

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	1		
Product	Version	Format/Size	Notes
Zend DBi	5.1.59	<u>(ZIP) 122.03 MB</u>	<u>Readme</u>





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)







- 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





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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

ownload & Extend Drup 🗙						
C Attps://drupal.org/dow	vnload			<u>ک</u>	* 3	8
	Get Started Community	Documentation Supp	ort Download & Extend	Marketplace	About	
Drupai						
		Q Se	arch Drupal.org	Se	earch	
Drupal Homepage Log in / R	Register		Refine your s	search 👻		
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Download the Drupal Version you like...

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← → C 🔒	https://drupal.or	g/project/drupal			🔂 🏟 🧾 💩 😋
Follo	owing Drupal of	core development			View all committers
For ar Core a	nnouncements of i announcements gr	major initiatives and opportunities oup (RSS feed, @drupalcore on t	; to contribute, pl witter.).	ease follow the	Issues for Drupal core
Chang For ar devek 8 Initi	ge records for Drug nnouncements spe opment), please s iatives group (RSS	oal core ecifically around Drupal 8 (the unr ee http://drupal.org/community-i ; feed).	eleased version tl nitiatives/drupal-(nat is currently in core and the Drupal	To avoid duplicates, please search before submitting a new issue. Search Advanced search
Supp	oort Drupal.org				All issues 13639 open, 59711 total
Do	onate Now Yo	u can give back to the project by a Drupal.org website.	/ making a donatio	on to help fund	Bug report 6051 open, 29771 total Subscribe via e-mail
Dowi	nloads				Statistics New issues 163
Reco	mmended releas	es			Open bugs 6004
Vers	sion	Download	Date	Links	Participants 263
7.27		tar.gz (з.о6 мв) zip (з.49 мв)	2014-Apr-16	Notes	2 year graph, updates weekly
6.31		tar.gz (1.05 мв) zip (1.22 мв) 👘	2014-Apr-16	Notes	
Deve	lopment release	s			Resources
Vers	ion	Download	Date	Links	Read license
7.x-c	dev	tar.gz (з.о6 мв) zip (з.5 мв)	2014-May-02	Notes	Try out a demonstration
6.x-c	dev	tar.gz (1.05 мв) zip (1.22 мв)	2014-Apr-16	Notes	View project translations
View -	all releases				





Reference the installation doc

🚖 Installation Guide Drupal 🗙	
← → C 🔒 https://drupal.org/documentation/install	☆ 🕏 👌 🗞 =
Get Started Community Documentation S	Support Download & Extend Marketplace About
Drupai	
Drupal Homepage Log in / Register	Installation Guide
Community Documentation	 System requirements Step 1: Download and extract Drupal Step 2: Create the database
Community Docs Home Installation Guide Administration Guide	 Step 3: Create the settings.php file Step 4: Rup the installation script
Last updated July 19, 2013. Created by LeeHunter on April 25, 2008. Edited by tvn, silverwing, Heine, nevets. Log in to edit this page.	 Step 4: Kan the installation script Step 5: Set up cron Step 6: Configure clean URLs After Installation
This guide covers preparing for installation, running the installation script, and the step should be done after the installation script has completed. It also explains how to do a site" installation, where a number of different Drupal sites run off the same code base.	ps that Additional topics a "multi
This documentation focuses on performing tasks at the command line. For information or using graphical tools, see the documentation that accompanies the application or is proby your hosting service. Some web hosting companies also offer "one-click" installation Drupal, or specific Drupal support.	on rovided ns of Commons License, Attribution-ShareAlike
Before proceeding with your first Drupal installation, you should review the minimum requirements and best practices. Most web hosts meet these requirements. However, a stand out by also actively supporting the Drupal community. If you need hosting, consi selecting one of these web hosts https://drupal.org/install/beginners#content	a few sider content and then deleted.
	20

a Polítice Wave Camerov

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: <u>http://www.itjungle.com/fhg/fhg011112-story02.html</u>)
- 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

E sftp://mpavla	ver Bookmarks Help New	version availa	ble!		
	Cancel current operation				
Host: :p://192.: Command:	Reconnect	CTRL+R	Quickconnect		
Status: User Command: Use	Disconnect	CTRL+D	drup.27.tar.gz		
Command: sfer Status: ng d	Search remote files	F3	'upal-7.27.tar.gz" > remote:/www/zendsvr6/ht	:docs/drupal-7.27.tar.gz	-
	Enter custom <u>command</u>				
irect	Force showing Enter custom c	ommand			
\Download	ds\Software\Op GZip GZip GZip GZip GZip GZip GZip GZip GZip GZip	w FTP command ommands will clea	ar the directory cache.		
	site fiditier fit 1	1			
Filename	Filesize			Filesize Filetype	Last modified
🥌 📄 drupal-7.27.tar.gz	3,207,398	ок	Cancel	File folder	3/25/2014 7:52:
			- Clark	File folder	4/21/2014 2:07:
			퉬 found1	File folder	3/30/2014 6:36:
			퉬 jan	File folder	4/30/2014 12:2
			퉬 mpavlak	File folder	4/24/2014 10:3 🚽
			- III III III III III III III III III I	1	- F
Selected 1 file. Total size: 3,207	7,398 bytes		4 files and 12 directories. Total size	:: 21,258,752 bytes	
Server/Local file	Direction Remote file	Size	Priority Status		
📕 sftp://mpavlak@192.168.1	15				
C:\Users\mike.p\Downlo	oa>> /www/zendsvr6/htdocs/dr	up 3,207,398	Normal Transferring		
00:00:12 elapsed	00:00:12 elapsed 00:00:13 left 1.3% 1,327,104 bytes (160.0 KiB/s)				
Queued files (1) Failed tra	ansfers Successful transfers				
				🔒 🎟 Qu	eue: 3.1 MiB 🛛 🔍 🖷 🔐





Unpack output...

30 Session A - [27 x 132]		
<u>File Edit View Communication Actions Window H</u> elp		Minimize
Host: 192.168.15.107 Port: 23 Workstation ID:	Disconnect	
/QOpenSys/usr/bin/-sh		
<pre>x drupal-7.27/themes/bartik/css/ie-rtl.css, 849 bytes, 2 media blocks. x drupal-7.27/themes/bartik/css/ie6.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/style-rtl.css, 470 bytes, 3 media blocks. x drupal-7.27/themes/bartik/css/style-rtl.css, 470 bytes, 3 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/nade.tpl.php, 10230 bytes, 20 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/themes/bartik/templates/comment-wrapper.tpl.php, 2002 bytes, 4 media blocks. x drupal-7.27/tloceNSE.txt, 18092 bytes, 36 media blocks. x drupal-7.27/COPYRIGHT.txt, 1481 bytes, 3 media blocks. x drupal-7.27/COPYRIGHT.txt, 1481 bytes, 3 media blocks.</pre>		
F13=Clear F17=Top F18=Bottom F21=CL command entry		
MA A 21/007		
U 1302 - Session successiony started		





ADDLNK







Database is Maria

• Use phpMyAdmin or something. Command line can work





Welcome to phpMyAdmin

Language	
English	•

Log in Username: Password:	mpavlak	
		Go





Navigate to USER screen, add user

Add user			
Login Information			
User name:	Use text field:	drupaldb727	
Host:	Local •	localhost	Θ
Password:	Use text field:	•••••	
Re-type:		•••••	
Generate password:	Generate		
Database for user			
✓ Create database wit ☐ Grant all privileges of	h same name and grant all p on wildcard name (username)	orivileges _%)	





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







Install Drupal

192.168.15.107:10080/drupal/install.php







Choose a language







Setup database

Database configuration



Configure

Configure site	
	All necessary changes to <i>sites/default</i> and <i>sites/default/settings.php</i> 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	SITE INFORMATION
✔ Choose language	Site name *
✓ Verify requirements	192.168.15.107
🖌 Set up database	Site e-mail address *
✓ Install profile	mike.p@zend.com
Configure site	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.
Finished	

ofault country	
Jnited States	
elect the default country for the site.	
efault time zone	

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





You're done with the install!!!





Your first drupal page...

Dashboard Content Stru Add content Find content	cture Appearance People Modules Configuration Reports Help	Hello drupaladmin Log out Edit shortcu
() 192.168.1	5.107	My account Log o
Navigation • Add content	Welcome to 192.168.15.107 No front page content has been created yet. • Add new content	

zend Police Wine Comers

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

Þ	Article
_	Use articles for time-sensitive content like news, press releases or blog posts.
\geq	Basic page
	Use <i>basic pages</i> for your static content, such as an 'About us' page





Resources

- Drupal
 - <u>http://drupal.org/</u>
 - Documentation, code, downloads, modules, etc...
- Zend Server for IBM i main page, link to downloads
 - <u>http://www.zend.com/en/products/server/zend-server-ibm-i</u>
- My blog: Article on Samples in Zend Server!
 - <u>http://mikepavlak.blogspot.com/</u>





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