Лабораторная работа № 8. Настройка SMTP-сервера

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Цель работы

• Приобретение практических навыков по установке и конфигурированию SMTPсервера.

. Задание

- 1. Установите на виртуальной машине server SMTP-сервер postfix (см. раздел 8.4.1).
- 2. Сделайте первоначальную настройку postfix при помощи утилиты postconf, задав отправку писем не на локальный хост, а на сервер в домене (см. раздел 8.4.2).
- 3. Проверьте отправку почты с сервера и клиента (см. раздел 8.4.3). '
- 4. Сконфигурируйте Postfix для работы в домене. Проверьте отправку почты с сервера и клиента (см. раздел 8.4.4).
- 5. Напишите скрипт для Vagrant, фиксирующий действия по установке и настройке Postfix во внутреннем окружении виртуальной машины server. Соответствующим образом внесите изменения в Vagrantfile (см. раздел 8.4.5)

Установка Postfix

```
[root@server.yassine.net -]# dnf -y install postflix
Last metadata expiration check: 2:10:08 ago on Sat 03 Dec 2022 09:22:20 AM UTC.
No match for argument: postflix
Error: Unable to find a match: postflix
[root@server.yassine.net -]# dnf -y install postfix
Last metadata expiration check: 2:10:25 ago on Sat 03 Dec 2022 09:22:20 AM UTC.
Dependencies resolved.
Architecture
 Installing:
                                                                          1.4 M
                 x86 64
                                 2:3.5.9-19 el9
                                                        appstream
Transaction Summary
Install 1 Package
Total download size: 1.4 M
Installed size: 4.4 M
Downloading Packages:
postfix-3.5.9-19.el9.x86 64.rpm
                                                      2.8 MB/s | 1.4 MB
Total
                                                      1.1 MB/s | 1.4 MB
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded
[root@server.yassine.net ~]# postconf -e 'myorigin = $mydomain'
[root@server.yassine.net ~]# postconf myorigin
```

myorigin = \$mydomain

[root@server.yassine.net ~]#

```
[root@server.yassine.net ~]# systemctl reload postfix
[root@server.yassine.net ~]#
[root@server.yassine.net -]# postconf
2bounce notice recipient = postmaster
access map defer code = 450
access map reject code = 554
address verify cache cleanup interval = 12h
address verify default transport = $default transport
address verify local transport = $local transport
address verify map = btree:Sdata directory/verify cache
address verify negative cache = yes
address verify negative expire time = 3d
address verify negative refresh time = 3h
address verify pending request limit = 5000
address verify poll count = ${stress?{1}:{3}}
address verify poll delay = 3s
address verify positive expire time = 31d
address verify positive refresh time = 7d
address verify relay transport = $relay transport
address verify relayhost = Srelayhost
address verify sender = $double bounce sender
address verify sender dependent default transport maps = $sender dependent default transport maps
address verify sender dependent relayhost maps = $sender dependent relayhost maps
address verify sender ttl = 0s
address verify service name = verify
address verify transport maps = $transport maps
address verify virtual transport = $virtual transport
alias database = hash:/etc/aliases
```

[root@server.yassine.net ~]# postfix check



Изменение параметров Postfix с помощью postconf

Проверка работы Postfix

```
[root@server.yassine.net ~]# tail -f /var/log/maillog
Dec 3 11:44:33 server postfix/postfix-script[11165]: refreshing the Postfix mail system
Dec 3 11:44:33 server postfix/master[10987]: reload -- version 3.5.9, configuration /etc/postfix
Dec  3 11:44:33 server postfix/master[10987]: warning: ignoring inet protocols parameter value change
Dec  3 11:44:33 server postfix/master[10987]: warning: old value: "all", new value: "ipv4"
Dec  3 11:44:33 server postfix/master[10987]: warning: to change inet protocols, stop and start Postfix
Dec  3 11:46:21 server postfix/cleanup[11178]: 8FF5A454024: message-id=<20221203114621.8FF5A454024@serve
 .yassine.net>
Dec 3 11:46:21 server postfix/qmgr[11171]: 8FF5A454024: from=<root@yassine.net>, size=327, nrcpt=1 (que
ue active)
Dec  3 11:46:21 server postfix/local[11180]: 8FF5A454024: to=<yassine@server.yassine.net>, relay=local,
delay=0.14, delays=0.11/0.03/0/0, dsn=2.0.0, status=sent (delivered to mailbox)
vagrant yassınc
[root@server.yassine.net mail]# postconf inet interfaces
inet interfaces = localhost
```

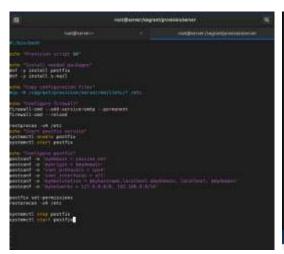
```
[root@server.yassine.net mail]# postconf inet_interfaces
inet_interfaces = localhost
[root@server.yassine.net mail]# postconf mynetworks
mynetworks = 127.0.0.1/32
[root@server.yassine.net mail]#
```

```
[root@client.yassine.net ~]# postconf inet_protocols
inet_protocols = all
[root@client.yassine.net ~]# pstconf -e 'inet_protocols = ipv4'
bash: pstconf: command not found...
[root@client.yassine.net ~]# postconf -e 'inet_protocols = ipv4'
[root@client.yassine.net ~]#
```

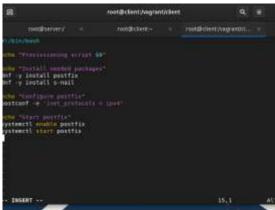
Конфигурация Postfix для домена

```
root@server:~
                                                                  root@server:/var/named/mast
$TTL 1D
        IN SOA @ server.yassine.net. (
                                           2022112500
                                                            ; serial
                                                   ; refresh
                                                   ; retry
                                                   ; expire
NS 0
root@server.yassine.net ~]# postconf -e 'mydestination = $myhostname, local.$mydomain,localhost, $mydom
[root@server.yassine.net ~]# postfix check
[root@server.yassine.net ~]# systemctl reload postfix
[root@server.yassine.net ~]#
        PTR dhcp.yassine.net.
        PTR www.yassine.net.
        PTR mail.yassine.net
```

Внесение изменений в настройки внутреннего окружения виртуальной машины



```
[root@server.yassine.net ~]# cd /vagrant/provision/server/dns/var/named
[root@server.yassine.net named]# cp -R /var/named/* /vagrant/provision/server/dns/var/named
cp: overwrite '/vagrant/provision/server/dns/var/named/data/named.run'? yes
cp: overwrite '/vagrant/provision/server/dns/var/named/dynamic/managed-keys.bind.jnl'? yes
cp: overwrite '/vagrant/provision/server/dns/var/named/dynamic/managed-keys.bind'? yes
cp: overwrite '/vagrant/provision/server/dns/var/named/master/fz/yassine.net'? yes
cp: overwrite '/vagrant/provision/server/dns/var/named/master/rz/192.168.1'? yes
cp: overwrite '/vagrant/provision/server/dns/var/named/named.ca'? yes
cp: overwrite '/vagrant/provision/server/dns/var/named/named.localhost'? yes
cp: overwrite '/vagrant/provision/server/dns/var/named/named.loopback'? yes
[root@server.yassine.net named]#
```



server.vm.provision "server mail",
type: "shell",
preserve_order: true,
path: "provision/server/mail.sh"

ВЫВОД

• ПОЛУЧИЛ практических навыков по установке и конфигурированию SMTPсервера.