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 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
Drupal, Zend Server and IBM i

www.zend.com
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 droplet)

- 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

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 Drupal core files, and extend your site with modules, themes, translations and installation profiles.

Core

Download Drupal 7.27

Distributions

About Distributions
Most Installed Distributions
New Distributions
Most Active Distributions
Search for More Distributions

Themes

About Themes & Subthemes
Most Installed Themes
New Themes
Most Active Themes
Search for More Themes

Translations

Catalan
French
Hungarian
Dutch
All Translations

Drupal Modules

Show only modules for Drupal version - Any -

Most installed
Module Categories
New Modules
Module Index
Following Drupal core development

For announcements of major initiatives and opportunities to contribute, please follow the Core announcements group (RSS feed, @drupalcore on twitter).

Change records for Drupal core

For announcements specifically around Drupal 8 (the unreleased version that is currently in development), please see http://drupal.org/community-initiatives/drupal-core and the Drupal 8 initiatives group (RSS feed).

Support Drupal.org

You can give back to the project by making a donation to help fund the Drupal.org website.

Downloads

### Recommended releases

<table>
<thead>
<tr>
<th>Version</th>
<th>Download</th>
<th>Date</th>
<th>Links</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.27</td>
<td>tar.gz (3.06 MB)</td>
<td>2014-Apr-16</td>
<td>Notes</td>
</tr>
<tr>
<td>5.31</td>
<td>tar.gz (1.05 MB)</td>
<td>2014-Apr-16</td>
<td>Notes</td>
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### Development releases

<table>
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<tr>
<th>Version</th>
<th>Download</th>
<th>Date</th>
<th>Links</th>
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<td>7.x-dev</td>
<td>tar.gz (0.05 MB)</td>
<td>2014-May-02</td>
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<td>5.x-dev</td>
<td>tar.gz (1.05 MB)</td>
<td>2014-Apr-16</td>
<td>Notes</td>
</tr>
</tbody>
</table>
Reference the installation doc

Installation Guide

- System requirements
- Step 1: Download and extract Drupal
- Step 2: Create the database
- Step 3: Create the settings.php file
- Step 4: Run the installation script
- Step 5: Set up cron
- Step 6: Configure clean URLs
- After Installation
- Additional topics

Drupal’s online documentation is © 2000-2014 by the individual contributors and can be used in accordance with the Creative Commons License, Attribution-ShareAlike 2.0. PHP code is distributed under the GNU General Public License. Comments on documentation pages are used to improve content and then deleted.
Unpack the file

- Unzip the file locally to extract the tar (7-zip works for me)
  - Or on server: jar xf files.zip
- 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...

```bash
Session A - [27 x 132]

Host: 192.168.15.107
Port: 23
Workstation ID: 

/OOpenSys/usr/bin/-sh

x drupal-7.27/themes/bartik/css/ie-rtl.css, 849 bytes, 2 media blocks.
x drupal-7.27/themes/bartik/css/layout-rtl.css, 383 bytes, 1 media blocks.
x drupal-7.27/themes/bartik/css/ie.css, 297 bytes, 1 media blocks.
x drupal-7.27/themes/bartik/css/print.css, 656 bytes, 2 media blocks.
x drupal-7.27/themes/bartik/css/style-rtl.css, 4863 bytes, 10 media blocks.
x drupal-7.27/themes/bartik/css/ie.css, 1119 bytes, 3 media blocks.
x drupal-7.27/themes/bartik/logo.png, 3479 bytes, 7 media blocks.
x drupal-7.27/themes/bartik/templates
x drupal-7.27/themes/bartik/templates/maintenance-page.tpl.php, 2566 bytes, 6 media blocks.
x drupal-7.27/themes/bartik/templates/page.tpl.php, 18238 bytes, 28 media blocks.
x drupal-7.27/themes/bartik/templates/node.tpl.php, 5404 bytes, 11 media blocks.
x drupal-7.27/themes/bartik/templates/comment.tpl.php, 4004 bytes, 8 media blocks.
x drupal-7.27/themes/bartik/templates/comment-wrapper.tpl.php, 2002 bytes, 4 media blocks.
x drupal-7.27/LICENSE.txt, 18092 bytes, 36 media blocks.
x drupal-7.27/robots.txt, 1561 bytes, 4 media blocks.
x drupal-7.27/COPYRIGHT.txt, 1481 bytes, 3 media blocks.
$

>>> tar -xvf drupal-7.27.tar
```

```
F3=Exit  F6=Print  F3=Retrieve  F11=Truncate/Wrap
F13=Clear  F17=Top  F18=Bottom  F21=CL command entry
```
### 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...

<table>
<thead>
<tr>
<th>Opt</th>
<th>Object link</th>
<th>Type</th>
<th>Attribute</th>
<th>Text</th>
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<td></td>
<td>found1</td>
<td></td>
<td>DIR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>index.html</td>
<td></td>
<td>STMF</td>
<td></td>
</tr>
</tbody>
</table>

**Parameters or command**

```bash
==> 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

---

**19:02 - Session successfully started**
Database is Maria

- Use phpMyAdmin or something. Command line can work
Navigate to USER screen, add user

Add user

Login Information

User name: Use text field: drupaldb727

Host: Local localhost

Password: Use text field: 

Re-type: 

Generate password: Generate

Database for user

- Create database with same name and grant all privileges
- Grant all privileges on wildcard name (username\_%)
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
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

```bash
> 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

Select an installation profile

- Standard
  Install with commonly used features pre-configured.

- Minimal
  Start with only a few modules enabled.

Choose profile

Choose language
Verify requirements
Set up database
Install profile
Configure site
Finished
Choose a language

Choose language

- English (built-in)

Learn how to install Drupal in other languages

Save and continue

Choose profile

- Choose language
  - Verify requirements
  - Set up database
  - Install profile
  - Configure site
  - Finished
Setup database

Database configuration

Database type *
- MySQL, MariaDB, or equivalent
- SQLite
- PostgreSQL
The type of database your Drupal data will be stored in.

Database name *
drupal727
The name of the database your Drupal data will be stored in. It must exist on your server before Drupal can be installed.

Database username *
drupal727

Database password

ADVANCED OPTIONS

Save and continue

Choose profile
Choose language
Verify requirements
Set up database
Install profile
Configure site
Finished

Name
User
Password
Save & Cont
Configure

SERVER SETTINGS

Default country
United States
Select the default country for the site.

Default time zone
America/Chicago: Tuesday, May 6, 2014 - 07:39 -0600
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

- **Article**
  Use *articles* for time-sensitive content like news, press releases or blog posts.

- **Basic page**
  Use *basic pages* for your static content, such as an 'About us' page.

No front page content has been created yet.
Resources

- Drupal
  - [http://drupal.org/](http://drupal.org/)
  - Documentation, code, downloads, modules, etc...
- Zend Server for IBM i main page, link to downloads
- My blog: Article on Samples in Zend Server!
  - [http://mikepavlak.blogspot.com/](http://mikepavlak.blogspot.com/)
ATTEND
Become a PHP authority. Connect with experts. Register now.

CELEBRATE
Unite the PHP community. Highlight your user group, OSS project, or framework.

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Spotlight your best in enterprise PHP. sponsors@zendcon.com

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Q&A

www.zend.com
mike.p@zend.com

Please fill out your Session Evaluation!