

ОТЧЕТ ЛАБОРАТОРНОЙ РАБОТЫ 9

ДИСЦИПЛИНА

АДМИНИСТРИРОВАНИЕ СЕТЕВЫХ ПОДСИСТЕМ

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ТЕМА НАСТРОЙКА POP3/IMAP СЕРВЕРА

Цель работы

*Приобретение практических навыков по установке
и
простейшему конфигурированию POP3/IMAP-сервера.*

УСТАНОВКА DOVECOT

```
File Edit View Search Terminal Tabs Help
root@localhost:~ x astakhovamd@localhost:/vagrant/provision/server/... x
astakhovamd@localhost.astakhovamd.net named]$ sudo -i
[sudo] password for astakhovamd:
root@localhost.astakhovamd.net ~]# dnf -y install dovecot telnet
Last metadata expiration check: 1:35:16 ago on Wed 26 Nov 2025 09:26:57 AM UTC.
Dependencies resolved.
=====
Package                Architecture Version                                Repository    Size
=====
Installing:
dovecot                x86_64    1:2.3.16-15.el9                        appstream     4.7 M
telnet                 x86_64    1:0.17-85.el9                          appstream     63 k
Installing dependencies:
clucene-core           x86_64    2.3.3.4-42.20130812.e8e3d20git.el9     appstream     585 k
libexttextcat           x86_64    3.4.5-11.el9                           appstream     209 k
Transaction Summary
=====
Install 4 Packages

Total download size: 5.6 M
Installed size: 20 M
Downloading Packages:
[ === ] --- B/s | 0 B --:-- ETA
The downloaded packages were saved in cache until the next successful transaction.
You can remove cached packages by executing 'dnf clean packages'.
Error: Error downloading packages:
  Curl error (6): Couldn't resolve host name for https://mirrors.rockylinux.org/mirrorlist?arch=x86_64&repo
AppStream-9 [Could not resolve host: mirrors.rockylinux.org]
root@localhost.astakhovamd.net ~]#
```

НАСТРОЙКА DOVECOT

```
# content-type=type or !type - Include/exclude
#   never consider the matched MIME part
#   negate an exclusion (e.g. content-type=type !type)
# exclude-inlined - Exclude any Content-Disposition
#mail_attachment_detection_options =
mail_location = maildir:~/Maildir
```

```
^G Help      ^O Write Out  ^W Where Is
^X Exit      ^R Read File  ^\ Replace
```

```
# REMEMBER: You'll need /etc/passwd for
# authentication to actual

passdb {
  driver = pam
}

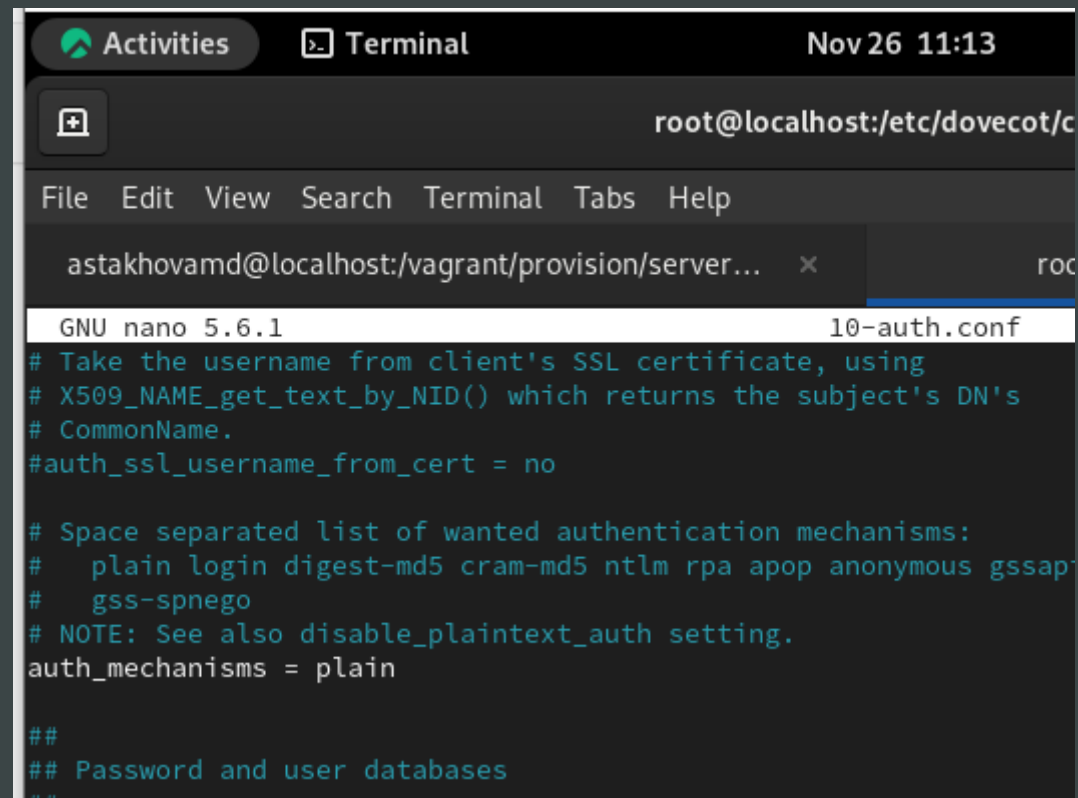
userdb {
  driver = passwd
}

# System users (NSS, /etc/passwd)
# In many systems nowadays
# configured in /etc/nsswitch.conf
```

```
# Most of the actual configuration gets included below. The filenames are
# first sorted by their ASCII value and parsed in that order. The 00-prefixes
# in filenames are intended to make it easier to understand the ordering.
!include conf.d/*.conf

# A config file can also be tried to be included without giving an error if
# it's not found:
!include_try local.conf

protocols = imap pop3
```



```
Activities Terminal Nov 26 11:13
root@localhost:/etc/dovecot/
File Edit View Search Terminal Tabs Help
astakhovamd@localhost:/vagrant/provision/server... x roc
GNU nano 5.6.1 10-auth.conf
# Take the username from client's SSL certificate, using
# X509_NAME_get_text_by_NID() which returns the subject's DN's
# CommonName.
#auth_ssl_username_from_cert = no

# Space separated list of wanted authentication mechanisms:
#   plain login digest-md5 cram-md5 ntlm rpa apop anonymous gssapi
#   gss-spnego
# NOTE: See also disable_plaintext_auth setting.
auth_mechanisms = plain

##
## Password and user databases
##
```

ПРОВЕРКА РАБОТЫ DOVECOT

```
[astakhovamd@localhost.astakhovamd.net named]$ sudo -i
[sudo] password for astakhovamd:
[root@localhost.astakhovamd.net ~]# cd /etc/dovecot/
[root@localhost.astakhovamd.net dovecot]# sudo nano dovecot.conf
[root@localhost.astakhovamd.net dovecot]# cd /etc/dovecot/conf.d/
[root@localhost.astakhovamd.net conf.d]# sudo nano 10-auth.conf
[root@localhost.astakhovamd.net conf.d]# sudo nano auth-system.conf.ext
[root@localhost.astakhovamd.net conf.d]# sudo nano 10-mail.conf
[root@localhost.astakhovamd.net conf.d]# postconf -e 'home_mailbox = Maildir/'
[root@localhost.astakhovamd.net conf.d]#
```

```
success
```

```
[root@localhost.astakhovamd.net conf.d]# firewall-cmd --reload
```

```
success
```

```
[root@localhost.astakhovamd.net conf.d]# firewall-cmd --list-services
```

```
cockpit dhcp dhcpv6-client dns http https imap imaps pop3 pop3s smtp ssh ssh-custom
astakhovamd.net conf.d]#
```

```
[root@localhost.astakhovamd.net conf.d]# firewall-cmd --get-services
```

```
RH-Satellite-6 RH-Satellite-6-capsule afp amanda-client amanda-k5-client amqp amqp
```

```
p2 bacula bacula-client bareos-director bareos-filedaemon bareos-storage bb bgp b
```

ПРОВЕРКА РАБОТЫ DOVECOT

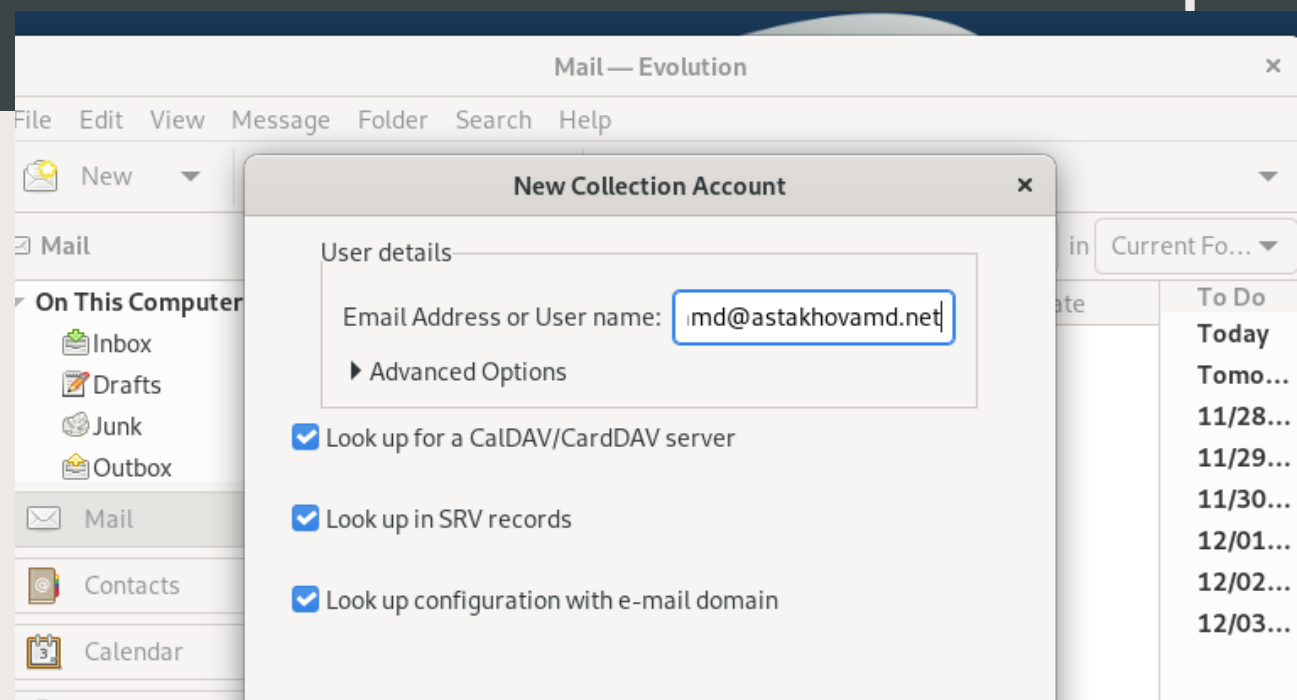
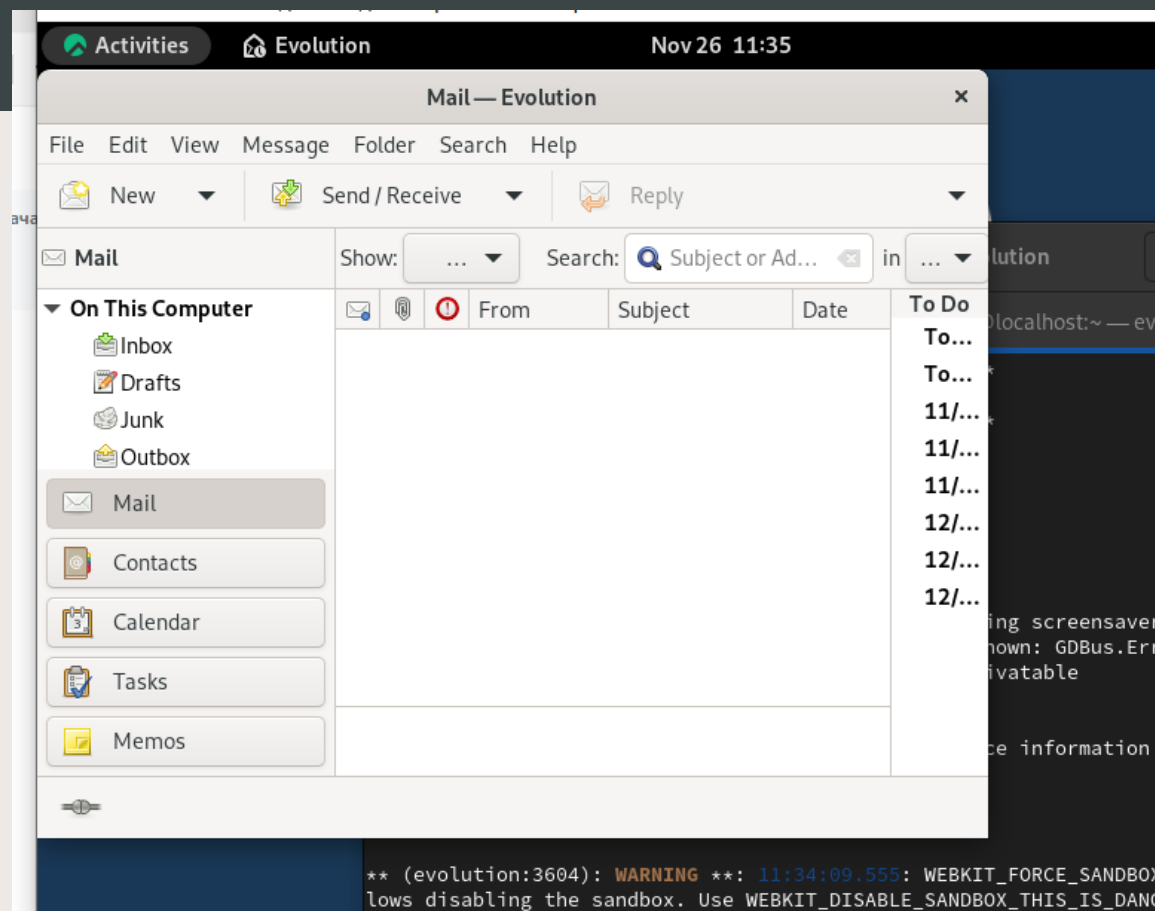
```
[root@localhost.astakhovamd.net ~]# getent passwd | grep astakhovamd
astakhovamd:x:1001:1001::/home/astakhovamd:/bin/bash
[root@localhost.astakhovamd.net ~]# ls -la /home/astakhovamd/Maildir/
total 4
drwx-----. 5 astakhovamd astakhovamd 39 Nov 26 11:20 .
drwx-----. 15 astakhovamd astakhovamd 4096 Nov 26 11:20 ..
drwx-----. 2 astakhovamd astakhovamd 6 Nov 26 11:20 cur
drwx-----. 2 astakhovamd astakhovamd 134 Nov 26 11:25 new
drwx-----. 2 astakhovamd astakhovamd 6 Nov 26 11:25 tmp
[root@localhost.astakhovamd.net ~]# ls -la /var/spool/mail/astakhovamd
-rw-rw----. 1 astakhovamd mail 1112 Nov 26 10:03 /var/spool/mail/astakhovamd
[root@localhost.astakhovamd.net ~]# doveadm mailbox list -u astakhovamd
INBOX
[root@localhost.astakhovamd.net ~]#
```

```
root@localhost:~
(3/3): evolution-3.40.4-11.el9_6.1.x86_64.rpm 1.3 MB/s | 3.7 MB
-----
Total 3.1 MB/s | 10 MB
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      : 
  Installing     : highlight-3.60-5.el9.x86_64
  Installing     : evolution-langpacks-3.40.4-11.el9_6.1.noarch
  Installing     : evolution-3.40.4-11.el9_6.1.x86_64
  Running scriptlet: evolution-3.40.4-11.el9_6.1.x86_64
  Verifying      : evolution-3.40.4-11.el9_6.1.x86_64
  Verifying      : highlight-3.60-5.el9.x86_64
  Verifying      : evolution-langpacks-3.40.4-11.el9_6.1.noarch

Installed:
  evolution-3.40.4-11.el9_6.1.x86_64
  evolution-langpacks-3.40.4-11.el9_6.1.noarch
  highlight-3.60-5.el9.x86_64

Complete!
[root@localhost.astakhovamd.net ~]#
```

ПРОВЕРКА РАБОТЫ DOVECOT



ПРОВЕРКА РАБОТЫ DOVECOT

Receiving Email

Welcome
Restore from Backup
Identity
Receiving Email
Receiving Options
Sending Email
Account Summary
Done

Server Type: IMAP

Description: For reading and storing mail on IMAP servers.

Configuration

Server: astakhovamd@astakhovamd.net

Username: astakhovamd

Security

Encryption method: STARTTLS after connecting ▼

Authentication

Check for Supported Types Password ▼

vagrant_client_1762975671245_40337 [Работает] - Oracle VirtualBox

Файл Машина Вид Ввод Устройства Справка

Activities Evolution Nov 26 11:43 en

Sending Email

Welcome
Restore from Backup
Identity
Receiving Email
Receiving Options
Sending Email
Account Summary
Done

Server Type: SMTP ▼

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

Configuration

Server: mail.astakhovamd.net Port: 25 ▼

☐ Server requires authentication

Security

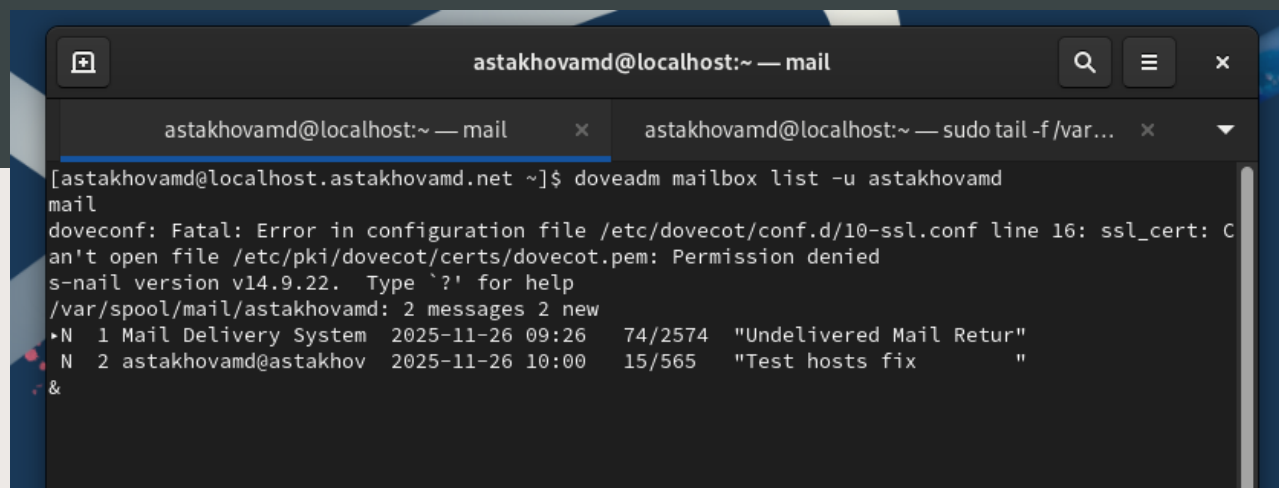
Encryption method: No encryption ▼

Authentication

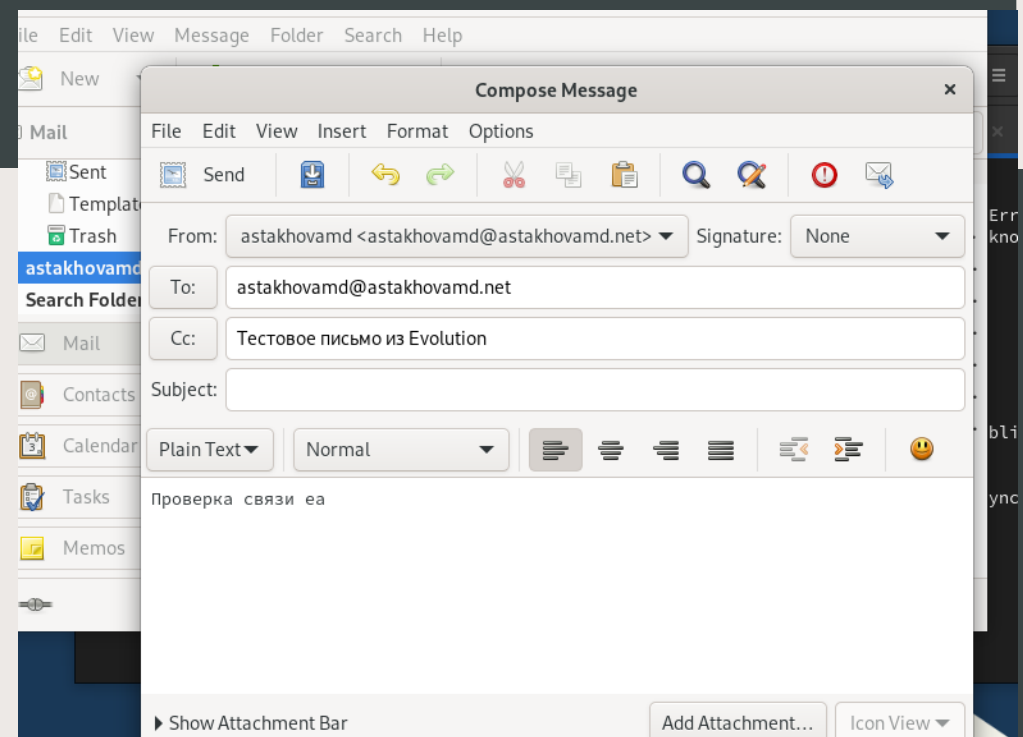
Type: Check for Supported Types PLAIN ▼

Username: astakhovamd

ПРОВЕРКА РАБОТЫ DOVECOT



```
astakhovamd@localhost:~ — mail
astakhovamd@localhost:~ — sudo tail -f /var...
[astakhovamd@localhost.astakhovamd.net ~]$ doveadm mailbox list -u astakhovamd
mail
doveconf: Fatal: Error in configuration file /etc/dovecot/conf.d/10-ssl.conf line 16: ssl_cert: C
an't open file /etc/pki/dovecot/certs/dovecot.pem: Permission denied
s-nail version v14.9.22. Type '?' for help
/var/spool/mail/astakhovamd: 2 messages 2 new
•N 1 Mail Delivery System 2025-11-26 09:26 74/2574 "Undelivered Mail Retur"
N 2 astakhovamd@astakhov 2025-11-26 10:00 15/565 "Test hosts fix"
```



ПРОВЕРКА РАБОТЫ DOVECOT

```
mail.astakhovamd.net: Unknown host
```

```
[root@localhost.astakhovamd.net ~]# sudo nano /etc/hosts
[root@localhost.astakhovamd.net ~]# telnet mail.astakhovamd.net 110
Trying ::1...
Connected to mail.astakhovamd.net.
Escape character is '^]'.
+OK Dovecot ready.
USER astakhovamd
+OK
PASS 12345
+OK Logged in.
-ERR [SYS/PERM] Permission denied
Connection closed by foreign host.
[root@localhost.astakhovamd.net ~]#
```

```
ecot/'
```

```
try 'cp --help' for more information.
```

```
root@localhost.astakhovamd.net server]#
```

```
cp -R /etc/dovecot/dovecot.conf /vagrant/provision/server/mail/etc/dovecot/
```

```
root@localhost.astakhovamd.net server]# cp -R /etc/dovecot/conf.d/10-auth.conf
il/etc/dovecot/conf.d/
```

```
root@localhost.astakhovamd.net server]# cp -R /etc/dovecot/conf.d/auth-system.conf.ext /vagrant/provision/
server/mail/etc/dovecot/conf.d/
```

```
root@localhost.astakhovamd.net server]# cp -R /etc/dovecot/conf.d/10-mail.conf /vagrant/provision/server/m
il/etc/dovecot/conf.d/
```

```
root@localhost.astakhovamd.net server]#
```

```
[root@localhost.astakhovamd.net ~]# sudo nano /etc/dovecot/conf.d/10-mail.conf
[root@localhost.astakhovamd.net ~]# sudo usermod -a -G mail astakhovamd
[root@localhost.astakhovamd.net ~]# sudo systemctl restart dovecot
[root@localhost.astakhovamd.net ~]# doveadm auth test astakhovamd
```

```
Password:
passdb: astakhovamd auth succeeded
extra fields:
user=astakhovamd
```

```
[root@localhost.astakhovamd.net ~]# telnet mail.astakhovamd.net 110
```

```
Trying ::1...
Connected to mail.astakhovamd.net.
Escape character is '^]'.
+OK Dovecot ready.
USER astakhovamd
+OK
PASS 12345
+OK Logged in.
LIST
+OK 2 messages:
1 2600
2 518
.
```

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 s-nail

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

systemctl enable postfix
systemctl start postfix

dnf -y install evolution
```

```
echo "Start postfix service"

systemctl enable postfix
systemctl start postfix

#!/bin/bash

# Установка Dovecot и Telnet
dnf install -y dovecot telnet

# Настройка межсетевого экрана
firewall-cmd --permanent --add-service=pop3
firewall-cmd --permanent --add-service=imap
firewall-cmd --permanent --add-service=smtp
firewall-cmd --reload

# Настройка Postfix - месторасположение почтового ящика
postconf -e "home_mailbox = Maildir/"
postconf -e "myhostname = localhost.astakhovamd.net"
postconf -e "mydomain = astakhovamd.net"
postconf -e "mydestination = \${myhostname}, localhost.\
\${mydomain}, localhost, \${mydomain}"

# Перезапуск Postfix и запуск Dovecot
systemctl restart postfix
systemctl enable dovecot
systemctl start dovecot

# Настройка Dovecot
echo "mail_location = maildir:~/Maildir" >>
/etc/dovecot/conf.d/10-mail.conf
echo "ssl = no" >> /etc/dovecot/conf.d/10-ssl.conf
echo "disable_plaintext_auth = no" >> /etc/dovecot/conf.d/10-
auth.conf

# Перезапуск Dovecot для применения настроек
systemctl restart dovecot

echo "Почтовый сервер настроен!"
```

СПАСИБО
ЗА ВНИМАНИЕ!

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НПИБД02-23