

项目部署

Django + uwsgi + nginx

1、安装 nginx

sudo apt-get install nginx

```
tarena@tedu:~$ sudo apt-get install nginx
[sudo] tarena 的密码:
正在读取软件包列表... 完成
正在分析软件包的依赖关系树
正在读取状态信息... 完成
下列软件包是自动安装的并且现在不需要了:
  linux-headers-4.4.0-21 linux-headers-4.4.0-21-generic
  linux-image-4.4.0-21-generic linux-image-extra-4.4.0-21-generic
使用 'sudo apt autoremove' 来卸载它(它们)。
将会同时安装下列软件:
  nginx-common nginx-core
建议安装:
  fcgiwrap nginx-doc
下列【新】软件包将被安装:
  nginx nginx-common nginx-core
升级了 0 个软件包, 新安装了 3 个软件包, 要卸载 0 个软件包, 有 378 个软件包未被升级。
有 2 个软件包没有被完全安装或卸载。
需要下载 458 kB 的归档。
解压缩后会消耗 1,482 kB 的额外空间。
您希望继续执行吗? [Y/n] y
获取:1 http://mirrors.aliyun.com/ubuntu xenial-updates/main amd64 nginx-common a
ll 1.10.3-0ubuntu0.16.04.2 [26.6 kB]
获取:2 http://mirrors.aliyun.com/ubuntu xenial-updates/main amd64 nginx-core amd
```

2、安装 uwsgi

sudo pip3 install uwsgi

```
tarena@tedu:~/uwsgi$ sudo pip3 install uwsgi
The directory '/home/tarena/.cache/pip/http' or its parent directory is not owned
d by the current user and the cache has been disabled. Please check the permissi
ons and owner of that directory. If executing pip with sudo, you may want sudo's
-H flag.
The directory '/home/tarena/.cache/pip/' or its parent directory is not owned by
the current user and caching wheels has been disabled. check the permissions and
owner of that directory. If executing pip with sudo, you may want sudo's -H fla
g.
Collecting uwsgi
  Downloading https://files.pythonhosted.org/packages/98/b2/19b34b20662d11f7d2f
926cdf10e13381761dd7dbd10666b9076cbdc22/uwsgi-2.0.17.tar.gz (798kB)
    100% |#####| 798kB 164kB/s
Installing collected packages: uwsgi
  Running setup.py install for uwsgi ... done
Successfully installed uwsgi-2.0.17
You are using pip version 8.1.1, however version 10.0.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
tarena@tedu:~/uwsgi$
```

3、确保 django 项目可以正常启动

4、部署 uwsgi

在用户主目录下创建目录 uwsgi ,里面来创建 uwsgi 的配置文件,每一个项目需要创建一个单独的配置文件,一般以 项目名_uwsgi.ini 方式命名(此处以部署 friutday 项目为例)

```
$ mkdir uwsgi
$ cd uwsgi
$ vi friutday_uwsgi.ini

[uwsgi]
```

```
socket = 127.0.0.1:8002
chdir = /home/tarena/friutday_1
wsgi-file = friutday/wsgi.py
processes = 4
threads = 2
stats = 127.0.0.1:8080
vhost = true
```

5、部署 nginx 服务

```
$ sudo -i
$ cd /etc/nginx/sites-enabled/
$ vi project_nginx.conf
server {
    listen 8000;
    server_name fruitday.abc;
    charset utf-8;
    client_max_body_size 75M;
    location /static {
        alias /home/tarena/project/friutday/static;
    }
    location / {
        include uwsgi_params;
        uwsgi_pass 127.0.0.1:8002;
        #include /home/tarena/project/friutday/uwsgi_params;
    }
}
```

6、拷贝 uwsgi_params 文件

```
$ sudo cp /etc/nginx/uwsgi_params /home/tarena/project/friutday
```

7、重启 nginx 服务

```
$ sudo /etc/init.d/nginx restart
```

```
tarena@tedu: ~/uwsgi
tarena@tedu:~/uwsgi$ sudo /etc/init.d/nginx restart
[ ok ] Restarting nginx (via systemctl): nginx.service.
tarena@tedu:~/uwsgi$
```

8、收集静态文件

8.1 在项目的 settings.py 中添加如下语句：

```
STATIC_ROOT = '/home/tarena/project/friutday/static/'
```

```
142
143 STATIC_URL = '/static/'
144 STATIC_ROOT = '/home/tarena/project/friutday/static/'
145
```

8.2 在终端收集所有静态文件

```
$ python3 manage.py collectstatic
```

```
tarena@tedu: ~/project/friutday
tarena@tedu:~/project/friutday$ python3 manage.py collectstatic
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/SelectBox.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/cancel.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/change_form.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/actions.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/urlify.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/inlines.min.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/collapse.min.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/inlines.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/jquery.init.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/prepopulate_init.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/popup_response.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/vendor/jquery/jquery.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/vendor/jquery/jquery.min.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/vendor/jquery/jquery.mobile.js'
Copying '/usr/local/lib/python3.5/dist-packages/django/contrib/admin/static/admin/js/vendor/jquery/jquery.min.js'
Copying '/home/tarena/project/friutday/memberapp/static/images/goods/goods002.jpg'
Copying '/home/tarena/project/friutday/memberapp/static/images/goods/goods014.jpg'
Copying '/home/tarena/project/friutday/memberapp/static/images/goods/goods401.jpg'
Copying '/home/tarena/project/friutday/memberapp/static/images/goods/goods003.jpg'
Copying '/home/tarena/project/friutday/memberapp/static/images/goods/goods005.jpg'
Copying '/home/tarena/project/friutday/memberapp/static/css/main.css'
Copying '/home/tarena/project/friutday/memberapp/static/css/reset.css'
154 static files copied to '/home/tarena/project/friutday/static'.
tarena@tedu:~/project/friutday$
```

8、用 uwsgi 启动 friutday 项目

```
tarena@tedu: ~/uwsgi
tarena@tedu:~/uwsgi$ sudo apt-get install uwsgi-plugin-python3
正在读取软件包列表... 完成
正在分析软件包的依赖关系树
正在读取状态信息... 完成
下列软件包是自动安装的并且现在不需要了:
  linux-headers-4.4.0-21 linux-headers-4.4.0-21-generic
  linux-image-4.4.0-21-generic linux-image-extra-4.4.0-21-generic
使用 'sudo apt autoremove' 来卸载它(它们)。
建议安装:
  python3-uwsgidecorators
下列【新】软件包将被安装:
  uwsgi-plugin-python3
升级了 0 个软件包，新安装了 1 个软件包，要卸载 0 个软件包，有 378 个软件包未被升级。
有 2 个软件包没有被完全安装或卸载。
需要下载 74.0 kB 的归档。
解压缩后会消耗 259 kB 的额外空间。
获取:1 http://mirrors.aliyun.com/ubuntu xenial-updates/universe amd64 uwsgi-plugin-python3 amd64 2.0.12-Subuntu3.1 [74.0 kB]
已下载 74.0 kB，耗时 0秒 (141 kB/s)
正在选中未选择的软件包 uwsgi-plugin-python3。
正在读取数据库 ... 85%
```



The screenshot shows the '天天果园' (Tian Tian Guo Yu) website. On the left, there is a large image of an avocado. To its right, the text '日夜兼程 · 急速送达' (Day and night, rapid delivery) is displayed vertically. On the right side of the page, there is a white login box with the title '用户登录' (User Login) and a green '立即注册' (Register Now) link. The login form includes fields for '请输入用户名' (Please enter username) and '请输入密码' (Please enter password), a checkbox for '记住用户名' (Remember username), a '忘记密码' (Forgot password) link, and a green '登录' (Login) button.

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