

# Лаборатория работа 10

Расширенные настройки SMTP-сервера

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ГРУППА: НПИБД-02-20

# Цель работы:

Приобретение практических навыков по конфигурированию SMTP-сервера в части настройки аутентификации.

# Задание:

- Настройка LMTP в Dovecote
- Настройка SMTP-аутентификации
- Настройка SMTP over TLS
- Внесение изменений в настройки внутреннего окружения виртуальной машины

# Настройка LMTP в Dovecot

```
10-master.conf [----] 0 L:[ 49+12 61/126] *(1494/3459b) 0010 0x00A
  inet_listener submission {
    #port = 587
  }
}

service lmtp {
  unix_listener /var/spool/postfix/private/dovecot-lmtp {
    group = postfix
    user = postfix
    mode = 0600
  }
}
```

```
Dec 10 12:34:44 server postfix/smtpd[7010]: connect from client.kreachna.net[192.168.1.30]
Dec 10 12:34:44 server postfix/smtpd[7010]: 3C027870157: client=client.kreachna.net[192.168.1.30]
Dec 10 12:34:44 server postfix/cleanup[7014]: 3C027870157: message-id=<20221210123443.D6F1084DD47@client.kreachna.net>
Dec 10 12:34:44 server postfix/qmgr[6975]: 3C027870157: from=<kreachna@client.kreachna.net>, size=540, nrcpt=1 (queue active)
Dec 10 12:34:44 server postfix/smtpd[7010]: disconnect from client.kreachna.net[192.168.1.30] ehlo=2 starttls=1 mail=1 rcpt=1 data=1 quit=1 commands=7
Dec 10 12:34:44 server dovecot[6991]: lmtp(7017): Connect from local
Dec 10 12:34:44 server dovecot[6991]: lmtp(kreachna)<7017><5rF+EeR8lGNpGwAATqlfyQ>: msgid=<20221210123443.D6F1084DD47@client.kreachna.net>: saved mail to INBOX
Dec 10 12:34:44 server postfix/lmtp[7016]: 3C027870157: to=<kreachna@kreachna.net>, relay=server.kreachna.net[private/dovecot-lmtp], delay=0.11, delays=0.02/0.01/0.04/0.05, dsn=2.0.0, status=sent (250 2.0.0 <kreachna@kreachna.net> 5rF+EeR8lGNpGwAATqlfyQ Saved)
Dec 10 12:34:44 server postfix/qmgr[6975]: 3C027870157: removed
Dec 10 12:34:44 server dovecot[6991]: lmtp(7017): Disconnect from local: Logged out (state=READY)
```

# Настройка SMTP-аутентификации

```
# =====  
# service type  private unpriv  chroot  wakeup  maxproc command + args  
#               (yes)    (yes)    (no)    (never) (100)  
# =====  
smtp          inet  n        -        n        -        -        smtpd  
-o smtpd_sasl_auth_enable=yes  
-o smtpd_recipient_restrictions=reject_non_fqdn_recipient,reject_unknown_recipient_domain,permit_sasl_authenticated,  
reject  
#smtp         inet  n        -        n        -        -  
#smtpd        pass  -        -        n        -        -  
#dnsblog      unix  -        -        n        -        -  
[kreachna@client.kreachna.net ~]$ printf 'kreachna\x00kreachna\x00123456' | base64  
a3JlYWNoYmEAA3JlYWNoYmEAMTIzNDU2  
[kreachna@client.kreachna.net ~]$ telnet server.kreachna.net 25  
Trying 192.168.1.1...  
Connected to server.kreachna.net.  
Escape character is '^]'.  
220 server.kreachna.net ESMTPE postfix  
EHLO test  
250-server.kreachna.net  
250-PIPELINING  
250-SIZE 10240000  
250-VERFY  
250-ETRN  
250-STARTTLS  
250-AUTH PLAIN  
250-ENHANCEDSTATUSCODES  
250-8BITMIME  
250-DSN  
250-SMTPUTF8  
250 CHUNKING  
AUTH PLAIN a3JlYWNoYmEAA3JlYWNoYmEAMTIzNDU2  
235 2.7.0 Authentication successful
```

# Настройка SMTP over TLS

Identity

Receiving Email

Receiving Options

**Sending Email**

Defaults

Composing Messages

Security

Server Type: **SMTP**

Description: For delivering mail by connecting to a remote mailhub using SMTP.

**Configuration**

Server:  Port:

☒ Server requires authentication

**Security**

Encryption method:

**Authentication**

Type:

Username:

```
1883/6829 27%
roc command + args
0)
=====
smtpd
smtpd

recipient,reject_unknown_recipient_domain,permit_sasl_auth

postscreen
smtpd
dnsblog
tlsproxy
smtpd

-o smtpd_sasl_auth_enable=yes
-o smtpd_recipient_restrictions=reject_non_fqdn_recipient,reject_unknown_recipient_domain,permit_sasl_auth
enticated,reject
#submission inet n - n - - smtpd
# -o syslog_name=postfix/submission
# -o smtpd_tls_security_level=encrypt
```



# Внесение изменений в настройки внутреннего окружения виртуальной машины

```
#!/bin/bash

echo "Provisioning script $0"

echo "Install needed packages"
dnf -y install postfix
dnf -y install dovecot
dnf -y install telnet

echo "Copy configuration files"
cp -R /vagrant/provision/server/mail/etc/* /etc

chown -R root:root /etc/postfix
restorecon -vR /etc

echo "Configure firewall"
firewall-cmd --add-service smtp --permanent

firewall-cmd --add-service pop3 --permanent
firewall-cmd --add-service pop3s --permanent
firewall-cmd --add-service imap --permanent
firewall-cmd --add-service imaps --permanent
firewall-cmd --add-service smtp-submission --permanent

firewall-cmd --reload

echo "Start postfix service"
systemctl enable postfix
systemctl start postfix
```

```
#!/bin/bash

echo "Provisioning script $0"

echo "Install needed packages"
dnf -y install postfix
dnf -y install s-nail
dnf -y install evolution
dnf -y install telnet

echo "Configure postfix"
postconf -e 'inet_protocols = ipv4'

echo "Start postfix service"
systemctl enable postfix
systemctl start postfix
```

# Вывод

Приобрела практические навыки по конфигурированию SMTP-сервера в части настройки аутентификации.

**Спасибо за внимание!**