
sdocs

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sdocs is an akronym for small/simple dokumentation

Contents:

OVERVIEW

Warning:

- # A collection of Howto's, Guides, Snippets collected from the web
- # Only for private use and there ist no warranty for correct information
- # You use it at your own risk, and all information is copyrighted by the owner
- # Most of this Source is written and collected by Jeffrey Scherling ^a

^a Have Fun!

See also:

Google, for the source of these informations.

Note: This document was generated on 2014-12-02 at 23:54.

this is the index of sdocs

2.1 Sphinx

a quick start guide

I Prerequisites

1. python
2. sphinx
3. webbrowser or pdfviewer

II Build the documentation

1. enter sphinx-quickstart # create the root directory of documentation
2. edit conf.py # set the output to your needs
3. create your docu name.rst
4. add name.rst to index.rst
5. make html, latexpdf or linkcheck

III Look at the Documentation

1. open index.html with your webbrowser
2. open projectname.pdf with your pdfviewer

IV Markup

- markup <http://sphinx-doc.org/rest.html>
- links <http://sphinx-doc.org/markup/inline.html#ref-role>
- markup code <http://sphinx-doc.org/markup/code.html>
- guide <http://docs.python-guide.org/en/latest/writing/documentation/>

2.2 Webserver

webserver and their configuration

2.2.1 Nginx

- **nginx configuration**

- config files
- websites configs

this is the main nginx configuration file [nginx.conf](#)

```
user      amorsql amorsql; # user group of processes
worker_processes 2;

events {
    worker_connections 1024;
}

http {
    include                mime.types;
    default_type           application/octet-stream;
    gzip                   on;
    gzip_min_length        5000;
    gzip_buffers            4 8k;
    gzip_types              text/plain text/css application/x-javascript text/xml application/
    gzip_proxied            any;
    gzip_comp_level         2;
    ignore_invalid_headers  on;
    include                 sites-enabled/*;

    # test it
    sendfile                on;
}
```

2.3 Ftpserver

Ftpserver and their configuration

2.3.1 Vsftpd

configuration of vsftpd

http://www.basicconfig.com/linuxnetwork/ftp_server#check-vsftpd <http://wiki.ubuntuusers.de/vsftpd>

```
# Example config file /etc/vsftpd.conf
#
#
# The default compiled in settings are fairly paranoid. This sample file
# loosens things up a bit, to make the ftp daemon more usable.
# Please see vsftpd.conf.5 for all compiled in defaults.
#
# READ THIS: This example file is NOT an exhaustive list of vsftpd options.
# Please read the vsftpd.conf.5 manual page to get a full idea of vsftpd's
# capabilities.
#
# Allow anonymous FTP? (Beware - allowed by default if you comment this out).
anonymous_enable=NO
#
```

```

# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
# Default umask for local users is 077. You may wish to change this to 022,
# if your users expect that (022 is used by most other ftpd's)
# default
local_umask=022
#
#
#
# Uncomment this to allow the anonymous FTP user to upload files. This only has an effect if the above
#anon_upload_enable=YES
#
# Uncomment this if you want the anonymous FTP user to be able to create
# new directories.
#anon_mkdir_write_enable=YES
#
# Activate directory messages - messages given to remote users when they
# go into a certain directory.
dirmessage_enable=YES
#
# Activate logging of uploads/downloads.
xferlog_enable=YES
#
# Make sure PORT transfer connections originate from port 20 (ftp-data).
connect_from_port_20=YES
#
# If you want, you can arrange for uploaded anonymous files to be owned by a different user. Note! U
# recommended!
#chown_uploads=YES
#chown_username=whoever
#
# You may override where the log file goes if you like. The default is shown
# below.
xferlog_file=/var/log/vsftpd.log
#
# If you want, you can have your log file in standard ftpd xferlog format. Note that the default log
xferlog_std_format=YES
#
# You may change the default value for timing out an idle session.
#idle_session_timeout=600
#
# You may change the default value for timing out a data connection.
#data_connection_timeout=120
#
# It is recommended that you define on your system a unique user which the ftp server can use as a t
nopriv_user=ftpsecure
#
# Enable this and the server will recognise asynchronous ABOR requests. Not recommended for security
# however, may confuse older FTP clients.
#async_abor_enable=YES
#
# By default the server will pretend to allow ASCII mode but in fact ignore the request. Turn on the
# mangling on files when in ASCII mode.
# Beware that on some FTP servers, ASCII support allows a denial of service

```

```
# attack (DoS) via the command "SIZE /big/file" in ASCII mode. vsftpd
# predicted this attack and has always been safe, reporting the size of the
# raw file.
# ASCII mangling is a horrible feature of the protocol.
#ascii_upload_enable=YES
#ascii_download_enable=YES
#
# You may fully customise the login banner string:
#ftpd_banner="_____Welcome to my ftp Site!_____"
#
# customize your login
banner_file=/etc/vsftpd.banner_file
#
# You may specify a file of disallowed anonymous e-mail addresses. Apparently
# useful for combatting certain DoS attacks.
#deny_email_enable=YES
# (default follows)
#banned_email_file=/etc/vsftpd.banned_emails
#
# You may specify an explicit list of local users to chroot() to their home
# directory. If chroot_local_user is YES, then this list becomes a list of
# users to NOT chroot().
# (Warning! chroot'ing can be very dangerous. If using chroot, make sure that
# the user does not have write access to the top level directory within the
# chroot)
# dangerous don't use it
chroot_local_user=NO
chroot_list_enable=YES
passwd_chroot_enable=YES
chroot_list_file=/etc/vsftpd.chroot_list
#
# You may activate the "-R" option to the builtin ls. This is disabled by
# default to avoid remote users being able to cause excessive I/O on large
# sites. However, some broken FTP clients such as "ncftp" and "mirror" assume
# the presence of the "-R" option, so there is a strong case for enabling it.
ls_recurse_enable=YES
#
# When "listen" directive is enabled, vsftpd runs in standalone mode (rather
# than from inetd) and listens on IPv4 sockets. To use vsftpd in standalone
# mode rather than with inetd, change the line below to 'listen=YES'
# This directive cannot be used in conjunction with the listen_ipv6 directive.
listen=NO
#
# This directive enables listening on IPv6 sockets. To listen on IPv4 and IPv6
# sockets, you must run two copies of vsftpd with two configuration files.
# Make sure, that one of the listen options is commented !!
#listen_ipv6=YES
#
# adds by jeff
#
# allow write with chroot
allow_writeable_chroot=YES
#
# access to only this users
userlist_deny=NO
userlist_enable=YES
userlist_file=/etc/vsftpd.user_list
#
```

```
# ssl
#ssl_enable=NO
#ssl_sslv2=YES
#create ssl - Zertifikat for ssl using
#openssl req -x509 -nodes -days 365 -newkey rsa:1024 -keyout /etc/ssl/private/vsftpd.pem -out /etc/ssl/certs/vsftpd.pem
#
# guests remapping all non anonymous to this login
#guest_enable=YES
#guest_username=ftpuser
#
max_clients=3
max_per_ip=2
#
tilde_user_enable=YES
#
# hide and deny files and directories
hide_file={"/media,/gamma_sftp}
deny_file={"/media,/gamma_sftp}
#
# ftp commands to deny
# deny change to the parent of the current working directory.
#cmds_denied=XCUP
#
# set the default mmask
#file_open_mode=0777
#
#
#
```

restart the process

root@gamma:~# /etc/rc.d/rc.inetd restart Starting Internet super-server daemon: /usr/sbin/inetd

customize the login with vsftpd.banner_file

```

Welcome to my ftp Site!_____
      ooo          ooo
      oo          oo
ooo    oo  oooo  oooo  oo  ooo ooo          ooo oooo  ooo ooo  oooo
oo      oo      oo oo      oo oo  oo  oo  oo      oo  ooo oo oo oo
ooo      oo  ooooo  oo      oooo      oo oooo oo  ooooo  oo      oooooo
oo  oo  oo  oo  oo      oo oo      ooo  ooo  oo  oo  oo      oo
ooooo  oooo  oooooo  oooo  ooo  ooo  oo  oo  oooooo  oo      ooooo
User 1_____
```

allow user who are permitted to login with vsftpd.user_list

```
User 1
User 2
User 3
```

allow user who are login with chroot in a jail with vsftpd.chroot_list

```
User 1
User 2
User 3
```

2.4 Databases

configuration of different databases

2.4.1 MariaDB

Howto Setup MariaDB

I Prerequisites

1. mariadb-5.5.40-x86_64-2.txz
2. privileged user only for sql-data, mostly mysql

II Installation for Slackware

1. use slackpkg
2. use sbopkg
3. use SlackBuild scripts

III Configuration

Howto: http://docs.slackware.com/howtos:databases:install_mariadb_on_slackware

1. mysql_install_db --user=mysql
2. chown -R mysql.mysql /var/lib/mysql
3. chown 755 /etc/rc.d/rc.mysqld
4. /etc/rc.d/rc.mysqld start
5. mysqladmin -u root password 'NEW_PASSWORD'
6. use phpmyadmin to manage databases

```
root@gamma:~# mysql_install_db --user=mysql
Installing MariaDB/MySQL system tables in '/var/lib/mysql' ...
OK
Filling help tables...
OK
```

To start mysqld at boot time you have to copy
support-files/mysql.server to the right place for your system

PLEASE REMEMBER TO SET A PASSWORD FOR THE MariaDB root USER !
To do so, start the server, then issue the following commands:

```
'/usr/bin/mysqladmin' -u root password 'new-password'
'/usr/bin/mysqladmin' -u root -h gamma password 'new-password'
```

Alternatively you can run:

```
'/usr/bin/mysql_secure_installation'
```

which will also give you the option of removing the test
databases and anonymous user created by default. This is
strongly recommended for production servers.

See the MariaDB Knowledgebase at <http://mariadb.com/kb> or the
MySQL manual for more instructions.

You can start the MariaDB daemon with:
`cd '/usr' ; /usr/bin/mysqld_safe --datadir='/var/lib/mysql'`

You can test the MariaDB daemon with `mysql-test-run.pl`
`cd '/usr/mysql-test' ; perl mysql-test-run.pl`

Please report any problems at <http://mariadb.org/jira>

The latest information about MariaDB is available at <http://mariadb.org/>.
 You can find additional information about the MySQL part at:
<http://dev.mysql.com>
 Support MariaDB development by buying support/new features from
 SkySQL Ab. You can contact us about this at sales@skysql.com.
 Alternatively consider joining our community based development effort:
<http://mariadb.com/kb/en/contributing-to-the-mariadb-project/>

root@gamma:~#

2.4.2 PostgreSQL

Howto Setup Postgresql

I Prerequisites

1. `postgresql-5.1.tar.gz`
2. privileged user only for `sql-data`

II Installation for Slackware

1. use `slackpkg`
2. use `sbopkg`
3. use SlackBuild scripts

III Configuration

1. create database

```
root@gamma:~# su amorsql -c "initdb -D /var/lib/pgsql/9.3/data --locale=en_US.UTF-8 -A md5 -W"
```

could not change directory to "/root": Permission denied
 The files belonging to this database system will be owned by user "amorsql".
 This user must also own the server process.

The database cluster will be initialized with locale "en_US.UTF-8".
 The default database encoding has accordingly been set to "UTF8".
 The default text search configuration will be set to "english".

Data page checksums are disabled.

```
fixing permissions on existing directory /var/lib/pgsql/9.3/data ... ok
creating subdirectories ... ok
selecting default max_connections ... 100
selecting default shared_buffers ... 128MB
creating configuration files ... ok
creating template1 database in /var/lib/pgsql/9.3/data/base/1 ... ok
initializing pg_authid ... ok
Enter new superuser password:
```

```
Enter it again:
setting password ... ok
initializing dependencies ... ok
creating system views ... ok
loading system objects' descriptions ... ok
creating collations ... ok
creating conversions ... ok
creating dictionaries ... ok
setting privileges on built-in objects ... ok
creating information schema ... ok
loading PL/pgSQL server-side language ... ok
vacuuming database template1 ... ok
copying template1 to template0 ... ok
copying template1 to postgres ... ok
syncing data to disk ... ok

Success. You can now start the database server using:
```

```
postgres -D /var/lib/pgsql/9.3/data
or
pg_ctl -D /var/lib/pgsql/9.3/data -l logfile start

root@gamma:~#
```

2. start the database

3. change user and group to what you set, edit rc.postgresql

```
root@gamma:~# /etc/rc.d/rc.postgresql start
Starting PostgreSQL
waiting for server to start.... done
server started
root@gamma:~#
```

4. manage databases with phpPgAdmin

2.4.3 PHPmyadmin

Howto Setup PHPmyadmin

I Prerequisites

1. phpmyadmin-4.2.11-noarch-1js.txz

II Installation for Slackware

1. use slackpkg
2. use sbopkg
3. use SlackBuild scripts

III Configuration

Setup: <http://wiki.phpmyadmin.net/pma/Setup> Quick-Install: http://wiki.phpmyadmin.net/pma/Quick_Install

1. cd phpMyAdmin
2. mkdir config # create directory for saving
3. chmod o+rw config # give it world writable permissions

4. cp config.inc.php config/ # copy current configuration for editing
5. chmod o+w config/config.inc.php # give it world writable permissions
6. open <http://phpmyadmin/setup/> # see nginx config
7. mv config/config.inc.php . # move file to current directory
8. chmod o-rw config.inc.php # remove world read and write permissions
9. open <http://phpmyadmin/>
10. login with root login and password
11. start administration

2.4.4 phpPgAdmin

Howto Setup phpPgAdmin

I Prerequisites

1. phpPgAdmin-5.1-noarch-1.js

II Installation for Slackware

1. use slackpkg
2. use sbopkg
3. use SlackBuild scripts

III Configuration

Setup: <http://phppgadmin.sourceforge.net/doku.php>

2.5 Drupal

setup drupal: <https://www.drupal.org/start> drupal with nginx: <http://wiki.nginx.org/Drupal>

2.6 Django

Howto Setup a Nginx, Django, PostgreSQL, Gunicorn deployment

I Prerequisites

1. server: nginx
2. framework: django
3. databank: postgresql (mariadb)
4. python-translator: gunicorn (uwsgi)

Addons a. virtual environments: virtualenv b. documentation: sphinx c. maybe pip for easy installation

II Installation for Slackware

1. use slackpkg
2. use sbopkg

3. use SlackBuild scripts

III Configuration

2.6.1 Django-Setup

Howto Setup Django

I Prerequisites

1. webserver environment with php and database
2. framework: django
3. python-translator: gunicorn (uwsgi)

Addons a. virtual environments: virtualenv

II Installation for Slackware

1. use slackpkg
2. use sbopkg
3. use SlackBuild scripts

III Configuration

2.6.2 Gunicorn

I Build your First App with Gunicorn

```
$ sudo pip install virtualenv
$ mkdir ~/environments/
$ virtualenv ~/environments/tutorial/
$ cd ~/environments/tutorial/
$ ls
bin  include  lib
$ source bin/activate
(tutorial) $ pip install gunicorn
(tutorial) $ mkdir myapp
(tutorial) $ cd myapp/
(tutorial) $ vi myapp.py
(tutorial) $ cat myapp.py
```

```
def app(environ, start_response):
    data = "Hello, World!\n"
    start_response("200 OK", [
        ("Content-Type", "text/plain"),
        ("Content-Length", str(len(data)))
    ])
    return iter([data])
```

```
(tutorial) $ ../bin/gunicorn -w 4 myapp:app
```

```
2010-06-05 23:27:07 [16800] [INFO] Arbiter booted
2010-06-05 23:27:07 [16800] [INFO] Listening at: http://127.0.0.1:8000
2010-06-05 23:27:07 [16801] [INFO] Worker spawned (pid: 16801)
2010-06-05 23:27:07 [16802] [INFO] Worker spawned (pid: 16802)
```

```
2010-06-05 23:27:07 [16803] [INFO] Worker spawned (pid: 16803)
2010-06-05 23:27:07 [16804] [INFO] Worker spawned (pid: 16804)
```

2.7 Github

Howto Setup Github

I Prerequisites

1. git
2. ssh
3. login on github

II Installation for Slackware

1. use slackpkg
2. use sbopkg
3. use SlackBuild scripts

III Configuration

1. quick setup

create ssh key add ssh key create a repo in github push your changes to your repo

2. setup github <https://help.github.com/articles/set-up-git/>

see too man git or man gittutorial:

```
git config --global user.name "YOUR NAME"
git config --global user.email "YOUR EMAIL ADDRESS"
```

3. initialisize repo and push it to remote repo with same name

```
cd repo touch README.md git init git add README.md git commit -m "first commit" git remote add origin
git@github.com:githubuser/repo.git git push -u origin master
```

IV How to use it

1. simple howtos

<http://githowto.com/setup> <http://gitreal.codeschool.com/levels/1>

V Other Dokumentation

1. create a repo

<https://help.github.com/articles/create-a-repo/>
<https://help.github.com/articles/fork-a-repo/>
<https://help.github.com/articles/be-social/>

2. sync a fork

<https://help.github.com/articles/syncing-a-fork/>
<https://help.github.com/articles/pushing-to-a-remote/>

3. git docs

<http://git-scm.com/>

VI Use the Repo

1. e.g. fork sphinx docs on readthedocs

<https://readthedocs.org/>

2.8 Backup

cool backup software

<http://www.cyberciti.biz/open-source/awesome-backup-software-for-linux-unix-osx-windows-systems/>

2.8.1 Rsnapshot

<http://www.rsnapshot.org/>

2.9 Readthedocs

a cool site for documentations

<https://readthedocs.org/>

TODO

- setup git (in progress)
- setup readthedocs (in progress)
- setup ftpserver
- send vitali and achim link to photos
- setup phpPgAmdin
- setup postgresql
- setup gunicorn
- setup django
- setup mini server
- setup mutt and sendmail
- read root mail from rsnapshot

DONE

- setup rsnapshot (finished)

INDICES AND TABLES

- *genindex*
- *modindex*
- *search*