

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 postfix
Last metadata expiration check: 2:10:08 ago on Sat 03 Dec 2022 09:22:20 AM UTC.
No match for argument: postfix
Error: Unable to find a match: postfix
[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.
```

Package	Architecture	Version	Repository	Size
Installing:				
postfix	x86_64	2:3.5.9-19.el9	appstream	1.4 M

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	2.0 MB/s 1.4 MB	00:00

Total	1.1 MB/s 1.4 MB	00:01

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 ~]# postfix check
[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 = $local_transport
address_verify_map = btree:$data_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 = $relayhost
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
[root@server.yassine.net ~]# systemctl reload postfix
[root@server.yassine.net ~]#
```

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

```
[root@server.yassine.net ~]# postconf
bounce_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 = $local_transport
address_verify_map = btree:$data_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 = $relayhost
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 = 8s
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 ~]# postconf mydomain
mydomain = yassine.net
[root@server.yassine.net ~]#
```

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/pickup[11170]: 8FF5A454024: uid=0 from=<root>
Dec  3 11:46:21 server postfix/cleanup[11178]: 8FF5A454024: message-id=<20221203114621.8FF5A454024@server.yassine.net>
Dec  3 11:46:21 server postfix/qmgr[11171]: 8FF5A454024: from=<root@yassine.net>, size=327, nrcpt=1 (queue 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)
Dec  3 11:46:21 server postfix/qmgr[11171]: 8FF5A454024: removed
```

```
vagrant yassine
[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 ~]#
```

```
[root@server.yassine.net ~]# echo . | mail -s test1 yassine@server.yassine.net
[root@server.yassine.net ~]#
```

Конфигурация Postfix для домена

```
root@server:~  
root@server:/var/named/mast  
$TTL 1D  
@      IN SOA  @ server.yassine.net. ( 2022112500 ; serial  
                                1D      ; refresh  
                                1H      ; retry  
                                1W      ; expire  
                                3H )    ; minimum  
      NS   @  
root@server.yassine.net ~]# cat  
[root@server.yassine.net ~]# postconf -e 'mydestination = $myhostname, local.$mydomain,localhost, $mydom  
ain'  
[root@server.yassine.net ~]# postfix check  
[root@server.yassine.net ~]# systemctl reload postfix  
[root@server.yassine.net ~]#  
1 PTR ns.yassine.net.  
1 PTR dhcp.yassine.net.  
1 PTR www.yassine.net.  
1 PTR mail.yassine.net  
~  
~  
~  
~
```

Внесение изменений в настройки внутреннего окружения виртуальной машины

```
root@server:~# cd /vagrant/provision/server/dns/var/named
root@server:~# 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.empty'? 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:~#
```

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

```
root@server:~# cd /vagrant/provision/server/dns/var/named
root@server:~# 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.empty'? 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:~#
```

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

ВЫВОД

- ПОЛУЧИЛ практических навыков по установке и конфигурированию SMTPсервера.