



FREE eBook

LEARNING joomla

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#joomla

Table of Contents

About	1
Chapter 1: Getting started with joomla	2
Remarks.....	2
Versions.....	2
Examples.....	2
Installation.....	2
Chapter 2: Full Joomla installation via SSH	4
Parameters.....	4
Remarks.....	4
Examples.....	5
Installing Joomla with SSH - full cycle.....	5
Credits	7

About

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Chapter 1: Getting started with Joomla

Remarks

Joomla is a free and open-source content management system (CMS) for publishing web content. It is built on a model–view–controller web application framework that can be used independently of the CMS.

Joomla is written in PHP, uses object-oriented programming (OOP) techniques (since version 1.5) and software design patterns, stores data in a MySQL, MS SQL (since version 2.5), or PostgreSQL (since version 3.0) database, and includes features such as page caching, RSS feeds, printable versions of pages, news flashes, blogs, search, and support for language internationalization.

Versions

Version	Release Date
1.0	2005-09-22
1.5 (LTS)	2008-01-22
1.6	2011-01-10
1.7	2011-07-19
2.5 (LTS)	2012-01-24
3.0	2012-09-27
3.1	2013-04-24
3.2	2013-11-06
3.3	2014-04-30
3.4	2015-02-24
3.5	2016-03-21
3.6(Latest version as of writing)	2016-07-12

Examples

Installation

Detailed instructions on Joomla installation can be found on its [official website documentation](#).

Read [Getting started with Joomla online](#): <https://riptutorial.com/joomla/topic/2123/getting-started-with-joomla>

Chapter 2: Full Joomla installation via SSH

Parameters

Variable	Explanation
JUSERID	Random user id
JUSERNAME	Specified login for admin user
JUSEREMAIL	Specified email for admin user
JUSERPASS	Specified password (will be hashed)
DB	Specified Database name
DBUSER	Specified Database user for joomla
DBPASS	Specified Database user password for joomla
DBPREFIX	Specified Database Prefix
JOOMLAVERSION	Joomla version to be installed

Remarks

Setting up the machine to run installation script was like:

```
## Install needed commands (apt-add-repository)
apt-get update
apt-get -y install software-properties-common -q
apt-get -y install python-software-properties -q
### Install apache
apt-add-repository ppa:ptn107/apache
apt-get update
apt-get install -y apache2
## Install git
apt-get install -y git
## Intall mysql
debconf-set-selections <<< 'mysql-server mysql-server/root_password password qweasd'
debconf-set-selections <<< 'mysql-server mysql-server/root_password_again password qweasd'
apt-get -y install mysql-server
## mysql_secure_installation
### Install PHP7
apt-add-repository -y ppa:ondrej/php
apt-get update
apt-get install php7.0 php7.0-fpm php7.0-mysql php7.0-xml libapache2-mod-php7.0 php7.0-curl
php7.0-sqlite php7.0-xdebug php7.0-mcrypt php7.0-gd php-mbstring -y
a2enmod proxy_fcgi setenvif
a2enmod mcrypt
a2enconf php7.0-fpm
```

```
apache2ctl restart
```

This will set up Apache 2.4 that is required by PHP7

Also you may want to dirty install phpMyAdmin in Joomla subfolder for example

```
wget --no-check-certificate https://files.phpmyadmin.net/phpMyAdmin/4.6.3/phpMyAdmin-4.6.3-  
all-languages.zip -P /var/tmp/  
unzip /var/tmp/phpMyAdmin-4.6.3-all-languages.zip -d /var/public_html/  
mv phpMyAdmin-4.6.3-all-languages phpmyadmin  
mv phpmyadmin/config.sample.inc.php phpmyadmin/config.inc.php
```

Examples

Installing Joomla with SSH - full cycle

Setup variables

```
JUSERID=${ ( $RANDOM % 100 ) + 1 }  
JUSERNAME="admin"  
JUSEREMAIL="admin@localhost.com"  
JUSERPASS="qweasd"  
DB="joomla_3"  
DBUSER="jdbuser"  
DBPASS="dbupass"  
DBPREFIX="prfx_"  
JOOMLAVERSION="3.6.2"
```

Delete initial index.html

```
rm -f /var/public_html/index.html
```

Download Joomla version specified above

```
wget https://github.com/joomla/joomla-  
cms/releases/download/$JOOMLAVERSION/Joomla_${JOOMLAVERSION}-Stable-Full_Package.zip -P  
/var/tmp/
```

Install unzip and unzip

```
apt-get install unzip  
unzip /var/tmp/Joomla_${JOOMLAVERSION}-Stable-Full_Package.zip -d /var/public_html
```

Change folder

```
cd /var/public_html
```

Change configuration.php values as needed (according to vars set up above)

```
sed -i "s/\$user = ''/\$user = '${DBUSER}'/" installation/configuration.php-dist
sed -i "s/\$password = ''/\$password = '${DBPASS}'/" installation/configuration.php-dist
sed -i "s/\$db = ''/\$db = '${DB}'/" installation/configuration.php-dist
sed -i "s/\$dbprefix = 'jos_'/\$dbprefix = '${DBPREFIX}'/" installation/configuration.php-dist
sed -i "s/\$tmp_path = '/tmp'/\$tmp_path = '/var/public_html/tmp'"
installation/configuration.php-dist
sed -i "s/\$log_path = '/var/logs'/\$log_path = '/var/public_html/logs'/"
installation/configuration.php-dist
sed -i "s/\$cache_handler = 'file'/\$cache_handler = ''/" installation/configuration.php-dist
```

Move configuration.php to where it needs to be

```
mv installation/configuration.php-dist configuration.php
```

Create DB and Joomla DB user

```
echo "CREATE DATABASE ${DB}" | mysql -u root --password=qweasd
echo "CREATE USER '${DBUSER}'@'%' IDENTIFIED BY '${DBPASS}';" | mysql -u root --
password=qweasd
echo "GRANT ALL ON ${DB}.* TO '${DBUSER}'@'%';" | mysql -u root --password=qweasd
```

Initialize joomla DB by sql

```
sed -i "s/#__/${DBPREFIX}/" installation/sql/mysql/joomla.sql
cat installation/sql/mysql/joomla.sql | mysql -u $DBUSER --password=$DBPASS $DB
```

Create Joomla Admin user

```
JPASS="$(echo -n "$JUSERPASS" | md5sum | awk '{ print $1 }' )"
echo "INSERT INTO \`${DBPREFIX}users\` (\`id\`, \`name\`, \`username\`, \`email\`,
\`password\`, \`block\`, \`sendEmail\`, \`registerDate\`, \`lastvisitDate\`, \`activation\`,
\`params\`, \`lastResetTime\`, \`resetCount\`, \`otpKey\`, \`otep\`, \`requireReset\`) VALUES
('${JUSERID}', 'Me', '${JUSERNAME}', '${JUSEREMAIL}', '${JPASS}', '0', '0', '0000-00-00
00:00:00.000000', '0000-00-00 00:00:00.000000', '', '', '0000-00-00 00:00:00.000000', '0', '',
'', '0');" | mysql -u $DBUSER --password=$DBPASS $DB
echo "INSERT INTO \`${DBPREFIX}user_usergroup_map\` (\`user_id\`, \`group_id\`) VALUES
('${JUSERID}', '8');" | mysql -u $DBUSER --password=$DBPASS $DB
JUSERINC= JUSERID+1
echo "ALTER TABLE \`${DBPREFIX}users\` auto_increment = ${JUSERINC};" | mysql -u $DBUSER --
password=$DBPASS $DB
```

Remove installation folder

```
rm -rf installation/
```

Read Full Joomla installation via SSH online: <https://riptutorial.com/joomla/topic/5858/full-joomla-installation-via-ssh>

Credits

S. No	Chapters	Contributors
1	Getting started with Joomla	Community , James
2	Full Joomla installation via SSH	Alexandr