**nginx 安装**

[tengine](<http://tengine.taobao.org/book/>)

[nginx](http://nginx.org/)

nginx是一个高性能，轻量级开源的WEB服务器 配置简单，列灵活，高并发（表态小文件），占用资源小3W高并发，10个纯种消耗150m .

nginx三大功能： web服务（邮件服务） 负载均衡（反向代理proxy)，缓存服务器（相当于squid，cnd主要用于SQUID)

WEB服务

其本身仅支持静态页负，但可以配合PHP动态服务实现

1. 提供静态服务（图片，视频）另一个是lighttpd,并发，几万并发，
2. 提供动态服务 nginx+ fastcgi的方式运行php, jsp, 动态并发。nginx通过fastcgi客户端和fastcgi服务端(PHP)通话。 fastcgi(通用网络接口)
3. 反向代理（proxy）服务，或者称为负载均衡。 PV2000万以下，并发1万以下，都可以用Nginx做反向代理
4. 提供缓存服务，类似squid, varnish,

选择版本时我们一般会选择稳定(stable),发布时间 超过3-6个月之后的版本

LAMP, AP必须在一起   
LNMP， NP可以分开

## 准备工作

在安装nginx之前需要安装两个包 pcre openssl 。Pcre全称（Perl Compatible Regular Experssions），中文perl兼容正则表达式，官方站点为http://www.pcre.org/，安装pcre库是为了使Nginx支持HTTP Rewrite模块。

$ yum -y install pcre-devel openssl-devel  
$ useradd nginx -M -s /sbin/nologin  
$ tar xf nginx-1.6.3.tar.gz   
$ cd nginx-1.6.3  
$ ./configure --prefix=/application/nginx-1.6.3 --user=nginx --group=nginx --with-http\_ssl\_module --with-http\_stub\_status\_module   
$ make && make install  
$ ln -s /application/nginx-1.6.3/ /application/nginx

然后可以查看版本

$ /application/nginx/sbin/nginx -v  
nginx version: nginx/1.6.3  
$ /application/nginx/sbin/nginx -V  
nginx version: nginx/1.6.3 built by gcc 4.4.7 20120313 (Red Hat 4.4.7-16) (GCC)   
TLS SNI support enabled configure arguments: --prefix=/application/nginx-1.6.3 --user=www --group=www --with-http\_ssl\_module --with-http\_stub\_status\_module  
$ /application/nginx/sbin/nginx -t  
nginx: the configuration file /application/nginx-1.6.3/conf/nginx.conf syntax is ok

nginx: configuration file /application/nginx-1.6.3/conf/nginx.conf test is successful

$ /application/nginx/sbin/nginx –s reload

这里有几个参数，简单了解下

* v:显示版本并退出   
  然后退出- v:显示版本和配置选项
* t:测试配置和退出   
  q:抑制non-error消息在配置测试
* s信号:信号发送到主过程:停止,退出,重启,重新加载
* p前缀:设置前缀路径(默认值:/应用程序/ nginx-1.6.3 /)
* c文件名:设置配置文件(默认值:conf / nginx.conf)
* g指令:集合全球指令配置文件

# /application/nginx/sbin/nginx -s stop  
# netstat -tunlp|grep 80  
# /application/nginx/sbin/nginx -t  
nginx: the configuration file /application/nginx-1.6.3/conf/nginx.conf syntax is ok  
nginx: configuration file /application/nginx-1.6.3/conf/nginx.conf test is successful  
# /application/nginx/sbin/nginx  
# netstat -tunlp|grep 80  
tcp 0 0 0.0.0.0:80 0.0.0.0:\* LISTEN 5817/nginx

查看文件目录

# tree  
.  
├── client\_body\_temp  
├── conf  
│ ├── fastcgi.conf  
│ ├── fastcgi.conf.default  
│ ├── fastcgi\_params  
│ ├── fastcgi\_params.default  
│ ├── koi-utf  
│ ├── koi-win  
│ ├── mime.types  
│ ├── mime.types.default  
│ ├── nginx.conf  
│ ├── nginx.conf.default  
│ ├── scgi\_params  
│ ├── scgi\_params.default  
│ ├── uwsgi\_params  
│ ├── uwsgi\_params.default  
│ └── win-utf  
├── fastcgi\_temp  
├── html  
│ ├── 50x.html  
│ └── index.html  
├── logs  
│ ├── access.log  
│ ├── error.log  
│ └── nginx.pid  
├── proxy\_temp  
├── sbin  
│ └── nginx  
├── scgi\_temp  
└── uwsgi\_temp

$ cd /application/nginx/conf/  
$ egrep -v "#|^$" nginx.conf.default >nginx.conf

$ cat nginx.conf  
worker\_processes 1;  
events {  
 worker\_connections 1024;  
}  
http {  
 include mime.types;  
 default\_type application/octet-stream;  
 sendfile on;  
 keepalive\_timeout 65;  
 server {  
 listen 80;  
 server\_name www.etiantian.org;  
 root html/www;  
 index index.html index.htm;  
 }  
 server {  
 listen 80;  
 server\_name bbs.etiantian.org;  
 root html/bbs;  
 index index.html index.htm;  
 }  
 server {  
 listen 80;  
 server\_name blog.etiantian.org;  
 root html/blog;  
 index index.html index.htm;  
 }  
 }

日志轮录

$ cat /server/script/cut-log.sh

DIR=/application/nginx/logs  
TIME=`/bin/date +%F -d -1day`  
cd $DIR  
/bin/mv www\_access.log www.access${TIME}.log   
/application/nginx/sbin/nginx -s reload

增加到定时任务

$ crontab -e  
00 00 \* \* \* /bin/sh /server/script/cut-log.sh >/dev/null 2&>1

这里有一个自动安装nginx并且配置OK的脚本

#!/bin/sh

. /etc/init.d/functions

Dir="/application"

SoftDir="/home/sandow/tools"

# 错误输出，安装成功便会有TRUE显示

function Msg () {

if [ $? -eq 0 ];then

action "$1" /bin/true

else

action "$1" /bin/false

exit 1

fi

}

#增加用户，适用于nginx的用户

function User () {

use=`grep "nginx" /etc/passwd|wc -l`

[ -d $SoftDir ] ||/bin/mkdir $SoftDir -p && \

cd $SoftDir && \

if [ $use -ne 1 ];then

/usr/sbin/useradd -u 888 nginx -s /sbin/nologin -M &>/dev/null

fi

Msg "mkdir&user"

}

function installNginx () {

yum -y install pcre-devel openssl-devel >/dev/null && \

cd $SoftDir && \

/usr/bin/wget http://nginx.org/download/nginx-1.6.3.tar.gz && \

/bin/tar zxf nginx-1.6.3.tar.gz && \

cd nginx-1.6.3 && \

./configure --prefix=/application/nginx-1.6.3 \

--user=nginx \

--group=nginx \

--with-http\_ssl\_module \

--with-http\_stub\_status\_module &>/dev/null ||

make >/dev/null && make install >/dev/null && \

Msg "make and install"

}

# 配置nginx并且启动nginx，站点目录在/data/www下

function deployN () {

ln -s $Dir/nginx-1.6.3/ $Dir/nginx &>/dev/null && \

cat >/application/nginx/conf/nginx.conf <<EOF

worker\_processes 1;

events {

worker\_connections 1024;

}

http {

include mime.types;

default\_type application/octet-stream;

sendfile on;

access\_log /app/logs/access.log;

error\_log /app/logs/error.log;

keepalive\_timeout 65;

server {

listen 80;

server\_name www.etiantian.org;

root /data/www/www;

index index.html index.htm;

}

server {

listen 80;

server\_name bbs.etiantian.org;

root /data/www/bbs;

index index.html index.htm;

}

server {

listen 80;

server\_name blog.etiantian.org;

root /data/www/blog;

location / {

index index.php index.html index.htm;

}

location ~ .\*\.(php|php5)?$ {

fastcgi\_pass 127.0.0.1:9000;

fastcgi\_index index.php;

include fastcgi.conf;

}

}

}

EOF

}

function startN (){

/bin/mkdir -p /app/logs && \

/bin/mkdir -p /data/www/www /data/www/blog /data/www/bbs && \

chown -R nginx.nginx /data

net=`netstat -lntup |grep 80|grep -v "grep" |wc -l`

[ "$net" -ne 0 ] && /usr/bin/killall `netstat -lntup |grep 80|awk -F '/' '{print $NF}'` &>/dev/null && $Dir/nginx/sbin/nginx || $Dir/nginx/sbin/nginx &>/dev/null

Msg "Nginx start"

}

function main () {

User

installNginx

deployN

startN

}

main