

# LNMP环境搭建

原创

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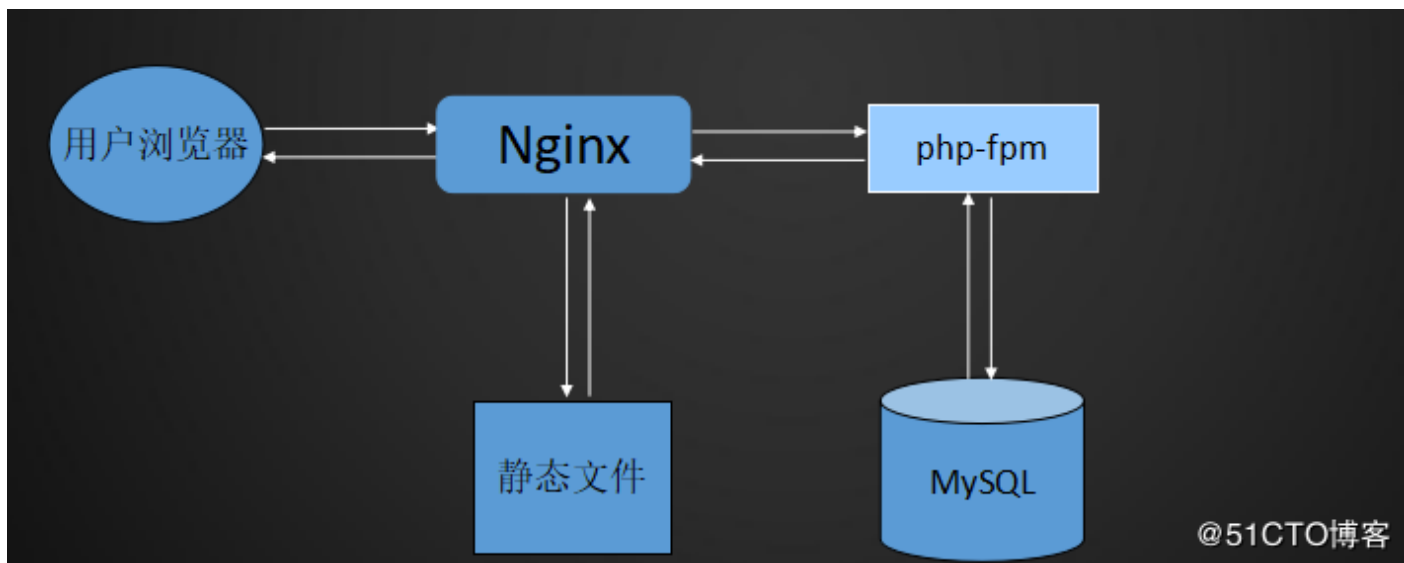
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评论(0)

233人阅读

## LNMP架构介绍:

和LAMP不同的是, 提供web服务的是Nginx  
并且php是作为一个独立服务存在的, 这个服务叫做php-fpm  
Nginx直接处理静态请求, 动态请求会转发给php-fpm



## MySQL安装:

LNMP中MySQL的安装步骤和LAMP是一样的, 这里简单写一下过程:

```
1 cd /usr/local/src/
2 wget http://mirrors.sohu.com/mysql/MySQL-5.6/mysql-5.6.36-linux-glibc2.5-x86_64.tar.gz
3 tar -zxvf mysql-5.6.36-linux-glibc2.5-x86_64.tar.gz
4 mv mysql-5.6.36-linux-glibc2.5-x86_64 /usr/local/mysql
5 useradd -s /sbin/nologin mysql
6 mkdir -p /data/mysql
7 chown -R mysql:mysql /data/mysql
8 cd /usr/local/mysql
9 ./scripts/mysql_install_db --user=mysql --datadir=/data/mysql
10 cp support-files/my-default.cnf /etc/my.cnf
11 vim /etc/my.cnf
12 cp support-files/mysql.server /etc/init.d/mysqld
13 vim /etc/init.d/mysqld
```

## PHP安装:

安装PHP和LAMP安装的PHP是有区别的。因为Nginx中的PHP是以fastcgi的方式结合Nginx的, 可以理解为Nginx代理了PHP的fastcgi, 而httpd是把PHP作为自己的模块来调用的

1. 下载源码包: `wget http://mirrors.sohu.com/php/php-5.6.9.tar.gz`
2. 解压: `tar zxvf php-5.6.9.tar.gz`
3. 创建账号: `useradd -s /sbin/nologin php-fpm`; 该账号用来运行php-fpm服务的
4. 配置编译选项: `./configure --prefix=/usr/local/php-fpm --with-config-file-path=/usr/local/php-fpm/etc --enable-fpm --with-fpm-user=php-fpm --with-fpm-group=php-fpm --with-mysql=/usr/local/mysql`

```
--with-mysql=/usr/local/mysql/bin/mysql_config --with-pdo-mysql=/usr/local/mysql --with-mysql-sock=/tmp/mysql.sock --with-libxml-dir --with-gd --with-jpeg-dir --with-png-dir --with-freetype-dir --with-iconv-dir --with-zlib-dir --with-mcrypt --enable-soap --enable-gd-native-ttf --enable-ftp --enable-mbstring --enable-exif --with-pear --with-curl --with-openssl
```

报错信息:

```
checking libxml2 install dir... yes
checking for xml2-config path...
configure: error: xml2-config not found. Please check your libxml2 installation. @51CTO博客
```

```
yum install -y libxml2 libxml2-devel
```

```
checking for cURL support... yes
checking for cURL in default path... not found
configure: error: Please reinstall the libcurl distribution -
    easy.h should be in <curl-dir>/include/curl/ @51CTO博客
```

5.编译安装: make && make install

6.修改配置文件:

```
cp php.ini-production /usr/local/php-fpm/etc/php.ini
```

```
1 vim /usr/local/php-fpm/etc/php-fpm.conf # 加入以下内容
2 [global]
3 pid=/usr/local/php-fpm/var/run/php-fpm.pid
4 error_log=/usr/local/php-fpm/var/log/php-fpm.log
5 [www]
6 listen=/tmp/php-fcgi.sock
7 listen.mode=666
8 user=php-fpm
9 group=php-fpm
10 pm=dynamic
11 pm.max_children=50
12 pm.start_servers=20
13 pm.min_spare_servers=5
14 pm.max_spare_servers=35
15 pm.max_requests=500
16 rlimit_files=1024
```

测试配置是否存在语法错误: /usr/local/php-fpm/sbin/php-fpm -t

7.启动php-fpm

```
cp sapi/fpm/init.d.php-fpm /etc/init.d/php-fpm
```

```
chmod 755 /etc/init.d/php-fpm
```

```
[root@centos7-2:php-5.6.9]# service php-fpm start
Starting php-fpm done
[root@centos7-2:php-5.6.9]# ps aux|grep php-fpm
root      25599  0.1  0.5 123668  5120 ?        Ss   22:57   0:00 php-fpm: master process (/usr/local/php-fpm/etc/php-fpm.conf)
php-fpm   25600  0.0  0.4 123668  4704 ?        S    22:57   0:00 php-fpm: pool www
php-fpm   25601  0.0  0.4 123668  4704 ?        S    22:57   0:00 php-fpm: pool www
php-fpm   25602  0.0  0.4 123668  4704 ?        S    22:57   0:00 php-fpm: pool www
php-fpm   25603  0.0  0.4 123668  4704 ?        S    22:57   0:00 php-fpm: pool www
php-fpm   25604  0.0  0.4 123668  4704 ?        S    22:57   0:00 php-fpm: pool www
php-fpm   25605  0.0  0.4 123668  4704 ?        S    22:57   0:00 php-fpm: pool www
php-fpm   25606  0.0  0.4 123668  4704 ?        S    22:57   0:00 php-fpm: pool www @51CTO博客
```

设置开机启动: chkconfig php-fpm on

**Nginx介绍:**

Nginx官网 [nginx.org](http://nginx.org), 最新版1.13, 最新稳定版1.12

Nginx应用场景: web服务、反向代理、负载均衡

Nginx著名分支, 淘宝基于Nginx开发的Tengine, 使用上和Nginx一致, 服务名, 配置文件名都一样, 和Nginx的最大区别在于Tengine增加了一些定制化模块, 在安全限速方面表现突出, 另外它支

持对js, css合并

Nginx核心+lua相关的组件和模块组成了一个支持lua的高性能web容器openresty, 参考  
<http://jinnianshilongnian.iteye.com/blog/2280928>

## Nginx安装:

### 1. 下载和解压

wget <http://mirrors.sohu.com/nginx/nginx-1.8.0.tar.gz>

tar zxvf nginx-1.8.0.tar.gz

### 2. 配置编译选项

./configure --prefix=/usr/local/nginx

### 3. 编译安装

make && make install

### 4. 编写启动脚本, 并加入系统服务

```

1  vim /etc/init.d/nginx # 加入脚本内容
2  #!/bin/bash
3  # chkconfig: - 30 21
4  # description: http service.
5  # Source Function Library
6  . /etc/init.d/functions
7  # Nginx Settings
8  NGINX_SBIN="/usr/local/nginx/sbin/nginx"
9  NGINX_CONF="/usr/local/nginx/conf/nginx.conf"
10 NGINX_PID="/usr/local/nginx/logs/nginx.pid"
11 RETVAL=0
12 prog="Nginx"
13 start()
14 {
15     echo -n $"Starting $prog: "
16     mkdir -p /dev/shm/nginx_temp
17     daemon $NGINX_SBIN -c $NGINX_CONF
18     RETVAL=$?
19     echo
20     return $RETVAL
21 }
22 stop()
23 {
24     echo -n $"Stopping $prog: "
25     killproc -p $NGINX_PID $NGINX_SBIN -TERM
26     rm -rf /dev/shm/nginx_temp
27     RETVAL=$?
28     echo
29     return $RETVAL
30 }
31 stop()
32 {
33     echo -n $"Stopping $prog: "
34     killproc -p $NGINX_PID $NGINX_SBIN -TERM
35     rm -rf /dev/shm/nginx_temp
36     RETVAL=$?
37     echo
38     return $RETVAL
39 }
40 reload()
41 {
42     echo -n $"Reloading $prog: "
43     killproc -p $NGINX_PID $NGINX_SBIN -HUP
44     RETVAL=$?
45     echo
46     return $RETVAL

```

```

47 }
48 restart()
49 {
50     stop
51     start
52 }
53 configtest()
54 {
55     $NGINX_SBIN -c $NGINX_CONF -t
56     return 0
57 }
58 case "$1" in
59     start)
60         start
61         ;;
62     stop)
63         stop
64         ;;
65     reload)
66         reload
67         ;;
68     restart)
69         restart
70         ;;
71     configtest)
72         configtest
73         ;;
74     *)
75         echo $"Usage: $0 {start|stop|reload|restart|configtest}"
76         RETVAL=1
77 esac
78
79 exit $RETVAL

```

```

[root@centos7-2:~]# vim /etc/init.d/nginx
[root@centos7-2:~]# chmod 755 /etc/init.d/nginx
[root@centos7-2:~]# chkconfig --add nginx
[root@centos7-2:~]# chkconfig nginx on

```

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### 5. 更改Nginx的配置文件

```

1 > /usr/local/nginx/conf/nginx.conf
2 vim /usr/local/nginx/conf/nginx.conf # 加入以下内容
3 user nobody nobody;
4 worker_processes 2;
5 error_log /usr/local/nginx/logs/nginx_error.log crit;
6 pid /usr/local/nginx/logs/nginx.pid;
7 worker_rlimit_nofile 51200;
8 events
9 {
10     use epoll;
11     worker_connections 6000;
12 }
13 http
14 {
15     include mime.types;
16     default_type application/octet-stream;
17     server_names_hash_bucket_size 3526;
18     server_names_hash_max_size 4096;
19     log_format combined_realip '$remote_addr $http_x_forwarded_for

```

```

20     ' $host "$request_uri" $status'
21     ' "$http_referer" "$http_user_agent";
22     sendfile on;
23     tcp_nopush on;
24     keepalive_timeout 30;
25     client_header_timeout 3m;
26     client_body_timeout 3m;
27     send_timeout 3m;
28     connection_pool_size 256;
29     client_header_buffer_size 1k;
30     large_client_header_buffers 8 4k;
31     request_pool_size 4k;
32     output_buffers 4 32k;
33     postpone_output 1460;
34     client_max_body_size 10m;
35     client_body_buffer_size 256k;
36     client_body_temp_path /usr/local/nginx/client_body_temp;
37     proxy_temp_path /usr/local/nginx/proxy_temp;
38     fastcgi_temp_path /usr/local/nginx/fastcgi_temp;
39     fastcgi_intercept_errors on;
40     tcp_nodelay on;
41     gzip on;
42     gzip_min_length 1k;
43     gzip_buffers 4 8k;
44     gzip_comp_level 5;
45     gzip_http_version 1.1;
46     gzip_types text/plain application/x-javascript text/css text/html
47     application/xml;
48
49     server
50     {
51         listen 80;
52         server_name localhost;
53         index index.html index.htm index.php;
54         root /usr/local/nginx/html;
55
56         location ~ \.php$
57         {
58             include fastcgi_params;
59             fastcgi_pass unix:/tmp/php-fcgi.sock;
60             fastcgi_index index.php;
61             fastcgi_param SCRIPT_FILENAME /usr/local/nginx/html$fas
62         }
63     }
64 }

```

```

[root@centos7-2:~]# /usr/local/nginx/sbin/nginx -t
nginx: the configuration file /usr/local/nginx/conf/nginx.conf syntax is ok
nginx: configuration file /usr/local/nginx/conf/nginx.conf test is successful

```

6. 启动Nginx, (日志文件: /usr/local/nginx/logs/error.log)  
service nginx start

```

[root@centos7-2:~]# ps aux |grep nginx
root      28294  0.0  0.0 24836  788 ?        Ss   00:10   0:00 nginx: master process /usr/local/nginx/sbin/nginx -c /u
sr/local/nginx/conf/nginx.conf
nobody    28295  0.0  0.3 27280  3372 ?        S    00:10   0:00 nginx: worker process
nobody    28296  0.0  0.3 27280  3372 ?        S    00:10   0:00 nginx: worker process
root      28298  0.0  0.0 112676  984 pts/0    S+   00:11   0:00 grep --color=auto nginx

```

7. 测试是否正常解析PHP

vim /usr/local/nginx/html/2.php

```
[root@centos7-2:~]# vim /usr/local/nginx/html/2.php  
[root@centos7-2:~]# curl localhost/2.php  
test php page! [root@centos7-2:~]#
```

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