
ezhost Documentation

Release 1.2.5

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Jun 26, 2017

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EzhostPythonLAMPLNMP

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python3-pip

EzhostPython3Ezhostpython3-pip

```
# python3-pip
$ sudo apt-get install python3-pip
```

Ezhost

EzhostUbuntu

```
#
$ sudo apt-get install libffi-dev libssl-dev
$ sudo pip3 install cryptography pynacl
```

pip3Ezhost

```
# Ezhost
$ sudo pip3 install ezhost
```


CHAPTER 2

Ezhost

```
$ ezhost -H host -U user -P password [keyword]
```

SSH KEY

```
$ ezhost -H host -U user -K ~/.ssh/keyfile.pem [keyword]
```

/config/ **ezhost.ini**

```
1 [develop_server]
2 host=hostd
3 user=userd
4 passwd=passwordd
5
6 [test_server]
7 host=hostt
8 user=usert
9 keyfile=~/.ssh/keyfile.pem
```

Note: SSH KEY passwd=password keyfile=~/.ssh/keyfile.pem.SSH KEY~/.ssh/keyfile.pem

```
$ ezhost -C /config/ezhost.ini develop_server [keyword]
```

[keyword]

[keyword]EzhostLAMP[keyword] *-s lamp*

```
$ ezhost -C development.ini -s lamp
```

-H

-U

-P

-K SSH KEY

-C

CHAPTER 3

```
-f --force
```

git

```
-gp /var/www/html/project --git-pull /var/www/html/project
```

Note: /var/www/html/project git

```
-login --login
```

Mysql

MysqlMysql

```
-my --mysql
```

```
-ap  --active-port
```

LAMP

Linux + Apache + Mysql + PHP

```
-s lamp --server lamp
```

- Mysql: password
- Web: /var/www/html
- phpinfo: /var/www/html/info.php

```
$ sudo service apache2 restart
```

LNMP Server

Linux + Nginx + Mysql + PHP

```
-s lnmp --server lnmp
```

- nginx: /etc/nginx/sites-available/default
- Mysql: password
- Web: /var/www/html
- phpinfo: /var/www/html/info.php

```
# php5
$ sudo service php5-fpm restart

# php7
$ sudo service php7.0-fpm restart

# nginx
$ sudo service nginx restart
```

Django Web

Django + Mysql

```
-s django -p project_name --server django --project project_name
```

Note: -p project_name project_name Django demo

- Mysql: password
- : /var/www/html/project_name
- Python: ~/.project_name

DjangoMysql

,DjangoSqlite3,Mysql

- “/var/www/html/project_name/project_name/settings.py”

```
$ cd /var/www/html/project_name/project_name
$ vim settings.py
```

- Mysql

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'HOST': 'localhost',
        'NAME' : 'your_database_name',
        'USER' : 'root',
        'PASSWORD' : 'password'
    }
}
```

- Django

```
$ source ~/.project_name/bin/activate
```

- /var/www/html/project_name

```
$ cd /var/www/html/project_name
$ python manage.py migrate
```

Django Web

Django + Uwsgi + Nginx + Supervisor

```
-s django-uwsgi -p project_name --server django-uwsgi --project project_name
```

- : /var/www/html/project_name
- python: ~/.project_name
- Mysql: password
- nginx: /etc/nginx/sites-enabled/default
- uwsgi: /var/www/html/project_name/project_name.ini
- supervisor: /etc/supervisor/conf.d/project_name_sysd.conf
- django: /var/log/project_name_out.log
- django: /var/log/project_name_error.log

```
# nginx
$ service nginx restart

# uwsgi
$ sudo supervisorctl restart project_name

# uwsgi
```

```
$ sudo supervisorctl start project_name  
  
# supervisor  
$ sudo supervisorctl reread  
$ sudo supervisorctl update
```

supervisor

```
# ubuntu 16supervisor  
$ sudo systemctl enable supervisor  
$ sudo systemctl start supervisor  
  
# ubuntu 14  
$ sudo update-rc.d supervisor enable
```

LNMPWordpress

LNMPWordpress

```
-s lnmp-wordpress -p news --server lnmp-wordpress --project news
```

Note: -p --project wordpress

WordpressMysqlMysql

1. Mysql

```
$ ezhost -H host -U user -P password --mysql
```

2.

```
mysql> create database name_you_want;
```

- Mysql: password
- : /var/www/html/news

This is the Read The Docs API documentation, autogenerated from the source code.

ezhost.ServerAbstract

class `ezhost.ServerAbstract.ServerAbstract`

Server abstract class, all server should extend from it

apache_dir_index

Currently, if a user requests a directory from the server, Apache will first look for a file called index.html.

We want to tell our web server to prefer PHP files, so we'll make Apache look for an index.php file first.

apache_web_dir

default apache project dir

command_path

Currently command path

django_uwsgi_ini

This ini file is django uwsgi configuration

django_uwsgi_with_nginx

This ini file nginx configuration with uwsgi application

host_keyfile

Host keyfile getter

host_passwd

Host password getter

host_string

Returns: str: hostname string

host_user

Host user getter

install()

All subclass need implement this function

mysql_password

Mysql password

nginx_php7_web_config

Nginx web config

nginx_php7_web_wordpress_config

Nginx web wordpress config

nginx_ssl_dir

ssl directory

nginx_web_config

Nginx web config

nginx_web_dir

default apache project dir

nginx_web_ssl_config

Nginx web ssl config

nginx_web_wordpress_config

Nginx web wordpress config

phpinfo

In order to test that our system is configured properly for PHP, we can create a very basic PHP script.

project

project getter

python_env_dir

Python virtualenv dir

server_type

Server type getter

supervisor_config_dir

supervisor control config dir

supervisor_etc_dir

supervisor control config dir

supervisor_uwsgi_ini

supervisor control uwsgi configuration

ezhost.ServerBase

Base class for all server class

class ezhost.ServerBase.**ServerBase**(args, configure_obj)

Server command bootstrap class

init_host()

Initial host

install()

install the server

ezhost.ServerCommon

This class is used for create the common command such as mysql install, nginx install and so on..

Author: Zhe Xiao Github: <https://github.com/zhexiao/ezhost.git>

class ezhost.ServerCommon.**ServerCommon**
All common function will create inside this class.

```
common_config_nginx_ssl()  
    Convert nginx server from http to https  
  
common_install_apache2()  
    Install apache2 web server  
  
common_install_mysql()  
    Install mysql  
  
common_install_nginx()  
    Install nginx  
  
common_install_python_env()  
    Install python virtualenv  
  
common_update_sys()  
    update system package
```

ezhost.ServerLamp

This class is aim to install lamp server(Linux, Apache, Mysql and PHP) into your local environment.

Usage: \$ sudo pip install ezhost \$ ezhost -s lamp -H 127.0.0.1:2201 -U vagrant -P vagrant

Author: Zhe Xiao Github: <https://github.com/zhexiao/ezhost.git>

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