

# 网站高并发之 nginx配置部署

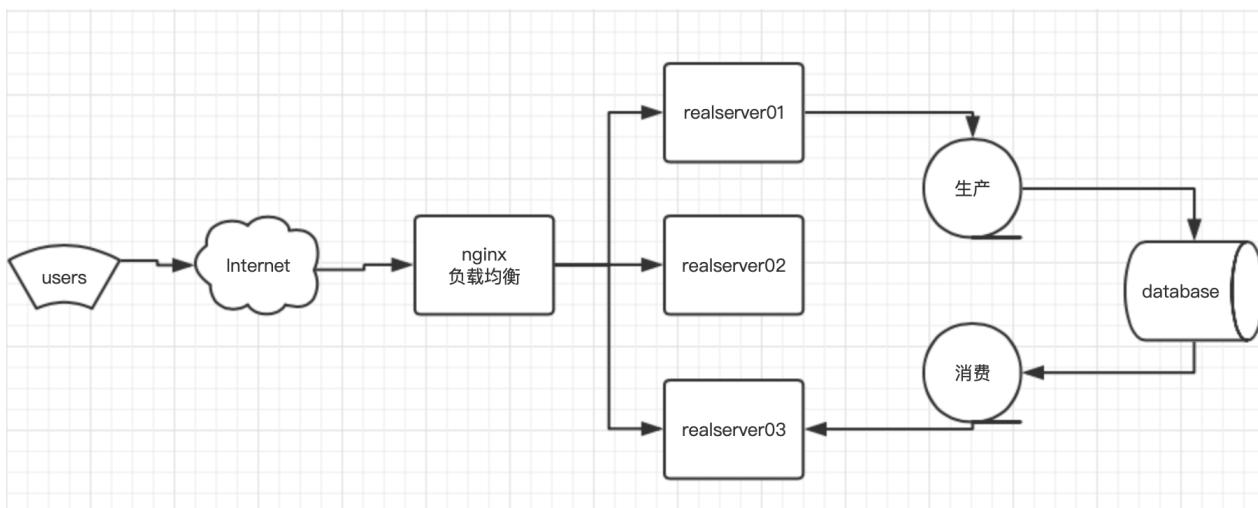
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nginx是个高性能web服务软件, 其本身具备很多特性; 在运维领域中也常常被用来搭建负载均衡,反向代理,缓存服务,web服务等运维基础设施;

使用nginx搭建Web服务器(分离式的Inmp架构构建)



nginx配置

```
~:$ yum -y install pcre-devel zlib-devel
~:$ yum -y groupinstall "Development Tools"
~:$ wget http://nginx.org/download/nginx-1.16.1.tar.gz -O /opt/nginx-1.16.1.tar.gz
~:$ tar xf /opt/nginx-1.16.1.tar.gz -C /opt/
~:$ useradd -s /sbin/nologin nginx

~:$ cd /opt/nginx-1.16.1/
/opt/nginx-1.16.1:$ ./configure --prefix=/usr/local/nginx --user=nginx --group=nginx
/opt/nginx-1.16.1:$ make && make install
```

```
$ vim /usr/bin/nginxctl -- 设置nginx控制启动命令
```

```
#!/usr/bin/env bash
```

```
#
# nginx service control

case $1 in
    stop)
        /usr/local/nginx/sbin/nginx -s quit
        ;;
    start)
        /usr/local/nginx/sbin/nginx
        ;;
    reload)
        /usr/local/nginx/sbin/nginx -s reload
        ;;
    *)
        echo "please input (start|stop|reload)"
        ;;
esac
```

#nginx主配置文件:/usr/local/nginx/conf/nginx.conf

```
user  nginx;
worker_processes  2;
error_log  logs/error.log;

events {
    use epoll;
    worker_connections  10240;
}

http {
    include      mime.types;
    default_type  application/octet-stream;
    log_format  main  '$remote_addr - $remote_user [$time_local] "$request" '
                      '$status $body_bytes_sent "$http_referer" '
                      '"$http_user_agent" "$http_x_forwarded_for"';
    access_log  logs/access.log  main;
    sendfile    on;
    keepalive_timeout  65;
    include /usr/local/nginx/conf.d/*.conf;
}
```

#nginx虚拟主机配置文件:/usr/local/nginx/conf.d/pycloud.com.conf

```
server {
    listen      80;
    server_name  www.pycloud.com;

    charset koi8-r;
```

```

access_log logs/pycloud/access.log main;

location / {
    root    /usr/local/nginx/project/pycloud;
    index   index.php index.html;
}

error_page 404          /404.html;
error_page 500 502 503 504 /50x.html;
location = /50x.html {
    root    /usr/local/nginx/project/pycloud;
}

location ~ /\.php$ {
    root          /usr/local/nginx/project/pycloud;
    fastcgi_pass  192.168.161.11:9000;
    fastcgi_index index.php;
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    include       fastcgi_params;
}
}

```

#### #准备工作

```

$ mkdir -p /usr/local/nginx/project/pycloud
$ mkdir /usr/local/nginx/logs/pycloud
$ vim /usr/local/nginx/project/pycloud/index.php
<?php
$link = mysqli_connect("my_host", "my_user", "my_password", "my_db");

if (!$link) {
    echo "Error: Unable to connect to MySQL." . PHP_EOL;
    echo "Debugging errno: " . mysqli_connect_errno() . PHP_EOL;
    echo "Debugging error: " . mysqli_connect_error() . PHP_EOL;
    exit;
}

echo "Success: connection to MySQL was made! The my_db database is great." .
PHP_EOL;
echo "Host information: " . mysqli_get_host_info($link) . PHP_EOL;

mysqli_close($link);
?>

#启动nginx服务
$ nginxctl start

```

## php配置

```
$ vim /etc/yum.repos.d/php.repo
[remi-safe]
name=Safe Remi's RPM repository for Enterprise Linux $releasever - $basearch
#baseurl=http://rpms.remirepo.net/enterprise/$releasever/safe/$basearch/
mirrorlist=http://cdn.remirepo.net/enterprise/$releasever/safe/mirror
enabled=1
gpgcheck=0
gpgkey=http://rpms.remirepo.net/RPM-GPG-KEY-remi

[remi-php]
name=Remi's PHP 7 RPM repository for Enterprise Linux 7 - $basearch
#baseurl=http://rpms.remirepo.net/enterprise/7/php73/$basearch/
#mirrorlist=https://rpms.remirepo.net/enterprise/7/php73/httpsmirror
mirrorlist=http://cdn.remirepo.net/enterprise/7/php73/mirror
enabled=1
gpgcheck=0
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-remi

[epel]
name=Extra Packages for Enterprise Linux 7 - $basearch
baseurl=https://mirrors.tuna.tsinghua.edu.cn/epel/7/$basearch
#mirrorlist=https://mirrors.fedoraproject.org/metalink?repo=epel-7&arch=$basearch
failovermethod=priority
enabled=1
gpgcheck=0
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
```

```
$ yum -y install php php-mysql php-fpm php-mysql php-mbstring php-mcrypt php-gd php-xml
```

```
$ vim /etc/php-fpm.d/www.conf
user = nginx
group = nginx
listen = 192.168.161.11:9000      监听本地IP地址:端口
listen.allowed_clients = 192.168.161.10  允许的远程连接主机IP地址
```

```
$ systemctl start php-fpm
```

PHP与nginx连接(注意远程共享目录与本地接收目录路径名称必须相同, 否则报错!!!)

```
#php:
$ yum -y install nfs-utils
$ vim /etc/exports
/usr/local/nginx/project/pycloud 192.168.161.0/24(rw,sync)
$ systemctl start nfs && systemctl enable nfs

#nginx:
$ yum -y install nfs-utils
$ vim /etc/fstab
192.168.161.11:共享目录/pycloud 接收目录/pycloud nfs defaults 0 0
$ mount -a
```

## mysql配置

```
$ lftp 10.36.145.100
lftp 10.36.145.100:/> get mysql_package.tar.xz

$ tar xf mysql_package.tar.xz -C /usr/local/
$ cd /usr/local/mysqld/
$ ./install.sh

$ mysql -uroot -p"password"
mysql> create database pyccloud;

mysql> grant all privileges on pyccloud.* to 'php'@'192.168.161.%' identified
by "(Php.096)";
```

总体测试见到如下信息即代表正确

```
Success: connection to MySQL was made! The my_db database is great.
```