7.27.tar
- Command details: -xvf means…
  - x = Extract, v = verbose, f = Include file name in command
- Files are unpacked to a directory called drupal-7.27
- Tar command is part of LP's required for Zend Server!

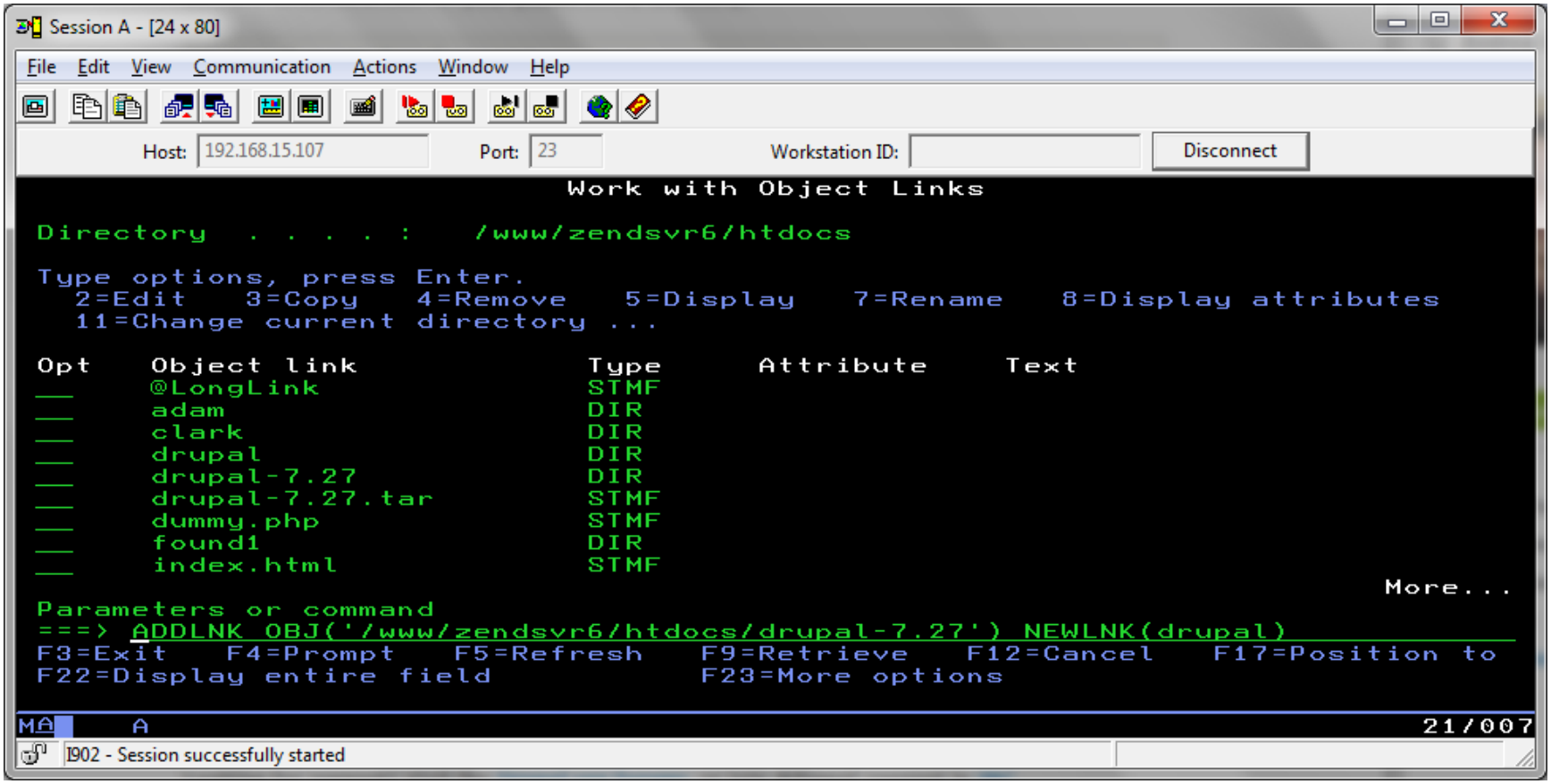
Notes about filezilla



Unpack output…

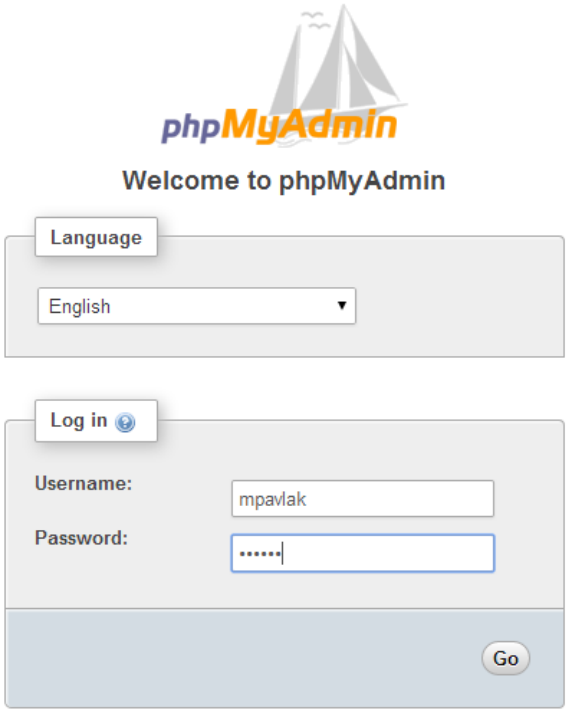


ADDLNK

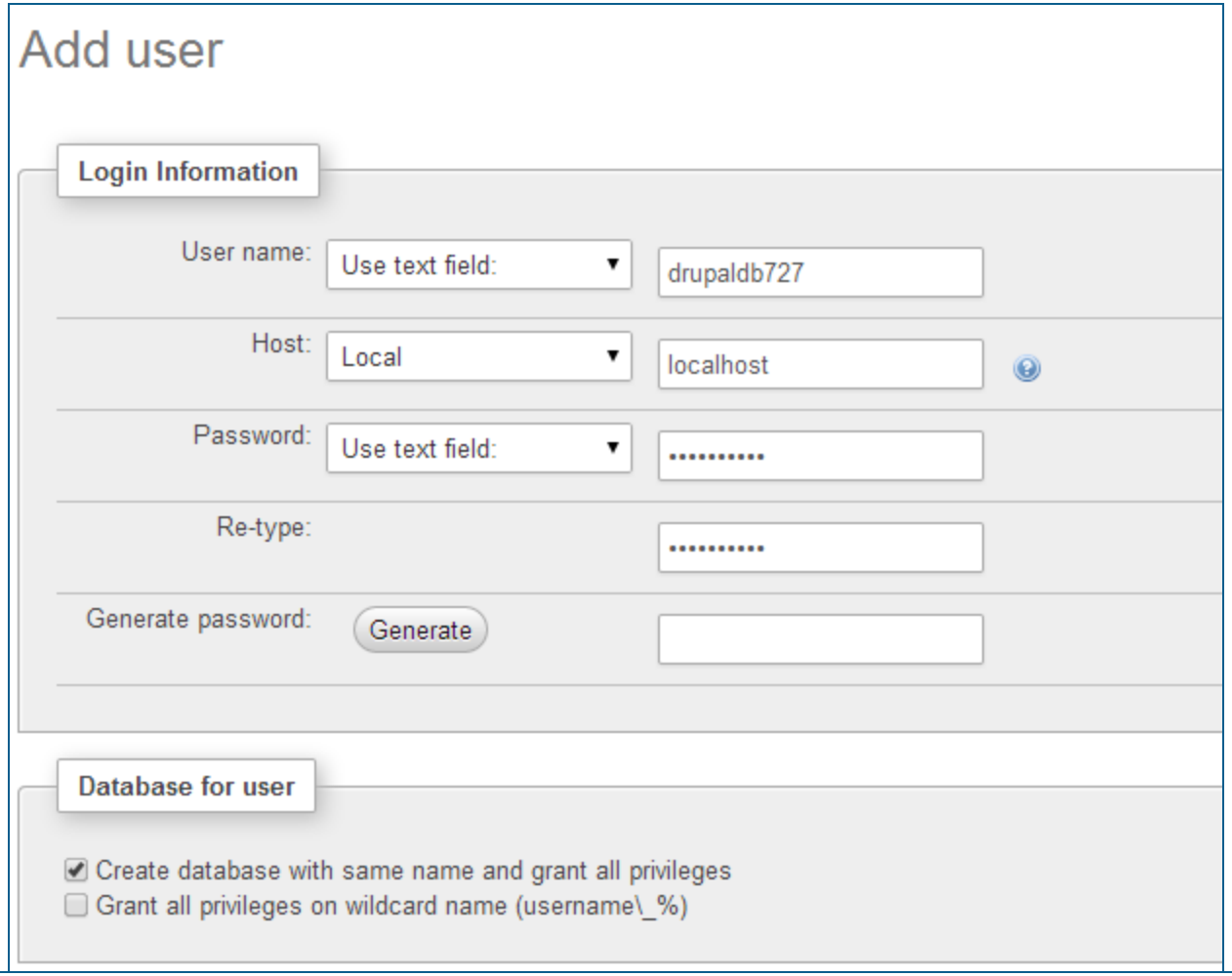

Session A - [24 x 80]
File Edit View Communication Actions Window Help
Host: 192.168.15.107 Port: 23 Workstation ID: Disconnect
Work with Object Links
Directory . . . . : /www/zendsvr6/htdocs
Type options, press Enter.
2=Edit 3=Copy 4=Remove 5=Display 7=Rename 8=Display attributes
11=Change current directory ...
Opt Object link Type Attribute Text
@LongLink STMF
adam DIR
clark DIR
drupal DIR
drupal-7.27 DIR
drupal-7.27.tar STMF
dummy.php STMF
found1 DIR
index.html STMF
More...
Parameters or command
===> ADDLNK OBJ('/www/zendsvr6/htdocs/drupal-7.27') NEWLNK(drupal)
F3=Exit F4=Prompt F5=Refresh F9=Retrieve F12=Cancel F17=Position to
F22=Display entire field F23=More options
MA A 21/007
1902 - Session successfully started

Database is Maria

- Use phpMyAdmin or something. Command line can work



Navigate to USER screen, add user



Copy the settings file and change security

- Go to PASE command shell
- Set directory cd /www/zendsvr6/htdocs/drupal-7.27/sites/default
- cp default.settings.php settings.php

- chmod a+w settings.php

- Remember where this file is as you will

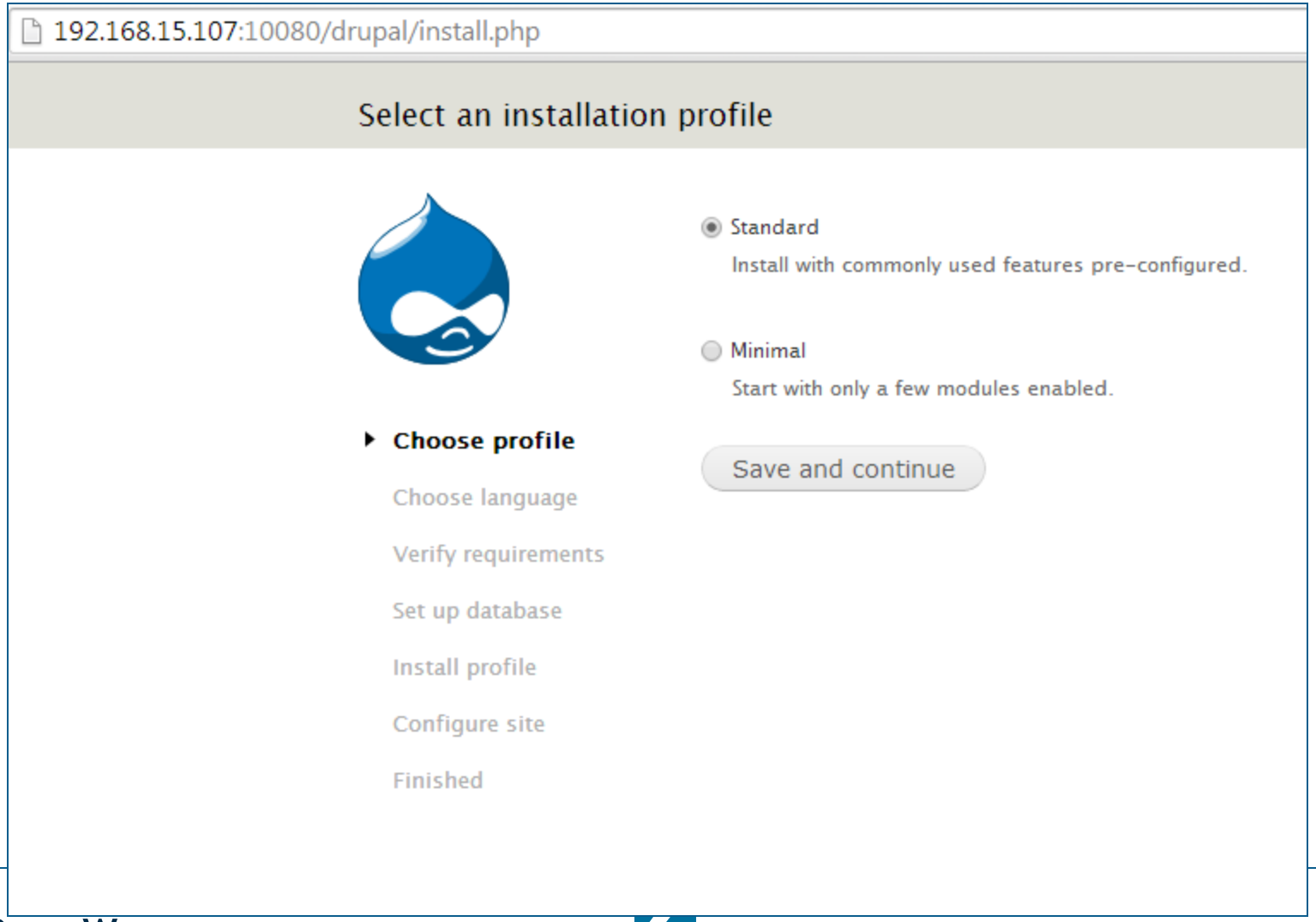
```
  $
> ls
  default.settings.php
  $
> cp default.settings.php settings.php
  $
> ls
  default.settings.php  settings.php
  $
> pwd
  /www/zendsvr6/htdocs/drupal-7.27/sites/default
  $
> chmod a+w settings.php
  $
```

Change security on the default directory

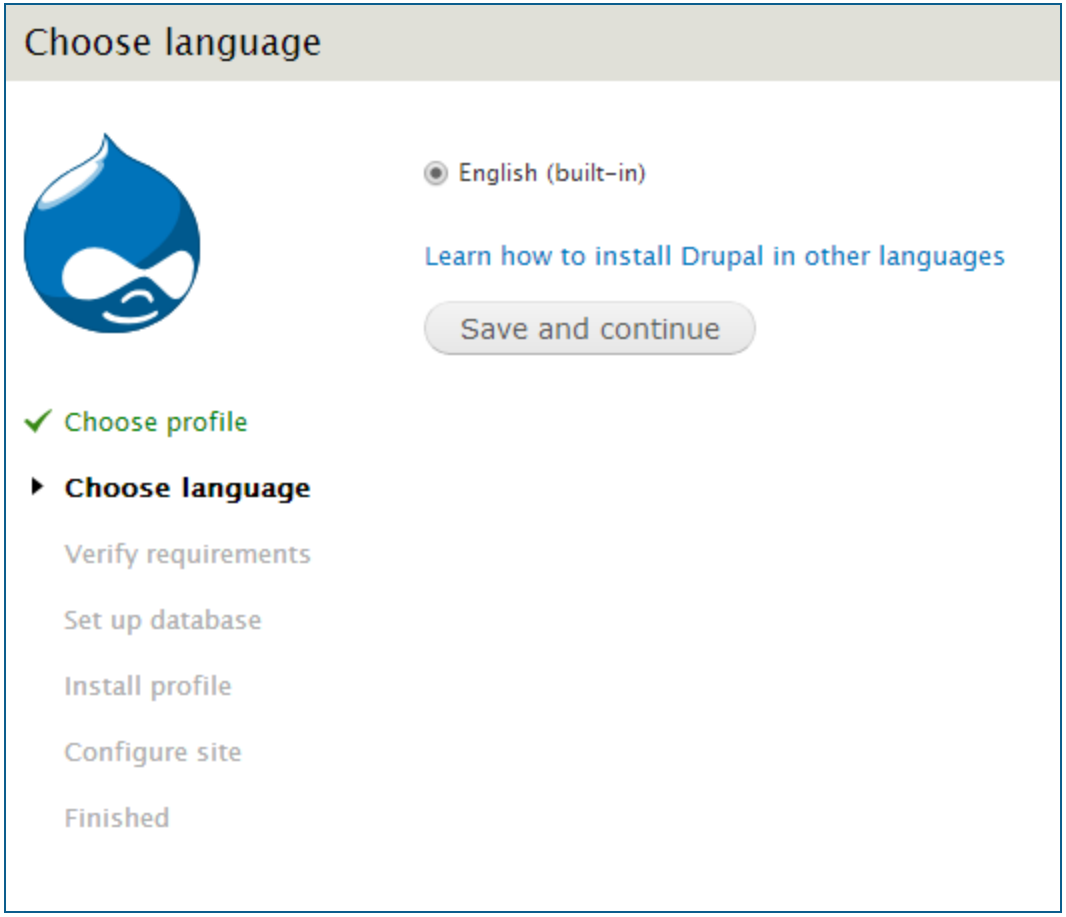
- Drupal will need to add a directory to the defaults directory
- Navigate to the sites directory and enable write access

```
> pwd
  /www/zendsvr6/htdocs/drupal-7.27/sites/default
  $
> cd..
  /QOpenSys/usr/bin/-sh: cd..:  not found.
  $
> cd ..
  $
> pwd
  /www/zendsvr6/htdocs/drupal-7.27/sites
  $
> chmod a+w default
  $
```

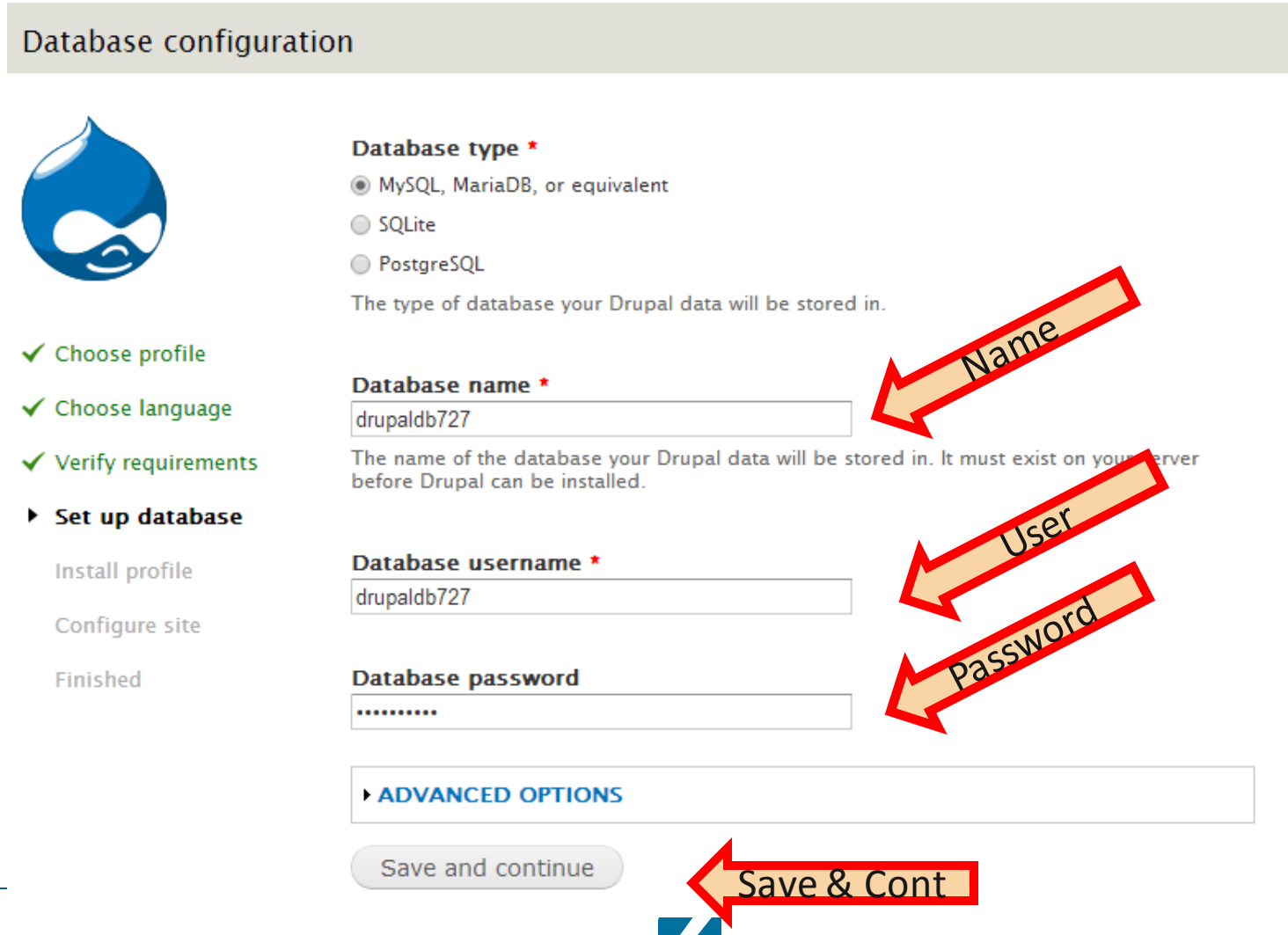
Install Drupal



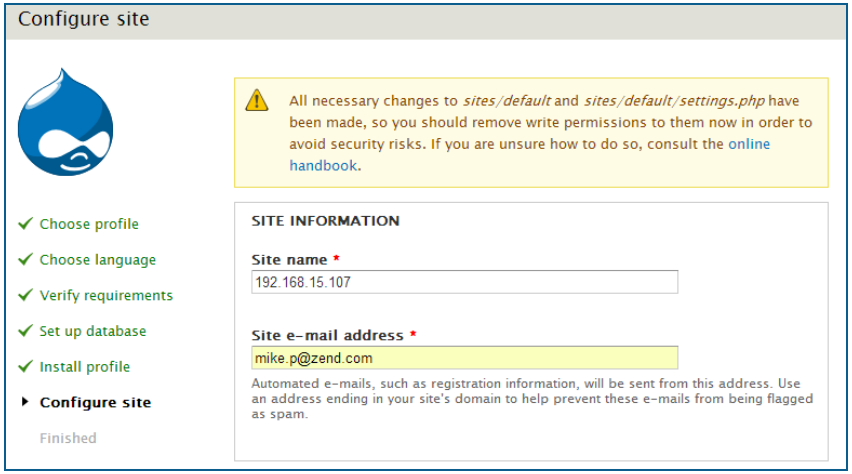
Choose a language

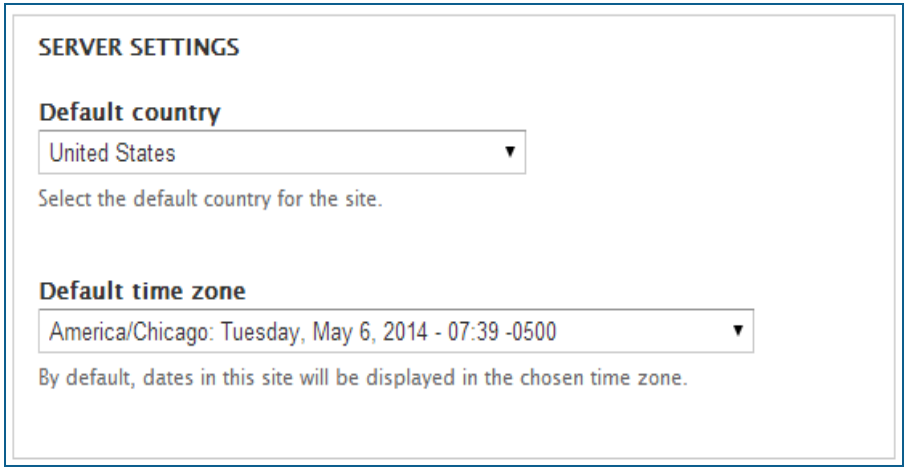


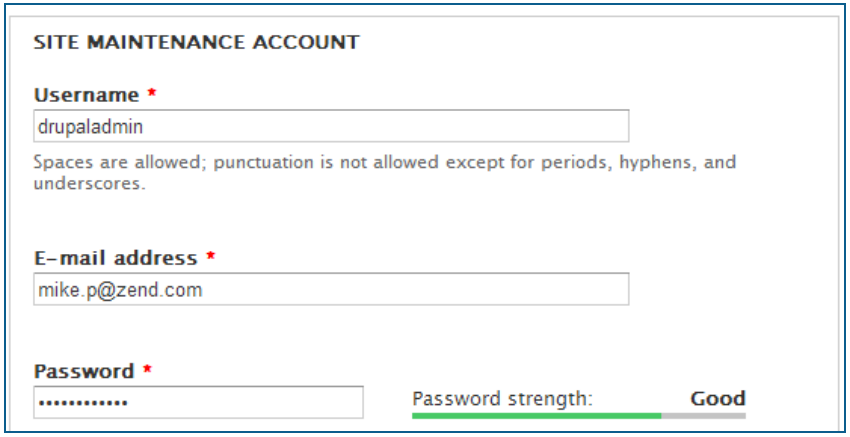
Setup database

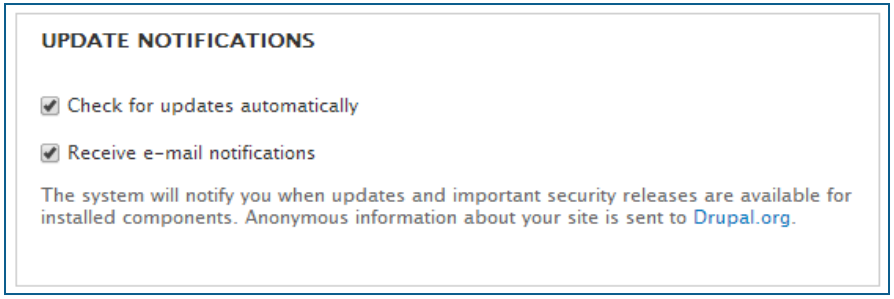


Configure


Configure site
All necessary changes to sites/default and sites/default/settings.php have been made, so you should remove write permissions to them now in order to avoid security risks. If you are unsure how to do so, consult the online handbook.
Choose profile
Choose language
Verify requirements
Set up database
Install profile
Configure site
Finished
SITE INFORMATION
Site name *
192.168.15.107
Site e-mail address *
mike.p@zend.com
Automated e-mails, such as registration information, will be sent from this address. Use an address ending in your site's domain to help prevent these e-mails from being flagged as spam.

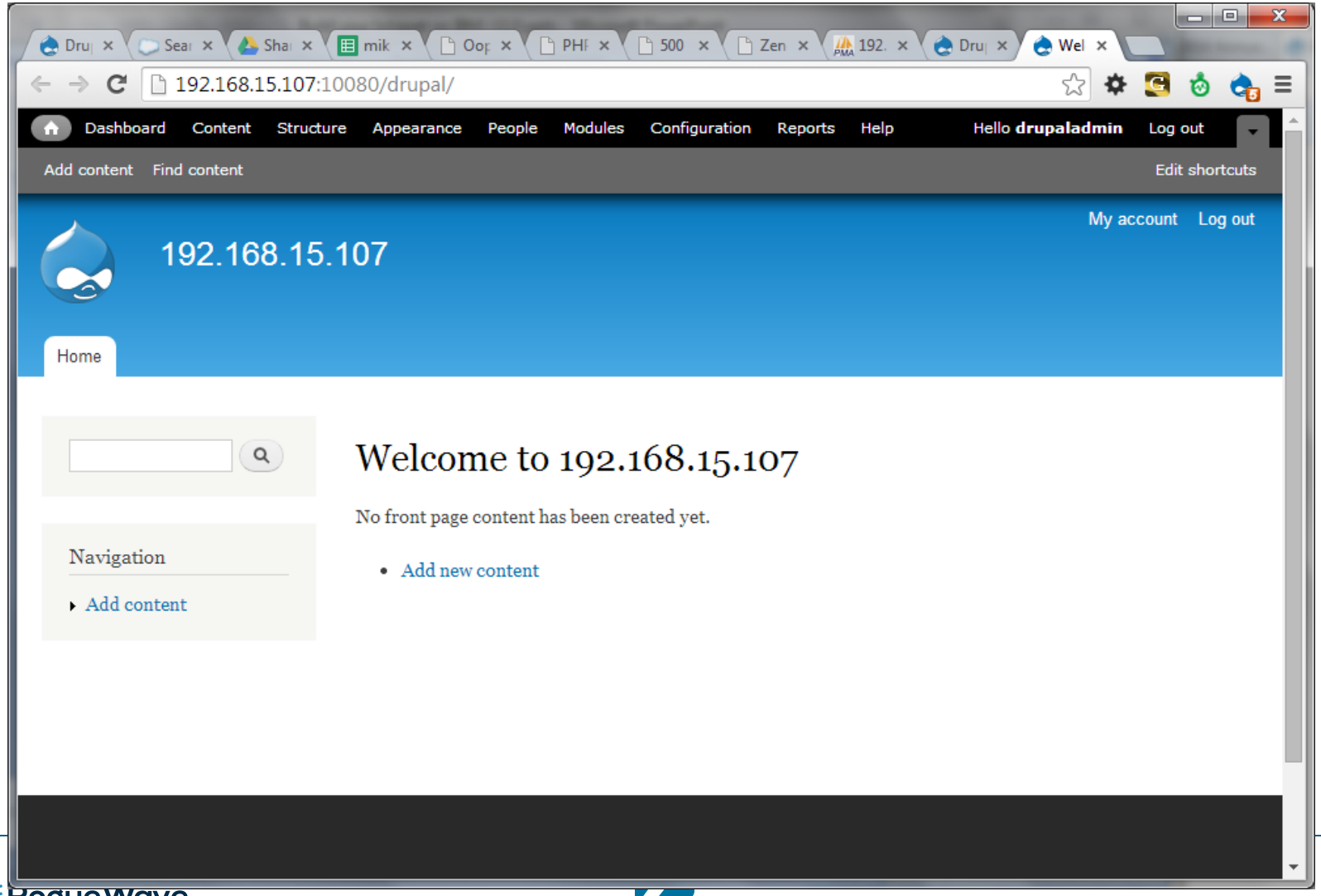

SERVER SETTINGS
Default country
United States
Select the default country for the site.
Default time zone
America/Chicago: Tuesday, May 6, 2014 - 07:39 -0500
By default, dates in this site will be displayed in the chosen time zone.


SITE MAINTENANCE ACCOUNT
Username *
drupaladmin
Spaces are allowed; punctuation is not allowed except for periods, hyphens, and underscores.
E-mail address *
mike.p@zend.com
Password *
Password strength:
Good


UPDATE NOTIFICATIONS
Check for updates automatically
Receive e-mail notifications
The system will notify you when updates and important security releases are available for installed components. Anonymous information about your site is sent to Drupal.org.

You're done with the install!!!

Your first drupal page…



Drupal, Zend Server and IBM i

www.zend.com

Drupal Tour

Tour key features of Drupal

- Module selection
- Theme selection
- Create page of content

Let’s add an article

Resources

- Drupal
  - http://drupal.org/
    - Documentation, code, downloads, modules, etc…
- Zend Server for IBM i main page, link to downloads
  - http://www.zend.com/en/products/server/zend-server-ibm-i

- My blog: Article on Samples in Zend Server!
  - http://mikepavlak.blogspot.com/

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OSS project, or framework.

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Please fill out your Session Evaluation!