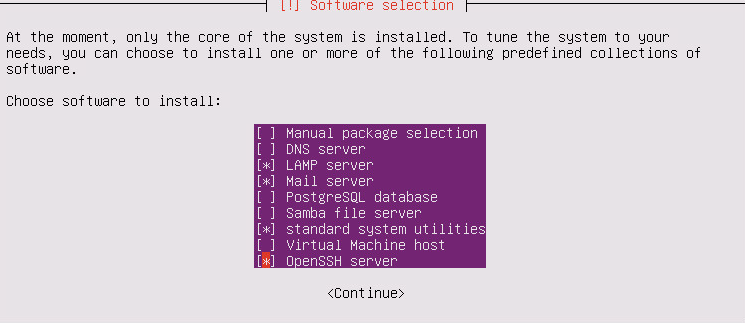
# postfix+dovecot+MySQL安装

### 注意：安装系统时包的选择，主机名设置和邮件服务器设置



**一、安装必要包**

apt-get install postfix postfix-mysql postfix-doc mysql-client mysql-server dovecot-common dovecot-imapd dovecot-pop3d libsasl2-2 libsasl2-modules libsasl2-modules-sql sasl2-bin libpam-mysql openssl telnet mailutils dovecot-mysql

**二、设置MySQL数据库**

mysql -u root -p

mysql> CREATE DATABASE mail;

mysql> USE mail;

mysql> GRANT SELECT, INSERT, UPDATE, DELETE ON mail.\* TO 'mail\_admin'@'localhost' IDENTIFIED BY 'gathink';

mysql> GRANT SELECT, INSERT, UPDATE, DELETE ON mail.\* TO 'mail\_admin'@'127.0.0.1' IDENTIFIED BY 'gathink';

mysql> FLUSH PRIVILEGES;

mysql> CREATE TABLE domains (domain varchar(50) NOT NULL, PRIMARY KEY (domain) );

mysql> CREATE TABLE forwardings (source varchar(80) NOT NULL, destination TEXT NOT NULL, PRIMARY KEY (source) );

mysql> CREATE TABLE users (email varchar(80) NOT NULL, password varchar(20) NOT NULL, PRIMARY KEY (email) );

mysql> CREATE TABLE transport ( domain varchar(128) NOT NULL default '', transport varchar(128) NOT NULL default '', UNIQUE KEY domain (domain) );

mysql> quit

**注：请替换gathink为用户mail\_admin的密码，以下出现gathink的也请替换下。**

**三、配置Postfix使用MySQL**

#### 1、文件：vim /etc/postfix/mysql-virtual\_domains.cf

user = mail\_admin

password = gathink

dbname = mail

query = SELECT domain AS virtual FROM domains WHERE domain='%s'

hosts = 127.0.0.1

#### 2、文件：vim /etc/postfix/mysql-virtual\_forwardings.cf

user = mail\_admin

password = gathink

dbname = mail

query = SELECT destination FROM forwardings WHERE source='%s'

hosts = 127.0.0.1

#### 3、文件：vim /etc/postfix/mysql-virtual\_mailboxes.cf

user = mail\_admin

password = gathink

dbname = mail

query = SELECT CONCAT(SUBSTRING\_INDEX(email,'@',-1),'/',SUBSTRING\_INDEX(email,'@',1),'/') FROM users WHERE email='%s'

hosts = 127.0.0.1

#### 4、文件：vim /etc/postfix/mysql-virtual\_email2email.cf

user = mail\_admin

password = gathink

dbname = mail

query = SELECT email FROM users WHERE email='%s'

hosts = 127.0.0.1

#### 5、设置权限：

chmod o= /etc/postfix/mysql-virtual\_\*.cf

chgrp postfix /etc/postfix/mysql-virtual\_\*.cf

#### 6、建立用户：

groupadd -g 5000 vmail

useradd -g vmail -u 5000 vmail -d /home/vmail -m

#### 7、配置postfix:

postconf -e 'myhostname = mailtest.com'

postconf -e 'mydestination = mailtest.com, localhost, localhost.localdomain'

postconf -e 'mynetworks = 127.0.0.0/8'

postconf -e 'message\_size\_limit = 30720000'

postconf -e 'virtual\_alias\_domains ='

postconf -e 'virtual\_alias\_maps = proxy:mysql:/etc/postfix/mysql-virtual\_forwardings.cf, mysql:/etc/postfix/mysql-virtual\_email2email.cf'

postconf -e 'virtual\_mailbox\_domains = proxy:mysql:/etc/postfix/mysql-virtual\_domains.cf'

postconf -e 'virtual\_mailbox\_maps = proxy:mysql:/etc/postfix/mysql-virtual\_mailboxes.cf'

postconf -e 'virtual\_mailbox\_base = /home/vmail'

postconf -e 'virtual\_uid\_maps = static:5000'

postconf -e 'virtual\_gid\_maps = static:5000'

postconf -e 'smtpd\_sasl\_auth\_enable = yes'

postconf -e 'broken\_sasl\_auth\_clients = yes'

postconf -e 'smtpd\_sasl\_authenticated\_header = yes'

postconf -e 'smtpd\_recipient\_restrictions = permit\_mynetworks, permit\_sasl\_authenticated, reject\_unauth\_destination'

postconf -e 'smtpd\_use\_tls = yes'

postconf -e 'smtpd\_tls\_cert\_file = /etc/postfix/smtpd.cert'

postconf -e 'smtpd\_tls\_key\_file = /etc/postfix/smtpd.key'

postconf -e 'proxy\_read\_maps = $local\_recipient\_maps $mydestination $virtual\_alias\_maps $virtual\_alias\_domains $virtual\_mailbox\_maps $virtual\_mailbox\_domains $relay\_recipient\_maps $relay\_domains $canonical\_maps $sender\_canonical\_maps $recipient\_canonical\_maps $relocated\_maps $transport\_maps $mynetworks $virtual\_mailbox\_limit\_maps'

postconf -e 'virtual\_transport = dovecot'

postconf -e 'local\_transport = dovecot'

**四、为postfix创建证书：**

cd /etc/postfix

openssl req -new -outform PEM -out smtpd.cert -newkey rsa:2048 -nodes -keyout smtpd.key -keyform PEM -days 365 -x509

#### 1、更改证书权限：

chmod o= /etc/postfix/smtpd.key

**五、配置saslauthd**

mkdir -p /var/spool/postfix/var/run/saslauthd

cp -a /etc/default/saslauthd /etc/default/saslauthd.bak

sed -i '43ichmod -R +x /var/spool/postfix/var/' /etc/init.d/saslauthd

systemctl daemon-reload

#### 1、编辑文件：vim /etc/default/saslauthd，按以下内容修改：

START=yes

DESC="SASL Authentication Daemon"

NAME="saslauthd"

MECHANISMS="pam"

MECH\_OPTIONS=""

THREADS=5

OPTIONS="-c -m /var/spool/postfix/var/run/saslauthd -r"

#### 2、文件：vim /etc/pam.d/smtp

auth    required   pam\_mysql.so user=mail\_admin passwd=gathink host=127.0.0.1 db=mail table=users usercolumn=email passwdcolumn=password crypt=1

account sufficient pam\_mysql.so user=mail\_admin passwd=gathink host=127.0.0.1 db=mail table=users usercolumn=email passwdcolumn=password crypt=1

#### 3、文件：vim /etc/postfix/sasl/smtpd.conf

pwcheck\_method: saslauthd

mech\_list: plain login

allow\_plaintext: true

auxprop\_plugin: sql

sql\_engine: mysql

sql\_hostnames: 127.0.0.1

sql\_user: mail\_admin

sql\_passwd: gathink

sql\_database: mail

sql\_select: select password from users where email = '%u@%r'

#### 4、修改/etc/init

#### 4、设置权限：

chmod o= /etc/pam.d/smtp

chmod o= /etc/postfix/sasl/smtpd.conf

#### 5、重启服务：

adduser postfix sasl

service postfix restart

service saslauthd restart

**六、配置Dovecot**

文件：vim /etc/postfix/master.cf，按如下修改

#### 1、取消submission配置的注释：

#submission inet n       -       -       -       -       smtpd

#  -o syslog\_name=postfix/submission

#  -o smtpd\_tls\_security\_level=encrypt

#  -o smtpd\_sasl\_auth\_enable=yes

#  -o smtpd\_client\_restrictions=permit\_sasl\_authenticated,reject

#  -o milter\_macro\_daemon\_name=ORIGINATING

**改为**

submission inet n       -       -       -       -       smtpd

  -o syslog\_name=postfix/submission

  -o smtpd\_tls\_security\_level=encrypt

  -o smtpd\_sasl\_auth\_enable=yes

  -o smtpd\_client\_restrictions=permit\_sasl\_authenticated,reject

  -o milter\_macro\_daemon\_name=ORIGINATING

#### 2、文件尾增加：

dovecot   unix  -       n       n       -       -       pipe

    flags=DRhu user=vmail:vmail argv=/usr/lib/dovecot/deliver -d ${recipient}

cp -a /etc/dovecot/dovecot.conf /etc/dovecot/dovecot.conf.bak

#### 3、清空文件vim /etc/dovecot/dovecot.conf，加入如下：

log\_timestamp = "%Y-%m-%d %H:%M:%S "

mail\_location = maildir:/home/vmail/%d/%n/Maildir

namespace {

  inbox = yes

  location =

  prefix = INBOX.

  separator = .

  type = private

}

passdb {

  args = /etc/dovecot/dovecot-sql.conf

  driver = sql

}

protocols = imap pop3

disable\_plaintext\_auth = no

auth\_mechanisms = plain login

service auth {

  unix\_listener /var/spool/postfix/private/auth {

    group = postfix

    mode = 0660

    user = postfix

  }

  unix\_listener auth-master {

    mode = 0600

    user = vmail

  }

  user = root

}

ssl = required

ssl\_cert = </etc/ssl/certs/dovecot.pem

ssl\_key = </etc/ssl/private/dovecot.pem

userdb {

  args = uid=5000 gid=5000 home=/home/vmail/%d/%n allow\_all\_users=yes

  driver = static

}

protocol lda {

  auth\_socket\_path = /var/run/dovecot/auth-master

  log\_path = /home/vmail/dovecot-deliver.log

  postmaster\_address = postmaster@example.com

}

protocol pop3 {

  pop3\_uidl\_format = %08Xu%08Xv

}

cp -a /etc/dovecot/dovecot-sql.conf /etc/dovecot/dovecot-sql.conf.bak

#### 4、文件：vim /etc/dovecot/dovecot-sql.conf

driver = mysql

connect = host=127.0.0.1 dbname=mail user=mail\_admin password=gathink

default\_pass\_scheme = CRYPT

password\_query = SELECT email as user, password FROM users WHERE email='%u';

#### 5、设置认证文件

vim /etc/ssl/certs/dovecot.pem

-----BEGIN CERTIFICATE-----

MIIGWTCCBUGgAwIBAgIQMAYXCgWXH/foSvOVOXr4NTANBgkqhkiG9w0BAQsFADBC

MQswCQYDVQQGEwJVUzEWMBQGA1UEChMNR2VvVHJ1c3QgSW5jLjEbMBkGA1UEAxMS

UmFwaWRTU0wgU0hBMjU2IENBMB4XDTE3MDMzMTAwMDAwMFoXDTIwMDUyOTIzNTk1

OVowGzEZMBcGA1UEAwwQcG9wMy5xdWFuc2hpLmNvbTCCASIwDQYJKoZIhvcNAQEB

BQADggEPADCCAQoCggEBALdKSj1hxILmO3kRkiQWZJ3NY5oCZtH/m86638kKaswB

R9OZ/P/VaZHe8hgkGwVUOoB++5VQfu+I7W7HNjDB48x3jSd0c2jbb8znOZ9KbsWM

ZdPUpg/F2bXgt7TJq2xW2PfEpGm/XIjL6EMDBOSyXcUZx/EXx8fMCnzJMXdzte57

hybUAghfq7kcyoUlTXgJ4wVQjVua8m2FBRbs7dZ96sf8AcZAWhS2NzRPLzab4kQ8

341rnSlcOMylttb/kPd1i6BGU9BDm5i3NXOZkzWC7b/BPNk2Tfx27jiTFWkBobo/

FewwwnxKGaJ8NuLHoJ87e06Wq7k1glXJvIGKXrI67/8CAwEAAaOCA3AwggNsMBsG

A1UdEQQUMBKCEHBvcDMucXVhbnNoaS5jb20wCQYDVR0TBAIwADArBgNVHR8EJDAi

MCCgHqAchhpodHRwOi8vZ3Auc3ltY2IuY29tL2dwLmNybDBvBgNVHSAEaDBmMGQG

BmeBDAECATBaMCoGCCsGAQUFBwIBFh5odHRwczovL3d3dy5yYXBpZHNzbC5jb20v

bGVnYWwwLAYIKwYBBQUHAgIwIAweaHR0cHM6Ly93d3cucmFwaWRzc2wuY29tL2xl

Z2FsMB8GA1UdIwQYMBaAFJfCJ1CewsnsDIgyyHyt4qYBT9pvMA4GA1UdDwEB/wQE

AwIFoDAdBgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwVwYIKwYBBQUHAQEE

SzBJMB8GCCsGAQUFBzABhhNodHRwOi8vZ3Auc3ltY2QuY29tMCYGCCsGAQUFBzAC

hhpodHRwOi8vZ3Auc3ltY2IuY29tL2dwLmNydDCCAfkGCisGAQQB1nkCBAIEggHp

BIIB5QHjAHcA3esdK3oNT6Ygi4GtgWhwfi6OnQHVXIiNPRHEzbbsvswAAAFbIf+C

AAAABAMASDBGAiEA0MAeron6lW4zCHnbbIT5LjhGUQ0dCF0u9Ii8cZNB0OACIQCT

PM4rde++iRAs+9Q0T6+bXnEhMdgTLUvGIwwDueekqAB3AKS5CZC0GFgUh7sTosxn

cAo8NZgE+RvfuON3zQ7IDdwQAAABWyH/gjwAAAQDAEgwRgIhAMgRcLvHYbg4Ge+M

j2f7nn2hr90a6wOuypEDB5ELL7h9AiEA84igl6eEkx/NNtORHIBSg8XJAi7EOaCB

HnUwL78U6zgAdwDuS723dc5guuFCaR+r4Z5mow9+X7By2IMAxHuJeqj9ywAAAVsh

/4JRAAAEAwBIMEYCIQC4f1RxnLYEYN4p5UfMREwJOTqLgtDg3l0pjDtBU0UxnAIh

AMR89z3Mvpz/aOOeNCu4kjOkOYX1wZIZeXPkvy3N9kkIAHYAvHjh38X2PGhGSTNN

oQ+hXwl5aSAJwIG08/aRfz7ZuKUAAAFbIf+C8wAABAMARzBFAiAdeSJ3tRendlK0

K6o/jy/yxNi/X/aAHGCjJNEW+NP8iQIhAOXcZMat5SFHmlNi30B2SsUD+DsrrTtB

//l16YdOvvqLMA0GCSqGSIb3DQEBCwUAA4IBAQCjO6s5htlRhFp1fQawsPdZ2VKg

h3SNwQXXZwuNCeJe36nKnssT/YQBsyp3nSvNRxWFbitjhCnpdb7MascHtCRN7NN/

ATDleIRybZ38I2RpZ7ad5E2ckLS5CdbgnKt/RlgHQRXxHJtqJ6SJaw4IqH6v8cDT

5joUW/X/9DRgEFif9j7IKctlJKC0/lwdAVbXpCTgeHXiwkEsPgZyjqbv/uoSdIPC

gMUGXUOhPcW1GBq+Im0Z+5DGNmwPvZshQW0CrAdvD0ynzY/INatWyNsUiQsOvAcv

UlgSWKexaqg5wI9x7uK3PDDhG387uaiz1qPEGPsgDHi7DihneHE+pdfw42ZB

-----END CERTIFICATE-----

/etc/ssl/private/dovecot.pem

-----BEGIN RSA PRIVATE KEY-----

MIIEpAIBAAKCAQEAt0pKPWHEguY7eRGSJBZknc1jmgJm0f+bzrrfyQpqzAFH05n8

/9Vpkd7yGCQbBVQ6gH77lVB+74jtbsc2MMHjzHeNJ3RzaNtvzOc5n0puxYxl09Sm

D8XZteC3tMmrbFbY98Skab9ciMvoQwME5LJdxRnH8RfHx8wKfMkxd3O17nuHJtQC

CF+ruRzKhSVNeAnjBVCNW5rybYUFFuzt1n3qx/wBxkBaFLY3NE8vNpviRDzfjWud

KVw4zKW21v+Q93WLoEZT0EObmLc1c5mTNYLtv8E82TZN/HbuOJMVaQGhuj8V7DDC

fEoZonw24segnzt7TparuTWCVcm8gYpesjrv/wIDAQABAoIBADDb7tpZ+4ZhVS06

z9gq1/twysI9LaeBGcmL6yeuTTXAiaMQg263NwMZiTOCPGm5QDcMoof1A0FbIN/M

3tc0eEMDA2+nDTTAehcG9EdQEiM6/9Ht965wsU5YbuAUekvRAtlZY/KEfmhA4tMq

NN255mEqNDBChJDwBUOqZjNPdwnxE6jKq5t01Vdh3zTHR7AFM3EWdsH6LceX8rl6

SfB/Xts5D19uwrjT632kfakTH4rS3Bk3sO/y+dC2VBsIToirsF/JnbIV6pBVfNuS

eFPD9yEPciFulfyICSrFv4x2sCG3cBgrvRfcE9/lNOwURMTPQzEVyJ5+tXQArNG1

wNk1t9ECgYEA8lqudrU111TGPDxtJEQNQjx6KR4kYJjn6L3OAeApGvutnpvGI1bY

Vzvahrlq/J9cEYMv6FJwLC3UCsHClTcNf3+3ozuqPLM4aswUMtksyKr5fg4zC6HX

qnerL1HfVGEIvFplAJjEz5yFJhK8l6wnD7OOhU4EYGe8P9cD6QIdU50CgYEAwZxA

6VdRjwwp6Xqm6997CefnmOYkirZQWZvlwGZiL3LcfXoLhIAMSwlsyOFLJb12DchL

cTQP7MwRSVsSWPbMNGc3tojDvVm6RKU+sD/JbU8QcIAIsIiL5Zs7gg+oOmj06MVo

nwxUJQIrKYd9aMTVDsi1L2l4/rinGq+WRwu45UsCgYBNDQ+SpiIsB8POutdoREqC

2H9uOysNmw+AK3gnmID5FzMnzha8fYvikCD13FVrY6790luU3UDUiu1zTg7zKcGc

25oix4FkMwaozaFOWUWnttQDg7gu5pGOnOVL8hey1/bTC1o5SlioOPcMF8Dl59Gz

aD7Tmu5BSDnNgiq4FfgE8QKBgQC04LD4Dr7AgKGrYg4OMTQ2tfR1sRUUjm0UuoPz

svMp1wpNI7cc67AQbla2eVyGfrGLAMQSl4wFM0U3HiFPAgsXLhMrsiwEe4580VB2

wrEBMStvnv3/RyJDuTnoMY5+O04LJVqvtInsJVGDs/Qi7DkMXdB/4e7LMmHTmZUw

/K+ZbwKBgQDNLWrXO5a5HZV3oi1ldv0hf5W2UVi/5Exqbu05xVxqYgWZHh62Dr5X

1/hS42nhMdplfYA9z6OkImxPisK3gqTmRAR3XuVQMsBs4fgCdH7enhbfm+v5M0Sm

pDfUmrU6PjBtC1HiZOeeNjyebUxHgPHy96LLXKn2yI0bfUGkWxPDJQ==

-----END RSA PRIVATE KEY-----

service dovecot restart

chgrp vmail /etc/dovecot/dovecot.conf

chmod g+r /etc/dovecot/dovecot.conf

**七、设置Mail Aliases**

文件vim /etc/aliases

postmaster: root

root: postmaster@mailtest.com

**八、测试**

mysql -u root -p

USE mail;

INSERT INTO domains (domain) VALUES ('mailtest.com');

INSERT INTO users (email, password) VALUES ('sales@mailtest.com', ENCRYPT('gathink'));

quit

#### 1、登录验证

使用Outlook登录验证，pop3是使用995端口，发件和收件都是mail.mailtest.com

### 九、安装脚本



补丁包：

