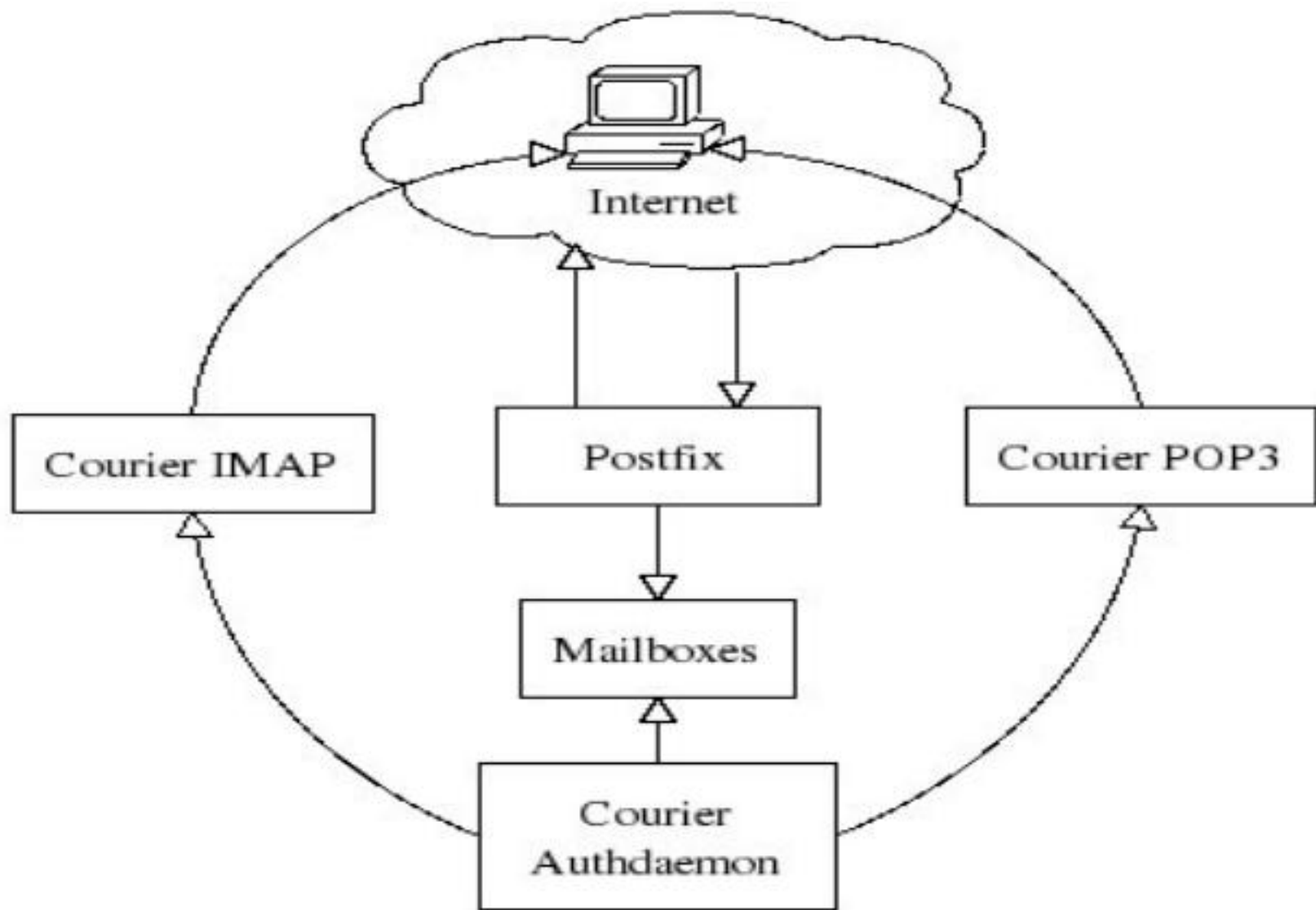# Shell编写邮件报警脚本

测试报警点

- Web服务器监控
- Mysql数据库监控
- Disk硬盘使用监控

- 一台linux服务器
安装postfix邮件服务

- 一台windows客户端
安装foxmail客户端

服务器配置

- 首先卸载服务器上自带的sendmail

```
[root@localhost ~]# rpm -qa sendmail*
sendmail-8.13.1-2
[root@localhost ~]# rpm -e sendmail-8.13.1.-2
error: package sendmail-8.13.1.-2 is not installed
[root@localhost ~]# rpm -e sendmail-8.13.1*
error: Failed dependencies:
        /usr/sbin/sendmail is needed by (installed) redhat-lsb-1.3-5.2.i386
        smtpdaemon is needed by (installed) mdadm-1.6.0-2.i386
[root@localhost ~]# rpm -e sendmail-8.13.1* --nodeps
[root@localhost ~]# rpm -qa sendmail*
[root@localhost ~]#
```

- 安装disk 4上的postfix软件

```
[root@localhost ~]# eject
[root@localhost ~]# mount /dev/cdrom
mount: block device /dev/hdc is write-protected, mounting read-only
[root@localhost ~]# rpm -vih /media/cdrom/RedHat/RPMS/postfix-2.1.5-2.3.RHEL4.
6.rpm
warning: /media/cdrom/RedHat/RPMS/postfix-2.1.5-2.3.RHEL4.1.i386.rpm: V3 DSA s
ure: NOKEY, key ID db42a60e
Preparing...                ########################################### [100%]
   1:postfix                ########################################### [100%]
[root@localhost ~]#
```

修改postfix配置文件

- Vi /etc/postfix/main.cf

1.修改myhostname

```
myhostname = mail.g.cn
#myhostname = virtual.domain.tld
```

2.修改mydomain

```
#
mydomain = g.cn
```

3.修改myorigin

```
#
myorigin = $myhostname
myorigin = $mydomain
```

4.修改smtp监听端口

```
#
inet_interfaces = all
#inet_interfaces = $myhostname
#inet_interfaces = $myhostname, localhost
#inet_interfaces = localhost
```

5.修改mydestination

```
#
mydestination = $myhostname, $mydomain
#mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain
#mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain,
#        mail.$mydomain, www.$mydomain, ftp.$mydomain
```

6.修改本地网段

```
#
mynetworks = 192.168.10.0/24, 127.0.0.0/8
#mynetworks = $config_directory/mynetworks
#mynetworks = hash:/etc/postfix/network_table
```

7.修改relay_domain转发邮件域名

```
#
relay_domains = $mydestination
```

8.修改postfix aliases邮件别名

```
#alias_maps = dbm:/etc/aliases
alias_maps = hash:/etc/aliases
#alias_maps = hash:/etc/aliases, nis:mail.aliases
#alias_maps = netinfo:/aliases
```

```
#alias_database = dbm:/etc/aliases
#alias_database = dbm:/etc/mail/aliases
alias_database = hash:/etc/aliases
#alias_database = hash:/etc/aliases, hash:/opt/majordomo/aliases
```

启动postfix打开25号端口

```
[root@localhost ~]# service postfix restart
Shutting down postfix: [FAILED]
Starting postfix: [  OK  ]
[root@localhost ~]# netstat -anp |grep :25
tcp        0        0 0.0.0.0:25                0.0.0.0:*                LIS
     6079/master
tcp        0        0 :::25                     :::*                     LIS
     6079/master
[root@localhost ~]#
```

安装disk 4上的dovecot

```
[root@localhost ~]# rpm -vih /media/cdrom/RedHat/RPMS/dovecot-0.99.11-2.EL4.1.
rpm
warning: /media/cdrom/RedHat/RPMS/dovecot-0.99.11-2.EL4.1.i386.rpm: V3 DSA sig
e: NOKEY, key ID db42a60e
Preparing...                ########################################### [100%]
   1:dovecot                ########################################### [100%]
[root@localhost ~]# vi /etc/dovecot.conf
```

- Vi /etc/dovecot.conf
- 1.修改protocols 支持pop3和pop3s

```
# Protocols we want to be serving:
#   imap imaps pop3 pop3s
protocols = imap imaps pop3 pop3s
```

2.修改pop3和imaps在所在ipv4接口上监听110与143端口

```
imap_listen = *
pop3_listen = *
```

- 启动dovecot服务并开启110、143端口

```
[root@localhost ~]# service dovecot restart
Stopping Dovecot Imap: [FAILED]
Starting Dovecot Imap: [  OK  ]
[root@localhost ~]# netstat -anp |grep :110
tcp        0        0 0.0.0.0:110              0.0.0.0:*              LI
        28884/dovecot
[root@localhost ~]# netstat -anp |grep :1r43
[root@localhost ~]# netstat -anp |grep :143
tcp        0        0 0.0.0.0:143              0.0.0.0:*              LI
        28884/dovecot
```

到此为至即postfix 邮件服务器的发送和接收端口都已打开!

在服务器上root给自己发邮件

```
[root@localhost ~]# telnet 192.168.10.1 25
Trying 192.168.10.1...
Connected to 192.168.10.1 (192.168.10.1).
Escape character is '^]'.
220 mail.g.cn ESMTP Postfix
mail from:root@g.cn
250 Ok
rcpt to:root@g.cn
250 Ok
data
354 End data with <CR><LF>.<CR><LF>
root to root@^H
.
250 Ok: queued as 16E86B3B79
quit
221 Bye
Connection closed by foreign host.
[root@localhost ~]# mail
Mail version 8.1 6/6/93.  Type ? for help.
"/var/spool/mail/root": 2 messages 2 new
>N  1 root@g.cn               Sat Jun 13 22:17  14/427
```

```
#!/bin/bash
#mon.sh
###web monitor###
/usr/bin/nc -z localhost 80 &>/dev/null
h=`echo $?`
if [ $h -ne 0 ]
then
echo "httpd is down" |mail -s "web
    monitor" admin@lamp.com
fi
```

- ###mysql monitor###

```
/usr/bin/nc -z localhost 3306 &>/dev/null
m=`echo $?`
if [ $m -ne 0 ]
then
echo "mysqld is down"|mail -s "mysql
    monitor" admin@lamp.com
fi
```

shell脚本邮件报警-disk

- ###/ disk monitor###

```
d=`df -h|awk 'NR==3{print int($4)}'`
if [ $d -gt 20 ]
then
echo "root part's space > 90%,now is ${d}%"|mail -s "disk monitor" admin@lamp.com
fi
```

报警脚本重启生效

1.设置脚本权限

chmod 755 /etc/init.d/mon.sh

2.crontab -e

*/5 * * * * bash /etc/init.d/mon.sh

3.tail -f /var/log/cron

4.邮件报警要提前测试准备邮件系统是否能
　正常工作