

# Workshop: Running Linux Mail Server using Postfix & Dovecot

## Part1: Install and Configure Bind

Goal: Define a new domain with MX record.

### Step 1: Install required packages

```
# yum install bind bind-utils bind-chroot -y
```

### Step 2: Backup the bind config file

```
# cp /etc/named.conf ~
```

### Step 3: Configure the bind via the config file

```
# vim /etc/named.conf
```

Change the directive as below:

```
listen-on port 53 { any; };  
listen-on-v6 port 53 { none; };  
allow-query { any; };
```

### Step 4: Add the below at the end

```
zone "lpir.org" {  
    type master;  
    file "lpir.org.db";  
};
```

### Step 5: Create the zone file "/var/named/lpir.org.db" as below

```
$TTL 1D  
lpir.org. IN SOA ns1.lpir.org. admin.lpir.org. (  
    0 ; serial  
    1D ; refresh  
    1H ; retry  
    1W ; expire  
    3H ) ; minimum  
  
NS @  
mail IN A 127.0.0.1  
@ IN MX 10 mail.lpir.org.
```

### Step 6: Start the service

```
# systemctl restart named  
# systemctl enable named  
# systemctl status named
```

### Step 7: open the port 53 on the firewall

```
# firewall-cmd --add-port=53/udp
# firewall-cmd --add-port=53/udp --permanent
# firewall-cmd --add-port=53/tcp
# firewall-cmd --add-port=53/tcp --permanent
```

**Step 8:** Configure the dns client file

```
# echo "nameserver 127.0.0.1" > /etc/resolv.conf
# lsattr /etc/resolv.conf
# chattr +i /etc/resolv.conf
# lsattr /etc/resolv.conf
```

**Part 2: Configure postfix as default MTA.**

**Step 1:** Install the postfix package

```
# yum -y install postfix
```

**Step 2:** Modify the main config

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

```
# line 75: uncomment and specify hostname
myhostname = mail.lpir.org
# line 83: uncomment and specify domain name
mydomain = lpir.org
# line 99: uncomment
myorigin = $mydomain
# line 116: change
inet_interfaces = all
# line 164: add
mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain
# line 264: uncomment and specify your local network
mynetworks = 127.0.0.0/8, 10.0.0.0/24
# line 419: uncomment (use Maildir)
home_mailbox = Maildir/
# line 574: add
smtpd_banner = $myhostname ESMTP
# add follows to the end
# for SMTP-Auth
smtpd_sasl_type = dovecot
smtpd_sasl_path = private/auth
smtpd_sasl_auth_enable = yes
smtpd_sasl_security_options = noanonymous
smtpd_sasl_local_domain = $myhostname
smtpd_recipient_restrictions =
permit_mynetworks,permit_auth_destination,permit_sasl_authenticated,reject
```

**Step 3:** Enable the service

```
# systemctl restart postfix
# systemctl enable postfix
# systemctl status postfix
```

**Step 4:** Permit the firewall

```
# firewall-cmd --add-service=smtp --permanent
# firewall-cmd --reload
```

**Step 5:** Verify the server

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

**Part 3: Check local emails, users.**

**Step 1:** Create a local user

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

**Step 2:** 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/
```

## Part 4: Install & Configuring dovecot

Goal: Configure dovecot to serve POP3/IMAP

### Step 1: Install Dovecot.

```
# yum -y install dovecot
```

### Step 2: This example shows to configure to provide SASL function to Postfix.

```
# vim /etc/dovecot/dovecot.conf
# line 24: uncomment
protocols = imap pop3 lmtp
# line 30: uncomment and change ( if not use IPv6 )
listen = *

# vim /etc/dovecot/conf.d/10-auth.conf
# line 10: uncomment and change ( allow plain text auth )
disable_plaintext_auth = no
# line 100: add
auth_mechanisms = plain login

# vim /etc/dovecot/conf.d/10-mail.conf
# line 30: uncomment and add
mail_location = maildir:~/Maildir

# vim /etc/dovecot/conf.d/10-master.conf
# line 96-98: uncomment and add like follows
# Postfix smtp-auth
unix_listener /var/spool/postfix/private/auth {
    mode = 0666
    user = postfix
    group = postfix
}

# vim /etc/dovecot/conf.d/10-ssl.conf
# line 8: change (not require SSL)
ssl = no
```

### Step 3:

```
# systemctl start dovecot
# systemctl enable dovecot
```

### Step 4: If Firewalld is running, allow POP/IMAP services. POP uses 110/TCP, IMAP uses 143/TCP.

```
# firewall-cmd --add-service={pop3,imap} --permanent
# firewall-cmd --reload
```

**Good Luck**  
**Fanavaran Anisa - 2017**

Fanavaran Anisa