1.分布式实战(一)

基于四台服务器实现LNMP分离部署,A服务器部署nginx,B/C服务器部署MySQL主从,D服务器部署php。

实战环境

```
A服务器(nginx): 192.168.222.129
B服务器(master): 192.168.222.130
C服务器(slave): 192.168.222.131
D服务器(php): 192.168.222.132
```

网站—

2.部署流程

2.1预编译

```
cd /usr/src
wget http://nginx.org/download/nginx-1.16.1.tar.gz
tar xf nginx-1.16.1.tar.gz
cd nginx-1.16.1/
./configure --prefix=/usr/local/nginx --with-http_stub_status_module
```

image-20200131144108965

2.2编译与安装

```
make && make install
```

image-20200131200121295

```
修改nginx进程用户为nginx:
[root@localhost]# grep "^user" /usr/local/nginx/conf/nginx.conf
```

image-20200131200854031



2.3启动nginx

```
[root@localhost ~]# /usr/local/nginx/sbin/nginx
```

image-20200211163459955

2.4修改nginx配置文件

```
location / {
    # 指定wordpress网站代码路径
    root /usr/share/nginx/html/wordpress;
```

```
index index.php index.html index.htm;
}
# 省略部分信息
location ~ \.php$ {
   #指定php-fpm远程服务器上wordpress代码路径
    root /data/wordpress;
    # 指定php-fpm远程服务器ip
   fastcgi_pass 192.168.222.132:9000;
    fastcgi_index index.php;
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    include fastcgi_params;
}
server {
        listen 80;
        server_name blog.wordpress.com;
charset utf-8;
#access_log logs/wordpress.access.log main;
       location / {
                root html/wordpress;
                index index.php index.html index.htm;
        }
#error_page 404 /404.html;
# redirect server error pages to the static page /50x.html
error_page 500 502 503 504 /50x.html;
        location = /50x.html {
                root html;
        }
        location ~ \.php$ {
                root /data/wordpress;
                fastcgi_pass 192.168.222.132:9000;
                fastcgi_index index.php;
                fastcgi_param SCRIPT_FILENAME
$document_root$fastcgi_script_name;
               include fastcgi_params;
        }
}
```

3.安装PHP

3.1安装依赖

```
yum -y install gd curl curl-devel libjpeg libjpeg-devel libpng libpng-develfreetype freetype-devel libxml2 libxml2-devel
```

image-20200131200945016

3.2预编译

```
# 解压包
tar xf php-5.6.8.tar.bz2
cd php-5.6.8
```

```
image-20200131201929653
```

```
./configure --prefix=/usr/local/php \
--enable-fpm \
--enable-debug \
--with-gd \
--with-png-dir \
--with-freetype-dir \
--enable-mbstring \
--with-curl \
--with-mysql=mysqlnd \
--with-mysqli=mysqlnd \
--with-pdo-mysql=mysqlnd \
--with-config-file-path=/usr/local/php/etc \
--with-zlib-dir
```

3.3编译/安装

```
make && make install
```

image-20200131202905260

```
cp php.ini-development /usr/local/php/etc/php.ini
cp /usr/local/php/etc/php-fpm.conf.default /usr/local/php/etc/php-fpm.conf
cp sapi/fpm/init.d.php-fpm /etc/init.d/php-fpm
chmod +x /etc/init.d/php-fpm
```

]image-20200131204613579

```
# 修改php-fpm的用户为nginx:
# egrep "^(user|group)" /usr/local/php/etc/php-fpm.conf
user = nginx
group = nginx
# 启动php-fpm:
/etc/init.d/php-fpm start
```

image-20200211190129218

image-20200218131339547

3.5 修改php-fpm配置文件

```
[root@localhost php-5.6.8]# egrep "^(listen|user|group)" /usr/local/php/etc/php-
fpm.conf
user = nginx
group = nginx
listen = 192.168.222.129:9000
listen.allowed_clients = 192.168.222.129
```

4.MySQ主从

4.1 配置master端

```
# 为两个主机安装mariadb/mariadb-server:
yum install mariadb mariadb-server -y
```

```
image-20200208125300087
```

```
# 修改配置文件(/etc/my.cnf),在[mysqld]字段下添加以下内容:
log-bin=jfedu-bin
server-id=1
```

image-20200208130511722

```
image-20200208130455149
```

```
# 重启服务:
systemctl restart mariadb
# 通过mysql进入mysql服务器,查看二进制功能状态:
MariaDB [(none)]> show variables like "%log_bin";
+-----+
| Variable_name | Value |
+----+
| log_bin | ON |
| sql_log_bin | ON |
+----+
2 rows in set (0.00 sec)
```

image-20200208130618972

```
# 授权从库:
MariaDB [(none)]> grant replication slave on *.* to "jfedu"@"192.168.222.131"
identified by "123456";
Query OK, 0 rows affected (0.04 sec)
MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.00 sec)
```

image-20200208130954698

4.2 查看master端状态

4.3 配置slave端

```
# 修改配置文件(/etc/my.cnf),在[mysqld]字段下添加以下内容:
server-id=2
```

image-20200208131345254

image-20200208131328953

```
# 重启服务:
systemctl restart mariadb
# 指定主库:
MariaDB [(none)]> change master to master_host="192.168.222.130",
master_user="jfedu", master_password="123456", master_log_file="jfedu-bin.000004", master_log_pos=552;
```

image-20200208141329630

4.4启动slave进程

```
MariaDB [(none)]> slave start;
```

image-20200208132005184

4.5 查看同步-状态

```
MariaDB [(none)]> show slave status\G
Slave_IO_State: Waiting for master to send event
                Master_Host: 192.168.222.130
                Master_User: jfedu
                Master_Port: 3306
              Connect_Retry: 60
            Master_Log_File: jfedu-bin.000004
         Read_Master_Log_Pos: 552
             Relay_Log_File: mariadb-relay-bin.000002
              Relay_Log_Pos: 529
       Relay_Master_Log_File: jfedu-bin.000004
           Slave_IO_Running: Yes
          Slave_SQL_Running: Yes
            Replicate_Do_DB:
         Replicate_Ignore_DB:
          Replicate_Do_Table:
      Replicate_Ignore_Table:
     Replicate_Wild_Do_Table:
```

```
Replicate_Wild_Ignore_Table:
```

5部署网站

授权和部署

```
[root@localhost src]# mkdir -p /usr/local/nginx/html/wordpress
[root@localhost src]# tar -xf /usr/src/wordpress-4.9.4-zh_CN.tar.gz -C
/usr/local/nginx/html/wordpress
[root@localhost src]# rsync -av /usr/local/nginx/html/wordpress/
192.168.222.132:/data/
```

image-20200219130127134

```
[root@localhost ~]# chown nginx. -R /data/wordpress
```

image-20200219130507155

image-20200219131219227

image-20200219131301745

image-20200219131454776

image-20200219131543359

网站二

配置location

```
server {
        listen 80;
        server_name bbs.discuz.com;
        charset utf-8;
#access_log logs/discuz.access.log main;
        location / {
                root html/discuz/upload;
                index index.php index.html index.htm;
#error_page 404 /404.html;
##redirect server error pages to the static page /50x.html
#error_page 500 502 503 504 /50x.html;
        location = /50x.html {
                root html;
        location ~ \.php$ {
                root /data/discuz/upload;
                fastcgi_pass 192.168.222.132:9000;
                                                                   fastcgi_index
index.php;
                fastcgi_param SCRIPT_FILENAME
$document_root$fastcgi_script_name;
                include fastcgi_params;
```

```
}
}
```

部署网站

```
[root@localhost src]# unzip Discuz_X3.1_SC_UTF8.zip -d
/usr/local/nginx/html/discuz
[root@localhost src]# rsync -av /usr/local/nginx/html/discuz
192.168.222.132:/data/
[root@localhost ~]# chown nginx. -R /data/discuz/
```

- image-20200219124418843
- image-20200219124434143

授权

- image-20200219124821843
- image-20200219124841741
- image-20200219124859286
- image-20200219124954364
- image-20200219125023905

网站三

[root@localhost src]# tar xf phpMyAdmin-4.9.2-all-languages.tar.gz -C /usr/local/nginx/html/

image-20200219133754903