

# Администрирование сетевых подсистем

## Лабораторная работа №15

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## Информация

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Получение навыков по работе с журналами системных событий.

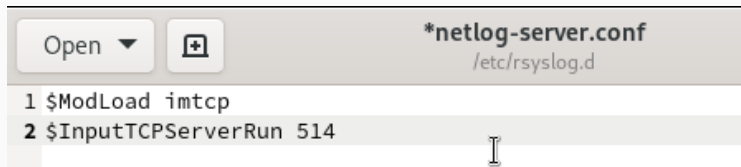


Рис. 1: Настройка приёма записей журнала по tcp:514

# Выполнение лабораторной работы

```
rsyslogd 7960      TCP *:shell (LISTEN)    root    4u    IPv4    49118
rsyslogd 7960      TCP *:shell (LISTEN)    root    5u    IPv6    49119
rsyslogd 7960      TCP *:shell (LISTEN)    root    4u    IPv4    49118
rsyslogd 7960 7962 in:imjour    root    5u    IPv6    49119
rsyslogd 7960 7962 in:imjour    root    4u    IPv4    49118
rsyslogd 7960 7963 in:intcp     root    5u    IPv6    49119
rsyslogd 7960 7963 in:intcp     root    4u    IPv4    49118
rsyslogd 7960 7963 in:intcp     root    5u    IPv6    49119
rsyslogd 7960 7964 rs:main      root    4u    IPv4    49118
rsyslogd 7960 7964 rs:main      root    5u    IPv6    49119
rsyslogd 7960 7965 in:intcp     root    4u    IPv4    49118
rsyslogd 7960 7965 in:intcp     root    5u    IPv6    49119
rsyslogd 7960 7966 in:intcp     root    4u    IPv4    49118
rsyslogd 7960 7966 in:intcp     root    5u    IPv6    49119
rsyslogd 7960 7967 in:intcp     root    4u    IPv4    49118
rsyslogd 7960 7967 in:intcp     root    5u    IPv6    49119
rsyslogd 7960 7968 in:intcp     root    4u    IPv4    49118
rsyslogd 7960 7968 in:intcp     root    5u    IPv6    49119
[root@server rsyslog.d]#
```

Рис. 2: Проверка прослушиваемых tcp портов

```
[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

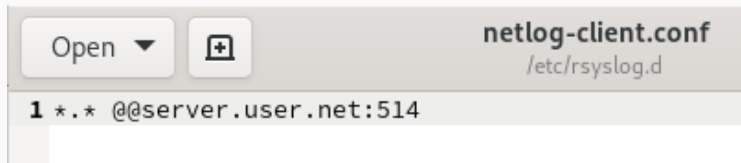


Рис. 4: netlog-client.conf на клиенте



```
[root@server ~]# tail -f /var/log/messages
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/AAAA/IN': 2001:4860:4802:34::72#53
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/AAAA/IN': 2001:4860:4802:34::72#53
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/AAAA/IN': 2001:4860:4802:38::72#53
Feb 12 18:42:58 server named[981]: network unreachable resolving 'o.pki.goog/AAAA/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 successfully.
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
```

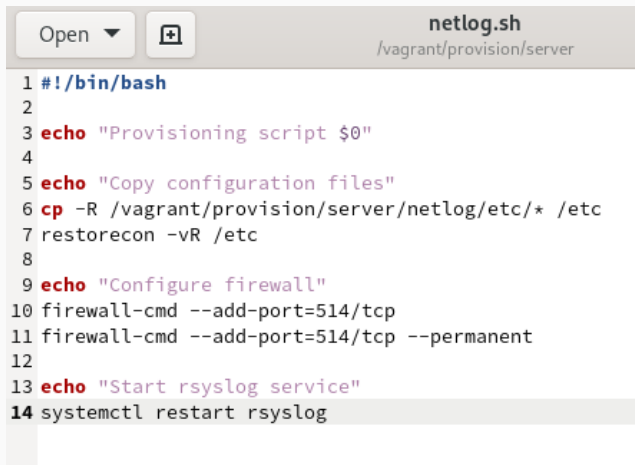
Рис. 5: Лог файлов журнала

## 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[6708]
Feb 12 18:48:10 server systemd[6708]: Started VTE child process 8084 launch
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 18:49:47 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 'wildcard.fedoraproje
Feb 12 18:49:50 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/AAA
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-r1dfd5b8259fa48a3aba908ca3473bc69.ser
```

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

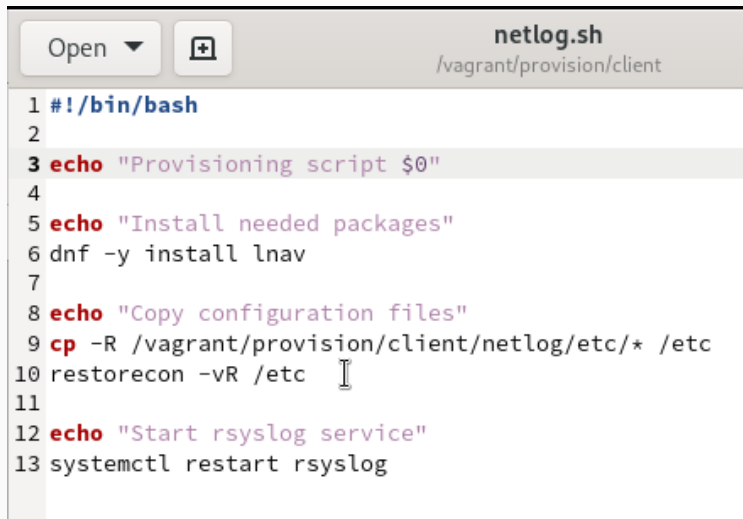
Рис. 6: Просмотр лога с помощью lnav



The image shows a terminal window with a title bar. On the left, there is an 'Open' button with a dropdown arrow and a '+' icon. On the right, the title 'netlog.sh' is displayed above the path '/vagrant/provision/server'. The terminal content consists of 14 lines of a shell script. Line 14, 'systemctl restart rsyslog', is highlighted with a light gray background. The script includes comments, echo statements, and system commands for file copying, firewall configuration, and service management.

```
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



The image shows a terminal window with a title bar. On the left, there is an 'Open' button with a dropdown arrow and a '+' icon. The title bar text is 'netlog.sh' and the path below it is '/vagrant/provision/client'. The terminal content shows a shell script with 13 lines. Line 3 is highlighted. The script includes comments, package installation, file copying, and service management commands.

```
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

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

Рис. 9: Правки в Vagrantfile для server

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

Рис. 10: Правки в Vagrantfile для client

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