

# Администрирование сетевых подсистем

## Лабораторная работа №15

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## Информация

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## Цель работы

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Получение навыков по работе с журналами системных событий.

## Выполнение лабораторной работы



The screenshot shows a text editor window with the title bar "\*netlog-server.conf /etc/rsyslog.d". On the left, there are "Open" and "+" buttons. The main area contains two lines of configuration code:

```
1 $ModLoad imtcp  
2 $InputTCPServerRun 514
```

Рис. 1: Настройка приёма записей журнала по tcp:514

# Выполнение лабораторной работы

```
rayslogd 7960          root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960          root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7962 in:imjour    root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7962 in:imjour    root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7963 in:imtcp    root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7963 in:imtcp    root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7964 rs:main    root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7964 rs:main    root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7965 in:imtcp    root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7965 in:imtcp    root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7966 in:imtcp    root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7966 in:imtcp    root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7967 in:imtcp    root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7967 in:imtcp    root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7968 in:imtcp    root  4u   IPv4          49118
        *t0  TCP *:shell (LISTEN)
rsyslogd 7960 7968 in:imtcp    root  5u   IPv6          49119
        *t0  TCP *:shell (LISTEN)
[root@server rsyslogd]$
```

Рис. 2: Проверка прослушиваемых tcp портов

## Выполнение лабораторной работы

```
[root@server rsyslog.d]# firewall-cmd --add-port=514/tcp  
firewall-cmd --add-port=514/tcp --permanent  
success  
success  
[root@server rsyslog.d]#
```

Рис. 3: Настройка межсетевого экрана на сервере

## Выполнение лабораторной работы



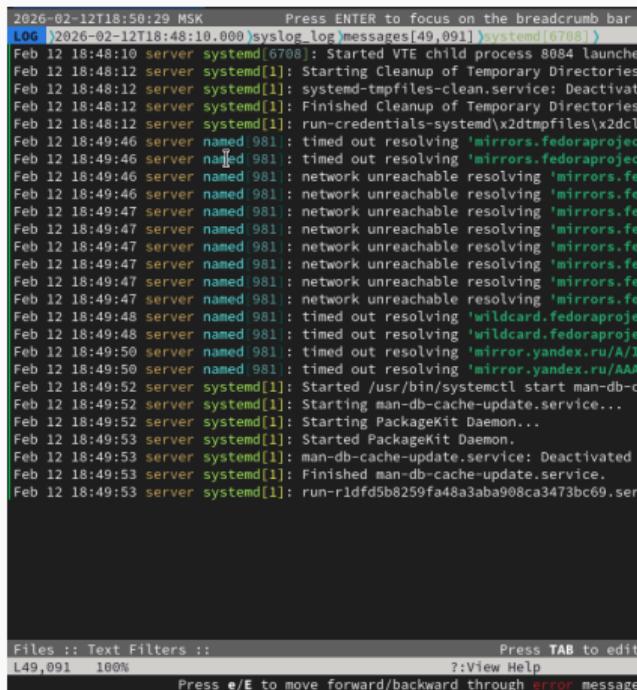
Рис. 4: netlog-client.conf на клиенте

## Выполнение лабораторной работы

```
[root@server ~]# tail -f /var/log/messages
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/A
/IN': 2001:4860:4802:34::72#53
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/A
AAA/IN': 2001:4860:4802:34::72#53
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/A
/IN': 2001:4860:4802:38::72#53
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/A
AAA/IN': 2001:4860:4802:38::72#53
Feb 12 18:43:00 server named[981]: timed out resolving 'pki-goog.l.google.com/
A/IN': 192.168.1.1#53
Feb 12 18:43:00 server named[981]: timed out resolving 'pki-goog.l.google.com/
AAAA/IN': 192.168.1.1#53
Feb 12 18:45:16 server systemd[6708]: Started VTE child process 7979 launched
by gnome-terminal-server process 7501.
Feb 12 18:45:21 server systemd[1]: Starting Hostname Service...
Feb 12 18:45:21 server systemd[1]: Started Hostname Service.
Feb 12 18:45:51 server systemd[1]: systemd-hostnamed.service: Deactivated suc
cessfully.
Feb 12 18:46:47 server gnome-shell[6844]: Window manager warning: Buggy client
sent a _NET_ACTIVE_WINDOW message with a timestamp of 0 for 0x26000f8
```

Рис. 5: Лог файлов журнала

# Выполнение лабораторной работы

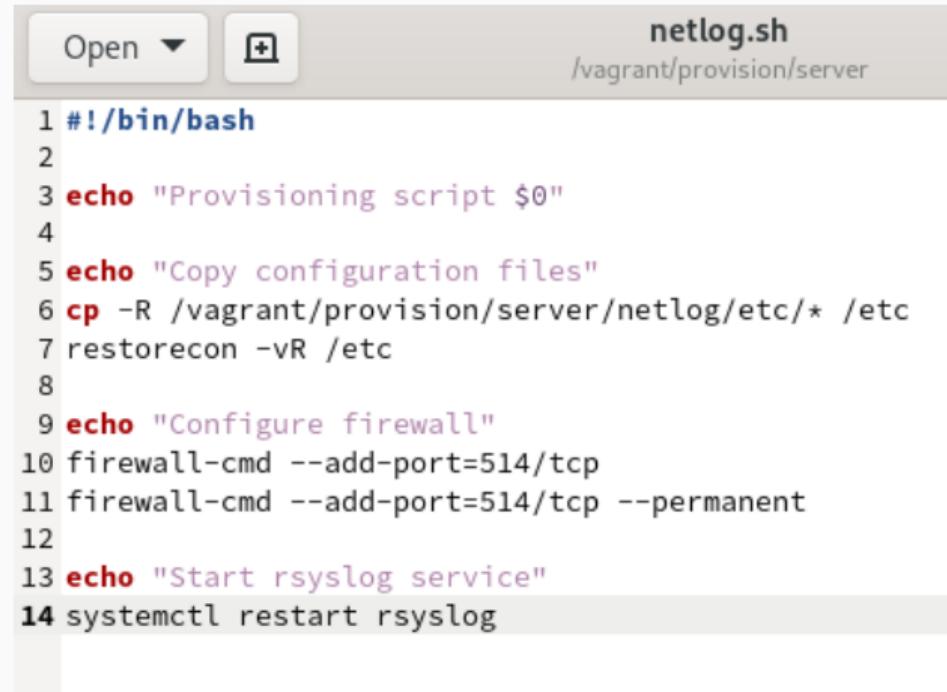


```
2026-02-12T18:50:29 MSK      Press ENTER to focus on the breadcrumb bar
Log >2026-02-12T18:48:10.000>syslog_log |messages[49,091]>systemd[6768]
Feb 12 18:48:10 server systemd[6708]: Started VTE child process 8084 launche
Feb 12 18:48:12 server systemd[1]: Starting Cleanup of Temporary Directories
Feb 12 18:48:12 server systemd[1]: systemd-tmpfiles-clean.service: Deactivat
Feb 12 18:48:12 server systemd[1]: Finished Cleanup of Temporary Directories
Feb 12 18:48:12 server systemd[1]: run-credentials-systemd|x2dtmpfiles|x2dcl
Feb 12 18:49:46 server named[981]: timed out resolving 'mirrors.fedoraprojec
Feb 12 18:49:46 server named[981]: timed out resolving 'mirrors.fedoraprojec
Feb 12 18:49:46 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:46 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:47 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:47 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:47 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:47 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:47 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:47 server named[981]: network unreachable resolving 'mirrors.fe
Feb 12 18:49:48 server named[981]: timed out resolving 'wildcard.fedoraproje
Feb 12 18:49:48 server named[981]: timed out resolving 'mirror.yandex.ru/A/I
Feb 12 18:49:50 server named[981]: timed out resolving 'mirror.yandex.ru/AA
Feb 12 18:49:52 server systemd[1]: Started /usr/bin/systemctl start man-db-c
Feb 12 18:49:52 server systemd[1]: Starting man-db-cache-update.service...
Feb 12 18:49:52 server systemd[1]: Starting PackageKit Daemon...
Feb 12 18:49:53 server systemd[1]: Started PackageKit Daemon.
Feb 12 18:49:53 server systemd[1]: man-db-cache-update.service: Deactivated
Feb 12 18:49:53 server systemd[1]: Finished man-db-cache-update.service.
Feb 12 18:49:53 server systemd[1]: run-rldfd5b8259fa48a3aba908ca3473bc69.ser

Files :: Text Filters ::          Press TAB to edit
L49,091  100%           ?:View Help
Press e/E to move forward/backward through error messages
```

Рис. 6: Просмотр лога с помощью lnav

## Выполнение лабораторной работы

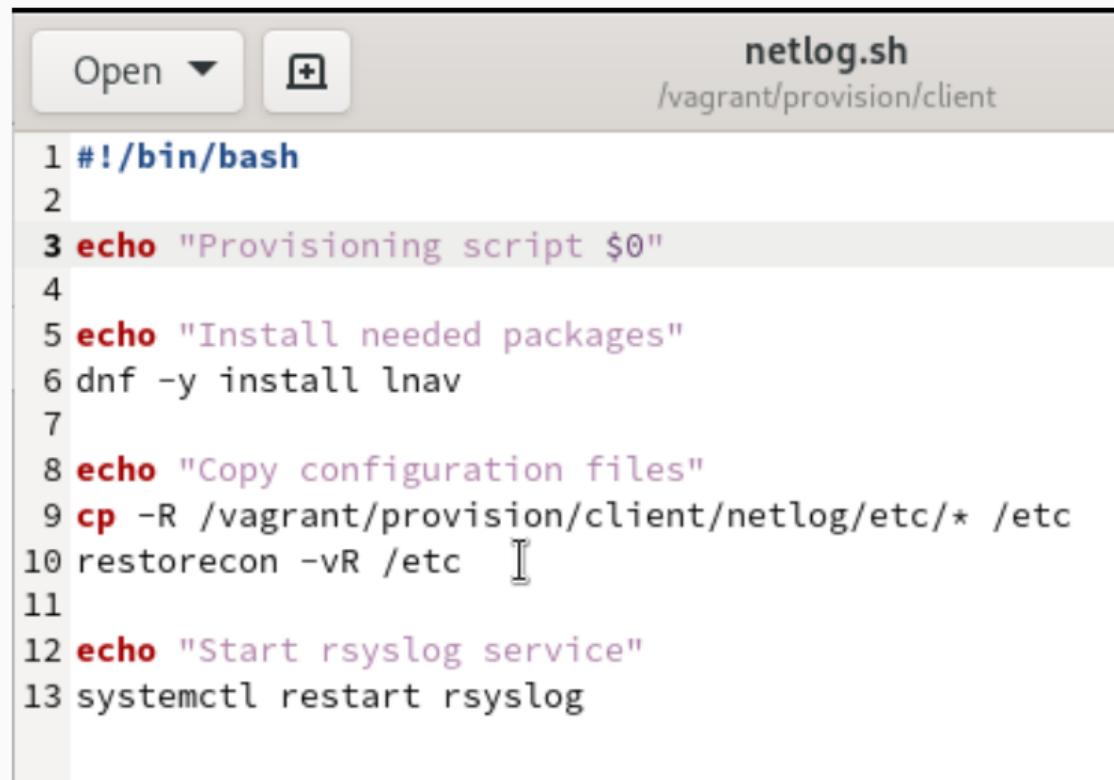


The screenshot shows a terminal window with the title bar "netlog.sh" and the path "/vagrant/provision/server". The window contains a shell script named "netlog.sh" with the following content:

```
1 #!/bin/bash
2
3 echo "Provisioning script $0"
4
5 echo "Copy configuration files"
6 cp -R /vagrant/provision/server/netlog/etc/* /etc
7 restorecon -vR /etc
8
9 echo "Configure firewall"
10 firewall-cmd --add-port=514/tcp
11 firewall-cmd --add-port=514/tcp --permanent
12
13 echo "Start rsyslog service"
14 systemctl restart rsyslog
```

Рис. 7: netlog.sh на server

## Выполнение лабораторной работы



The screenshot shows a terminal window with the following details:

- Top bar: "Open ▾" and a file icon.
- Title bar: "netlog.sh" and the path "/vagrant/provision/client".
- Code area:

```
1 #!/bin/bash
2
3 echo "Provisioning script $0"
4
5 echo "Install needed packages"
6 dnf -y install lnav
7
8 echo "Copy configuration files"
9 cp -R /vagrant/provision/client/netlog/etc/* /etc
10 restorecon -vR /etc
11
12 echo "Start rsyslog service"
13 systemctl restart rsyslog
```

Рис. 8: netlog.sh на client

## Выполнение лабораторной работы

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

Рис. 9: Правки в Vagrantfile для server

## Выполнение лабораторной работы

```
client.vm.provision "client netlog",
  type: "shell",
  preserve_order: true,
  path: "provision/client/netlog.sh"
```

Рис. 10: Правки в Vagrantfile для client

## Выводы

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В процессе выполнения данной лабораторной работы я освоил навыки по работе с журналами системных событий.