

# 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 listening 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
|   |-- XXXXXXXXXXXX.centos5.lpir.org <- Our new mail
|   |-- tmp
```

```
# cat ./Maildir/new/1358608681.Vfd00l1201caM331875.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 -nlt | grep -E 110\|143
```

```
tcp    0      0 :::110          :::*  
tcp    0      0 :::143          :::*
```

```
LISTEN  3276/dovecot  
LISTEN  3276/dovecot
```

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