

Linux - Email Server

Tools	End result	Minimum System Configuration
Postfix	Webmail Access	2 Cores
Dovecot	Thunderbird Access	2 GB RAM
Squirrelmail		Cent OS 7
Https		40 GB HD

#####

BASIC LEVEL

Step 1 :-

Set the hostname – FQDN (server.paylin.com)

Set the IP address (192.168.1.30)

Step 2 :-

Adjust or Turn off your firewall settings

Step 3:-

Configure the DNS Server with MX record and Alias name (mail.paylin.com)

Step 4 :-

Download and run the below postfix installation script.

```
#!/bin/bash
yum install epel-release -y
yum install postfix dovecot telnet squirrelmail mod_ssl openssl -y
mkdir /etc/postfix/ssl
cd /etc/postfix/ssl
openssl req -x509 -nodes -newkey rsa:2048 -keyout server.key -out server.crt -nodes -days 365
cp server.key /etc/pki/tls/private/ca.key
cp server.crt /etc/pki/tls/certs/ca.crt
ls /etc/pki/tls/certs
```

#####

POSTFIX

Step 5:-

Now configure /etc/postfix/main.cf file with below inputs

```
myhostname = server.paylin.com
mydomain = paylin.com
myorigin = $mydomain
home_mailbox = mail/
mynetworks = 192.168.1.0/24
inet_interfaces = all
inet_protocols = all
mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain

smtpd_sasl_type = dovecot
smtpd_sasl_path = private/auth
smtpd_sasl_local_domain =
smtpd_sasl_security_options = noanonymous
broken_sasl_auth_clients = yes
smtpd_sasl_auth_enable = yes
smtpd_recipient_restrictions = permit_sasl_authenticated,permit_mynetworks,reject_unauth_destination
smtp_tls_security_level = may
smtpd_tls_security_level = may
smtp_tls_note_starttls_offer = yes
smtpd_tls_loglevel = 1
smtpd_tls_key_file = /etc/postfix/ssl/server.key
smtpd_tls_cert_file = /etc/postfix/ssl/server.crt
smtpd_tls_received_header = yes
smtpd_tls_session_cache_timeout = 3600s
tls_random_source = dev:/dev/urandom
```

Now configure /etc/postfix/master.cf file with below inputs

```
submission inet n - n - - smtpd
-o syslog_name=postfix/submission
-o smtpd_sasl_auth_enable=yes
-o smtpd_recipient_restrictions=permit_sasl_authenticated,reject
-o milter_macro_daemon_name=ORIGINATING
```

```
smtps inet n - n - - smtpd
-o syslog_name=postfix/smtps
-o smtpd_sasl_auth_enable=yes
-o smtpd_recipient_restrictions=permit_sasl_authenticated,reject
-o milter_macro_daemon_name=ORIGINATING
```

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DOVECOT

Step 6:-

Please configure dovecot configuration using below inputs

1. /etc/dovecot/conf.d/10-master.conf

Postfix smtp-auth

```
unix_listener /var/spool/postfix/private/auth {
mode = 0660
user = postfix
group = postfix
}
```

2. /etc/dovecot/conf.d/10-auth.conf

```
auth_mechanisms = plain login
```

3. /etc/dovecot/conf.d/10-mail.conf

```
mail_location = maildir:~/mail
```

4. /etc/dovecot/conf.d/20-pop3.conf

```
pop3_uidl_format = %08Xu%08Xv
```

#####

MAIL SERVICE VERIFICATION

Step 7:-

```
systemctl restart postfix
systemctl enable postfix
systemctl restart dovecot
systemctl enable dovecot
```

```
telnet localhost smtp
telnet localhost pop3
```

#####

HTTPD

Step 8:-

Now configure /etc/httpd/conf/httpd.conf file with below inputs.

```
<Directory /usr/share/squirrelmail>
Options Indexes FollowSymLinks
RewriteEngine On
AllowOverride All
Order allow,deny
Allow from all
</Directory>
```

Now configure /etc/httpd/conf.d/mail-linpay-com.conf file with below inputs.

<VirtualHost 192.168.1.30:443>

ServerName	server.linpay.com
ServerAlias	mail.linpay.com
DocumentRoot	/usr/share/squirrelmail
DirectoryIndex	index.php
SSLEngine	on
SSLCertificateFile	/etc/pki/tls/certs/ca.crt
SSLCertificatekeyFile	/etc/pki/tls/private/ca.key
ErrorLog	/var/www/html/mail-linpay-com/error.log
CustomLog	/var/www/html/mail-linpay-com/access.log combined

</VirtualHost>

#####

SQUIRRELMAIL CONFIGURATION

Step 9 :-

```
cd /usr/share/squirrelmail/config
./conf.pl
```

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ADDING USERACCOUNTS

Step 10:-

```
useradd -m user1 -s /sbin/nologin
passwd user1
```

#####

START ALL SERVICES

Step 11:-

```
systemctl start httpd ;  
systemctl enable httpd  
systemctl restart postfix  
systemctl restart dovecot
```

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WEBMAIL ACCESS

Step 12:-

<https://mail.paylin.com>

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THUNDERBIRD ACCESS

THANK YOU