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Robert's blog

Tuesday, March 27, 2012 Pages Home Gunicorn + Nginx - a much better way to deploy your Django About me website **Blog Archive** I've been a lighttpd + FastCGI django user for a long time. Now there's a better solution -> gunicorn. **2015 (1) 2014 (2)** What is a gunicorn? **2013 (2)** Gunicorn 'Green Unicorn' is a Python WSGI HTTP Server for UNIX. It's a pre-fork worker **2012** (10) model ported from Ruby's Unicorn project. The Gunicorn server is broadly compatible with **09** (3) various web frameworks, simply implemented, light on server resources, and fairly speedy. ▶ 06 (2) If you are a fastcgi user, please check gunicorn asap. I'm sure you will get much more from your **04 (1)** hardware :-) ▼ 03 (2) Ps: Note that you get the most if database is not the bottleneck. That's why you should use cache Gunicorn + Nginx - a much everywhere if possible. better way to deploy you... Django HTML5 date input Here's my script for gunicorn + daemontools for supervising: widget with i18n support a.. ▶ 02 (2) **2009 (3)** # SITE PATH is a directory where settings.py is stored SITE_PATH=/var/www/django/projects/my_project/; export SITE_PATH **2008 (6)** USER=www-data **2007 (4)** TCP=127.0.0.1:8888 exec setuidgid \$USER /usr/bin/gunicorn django -b \${TCP} -w 3 --max-requests=1000 \${<mark>6የተም</mark>ሳለች}settings.py 2>&1 · Ruch Wolność i Godność · TaiChi, KungFu, Qigong - YMAA Seems like wsgi is also recommended with the new 1.4 version of Django Gdynia If you're new to deploying Django and/or Python, we'd recommend you try $\underline{\mathsf{mod_wsgi}}$ first. In most cases it'll be the easiest, fastest, and most stable deployment choice. Check diango site for more information. Forgot to mention that I've switched from lighttpd to Nginx. You can use the script above with the following nginx config: server { listen xx.xx.xx.xx:80; server name domain.com www.domain.com; root /var/www/django/projects/my_project/public; access_log /var/log/nginx/domain-access.log; rewrite ^/admin(.*) https://domain.com/admin\$1 permanent; location = /favicon.ico { access_log off; log_not_found off; } location /media { root /var/www/django/projects/my_project/django/contrib/admin; location /static { root /var/www/django/projects/my project/site media; access_log off; location /site_media { root /var/www/django/projects/my_project;

proxy set header X-Forwarded-For \$remote addr;

location / {

proxy_pass_header Server; proxy_set_header Host \$http_host;

proxy_connect_timeout 10;

proxy_set_header X-Scheme \$scheme;

proxy_redirect off;

```
proxy_read_timeout 10;
proxy_pass http://127.0.0.1:8888/;
}
```

There's a trick you need to apply to get the real ip of the request source as seen in the line:

```
proxy_set_header X-Forwarded-For $remote_addr;
```

Here's a code I'm using:

```
class XForwardedForMiddleware(object):
    def process_request(self, request):
        if "HTTP_X_FORWARDED_FOR" in request.META:
            ip = request.META["HTTP_X_FORWARDED_FOR"]
            if ip.startswith('::ffff:'):
                 ip = ip[len('::ffff:'):]
            request.META["REMOTE_ADDR"] = ip
            request.META["REMOTE_HOST"] = None
```

Add XForwardedForMiddleware to your settings.py MIDDLEWARE_CLASSES setting.

```
Autor: Robert o 12:30 PM

Etykiety: django, gunicorn, nginx, performance, python, wsgi
```

5 comments:

Anonymous said...

According to benchmarks, Gunicorn does not provide sufficient performance benefits over mod_wsgi. If you are already using nginx, I'd use uWSGI which is faster than Gunicorn and better integrated into nginx.

March 28, 2012 at 1:04 AM

Anonymous said...

Thanks for info. I know about uWSGI but have not tested it yet on my application. Will do some tests and publish the result.

March 28, 2012 at 1:25 AM

huxley said...

Yeah, according to benchmarks that are the equivalent of hello world.

In real life, with a real web app, the wsgi server is not a significant performance drag.

Even the uWSGI guys say that performance is not a factor (they prefer that people pick uWSGI because they need flexibility and extendibility rather than performance).

The real benefit to using the nginx proxy to gunicorn is that it needs far less memory than even a tuned mod_wsgi/Apache install.

March 28, 2012 at 3:07 PM

Anonymous said...

Gevent or fapws are faster!

http://nichol.as/benchmark-of-python-web-servers http://www.fapws.org/

Note: FAPWS support django out of the box!

April 7, 2012 at 9:08 AM

Anonymous said...

http://nichol.as/benchmark-of-python-web-servers is over two year old.

June 14, 2012 at 3:01 AM

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