

Администрирование системных подсистем

Настройка POP3/IMAP сервера Dovecot + Postfix

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Цель работы

Настроить и проверить работу почтовых сервисов POP3 и IMAP.

Установка компонентов

Были установлены пакеты Dovecot и Telnet.

```
Transaction test succeeded.  
Running transaction  
  Preparing      : 1/1  
  Installing     : telnet-1:0.17-94.el10.x86_64 1/2  
  Running scriptlet: dovecot-1:2.3.21-16.el10.x86_64 2/2  
  Installing     : dovecot-1:2.3.21-16.el10.x86_64 2/2  
  Running scriptlet: dovecot-1:2.3.21-16.el10.x86_64 2/2  
  
Installed:  
  dovecot-1:2.3.21-16.el10.x86_64 telnet-1:0.17-94.el10.x86_64  
  
Complete!  
[root@server.trseidaliev.net server]#
```

Рис. 1: Установка пакетов

Настройка Dovecot

Активированы протоколы IMAP и POP3.

```
1 ## Dovecot configuration file
2
3 # If you're in a hurry, see http://wiki2.dovecot.org/QuickConfiguration
4
5 # "doveconf -n" command gives a clean output of the changed settings. Use it
6 # instead of copy&pasting files when posting to the Dovecot mailing list.
7
8 # '#' character and everything after it is treated as comments. Extra spaces
9 # and tabs are ignored. If you want to use either of these explicitly, put the
10 # value inside quotes, eg.: key = "# char and trailing whitespace "
11
12 # Most (but not all) settings can be overridden by different protocols and/or
13 # source/destination IPs by placing the settings inside sections, for example:
14 # protocol imap { }, local 127.0.0.1 { }, remote 10.0.0.0/8 { }
15
16 # Default values are shown for each setting, it's not required to uncomment
17 # those. These are exceptions to this though: No sections (e.g. namespace {})
18 # or plugin settings are added by default, they're listed only as examples.
19 # Paths are also just examples with the real defaults being based on configure
20 # options. The paths listed here are for configure --prefix=/usr
21 # --sysconfdir=/etc --localstatedir=/var
22
23 # Protocols we want to be serving.
```

Выбран метод аутентификации plain.

```
95
96 # Space separated list of wanted authentication mechanisms:
97 #   plain login digest-md5 cram-md5 ntlm rpa apop anonymous gssapi otp
98 #   gss-spnego
99 # NOTE: See also disable_plaintext_auth setting.
100
101 auth_mechanisms = plain
102
```

Рис. 3: auth_mechanisms

Использованы PAM и passwd как источники данных о пользователях.

```
6 # PAM authentication. Preferred nowadays by most systems.
7 # PAM is typically used with either userdb passwd or userdb static.
8 # REMEMBER: You'll need /etc/pam.d/dovecot file created for PAM
9 # authentication to actually work. <doc/wiki/PasswordDatabase.PAM.txt>
10
11 passdb {
12     driver = pam
13 }
14
15 userdb {
16     driver = passwd
17 }
18 |
```

Рис. 4: auth-system.conf.ext

Почтовые данные хранятся в формате Maildir.

```
1 ##
2 ## Mailbox locations and namespaces
3 ##
4
5 # Location for users' mailboxes. The default is empty, which means that Dovecot
6 # tries to find the mailboxes automatically. This won't work if the user
7 # doesn't yet have any mail, so you should explicitly tell Dovecot the full
8 # location.
9 #
10 # If you're using mbox, giving a path to the INBOX file (eg. /var/mail/%u)
11 # isn't enough. You'll also need to tell Dovecot where the other mailboxes are
12 # kept. This is called the "root mail directory", and it must be the first
13 # path given in the mail_location setting.
14 #
15 # There are a few special variables you can use, eg.:
16 #
17 # %u - username
18 # %n - user part in user@domain, same as %u if there's no domain
19 # %d - domain part in user@domain, empty if there's no domain
20 # %h - home directory
21 #
22 # See doc/wiki/Variables.txt for full list. Some examples:
23 #
24 # mail_location = maildir:~/Maildir
25 # mail_location = mbox:~/mail:INBOX=/var/mail/%u
26 # mail_location = mbox:/var/mail/%d/%1n/%n:INDEX=/var/indexes/%d/%1n/%n
27 #
```

Настройка Postfix и firewall

Postfix отправляет почту в каталог Maildir.

```
[root@server.trseidaliev.net server]# firewall-cmd --add-service=pop3 --permanent
success
[root@server.trseidaliev.net server]# firewall-cmd --add-service=pop3s --permanent
success
[root@server.trseidaliev.net server]# firewall-cmd --add-service=imap --permanent
success
[root@server.trseidaliev.net server]# firewall-cmd --add-service=imaps --permanent
success
[root@server.trseidaliev.net server]# firewall-cmd --reload
success
[root@server.trseidaliev.net server]# firewall-cmd --list-services
cockpit dhcp dhcpv6-client dns http https imap imaps pop3 pop3s smtp ssh ssh-custom
[root@server.trseidaliev.net server]# restorecon -vR /etc
[root@server.trseidaliev.net server]# systemctl restart postfix
[root@server.trseidaliev.net server]# systemctl enable dovecot
Created symlink '/etc/systemd/system/multi-user.target.wants/dovecot.service' → '/usr/lib/systemd/system/dovecot.service'.
[root@server.trseidaliev.net server]# systemctl start dovecot
[root@server.trseidaliev.net server]# █
```

Рис. 6: firewalld

Проверка работы системы

Почтовый клиент настроен на работу с сервером.

The screenshot shows the 'Identity' configuration window in the Evolution email client. The window has a title bar with 'Cancel', 'Back', 'Identity', and 'Next' buttons. On the left is a sidebar with a list of options: 'Welcome', 'Restore from Backup', 'Identity' (which is selected and highlighted), 'Receiving Email', 'Sending Email', 'Account Summary', and 'Done'. The main area of the window contains instructions: 'Please enter your name and email address below. The "optional" fields below do not need to be filled in, unless you wish to include this information in email you send.' Below the instructions are two sections: 'Required Information' and 'Optional Information'. In the 'Required Information' section, there are two text input fields: 'Full Name' with the value 'trseidaliev' and 'Email Address' with the value 'trseidaliev@trseidaliev.net'. The 'Email Address' field is currently selected with a blue border. In the 'Optional Information' section, there are three input fields: 'Reply-To', 'Organization', and 'Signature'. The 'Signature' field is a dropdown menu currently set to 'None'. To the right of the 'Signature' dropdown is a button labeled 'Add New Signature...'. Below these fields is an 'Aliases' section with a large text area and three buttons: 'Add', 'Edit', and 'Remove'.

Cancel Back Identity Next

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

Please enter your name and email address below. The "optional" fields below do not need to be filled in, unless you wish to include this information in email you send.

Required Information

Full Name: trseidaliev

Email Address: trseidaliev@trseidaliev.net

Optional Information

Reply-To:

Organization:

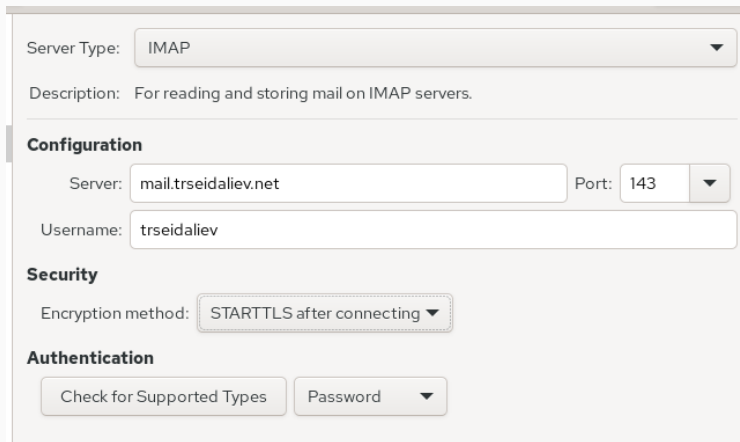
Signature: None ▼ Add New Signature...

Aliases:

Add
Edit
Remove

Рис. 7: Настройка Evolution

IMAP-сервер настроен корректно.



The image shows a configuration window for an IMAP server. It includes sections for Server Type, Description, Configuration, Security, and Authentication. The Server Type is set to IMAP. The Description is 'For reading and storing mail on IMAP servers.' The Configuration section shows the Server as mail.trseidaliev.net, Port as 143, and Username as trseidaliev. The Security section shows the Encryption method as STARTTLS after connecting. The Authentication section shows a button to 'Check for Supported Types' and a dropdown menu set to 'Password'.

Server Type: IMAP ▼

Description: For reading and storing mail on IMAP servers.

Configuration

Server: mail.trseidaliev.net Port: 143 ▼

Username: trseidaliev

Security

Encryption method: STARTTLS after connecting ▼

Authentication

Check for Supported Types Password ▼

Рис. 8: IMAP настройки

SMTP-сервер принимает исходящую почту.

Server Type: SMTP

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

Configuration

Server: mail.trseidaliev.net Port: 25

☐ Server requires authentication

Security

Encryption method: No encryption

Authentication

Type: Check for Supported Types PLAIN

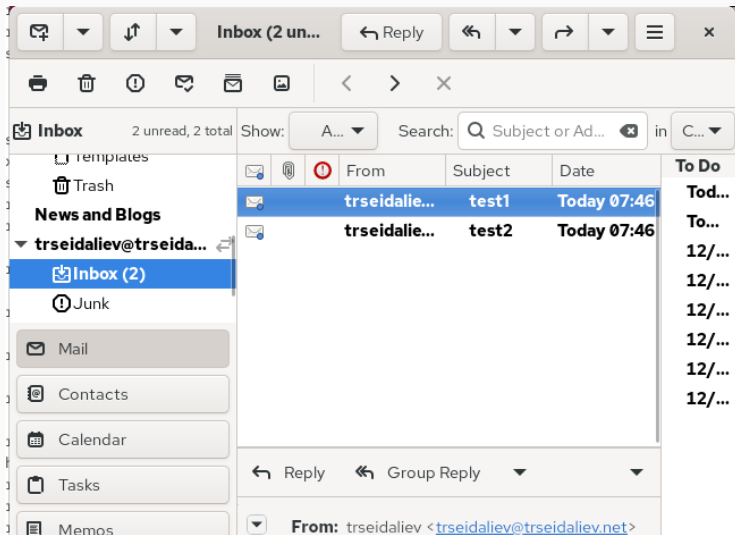
Username: trseidaliev

Send Options

☐ Re-encode message before send

Проверка получения почты

Письма успешно приняты в Evolution.



Наблюдение и диагностика

Логи подтверждают доставку писем.

```
Nov 30 10:46:52 server postfix/smtpd[20682]: connect from client.trseidaliev.net[192.168.1.30]
Nov 30 10:46:52 server postfix/smtpd[20682]: DE92C233483C: client=client.trseidaliev.net[192.168.1.30]
Nov 30 10:46:52 server postfix/cleanup[20686]: DE92C233483C: message-id=<f538c2fe5053458dde4ba51e5087b12bbefc6f3e.came
l@trseidaliev.net>
Nov 30 10:46:52 server postfix/smtpd[20682]: disconnect from client.trseidaliev.net[192.168.1.30] ehlo=1 mail=1 rcpt=1
data=1 quit=1 commands=5
Nov 30 10:46:52 server postfix/qmgr[19771]: DE92C233483C: from=<trseidaliev@trseidaliev.net>, size=570, nrcpt=1 (queue
active)
Nov 30 10:46:52 server postfix/local[20687]: DE92C233483C: to=<trseidaliev@trseidaliev.net>, relay=local, delay=0, del
ays=0/0/0/0, dsn=2.0.0, status=sent (delivered to maildir)
Nov 30 10:46:52 server postfix/qmgr[19771]: DE92C233483C: removed
```

Рис. 11: maillog

Письма отображаются в Maildir.

```
[trseidaliev@server.trseidaliev.net ~]$  
[trseidaliev@server.trseidaliev.net ~]$ MAIL=~/.Maildir/ mail  
s-nail version v14.9.24.  Type '?' for help  
/home/trseidaliev/Maildir: 2 messages 2 unread  
▶U 1 trseidaliev      2025-11-30 10:46   18/685   "test1  
  U 2 trseidaliev      2025-11-30 10:46   18/685   "test2  
& q  
Held 2 messages in /home/trseidaliev/Maildir  
[trseidaliev@server.trseidaliev.net ~]$
```

Рис. 12: mail

POP3 работает корректно.

```
+OK Logged in.
list
+OK 2 messages:
1 701
2 701
.
retr 1
+OK 701 octets
Return-Path: <trseidaliev@trseidaliev.net>
X-Original-To: trseidaliev@trseidaliev.net
Delivered-To: trseidaliev@trseidaliev.net
Received: from client.trseidaliev.net (client.trseidaliev.net [192.168.1.30])
        by server.trseidaliev.net (Postfix) with ESMTP id BAD9E233483C
        for <trseidaliev@trseidaliev.net>; Sun, 30 Nov 2025 10:46:29 +0300 (MSK)
Message-ID: <6efc923532399f1bfeab50768d57d6f94dd7e21a.camel@trseidaliev.net>
Subject: test1
From: trseidaliev <trseidaliev@trseidaliev.net>
To: trseidaliev@trseidaliev.net
Date: Sun, 30 Nov 2025 07:46:28 +0000
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
User-Agent: Evolution 3.52.4 (3.52.4-2.el10_1)
MIME-Version: 1.0

test1
.
dele 2
+OK Marked to be deleted.
```

Итоги работы

- Настроены и запущены почтовые сервисы Dovecot (IMAP/POP3) и Postfix (SMTP).
- Выполнена проверка доставки, получения и чтения писем различными способами.
- Настроен почтовый клиент Evolution для работы с сервером.
- Проверена работа POP3 через Telnet и просмотр Maildir через терминал.
- Логи Postfix подтвердили корректность маршрутизации и доставки сообщений.
- Обновлено provisioning-скрипты для автоматизации развёртывания почтовой системы.