EB邮件系统部署文档

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# 组件选择说明：

## 软件简介：

1、AMP －－－apache（web服务） 、mysql（数据库）、php（非必需） 的简称  
    2、postfix －－mta 邮件系统核心  
    3、courier-authlib－－一个为courier-imap，maildrop，sasl2 提供用户信息的后台进程序  
    4、courier-imap －－提供pop3,pop3s,imap,imaps 服务的程序  
    5、dspam clamd －－提供内容过滤      
    6、extmail －－一个著名的webmail程序  
    7、extman －－与extmail集成的后台管理程序

## 组件说明：

Apache+MySQL+Php+Postfix+CourierAuthlib+Maildrop+Extmail+Extman+mailgraph\_ext+RRDTool

## 组件版本：

Package: Courier

courier-0.76.3.tar.bz2

This package includes the entire source code for the Courier mail server - the mail server, IMAP server, webmail server, and the maildrop mail filter. You do not need to install those individual packages if you download this package.

Package: Courier authentication library

courier-authlib-0.66.4.tar.bz2

The Courier Authentication Library is a generic authentication API that encapsulates the process of validating account passwords. In addition to reading the traditional account passwords from /etc/passwd, the account information can alternatively be obtained from an LDAP directory; a MySQL or a PostgreSQL database; or a GDBM or a DB file. The Courier authentication library must be installed before building any Courier packages that needs direct access to mailboxes (in other words, all packages except for courier-sox, courier-analog, and courier-unicode).

Package: Courier Unicode Library

courier-unicode-1.4.tar.bz2

The Courier Unicode Library is used by most other Courier packages, and needs to be installed in order to use them or build them.

Package: Courier-IMAP

courier-imap-4.17.2.tar.bz2

This package contains the standalone Courier IMAP server, which is used to provide IMAP access to local mailboxes. Courier-IMAP is provided here as a separate package that can be used with other mail servers as well.

Package: maildrop

maildrop-2.8.4.tar.bz2

This package contains the maildrop delivery agent/mail filter. This mail filter module is included in the Courier mail server, which uses it to filter incoming mail. Maildrop is provided here as a separate package that can be used with other mail servers as well.

Package: SqWebMail

This package contains the SqWebMail webmail CGI. This CGI is used by the Courier mail server to provide webmail access to local mailboxes. SqWebMail is provided here as a separate package that can be used with other mail servers as well.

Package: courier-sox

This package contains the Courier Socks 5 Proxy client library, which allows Courier to send outgoing mail using a Socks 5 proxy. You will need to install this package before building Courier in order to use a Socks proxy to send outgoing mail.

Package: Cone

This package contains Cone, a text-based mail client based, in part, on Courier libraries.

Package: sysconftool

The sysconftool utility contains an additional autoconf macro used by Courier to install configuration files. You only need to install sysconftool if you intend to check out Courier from Subversion. You do not need to install sysconftool in order to compile and install tarballed releases.

Package: Courier-analog

This is an optional package, the Courier log analyzer. Courier-analog generates log summaries for incoming and outgoing SMTP connections, and IMAP and POP3 activity. courier-analog can generate output in text or HTML format.

# 二．部署

第一阶段：实现Postfix邮箱基础架构

## 一 系统包：

最小化安装：支持中，英文。

base，devlopment libraries development tools editors text-base internet

==========================================================

## 二 系统配置及安装

sed -i 's/SELINUX=enforcing/SELINUX=disabled/' /etc/selinux/config && setenforce 0

/etc/init.d/iptables stop

unalias cp

yum remove sendmail -y

yum -y update &

yum -y install httpd httpd-devel mysql mysql-devel mysql-server php php-xml php-cli php-pdo php-mbstring php-mcrypt php-gd php-common php-devel php-mysql

yum -y install pcre-devel redhat-rpm-config gcc-c++ pam-devel libtool

yum -y install postgresql-devel expect expect-devel libtool-ltdl-devel telnet

alternatives --display mta

#

chkconfig httpd on

chkconfig mysqld on

chkconfig postfix on

service mysqld start

cp /home/hosts /etc/hosts

echo "ServerName ebao-mail:80" >>/etc/httpd/conf/httpd.conf

service httpd start

groupadd -g 1000 vmail && useradd -g 1000 -u 1000 -s /sbin/nologin -d /home/domain vmail

## 三 邮件系统部署

### #autoconf，automake update

rpm -e --nodeps autoconf-2.63-5.1.el6.noarch

rpm -e --nodeps automake-1.11.1-4.el6.noarch

cd /home/

tar zxvf automake-1.15.tar.gz

tar zxvf autoconf-2.69.tar.gz

cd /home/autoconf-2.69

./configure --prefix=/usr/

make

make install

sleep 3

cd /home/automake-1.15

./bootstrap.sh

./configure --prefix=/usr/

make && make install

ln -s /usr/local/bin/automake /usr/bin/automake

automake --version

autoconf --version

sleep 3

### #courier-authlib install

cd /home/

tar jxvf courier-authlib-0.66.4.tar.bz2

cd /home/courier-authlib-0.66.4

./configure --with-mysql-libs --with-mysql-includes --with-authmysql --with-authmysql=yes --with-mailuser=vmail --with-mailgroup=vmail

make

make install

make install-configure

sleep 3

#### #authlib start

cd /usr/local/etc/authlib/

ln -s /usr/local/etc/authlib /etc/authlib

mv authdaemonrc authdaemonrc.bak

mv authmysqlrc authmysqlrc.bak

cp /home/authdaemonrc /usr/local/etc/authlib/authdaemonrc

cp /home/authmysqlrc /usr/local/etc/authlib/authmysqlrc

/usr/local/sbin/authdaemond start

ps aux|grep authdaemond

echo "/usr/local/sbin/authdaemond start" >> /etc/rc.d/rc.local

### #unicode install

/usr/local/src/courier-unicode-1.4

cd /home/

tar jxvf courier-unicode-1.4.tar.bz2

cp -r /home/courier-unicode-1.4 /usr/local/src/courier-unicode-1.4

cd /usr/local/src/courier-unicode-1.4

./configure

make

make install

### #maildrop install

cd /home

tar jxvf maildrop-2.8.4.tar.bz2

cd maildrop-2.8.4

./configure --enable-maildirquota --enable-maildrop-uid=1000 --enable-maildrop-gid=1000 --with-trashquota

make

make install

ln -s /usr/local/lib/libcourier-unicode.so.3.0.0 /lib64/libcourier-unicode.so.3

### #postfix config

cp /etc/postfix/master.cf /etc/postfix/master.cf

cp /etc/postfix/main.cf /etc/postfix/main.cfbak

cp /home/master.cf /etc/postfix/master.cf

cp /home/main.cf /etc/postfix/main.cf

service postfix restart

### #extman/extmail

mkdir /tmp/{extman,extmail} && chown vmail:vmail /tmp/ext\*

mkdir /var/www/extsuite

tar zxvf /home/extmail-1.2.tar.gz -C /var/www/extsuite/

tar zxvf /home/extman-1.1.tar.gz -C /var/www/extsuite/

mv /var/www/extsuite/extmail-1.2 /var/www/extsuite/extmail

mv /var/www/extsuite/extman-1.1 /var/www/extsuite/extman

cp /home/webmail.cf /var/www/extsuite/extmail/webmail.cf

cp /home/webman.cf /var/www/extsuite/extman/webman.cf

cp /var/www/extsuite/extman-1.1/docs/mysql\_virtual\_\* /etc/postfix/

mysql -uroot </home/extmail.sql

mysql -uroot </home/init.sql

chown -R root.root /var/www/extsuite/extmail

chown -R root.root /var/www/extsuite/extman

chown -R vmail:vmail /var/www/extsuite/extmail/cgi/

chown -R vmail:vmail /var/www/extsuite/extman/cgi/

### #httpd conf

cp -r /etc/httpd/conf/httpd.conf /etc/httpd/conf/httpd.confbak

cp -r /home/httpd.conf /etc/httpd/conf/httpd.conf

cp -r /home/extmail.conf /etc/httpd/conf.d/extmail.conf

service postfix restart

service httpd restart

### #maildir

cd /var/www/extsuite/extman/tools

./maildirmake.pl /home/domains/ebao-mail/postmaster/Maildir

chown -R vmail:vmail /home/domains

### #rrdtool perl

#### #rrdtool install

yum install -y rrdtool rrdtool-perl

yum install -y cpan perl

yum install -y perl-YAML perl-Test-Exception perl-Crypt-PasswdMD5 perl-GD perl-CGI perl-Time-HiRes

cp -r /usr/share/perl5/CPAN/Config.pm /home/cpan-Config.pm

perl -MCPAN -e 'install Time::HiRes::Value'

perl -MCPAN -e 'install File::Tail'

perl -MCPAN -e 'install Unix::Syslog'

perl -MCPAN -e 'install DB\_File'

perl -MCPAN -e 'install Encode::HanExtra'

#### #测试：

http://10.10.40.213/extmail/cgi/index.cgi

#### #rrd config

cp -R /var/www/extsuite/extman/addon/mailgraph\_ext/ /usr/local/

/usr/local/mailgraph\_ext/mailgraph-init start

#Starting mail statistics grapher: mailgraph\_ext

#Starting queue statistics grapher: qmonitor

ps aux|grep mailgraph\_ext

/var/www/extsuite/extman/daemon/cmdserver -v -d

#### #loaded ok

ps aux|grep cmdserver

echo "/usr/local/mailgraph\_ext/mailgraph-init start" >> /etc/rc.d/rc.local

echo "/var/www/extsuite/extman/daemon/cmdserver -v -d" >> /etc/rc.d/rc.local

#说明：进程mailgraph-init用于生成图形日志；进程cmdserver用于生成extman主页的系统信息。

crontab –e

|  |
| --- |
| 0 4 \* \* \* /var/www/extsuite/extman/tools/expireusers.pl -all postmaster@ebao-mail  30 4 \* \* \* /var/www/extsuite/extman/tools/reportusage.pl -all /home/domains |

postmaster@ebao-mail

service crond restart

### #sasl加密

yum -y install cyrus-sasl-gssapi

cp -rf /etc/sasl2/smtpd.conf /etc/sasl2/smtpd.confbak

cp -r /home/smtpd.conf /etc/sasl2/smtpd.conf

chmod 755 /usr/local/var/spool/authdaemon

#打开sasl注释

vi /etc/postfix/main.cf

#### #测试

perl -e 'use MIME::Base64; print encode\_base64("postmaster\@ebao-mail")'

#获取账号密码64位编码

cG9zdG1hc3RlckBlYmFvLW1haWw=

#获取密码的64位编码

perl -e 'use MIME::Base64; print encode\_base64("extmail")'

ZXh0bWFpbA==

#登录测试

|  |
| --- |
| telnet localhost 25  Trying ::1...  Connected to localhost.  Escape character is '^]'.  220 mail.eplantstore.com ESMTP Postfix - by eplantstore.com  ehlo localhost #输入hello内容  250-mail.eplantstore.com  250-PIPELINING  250-SIZE 10485760  250-VRFY  250-ETRN  250-AUTH PLAIN LOGIN #显示认证登陆表示Postfix成功  250-AUTH=PLAIN LOGIN #调用Cyrus-SASL进行SMTP认证  250-ENHANCEDSTATUSCODES  250-8BITMIME  250 DSN  auth login #输入认证登陆命令  334 VXNlcm5hbWU6  cG9zdG1hc3RlckB5b3VybWFpbC5jb20= #输入账号的Base64编码  334 UGFzc3dvcmQ6  ZXh0bWFpbA== #输入密码的Base64编码  235 2.7.0 Authentication successful #显示认证成功  quit  221 2.0.0 Bye  Connection closed by foreign host.  ##postfix通过SMTP认证（cyrus-sasl），配置成功。 |

### # Courier-IMAP以及TLS安全传输

#### #courier-imap install

cd /home

tar jxvf courier-imap-4.17.2.tar.bz2 -C /usr/local/src

cd /usr/local/src/courier-imap-4.17.2

./configure --enable-workarounds-for-imap-client-bugs --with-authchangepwdir --enable-unicode --with-trashquota --disable-root-check

make

make install

make install-configure

#### #courier-imap config

cd /usr/lib/courier-imap/

/usr/lib/courier-imap/libexec/imapd.rc start

echo "/usr/lib/courier-imap/libexec/imapd.rc start" >> /etc/rc.local

#### #check imapd

ps aux|grep imapd

|  |
| --- |
| root 14111 0.0 0.0 4068 360 ? S 09:39 0:00 /usr/local/sbin/courierlogger -pid=/var/run/imapd.pid -start -name=imapd /usr/lib/courier-imap/libexec/couriertcpd -address=0 -maxprocs=40 -maxperip=4 -access=/usr/lib/courier-imap/etc/imapaccess.dat -nodnslookup -noidentlookup 143 /usr/lib/courier-imap/sbin/imaplogin /usr/lib/courier-imap/bin/imapd Maildir  root 14112 0.0 0.0 8280 672 ? S 09:39 0:00 /usr/lib/courier-imap/libexec/couriertcpd -address=0 -maxprocs=40 -maxperip=4 -access=/usr/lib/courier-imap/etc/imapaccess.dat -nodnslookup -noidentlookup 143 /usr/lib/courier-imap/sbin/imaplogin /usr/lib/courier-imap/bin/imapd Maildir  root 14153 0.0 0.0 103316 840 pts/2 S+ 10:18 0:00 grep imapd |

netstat -tnlp|grep 143

|  |
| --- |
| tcp 0 0 :::143 :::\* LISTEN 14112/couriertcpd |

#### #start pop3

/usr/lib/courier-imap/libexec/pop3d.rc start

echo "/usr/lib/courier-imap/libexec/pop3d.rc start" >> /etc/rc.local

echo "\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

cat /etc/rc.local

echo "\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

#### #check pop3

ps aux|grep pop3d

|  |
| --- |
| root 14170 0.0 0.0 4068 360 ? S 10:20 0:00 /usr/local/sbin/courierlogger -pid=/var/run/pop3d.pid -start -name=pop3d /usr/lib/courier-imap/libexec/couriertcpd -address=0 -maxprocs=40 -maxperip=4 -nodnslookup -noidentlookup 110 /usr/lib/courier-imap/sbin/pop3login /usr/lib/courier-imap/bin/pop3d Maildir  root 14171 0.0 0.0 8280 648 ? S 10:20 0:00 /usr/lib/courier-imap/libexec/couriertcpd -address=0 -maxprocs=40 -maxperip=4 -nodnslookup -noidentlookup 110 /usr/lib/courier-imap/sbin/pop3login /usr/lib/courier-imap/bin/pop3d Maildir  root 14176 0.0 0.0 103316 840 pts/2 S+ 10:23 0:00 grep pop3d |

netstat -tnlp|grep 110

|  |
| --- |
| tcp 0 0 :::110 :::\* LISTEN 14171/couriertcpd |

#### 说明：

以上分别启动了pop3d和imapd服务，端口使用110和143，通常在设置邮箱客户端(outlook等)时可以看到默认设置的端口号就是这两个。

#### #pop3配置

cp /usr/lib/courier-imap/etc/imapd /usr/lib/courier-imap/etc/imapdbak

cp /usr/lib/courier-imap/etc/pop3d /usr/lib/courier-imap/etc/pop3dbak

sed -i 's/IMAPDSTART=NO/IMAPDSTART=YES/g' /usr/lib/courier-imap/etcetc/imapd

sed -i 's/POP3DSTART=NO/POP3DSTART=YES/g' /usr/lib/courier-imap/etcetc/pop3d

#### #测试 110端口

telnet localhost 110

|  |
| --- |
| Trying ::1...  Connected to localhost.  Escape character is '^]'.  +OK Hello there.  user postmaster@ebao-mail  +OK Password required.  pass extmail  +OK logged in.  list  +OK POP3 clients that break here, they violate STD53.  1 6  2 6  .  quit  +OK Bye-bye.  Connection closed by foreign host. |

#### #测试 143端口

|  |
| --- |
| telnet localhost 143  Trying ::1...  Connected to localhost.  Escape character is '^]'.  \* OK [CAPABILITY IMAP4rev1 UIDPLUS CHILDREN NAMESPACE THREAD=ORDEREDSUBJECT THREAD=REFERENCES SORT QUOTA IDLE ACL ACL2=UNION STARTTLS] Courier-IMAP ready. Copyright 1998-2016 Double Precision, Inc. See COPYING for distribution information.  tag login postmaster@ebao-mail extmail  tag OK LOGIN Ok.  tag logout  \* BYE Courier-IMAP server shutting down  tag OK LOGOUT completed  Connection closed by foreign host. |

#### #说明 以上显示代表POP3和IMAP正常

### # Courier-IMAP支持SSL

#### #config ssl

[root@ebao-mail etc]# rpm -aq|grep openssl

|  |
| --- |
| openssl-1.0.1e-48.el6\_8.3.x86\_64  openssl-devel-1.0.1e-48.el6\_8.3.x86\_64 |

sed -i 's/IMAPDSSLSTART=NO/IMAPDSSLSTART=YES/g' /usr/lib/courier-imap/etc/imapd-ssl

sed -i 's/POP3DSSLSTART=NO/POP3DSSLSTART=YES/g' /usr/lib/courier-imap/etc/pop3d-ssl

#### #start Courier-IMAP的ssl程序

/usr/lib/courier-imap/libexec/imapd-ssl.rc start

/usr/lib/courier-imap/libexec/pop3d-ssl.rc start

echo "/usr/lib/courier-imap/libexec/imapd-ssl.rc start" >> /etc/rc.local

echo "/usr/lib/courier-imap/libexec/pop3d-ssl.rc start" >> /etc/rc.local

#### #check ssl

netstat -tlnp |grep 99

|  |
| --- |
| tcp 0 0 :::993 :::\* LISTEN 46228/couriertcpd  tcp 0 0 :::995 :::\* LISTEN 46236/couriertcpd |

#### #说明：

POP3-SSL使用995端口，IMAP-SSL使用993端口

#### ****#创建证书****

##### 创建IMAP证书文件：

/usr/lib/courier-imap/share/mkimapdcert

|  |
| --- |
| Generating a 4096 bit RSA private key  .................................................................................................................................................................................................................................................................++  ..................................................++  writing new private key to '/usr/lib/courier-imap/share/imapd.pem'  -----  subject= /C=US/ST=NY/L=New York/O=Courier Mail Server/OU=Automatically-generated IMAP SSL key/CN=localhost/emailAddress=postmaster@example.com  notBefore=Dec 15 04:05:09 2016 GMT  notAfter=Dec 15 04:05:09 2017 GMT  SHA1 Fingerprint=AB:79:C4:D6:AF:C6:5F:78:C5:7D:E3:4E:B5:E0:9A:DA:D9:53:A0:2F |

##### 创建POP3证书文件：

/usr/lib/courier-imap/share/mkpop3dcert

|  |
| --- |
| Generating a 4096 bit RSA private key  ..................................................................................................................................................................................................++  ..................................................++  writing new private key to '/usr/lib/courier-imap/share/pop3d.pem'  -----  subject= /C=US/ST=NY/L=New York/O=Courier Mail Server/OU=Automatically-generated POP3 SSL key/CN=localhost/emailAddress=postmaster@example.com  notBefore=Dec 15 04:06:07 2016 GMT  notAfter=Dec 15 04:06:07 2017 GMT  SHA1 Fingerprint=4B:2F:95:C0:EB:DD:32:45:D9:07:4E:32:81:DE:19:52:F8:E5:01:F9 |

##### 创建DH参数集文件：

/usr/lib/courier-imap/share/mkdhparams

|  |
| --- |
| 512 semi-random bytes loaded  Generating DH parameters, 2048 bit long safe prime, generator 2  This is going to take a long time  .....++\*++\* |

##### 查看证书文件和DH参数集文件：

ls /usr/lib/courier-imap/share/

|  |
| --- |
| dhparams.pem imapd.pem man mkdhparams mkimapdcert mkpop3dcert pop3d.pem |

#### ****#加密连接****

添加一个月计划任务，运行mkdhparams,以定期生成一个新的DH参数集，用于设置加密连接：

crontab –e

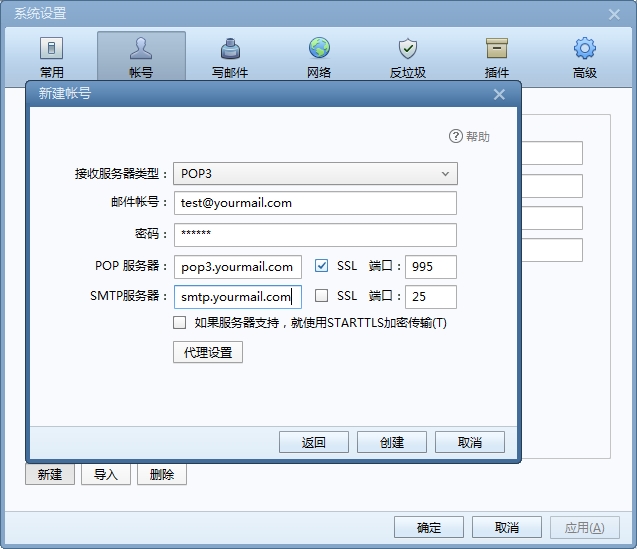
|  |
| --- |
| 0 0 1 1 \* /usr/lib/courier-imap/share/mkdhparams |

#### #客户端测试pop3-ssl

##### 在客户端PC（或者本地DNS服务器）设置本地解析：

|  |  |
| --- | --- |
| 1  2  3  4  5 | C:\Windows\System32\drivers\etc\hosts  10.10.50.213 pop3. ebao-mail 10.10.50.213 smtp. ebao-mail 10.10.50.213 imap. ebao-mail 10.10.50.213 mail. ebao-mail |

##### 在Foxmail邮箱客户端添加test账号，选择POP3类型，勾上SSL端口995，SMTP保持默认25端口



##### 给test自己发送一封邮件并接收，成功表示pop3d-ssl成功

查看日志：

tail /var/log/maillog

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | Dec  2 09:10:02 mail postfix/smtpd[4051]: connect from unknown[10.188.1.172]  Dec  2 09:10:02 mail postfix/smtpd[4051]: 583221A1BCC: client=unknown[10.188.1.172], sasl\_method=LOGIN, sasl\_username=test@yourmail.com  Dec  2 09:10:02 mail postfix/cleanup[4061]: 583221A1BCC: message-id=<201412020909527054540@yourmail.com>  Dec  2 09:10:02 mail postfix/qmgr[64225]: 583221A1BCC: from=<test@yourmail.com>, size=1470, nrcpt=1 (queue active)  Dec  2 09:10:02 mail postfix/smtpd[4051]: disconnect from unknown[10.188.1.172]  Dec  2 09:10:02 mail postfix/pipe[4063]: 583221A1BCC: to=<test@yourmail.com>, relay=maildrop, delay=0.16, delays=0.11/0.02/0/0.03, dsn=2.0.0, status=sent (delivered via maildrop service)  Dec  2 09:10:02 mail postfix/qmgr[64225]: 583221A1BCC: removed  Dec  2 09:10:04 mail pop3d-ssl: Connection, ip=[::ffff:10.188.1.172]  Dec  2 09:10:04 mail pop3d-ssl: LOGIN, user=test@yourmail.com, ip=[::ffff:10.188.1.172], port=[50258]  Dec  2 09:10:04 mail pop3d-ssl: LOGOUT, user=test@yourmail.com, ip=[::ffff:10.188.1.172], port=[50258], top |

##### 查看邮件头：



#### ****测试imap-ssl****

# 登陆邮箱前台

http://10.10.40.213/extmail/

# log

tailf /var/log/maillog

# 登陆邮箱后台

http://ebao-mail/extman/

账号：root@yourmail.com

密码：extmail\*123\*

验证码的显示需要安装perl-GD，也可以取消验证码：

vi /var/www/extsuite/extman/webman.cf

SYS\_CAPTCHA\_ON＝0

#mail系统日志

tail -f /var/log/maillog

#test

/usr/local/sbin/authtest -s login postmaster@ebao-mail extmail

#maildrop

maildrop -v

echo "test" | maildrop -V 10 -d postmaster@ebao-mail

#cgi检查

httpd -V

suexec -V

#postfix 测试命令

postfix check

postconf -a

postconf -m

#cpan 安装 /usr/share/perl5/CPAN/Config.pm

1 修改cpan源

2 修改是否安装依赖关系

#cpan

o conf

o conf urllist

o conf urllist ftp://mirrors.sohu.com/CPAN/ http://mirrors.163.com/cpan/

'prerequisites\_policy' => q[ask], #当前

'prerequisites\_policy' => q[follow], #可能是带以来关系的安装，手动输入yes

#删除#

grep -v "^#" /etc/httpd/conf/httpd.confbak | grep -v "^$" >/etc/httpd/conf/httpd.conf

还有种方式是关闭日志记录：

vi /var/www/extsuite/extmail/webmail.conf

将sys\_log\_on = 1改为sys\_log\_on = 0

#问题

?????????? 按步骤从新配置httpd。conf？？？？？？？？？？？？？？

参考资料：

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