

Workshop 10: Mail Server

Part1: Installing Bind

Goal: Define a new domain with MX record.

Step 1: Bind Installation

Verify Bind & Bind-chroot

```
# rpm -q bind  
if it's not installed:
```

```
# yum install bind  
Remove bind-chroot (simplify installation.):  
# rpm -q bind-chroot  
# rpm -e bind-chroot
```

Step 2: Configuration Bind master configuration

```
# vim /etc/named.conf  
options {  
    directory "/var/named";  
};  
zone "lpir.org" {  
    type master;  
    file "lpir.org.db";  
};
```

Step 3: Configuration domain file.

```
# vim /var/named/lpir.org.db  
  
$ttl 24h;  
@ in soa ns root ( 1 1h 15m 1w 1h )  
in ns ns  
in a 192.168.XXX.XXX  
in mx 1 mail  
mail in a 192.168.XXX.XXX  
ns in a 192.168.XXX.XXX  
www in cname @
```

Step 4: Update permission zone file.

```
# cd /var/named/  
# chgrp named lpir.org.db
```

Step 5: Start service named and make it permanent

```
# service named start
```

Permanent named service:

```
# chkconfig named on
```

Step 6: Modify DNS resolver:

```
# echo "nameserver 127.0.0.1" > /etc/resolv.conf
```

Part2: Installing Postfix MTA

Goal: Use postfix as default MTA.

Step 1: Installation Postfix:

```
# yum install postfix
```

Step 2: Switch MTA from sendmail to Postfix:

```
# yum install system-switch-mail
```

Use Redhat switch mail program to switch sendmail
to postfix or other MTAs.

```
# system-switch-mail
```

Step 3: Verify postfix

Check port who is listenning on 25/tcp (Postfix Master)

```
# netstat -antp
```

Part3: Configuring Postfix MTA

Goal: Configure postfix to accept emails.

Step 1: Verify postfix configuration files:

```
# rpm -qc postfix
/etc/pam.d/smtp.postfix <- PAM Module
/etc/postfix/ ... <- Main configuration directory
/etc/rc.d/init.d/postfix <- Startup script
/usr/lib/sasl/smtpd.conf
/usr/lib/sasl2/smtpd.conf
```

Step 2: Configure main postfix configuration

open /etc/postfix/main.cf and change lines bellow:

```
# cd /etc/postfix
# vim /etc/postfix/main.cf
```

```
69 myhostname = mail.lpir.org
77 mydomain = lpir.org
93 myorigin = $mydomain
107 inet_interfaces = all
110 #inet_interfaces = localhost
155 #mydestination = $myhostname, localhost.$mydomain, localhost
156 mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain
410 home_mailbox = Maildir/
```

Step 3: Restart the server

```
# service postfix restart
```

Step 4: Verify the server

```
# netstat -nltp | grep 25
... 0 0.0.0.0:25 ... LISTEN ... XXX/master
```

Part4: Check local emails, users.

Step1: Create a local user

```
# useradd test
# useradd lpi
# passwd test
```

```
# passwd lpi
```

Step2: Send a mail from lpi to test

```
# su - lpi
$ mail test@lpir.org
Subject: Test 1<Enter>
Body 1<Enter>
.<Enter>
Cc:<Enter>
```

```
exit
```

Step3: Receive the mail from lpi

```
# su - test
# ls
if directory ./Maildir/ exists,
it's working well!
```

```
# tree ./Maildir/
./Maildir/
|-- cur
|-- new
| '-- XXXXXXXXXX.centos5.lpir.org <- Our new mail
-- tmp
```

```
# cat ./Maildir/new/1358608681.Vfd00I1201caM331875.centos5.lpir.org
..... Read Email Here....
```

To Read Emails:
mutt -f ./Maildir/

Part5: Install & Configuring dovecot

Goal: Configure dovecot to serve POP3/IMAP

Step 1. Installation POP/IMAP Server:

```
# rpm -q dovecot
dovecot-1.0.7-7.el5_7.1
```

If it is not installed, install it:
yum install dovecot

Step 2: Dovecot POP/IMAP configuration overview:

```
# rpm -qc dovecot
/etc/dovecot.conf <- Main server configuration
/etc/pam.d/dovecot <- PAM module
/etc/pki/dovecot/certs/dovecot.pem <- cert files
/etc/pki/dovecot/dovecot-openssl.cnf <- cert files
/etc/pki/dovecot/private/dovecot.pem <- cert files
/etc/rc.d/init.d/dovecot <- service initv format script
/etc/sysconfig/dovecot <- Redhat defaults
```

Step 3: Modify main server configuration:

```
vim /etc/dovecot.conf
20 protocols = imap pop3 # imaps pops
205 mail_location = maildir:~/Maildir
```

Step 4: Start dovecot service

```
service dovecot start  
chkconfig dovecot on
```

Step 5: verify dovecot

```
# netstat -nltp | grep -E 110|143  
tcp      0      0 ::::110          ::::*:LISTEN      3276/dovecot  
tcp      0      0 ::::143          ::::*:LISTEN      3276/dovecot
```