

一、集群搭建

1、部署 nginx 反向代理三个 web 服务,调度算法使用加权轮询:服务器端:

yum -y install epel-* #安装 epel 源 yum -y install nginx #安装 nginx

systemctl stop firewalld

setenforce 0 #关闭防火墙和 SELinux

vim /etc/nginx/nginx.conf #配置文件

```
http {
    upstream love {
        server 192.168.43.81:80 weight=3 ;
        server 192.168.43.82:80;
        server 192.168.43.83:80;
    }
```

```
server {
    listen         80 default_server;
    listen         [::1:80 default_server;
    server_name _;

include /etc/nginx/default.d/*.conf;

location / {
    proxy_pass http://love;
}
```

systemctl start nginx #启动服务 web 端:

yum -y install epel-* #安装 epel 源 yum -y install nginx #安装 nginx

systemctl stop firewalld

setenforce 0 #关闭防火墙和 SELinux

systemctl start nginx #启动服务

2、所有 web 服务使用共享存储 nfs, 保证所有 web 都对其有读写权限, 保

证数据一致性

服务端

yum -y install rpcbind nfs-utils #安装 vim /etc/exports #配置

%share 192.168.43.0/24(rw sync fsid=0)

chmod -R o+w /share #加权限 systemctl enable rpcbind.service systemctl enable nfs-server.service #开机启动 systemctl start rpcbind.service systemctl start nfs-server.service #启动

```
[root@bogon ~]# showmount -e 192.168.43.80
Export list for 192.168.43.80:
/share 192.168.43.0/24
```

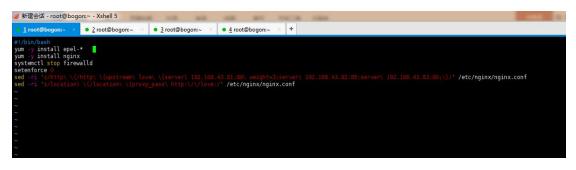
客户端

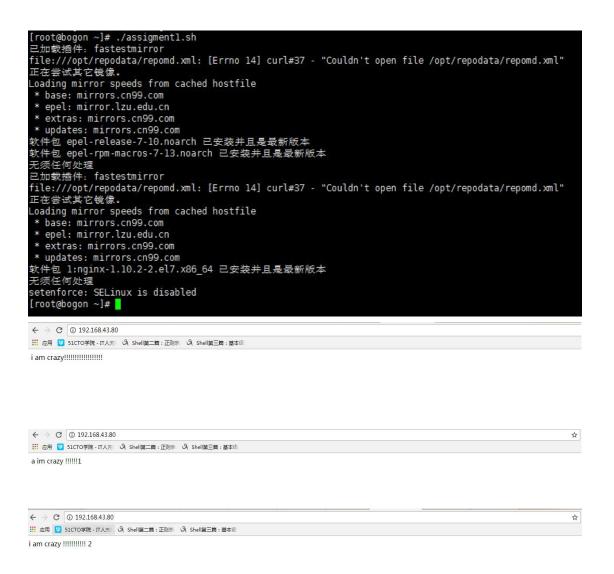
yum -y install rpcbind nfs-utils #安装 systemctl enable rpcbind.service #开机启动 systemctl start rpcbind.service #启动 mount -t nfs 192.168.43.80:/share /var/www/html #挂载

开发脚本自动部署及监控

- 1.编写脚本自动部署反向代理、web、nfs;
- 1)反向代理

执行脚本成功





web 端 同理
vim web.sh
yum -y install epel-*
yum -y install nginx
systemctl stop firewalld
setenforce 0
systemctl start nginx
chmod +x web.sh
nfs
服务端
脚本执行成功

```
[root@bogon ~]# vim assignment2.sh
[root@bogon ~]# chmod +x assignment2.sh
[root@bogon ~]# ./assignment2.sh
Pun數指件: fastestmirror
file://opt/repodata/repomd.xml: [Errno 14] curl#37 - "Couldn't open file /opt/repodata/repomd.xml"
正在尝试其它镜像。
Loading mirror speeds from cached hostfile
* base: mirrors.cn99.com
* epel: mirror.lzu.edu.cn
* extras: mirrors.cn99.com
* updates: mirrors.cn99.com
* updates: mirrors.cn99.com
* theo !rnfs-utils-1.3.0-0.48.el7.x86_64 已安裝并且是最新版本
无须任何处理
[root@bogon ~]# systemctl status rpcbind.service
● rpcbind.service - RPC bind service
Loaded: loaded (/usr/lib/systemd/system/rpcbind.service; indirect; vendor preset: enabled)
Active: active (running) since — 2017-10-09 09:58:01 CST; 6h ago
Main PID: 945 (rpcbind)
CGroup: /system.slice/rpcbind.service
L945 /sbin/rpcbind -w

10月 09 09:58:01 bogon systemd[1]: Starting RPC bind service...

10月 09 09:58:01 bogon systemd[1]: Starting RPC bind service...
```

客户端

脚本执行成功

```
yum -y install rpcbind nfs-utils
systemctl enable rpcbind.service
systemctl start rpcbind.service
nount -t nfs 192.168.43.80:/share /var/www/html
~
~
~
~
~
~
~
~
~
~
```

```
[root@bogon ~]# ./web2.sh
[root@bogon ~]# df
文件系统
                        1K-块
                                 己用
                                          可用 已用% 挂载点
                    17811456 1362272 16449184
/dev/mapper/cl-root
                                                  8% /
devtmpfs
                       493196
                                    0
                                        493196
                                                  0% /dev
tmpfs
                       504196
                                    0
                                        504196
                                                  0% /dev/shm
tmpfs
                       504196
                                 6912
                                        497284
                                                  2% /run
tmpfs
                       504196
                                    0
                                        504196
                                                  0% /sys/fs/cgroup
/dev/sdal
                      1038336
                               141728
                                        896608
                                                 14% /boot
                                                  0% /run/user/0
                       100840
                                    0
                                        100840
tmpfs
192.168.43.80:/share 17811456 1363456 16448000
                                                  8% /var/www/html
```

2.编写监控脚本,监控集群内所有服务存活状态,内存、磁盘剩余率检测, 异常则发送报警邮件

准备发送邮件的工具 vim /usr/bin/my_mail 复制发邮件代码,修改

```
#!/usr/bin/python
import sys
import smtplib
import email.mime.multipart
import email.mime.text
server = smtp.163.com
port =
def sendmail(server,port,user,pwd,msg):
     smtp = smtplib.SMTP()
     smtp.connect(server,port)
     smtp.login(user, pwd)
smtp.sendmail(msg['from'], msg['to'], msg.as_string())
     smtp.quit()
smtp.quit()
int() # 体 等 表 求 penail has send out !')
if __name__ == '__main__':
     msg = email.mime.multipart.MIMEMultipart()
    msg['Subject'] = '最后的作业'
msg['From'] = 'xinghuaikang2@16
msg['To'] = 'xinghuaikang2@163
usor = 'xinghuaikang2'
     user =
     pwd =
     content='%s\n%s' %('\n'.join(sys.argv[1:4]),' '.join(sys.argv[4:]))
     txt = email.mime.text.MIMEText(content, charset='utf-8')
    msg.attach(txt)
     sendmail(server,port,user,pwd,msg)
"/usr/bin/my_mail" 32L, 852C
```

然后新建监控脚本 servermonitor.sh vim servermonitor.sh

3.编写计划任务,定时运行监控脚本,完成监控操作 crontab -e ***** /root/servermonitor.sh