

# 🌐 IT 네트워크 시스템 *IT Network Systems Administration*

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❖ - Worldskills Korea - Assessment Task (IT Network Systems) - ❁ [ Written by NullBins ]

- By default, the commands are executed as a root user.

[ Project-1 ] <🐧Linux Environments>

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## 11. MAIL 서버 구성 (Mail Service Configuration)

- 🔔 DONG-SRV2 에서 Mail 서비스 구성 시 패키지 도구는 POSTFIX 및 DOVECOT을 사용함.

< Configuration >

- [ DONG-SRV1 ]

```
openssl req -new -out mail.req -newkey rsa:2048 -keyout mail.key -nodes      #
CN=mail.donghyun.net
openssl ca -in mail.req -out mail.crt
```

- [ DONG-SRV2 ]

```
vim /root/mail-users.sql
```

```
INSERT INTO mail (userid, uid, homedir) VALUES
('user101','1001','/home/user101');
INSERT INTO mail (userid, uid, homedir) VALUES
('user201','2001','/home/user201');
```

```
mysql -h 192.168.1.2 -u root -pSkill39 MAIL < /root/mail-users.sql
scp DONG-SRV1:/etc/ssl/DONG-CA/certs/mail.* /etc/ssl/
```

```
apt install postfix dovecot-imapd dovecot-mysql dovecot-lmtpd -y
```

The only delivered mail is the mail for local users. There is no network.

General type of mail configuration:

No configuration  
Internet Site  
Internet with smarthost  
Satellite system  
Local only

<Ok>

<Cancel>

Thus, if a mail address on the local host is foo@example.org, the correct

System mail name:

donghyun.net

<Ok>

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

```
# TLS parameters
smtpd_tls_cert_file=/etc/ssl/mail.crt
smtpd_tls_key_file=/etc/ssl/mail.key
smtpd_use_tls=yes

myhostname = mail.donghyun.net
mydestination = localhost
mynetworks = 0.0.0.0/0

virtual_mailbox_domains = donghyun.net
virtual_transport = lmtp:mail.donghyun.net
virtual_mailbox_maps = texthash:/etc/postfix/vmailbox
```

```
vim /etc/postfix/master.cf
```

```
smtps      inet      n      -      y      -      -      smtpd
          -o syslog_name=postfix/smtps
          -o smtpd_tls_wrappermode=yes
```

```
vim /etc/postfix/vmailbox
```

```
user101@donghyun.net user101@donghyun.net  
user201@donghyun.net user201@donghyun.net
```

```
systemctl restart postfix
```

```
vim /etc/dovecot/conf.d/10-mail.conf
```

```
mail_location = maildir:/mail/%n/
```

```
vim /etc/dovecot/conf.d/10-ssl.conf
```

```
ssl = yes  
  
ssl_cert = </etc/ssl/mail.crt  
ssl_key = </etc/ssl/mail.key
```

```
vim /etc/dovecot/conf.d/10-master.conf
```

```
service lmtp {  
    unix_listener lmtp {  
    }  
    inet_listener lmtp {  
        address = 192.168.1.2  
        port = 24  
    }  
}
```

```
vim /etc/dovecot/conf.d/10-auth.conf
```

```
disable_plaintext_auth = no  
  
auth_username_format = %n  
  
#!include auth-system.conf.ext  
!include auth-sql.conf.ext
```

```
vim /etc/dovecot/dovecot-sql.conf.ext
```

```
driver = mysql  
  
connect = host=192.168.1.2 port=3306 dbname=MAIL user=root password=Skill39  
  
default_pass_scheme = PLAIN  
  
password_query = \  
    SELECT userid, domain, password \  
    FROM mail WHERE userid = '%n' AND domain = 'donghyun.net'  
  
user_query = \  
    SELECT homedir, uid, gid \  
    FROM mail WHERE userid = '%n' AND domain = 'donghyun.net'
```

```
mkdir -p /mail/user101  
mkdir -p /mail/user201  
chmod 777 -R /mail/  
systemctl restart dovecot
```