

NSS-6 課題レポート

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1. はじめに

本レポートでは、メールサーバーを構築し、メールの送受信を行うための設定に関するレポートを記述する。

2. 問題の解答

問1. 指定された仕様のとおりに、テキストに従ってメールサーバーを構築しなさい。

1. /var/named/nss20T128.teikyo.zone ファイルの設定

➤ \$ vim /var/named/nss20T128.teikyo.zone

```
svr01.nss20t128.teikyo. IN      A      10.0.2.154
nss20t128.teikyo.      IN      MX     10 svr01.nss20t128.teikyo.
```

2. /etc/postfix/main.cf ファイルの設定

➤ \$ vim /etc/postfix/main.cf

```
#
inet_interfaces = all
#inet_interfaces = $myhostname
#inet_interfaces = $myhostname, localhost
```

- inet_interfaces = all
 - メールサーバーが受け付けるネットワークインターフェースを指定

```
#  
mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain  
#mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain
```

- mydestination = *myhostname*, *localhost*.mydomain, localhost, \$mydomain
 - メールの宛先を指定

```
#  
smtp_tls_security_level = may  
meta_directory = /etc/postfix  
shlib_directory = /usr/lib64/postfix  
mynetworks_style = subnet  
mydomain = nss20T128.teikyo  
myorigin = $mydomain  
myhostname = svr01.nss20T128.teikyo  
home_mailbox = Maildir/
```

- mydomain = nss20T128.teikyo
 - メールのドメインを指定
- myhostname = mail.nss20T128.teikyo
 - メールサーバーのホスト名を指定
- home_mailbox = Maildir/
 - メールボックスの保存先を指定

3. /etc/dovecot/dovecot.conf ファイルの設定

▶ \$ vim /etc/dovecot/dovecot.conf

```
#protocols = imap pop3 smtp sub  
protocols = imap pop3  
  
# A comma separated list of IPs  
# "*" listens in all IPv4 interf  
# If you want to specify non-def  
# edit conf.d/master.conf.  
#listen = *, ::  
listen = *  
# Base directory where to store
```

問2. 問1で構築したメールサーバーが正しく動作しているか検証しなさい。

- 送信

```
[root@svr01 ~]# telnet svr01.nss20T128.teikyo smtp
Trying 10.0.2.194...
Connected to svr01.nss20T128.teikyo.
Escape character is '^]'.
220 svr01.nss20T128.teikyo ESMTP Postfix
helo svr01.nss20T128.teikyo
250 svr01.nss20T128.teikyo
mail from:kato@nss20T128.teikyo
250 2.1.0 Ok
rcpt to:abe@nss20T128.teikyo
550 5.1.1 <abe@nss20T128.teikyo>: Recipient address rejected: User unknown in local recipient table
rcpt to:abe@nss00t000.teikyo
250 2.1.5 Ok
data
354 End data with <CR><LF>.<CR><LF>
hello postfix!
.
250 2.0.0 Ok: queued as 1093719317DB
quit
221 2.0.0 Bye
Connection closed by foreign host.
[root@svr01 ~]#
```

- ログの確認

```
Oct 31 14:29:35 svr01 postfix/smtpd[3639]: connect from svr01.nss20T128.teikyo[10.0.2.194]
Oct 31 14:30:40 svr01 postfix/smtpd[3639]: NOQUEUE: reject: RCPT from svr01.nss20T128.teikyo[10.0.2.194]: 550 5.1.1 <abe@nss20T128.teikyo>: Recipient address rejected: User unknown in local recipient table; from=<kato@nss20T128.teikyo> to=<abe@nss20T128.teikyo> proto=SMTP helo=<svr01.nss20T128.teikyo>
Oct 31 14:31:52 svr01 postfix/smtpd[3639]: CF1BD19317DC: client=svr01.nss20T128.teikyo[10.0.2.194]
Oct 31 14:32:08 svr01 postfix/cleanup[3667]: CF1BD19317DC: message-id=<20241031053152.CF1BD19317DC@svr01.nss20T128.teikyo>
Oct 31 14:32:08 svr01 postfix/qmgr[3544]: CF1BD19317DC: from=<kato@nss20T128.teikyo>, size=369, nrcpt=1 (queue active)
Oct 31 14:32:08 svr01 postfix/local[3669]: CF1BD19317DC: to=<user1@nss20T128.teikyo>, relay=local, delay=111, delays=111/0.01/0/0.01, dsn=2.0.0, status=sent (delivered to maildir)
Oct 31 14:32:08 svr01 postfix/qmgr[3544]: CF1BD19317DC: removed
Oct 31 14:32:13 svr01 postfix/smtpd[3639]: disconnect from svr01.nss20T128.teikyo[10.0.2.194] helo=1 mail=1 rcpt=1/2 data=1 quit=1 commands=5/6
(END)
```

- 受信

```
Return-Path: <kato@nss20T128.teikyo>
X-Original-To: user1@nss20T128.teikyo
Delivered-To: user1@nss20T128.teikyo
Received: from svr01.nss20T128.teikyo (svr01.nss20T128.teikyo [10.0.2.194])
        by svr01.nss20T128.teikyo (Postfix) with SMTP id CF1BD19317DC
        for <user1@nss20T128.teikyo>; Thu, 31 Oct 2024 14:30:17 +0900 (JST)
Message-Id: <20241031053152.CF1BD19317DC@svr01.nss20T128.teikyo>
Date: Thu, 31 Oct 2024 14:30:17 +0900 (JST)
From: kato@nss20T128.teikyo

hello postfix!
```


- pop3での受信

```
[root@svr01 dovecot]#  
[root@svr01 dovecot]# telnet svr01.nss20T128.teikyo pop3  
Trying 10.0.2.194...  
Connected to svr01.nss20T128.teikyo.  
Escape character is '^'.  
+OK Dovecot ready.  
user user1  
+OK  
pass user1  
+OK Logged in.  
list  
+OK 1 messages:  
1 484  
.  
retr 1  
+OK 484 octets  
Return-Path: <kato@nss20T128.teikyo>  
X-Original-To: user1@nss20T128.teikyo  
Delivered-To: user1@nss20T128.teikyo  
Received: from svr01.nss20T128.teikyo (svr01.nss20T128.teikyo [10.0.2.194])  
    by svr01.nss20T128.teikyo (Postfix) with SMTP id CF1BD19317DC  
    for <user1@nss20T128.teikyo>; Thu, 31 Oct 2024 14:30:17 +0900 (JST)  
Message-Id: <20241031053152.CF1BD19317DC@svr01.nss20T128.teikyo>  
Date: Thu, 31 Oct 2024 14:30:17 +0900 (JST)  
From: kato@nss20T128.teikyo  
  
hello postfix!
```

- imapでの受信

```
[root@svr01 dovecot]# telnet svr01.nss20T128.teikyo imap  
Trying 10.0.2.194...  
Connected to svr01.nss20T128.teikyo.  
Escape character is '^'.  
* OK [CAPABILITY IMAP4rev1 SASL-IR LOGIN-REFERRALS ID ENABLE IDLE LITERAL+ STARTTLS AUTH=PLAIN] Dovecot ready.  
A01 login user1 user1  
A01 OK [CAPABILITY IMAP4rev1 SASL-IR LOGIN-REFERRALS ID ENABLE IDLE SORT SORT=DISPLAY THREAD=REFERENCES THREAD=REFS THREAD=ORDEREDSUBJECT MULTIAPPEND URL-PARTIAL CATENATE UNSELECT CHILDREN NAMESPACE UIDPLUS LIST-EXTENDED I18NLEVEL=1 CONDSTORE QRESYNC ESEARCH ESORT SEARCHRES WITHIN CONTEXT=SEARCH LIST-STATUS BINARY MOVE SNIPPET=FUZZY PREVIEW=FUZZY LITERAL+ NOTIFY SPECIAL-USE] Logged in  
A02 list "" *  
* LIST (\HasNoChildren) "." INBOX  
A02 OK List completed (0.001 + 0.000 secs).  
A03 select INBOX  
* FLAGS (\Answered \Flagged \Deleted \Seen \Draft)  
* OK [PERMANENTFLAGS (\Answered \Flagged \Deleted \Seen \Draft *)] Flags permitted.  
* 2 EXISTS  
* 1 RECENT  
* OK [UNSEEN 2] First unseen.  
* OK [UIDVALIDITY 1730353352] UIDs valid  
* OK [UIDNEXT 3] Predicted next UID  
A03 OK [READ-WRITE] Select completed (0.002 + 0.000 + 0.001 secs).
```

3. 考察

4. 感想