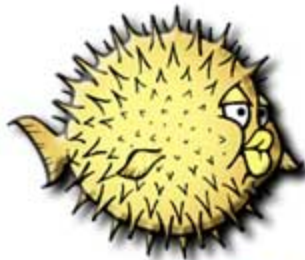


Midgard CMS Installation Guide For OpenBSD



***Open*BSD**





Midgard CMS v1.6.1 Installation Guide

OS: OpenBSD v3.5 i386

Author: Adam Douglas

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Overview

The installation of Midgard CMS is fairly simple to achieve as long as you follow the below steps in order and read the extra notes I have added. The below installation steps and notes have been compiled from experience by installing on an OpenBSD v3.5 i386 with Apache HTTP Server v1.3.29 and shell interpreter BASH 2.05b Static. Throughout the instructions the shell prompt (shell interpreter/command line) is represented by the #. Anything that follows the # is to be entered at the shell prompt.

Acknowledgements

I would like take a moment and thank all those that helped me through this process or fighting as it maybe to get Midgard CMS installed/functional. In no particular order I would like to say thanks and great appreciate all the help from the guys at <irc://irc.midgard-project.org/#midgard>, Midgard User List and [Nemein Oy](#) (Open Source Consultancy). The individuals include in no particular order, Bergie, Piotras, Torben, Rambo, SmallOne, Tarjei, Jval and Spike_Spiegel. If there was anyone else I missed I thank you for your help it was greatly appreciated. I would not have been able to do it without all of your help.

Thanks to Bergie and Nectar for looking over this document (proofing).

Dependencies

All dependencies that were not already included in OpenBSD CD-ROM installation where installed via packages or ports. I recommend that if you have the option to install as a package do the package first before having to use a port or source to install.

PHP

Make sure to have PHP installed prior to installing Midgard CMS. Also decided before hand which version of PHP you will use. If you end up installing PHP4 or PHP5 and go back and forth between different versions you will definitely experience problems. However if you have PHP installed and wish to install a newer version that is fine just make sure your web server configuration file only loads one PHP module and that your extension_dir path in php.ini is correct for the PHP version you wish to use. You can determine your extension_dir path by typing "php-config --extension-dir".

When configuring PHP I would recommend to configure with the below example. This will ensure your PHP installation will meet Midgard CMS requirements and will not limit you later to certain features.

PHP Configure Example

```
./configure --with-mysql --with-mssql=/usr/local --with-apxs --with-xml --with-zlib-dir=/usr/lib --with-expat --with-config-file-path=/var/www/conf --with-iconv=/usr/local/bin/iconv --with-exif --with-dba --with-mbstring
```

Midgard

- gmake (GNU Make)



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- libtool (GNU libtool is a generic library support script)
- gettext (translate message)
- autoconf 2.13p0 (GNU generate configuration scripts)
- automake (GNU generating `Makefile.in' files)
- bzip2 (data compressor/decompressor)

midgard-core

- glib (useful C routines, required by Repligard)
- expat (XML 1.0 parser, required by Repligard)
- zlib (compression library, comes with OpenBSD)
- MySQL database server ≥ 3.23 (≥ 4 recommended)

midgard-apache

- Apache HTTP Server ≥ 1.3 (≥ 2 recommended for new installs)
- midgard-apache2 requires these packages to be present:
 - APR
 - APR-util

midgard-php

- PHP ≥ 4.1 (≥ 4.3 recommended)

midgard-data

- Dialog $\geq 0.9a$ ($\geq 0.9b$ recommended, required by Datagard)
- ImageMagick (required by MidCOM)
- RCS (optional - required by NemeinRCS which can be used with Aegir and MidCOM)
- Perl (optional - required by Aegir in staging/live mode)
- PHP < 4.2 requires this additional package:
 - Jhead (required by MidCOM component net.siriux.photos)
- Required PHP extensions:
 - iconv (required by MidCOM)
 - dba (required by MidCOM)
 - mbstring (required by MidCOM)
 - gd ≥ 2 (required by MidCOM component de.linkm.fontrenderer)
 - PHP ≥ 4.2 requires this additional extension:
 - exif (required by MidCOM component net.siriux.photos)
- Required PEAR packages:
 - Mail (required by MidCOM helper mailtemplate)
 - Mail_Mime (required by MidCOM helper mailtemplate)

Midgard CMS Installation

Midgard-core/lib Installation

Download Midgard

Download the Midgard_AllinOne, easier to deal with and saves your self a few steps.

lynx http://www.midgard-project.org/midcom-serveattachmentguid-6d76cd6e3d62aeca67bd70129fce98c5/Midgard_AllinOne.tar.bz2



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```
# bunzip2 -d Midgard_AllinOne.tar.gz2
# tar -xvf Midgard_AllinOne.tar
# cd Midgard_AllinOne
# cd midgard-core-1.6.0
# ./configure --with-repligard-owner=_mysql
```

If you require to have `--with-mysql`, `--with-iconv` or `--with-expat` you can verify the paths using `ldconfig -r`. This will list the contents of dynamic linker hints file. Paths for the above parameters.

```
--with-mysql=/usr/local/lib/mysql
--with-iconv=/usr/local/lib
--with-expat=/usr/local/lib
```

```
# gmake
# gmake install
# gmake clean
```

Midgard-apache1

```
# cd Midgard-AllinOne
# cd midgard-apache1-1.6.0
# ./configure --with-apxs=/usr/sbin/apxs
# gmake
# gmake install
# gmake clean
#
```

Midgard-php 4

```
# ./mkall --with-apxs=/usr/sbin/apxs
```

If you experience an error message that states "Provide an AUTOCONF_VERSION environment variable, please". This means you have multiple versions of autoconf installed. Doing the following instead (without quotes), `env AUTOCONF_VERSION=2.13 ./mkall`. Replace the version number with the one you have installed.

If you experience "ltconfig: you must specify a host type if you use '--no-verify' Try 'ltconfig --help' for more information." This means you picked the wrong autoconf version for the libtool you installed. Try the same thing mentioned above but change the version number.

Add `extension=midgard.so` into your `php.ini` file.

Add the extensions path to `extension_dir`. Type `"php-config --extension-dir"`. Place the returned path into your `php.ini` file.

Midgard-data

```
# ./configure --with-midgard-config=/usr/local/midgard-config --with-mysql-
config=/usr/local/bin/mysql_config --with-apxs=/usr/sbin/apxs --with-apache-user=www --with-
dialog=/usr/local/bin/dialog
```

```
# make install
# datagard
```



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What is MySQL admin name? admin
What is MySQL admin password? password

Select Install New Database

What is the name for database? midgard
Username for Midgard' database? midgard
Password for Midgard' database? midgard

Error Notes

If you get "datagard: command not found." Make sure datagard is in your path. In my case the path that should be in your path is /usr/local/sbin.

If you get "bash: /usr/local/sbin/datagard: /bin/bash: bad interpreter: No such file or directory" make sure the first line in the datagard file is correct to where your bash is installed (ex. /usr/local/bin/bash).

If you receive dialog usage information when you run datagard then you have the wrong version installed. I tried using dialog 0.3, dialog 0.6z, dialog 0.61a, cdialog 0.9a and none of them worked. I finally tried cdialog 1.0-20040920 from http://ftp.debian.org/debian/pool/main/d/dialog/dialog_1.0-20040920.orig.tar.gz.

Dialog

```
# ./configure  
# gmake  
# gmake install  
# gmake clean.
```

MidCOM

Before starting, make sure you have your Pear path set in your php.ini file. If not edit your php.ini file and add to the include_path "/usr/share/pear" without quotes and restart Apache HTTP server.

You can install MidCOM via the Midgard-AllinOne but it is recommended to install the latest version of MidCOM via the below choices. Remember though that if you are choosing CVS that you are getting the latest and greatest but it may not be production ready (buggy).

Install via Tarball (FS MidCOM)

Download the latest stable release from the MidCOM project page,
<http://www.midgard-project.org/projects/midcom/download/>.

```
# bunzip2 MidCOM-2.0.0.tar.bz2  
# tar xvf MidCOM-2.0.0.tar /usr/share/pear/  
# cd /usr/share/pear  
# mv MidCOM-2.0.0/ /usr/share/pear  
# cd /usr/share/pear  
# mv MidCOM-2.0.0/ midcom
```

You will require the FS midcom-template.xml. At this point and time you will have to get that from CVS.

```
# lynx http://midcom.tigris.org/source/browse/midcom/fs-midcom/midcom-template/midcom-template.xml  
# mv midcom-template.xml /usr/local/share/midgard/data/  
# datagard  
    Import
```



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Midcom-template

Create symbolic link static directory to your DocumentRoots

```
# ln -s /usr/share/pear/midcom/static /var/local/lib/midgard/vhosts/vhost_name_here/80/midcom-static
```

Install via CVS (FS MidCOM)

Note: Password is null (just press enter).

```
# export CVSROOT=:pserver:anoncvs@cvs.tigris.org:/cvs'  
# cvs login  
# cvs -z3 checkout midcom/fs-midcom
```

Copy midcom-template.xml

Note: Overwrite midcom-template.xml that is already in /usr/local/share/midgard/data/.

```
# cp fs-midcom/midcom-template.xml /usr/local/share/midgard/data/  
# datagard  
  Import  
  Select Database  
  Username for Midgard' database?  
  Password for Midgard' database?  
  Check off midcom-template.xml  
  Sitegroup's admin username?  
  Sitegroup's admin password?
```

Copy FS MidCOM

```
# mv -R fs-midcom /usr/share/pear/  
# cd /usr/share/pear  
# mv fs-midcom/ midcom
```

Create symbolic link static directory to your DocumentRoots

```
# ln -s /usr/share/pear/midcom/static /var/local/lib/midgard/vhosts/vhost_name_here/80/midcom-static
```

Making Changes to the php.ini file

You will need to edit your php.ini file to ensure you have a few settings set.

```
# vi /var/www/logs/php.ini
```

Make sure you have the following settings.

```
extension=midgard.so  
file_uploads=on  
short_open_tag=on.
```

Making Changes to the Midgard httpd.conf

Location: /usr/local/etc/midgard/apache/httpd.conf

Make sure to edit the Midgard httpd.conf file if you are using Midgard-apache1.

Comment or remove the first two lines of the Midgard httpd.conf file. The first line is only applicable for Migard-apache2 and the second will error out if already set in your Apache /var/www/conf/httpd.conf file.



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Aegir-Dirs

Aegir-Dirs is required for those that wish to have CVS (concurrent version system). If you experience the below error message make sure you do the following two steps.

1. If Aegir-Dirs is not installed:
 - a. Download Aegir-Dirs from <http://www.midgard-project.org/midcom-serveattachmentguid-2427ab8928b550b46e9038ae849168b6/Aegir-1.0-dirs.tgz> to your root directory.
 - b. # tar zxvf Aegir-1.0-dirs.tgz
You should now have the files installed to /var/lib/aegir.
2. Make sure permissions are set correctly on /var/lib/aegir/cvs directory. The HTTP Server needs write permissions.

OpenBSD Permissions

```
# chown www:www /var/lib/aegir/cvs
```

Error Message

please configure write access to /var/lib/aegir/cvs
e.g. mkdir /var/lib/aegir/cvs
chown nobody nobody /var/lib/aegir/cvs for Red Hat 6
chown apache apache /var/lib/aegir/cvs for Red Hat 7
chown www-data www-data /var/lib/aegir/cvs for Debian

Errors After Installation

If the error you are experiencing is not listed below please feel free to contact me to see about adding the error in.

Pear Mail/Mail_Mime Package Error

If you experience the following error that refers to mailtemplate or mailmime. This means you don't have Pear Mail or Pear Mail_mime package installed. Install Pear Mail package by typing "pear install Mail".

Example

```
Warning: main(Mail.php): failed to open stream: No such file or directory in /usr/share/pear/midcom/lib/midcom/helper/mailtemplate.php on line 17
```

```
Fatal error: main(): Failed opening required 'Mail.php' (include_path='.:usr/local/share/php/pear') in /usr/share/pear/midcom/lib/midcom/helper/mailtemplate.php on line 17
```

Pear Install -Segmentation fault

If you are experiencing "segmentation fault" when trying to do a Pear package install, do the following.

1. Comment out "extension=midgard.so" line in php.ini.
2. Restart Apache HTTP Server.
3. Re-run Pear package install (i.e. pear install Mail).
4. Uncomment out "extension=midgard.so" line in php.ini.
5. Restart Apache HTTP Server.



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PHP CLI Segmentation Fault

Midgard CMS will crash PHP CLI if its loaded in the global php.ini. Add PHP settings to your Apache HTTP Server configuration file `/var/www/conf/httpd.conf`. Put the below PHP settings into your `httpd.conf` file. This may also go into your Midgard `httpd.conf` if you want. Make sure to restart your Apache HTTP Server so configuration changes take affect.

```
php_value extension midgard.so  
php_value register_globals 1
```

Warning Unknown(../midcom.php): failed to open stream

If you experience the below error message, you will need to change the Path to Filesystem MidCOM. Open your browser and browse to your web site with `/midcom-admin/settings/` (ex. `www.yoursite.com/midcom-admin/settings/`). Once you have logged in via the web page you should be presented with the "MidCOM Site Settings". Set the "Path to Filesystem MidCOM to the correct path where you have FS MidCOM installed. If you have it installed in the default location (`/usr/share/pear/midcom/`) leave the field blank. If the path is in the default location and you enter the default location into the field you will experience the below error message.

Example

```
Warning: Unknown(/usr/local/share/php/pear/midcom/midcom.php): failed to open  
stream: No such file or directory in /usr/lib/apache/modules/midgard-root-  
nommp.php(41) : eval()'d code on line 281
```

```
Fatal error: (null)(): Failed opening required  
'/usr/local/share/php/pear/midcom/midcom.php'  
(include_path='./usr/local/lib/php') in /usr/lib/apache/modules/midgard-  
root-nommp.php(41) : eval()'d code on line 281
```

Credits

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