

# **Защита лабораторной работы № 8**

## **Настройка SMTP-сервера**

*Администрирование сетевых подсистем*

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## Цель работы

Приобретение практических навыков по установке и конфигурированию SMTPсервера.

## Установка Postfix

```
[saismael@server.saismael.net ~]$ sudo -i
[sudo] password for saismael:
[root@server.saismael.net ~]# dnf -y install postfix
Rocky Linux 9 - BaseOS                2.4 kB/s | 3.6 kB      00:01
Rocky Linux 9 - AppStream              3.9 kB/s | 4.1 kB      00:01
Rocky Linux 9 - Extras                 2.8 kB/s | 2.9 kB      00:01
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        2.2 MB/s | 1.4 MB      00:00
Complete!
[root@server.saismael.net ~]# dnf -y install s-nail
Extra Packages for Enterprise Linux 9 - x86_64 26 kB/s | 24 kB      00:00
Last metadata expiration check: 0:00:02 ago on Sat 03 Dec 2022 02:46:47 PM UTC.
Dependencies resolved.
=====
Package                Architecture  Version           Repository         Size
=====
Installing:
s-nail                 x86_64        14.9.22-6.el9     appstream          621 k
Transaction Summary
=====
Install 1 Package

Total download size: 621 k
Installed size: 1.1 M
Downloading Packages:
s-nail-14.9.22-6.el9.x86_64.rpm        1.1 MB/s | 621 kB      00:00
-----
Total                                488 kB/s | 621 kB      00:01
Running transaction check
```

## Изменение параметров Postfix с помощью postconf

```
[root@server.saismael.net ~]#  
[root@server.saismael.net ~]# postconf myorigin  
myorigin = $myhostname  
[root@server.saismael.net ~]# postconf mydomain  
mydomain = saismael.net  
[root@server.saismael.net ~]# postconf -e 'myorigin = $mydomain'  
[root@server.saismael.net ~]#  
[root@server.saismael.net ~]# postconf myorigin  
myorigin = $mydomain  
[root@server.saismael.net ~]# postconf chek  
postconf: warning: chek: unknown parameter  
[root@server.saismael.net ~]# postfix chek  
postfix/postfix-script: fatal: unknown command: 'chek'. Usage: postfix start (or  
stop, reload, abort, flush, check, status, set-permissions, upgrade-configurati  
on, logrotate)  
[root@server.saismael.net ~]# postfix check  
[root@server.saismael.net ~]#  
[root@server.saismael.net ~]# systemctl reload postfix  
[root@server.saismael.net ~]#
```



## Проверка работы Postfix

```
[root@client.saismael.net ~]# dnf -y install s-nail
Last metadata expiration check: 0:01:33 ago on Sat 03 Dec 2022 03:05:29 PM UTC.
Dependencies resolved.
=====
Package            Architecture Version           Repository        Size
=====
Installing:
s-nail             x86_64          14.9.22-6.el9     appstream         621 k
Transaction Summary
=====
Install 1 Package

Total download size: 621 k
Installed size: 1.1 M
Downloading Packages:
s-nail-14.9.22-6.el9.x86_64.rpm      446 kB/s | 621 kB    00:01
-----
Total                                226 kB/s | 621 kB    00:02
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
```

```
[root@client.saismael.net ~]# postconf inet_protocols
inet_protocols = all
[root@client.saismael.net ~]# postconf -e 'inet_protocols = ipv4'
[root@client.saismael.net ~]#
[root@client.saismael.net ~]# systemctl enable postfix
Created symlink /etc/systemd/system/multi-user.target.wants/postfix.service → /usr/lib/systemd/system/postfix.service.
[root@client.saismael.net ~]# systemctl start postfix
[root@client.saismael.net ~]#
```

```
[root@server.saismael.net ~]# tail -f /var/log/maillog
Dec  3 15:15:01 server postfix/master[4273]: reload -- version 3.5.9, configuration /etc/postfix
Dec  3 15:15:01 server postfix/master[4273]: warning: ignoring inet_protocols parameter value change
Dec  3 15:15:01 server postfix/master[4273]: warning: old value: "all", new value: "ipv4"
Dec  3 15:15:01 server postfix/master[4273]: warning: to change inet_protocols, stop and start Postfix
Dec  3 15:15:01 server postfix/master[4273]: warning: service smtp: ignoring inet_interfaces change
Dec  3 15:15:01 server postfix/master[4273]: warning: to change inet_interfaces, stop and start Postfix
Dec  3 15:15:21 server postfix/postfix-script[4843]: stopping the Postfix mail system
Dec  3 15:15:21 server postfix/master[4273]: terminating on signal 15
Dec  3 15:16:01 server postfix/postfix-script[4930]: starting the Postfix mail system
Dec  3 15:16:01 server postfix/master[4932]: daemon started -- version 3.5.9, configuration /etc/postfix
Dec  3 15:37:11 server postfix/postfix-script[5225]: refreshing the Postfix mail system
```

## Конфигурация Postfix для домена

Для настройки возможности отправки сообщений не на конкретный узел сети, а на доменный адрес прописываем MX-запись с указанием имени почтового сервера

```
saismael.net      [-M--] 43 L:[ 1+17 18/ 20] *(439 / 441b) 0010 0x00A  [*]
$ORIGIN .
$TTL 86400<---->; 1 day
saismael.net<--><---->IN SOA<-->saismael.net. server.saismael.net. (
<----><----><----><----><---->2020110524 ; serial
<----><----><----><----><---->86400      ; refresh (1 day)
<----><----><----><----><---->3600       ; retry (1 hour)
<----><----><----><----><---->604800     ; expire (1 week)
<----><----><----><----><---->10800      ; minimum (3 hours)
<----><----><----><----><---->)
<----><----><----><----><---->NS<---->saismael.net.
<----><----><----><----><---->A<---->192.168.1.1
<----><----><----><----><---->MX 10<-->mail.saismael.net
$ORIGIN saismael.net.
dhcp<--><----><----><---->A<---->192.168.1.1
ns<----><----><----><----><---->A<---->192.168.1.1
server<--><----><----><---->A<---->192.168.1.1
www<----><----><----><----><---->A<---->192.168.1.1
mail<--><----><----><---->A<---->192.168.1.1
```



## Внесение изменений в настройки внутреннего окружения виртуальной машины

```
mail.sh [-M--] 22 L: [ 1+19 20/ 36] *(393 / 799b) 0120 0x078 [+] [X]
#!/bin/bash

echo "Provisioning script $0"

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

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

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

restorecon -vR /etc

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

echo "Configure postfix"
```

```
[root@server.saismael.net ~]# cd /vagrant/provision/server/dns/var/named
[root@server.saismael.net named]# cp -R /var/named/* /vagrant/provision/server/dns/var/named
cp: overwrite '/vagrant/provision/server/dns/var/named/data/named.run'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/dynamic/managed-keys.bind.jnl'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/dynamic/managed-keys.bind'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/master/fz/saismael.net'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/master/fz/saismael.net.jnl'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/master/rz/192.168.1'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/master/rz/192.168.1.jnl'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/named.ca'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/named.empty'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/named.localhost'? y
cp: overwrite '/vagrant/provision/server/dns/var/named/named.loopback'? y
[root@server.saismael.net named]# cd /vagrant/provision/server
[root@server.saismael.net server]# touch mail.sh
[root@server.saismael.net server]# chmod +x mail.sh
[root@server.saismael.net server]#
```



Приобрел практические навыки по установке и конфигурированию SMTP сервера.