# Отчет по лабораторной работе №5

Простейший вариант

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### 1 Цель работы

Получить навыки управления системными службами операционной системы посредством systemd.

- 1. Получите полномочия администратора su -
- 2. Проверьте статус службы Very Secure FTP: systemctl status vsftpd

```
[lchileshe@chileshelupupa ~]$ su -
Password:
[root@chileshelupupa ~]# systemctl status vsftpd
Unit vsftpd.service could not be found.
[root@chileshelupupa ~]#
```

3. Установите службу Very Secure FTP: dnf -y install vsftpd

```
[root@chileshelupupa ~]# dnf -y install vsftpd
Rocky Linux 9 - BaseOS
Rocky Linux 9 - BaseOS
Rocky Linux 9 - AppStream
Rocky Linux 9 - AppStream
Rocky Linux 9 - Extras
                                                                                                                       820 B/s | 4.1 kB
227 kB/s | 2.3 MB
5.3 kB/s | 4.5 kB
395 kB/s | 8.0 MB
1.0 kB/s | 2.9 kB
                                                                                                                                                      88:88
                                                                                                                                                      00:20
                                                                                                                                                      88:82
Dependencies resolved.
 Package
                                 Architecture
Installing:
                                 x86_64
                                                                      3.0.5-5.el9
                                                                                                                    appstream
Transaction Summary
Install 1 Package
Total download size: 157 k
Installed size: 347 k
Downloading Packages:
vsftpd-3.0.5-5.el9.x86_64.rpm
                                                                                                                       349 kB/s | 157 kB
                                                                                                                                                      00:00
                                                                                                                         31 kB/s | 157 kB
                                                                                                                                                      00:05
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
 unning transaction
  Installing : vsftpd-3.0.5-5.el9.x86_64
Running scriptlet: vsftpd-3.0.5-5.el9.x86_64
  Installing
                          : vsftpd-3.0.5-5.el9.x86_64
   Verifying
```

#### 4. Запустите службу Very Scure FTP: systemctl start vsftpd e

#### 5. Проверьте статус службы Very Secure FTP: systemctl status vsftpd

- 6. Добавьте службу Very Secure FTP в автозапуск при загрузке операционной системы, используя команду systemctl enable. Затем проверьте статус службы. Удалите службу из автозапуска, используя команду systemctl disable, и снова проверьте её статус.
- 7. Выведите на экран символические ссылки, ответственные за запуск различных сервисов: ls /etc/systemd/system/multi-user.target.wants

```
[root@chileshelupupa ~]# ls /etc/systemd/system/multi-user.target.wants
atd.service cups.path libstoragemgmt.service remote-fs.target tuned.service
auditd.service cups.service mcelog.service rsyslog.service vboxadd.service
avahi-daemon.service firewalld.service mdmonitor.service smartd.service vboxadd-service.service
chronyd.service irqbalance.service ModemManager.service sshd.service vmtoolsd.service
crond.service kdump.service NetworkManager.service sssd.service
[root@chileshelupupa ~]#
```

8. Снова добавьте службу Very Secure FTP в автозапуск: systemctl enable vsftpd

9. Снова проверьте статус службы Very Secure FTP: systemctl status vsftpd

10. Выведите на экран список зависимостей юнита: systemctl list-dependencies vsftpd

```
root@chileshelupupa ~]# systemctl list-dependencies vsftpd
sftpd.service
 system.slice
sysinit.target
     dev-hugepages.mount
     -dev-mqueue.mount
     -dracut-shutdown.service
      -iscsi-onboot.service
     -iscsi-starter.service
     -kmod-static-nodes.service
     —ldconfig.service
—lvm2-lvmpolld.socket
—lvm2-monitor.service
—multipathd.service
     -nis-domainname.service
     -plymouth-read-write.service
     -plymouth-start.service
     -proc-sys-fs-binfmt_misc.automount
     -selinux-autorelabel-mark.service
     —sys-fs-fuse-connections.mount
—sys-kernel-config.mount
     -sys-kernel-debug.mount
-sys-kernel-tracing.mount
     -systemd-ask-password-console.path
     -systemd-binfmt.service
     -systemd-boot-random-seed.service
     -systemd-boot-update.service
     -systemd-firstboot.service
     -systemd-hwdb-update.service
     —systemd-journal-catalog-update.service
—systemd-journal-flush.service
—systemd-journald.service
     -systemd-machine-id-commit.service
-systemd-modules-load.service
      -systemd-network-generator.service
```

11. Выведите на экран список юнитов, которые зависят от данного юнита: systemctl list-dependencies vsftpd –reverse

```
[root@chileshelupupa ~]# systemctl list-dependencies vsftpd --reverse
vsftpd.service
• Lmulti-user.target
• Lgraphical.target
[root@chileshelupupa ~]#
```

### 2 Конфликты юнитов

1. Получите полномочия администратора. Установите iptables: dnf -y install iptables\*

```
[root@chileshelupupa ~]# dnf -y install iptables\+
Last metadata expiration check: 0:11:25 ago on 5at 05 Oct 2024 06:07:46 PM MSK.
Package iptables-libs-1.8.10-2.el9.x86_64 is already installed.
Package iptables-nft-1.8.10-2.el9.x86_64 is already installed.
Dependencies resolved.
Transaction Summary
Install 3 Packages
Upgrade 2 Packages
Total download size: 654 k
 ownloading Packages:
(1/5): iptables-utils-1.8.10-4.el9_4.x86_64.rpm
                                                                                                                           28 kB/s | 14 kB
774 kB/s | 186 kB
1.0 MB/s | 396 kB
2.8 kB/s | 17 kB
                                                                                                                                                        00:00
00:00
00:00
00:06
(2/5): 1ptables-devel-1.8.10-4.el9_4.x86_64.rpm
(3/5): 1ptables-nft-1.8.10-4.el9_4.x86_64.rpm
(4/5): 1ptables-libs-1.8.10-4.el9_4.x86_64.rpm
(5/5): iptables-nft-services-1.8.10-4.el9_4.noarch.rpm
                                                                                                                             50 kB/s | 654 kB
Total
 unning transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing :
Upgrading : iptables-libs-1.8.10-4.el9_4.x86_64
Upgrading : iptables-nft-1.8.10-4.el9_4.x86_64
  Running scriptlet: iptables-nft-1.8.10-4.el9_4.x86_64
```

2. Проверьте статус firewalld и iptables: systemctl status firewalld

3. Попробуйте запустить firewalld и iptables: systemctl start firewalld systemctl start iptables

```
[root@chileshelupupa ~]# systemctl start firewalld
[root@chileshelupupa ~]# systemctl start iptables
 root@chileshelupupa ~]# systemctl status firewalld
   firewalld.service - firewalld - dynamic firewall daemon
        Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; preset: enabled)
        Active: inactive (dead) since Sat 2024-10-05 18:21:31 MSK; 21s ago
     Duration: 19min 54.957s
          Docs: man:firewalld(1)
      Process: 786 ExecStart=/usr/sbin/firewalld --nofork --nopid $FIREWALLD_ARGS (code=exited, status=0/SUCCESS)
     Main PID: 786 (code=exited, status=0/SUCCESS)
            CPU: 1.052s
Oct 05 18:01:35 chileshelupupa.localdomain systemd[1]: Starting firewalld - dynamic firewall daemon...
Oct 05 18:01:36 chileshelupupa.localdomain systemd[1]: Started firewalld - dynamic firewall daemon.
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Stopping firewalld - dynamic firewall daemon...
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: firewalld.service: Deactivated successfully.
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Stopped firewalld - dynamic firewall daemon.
 Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: firewalld.service: Consumed 1.052s CPU time.
[root@chileshelupupa ~]* systemctl status firewalld

ofirewalld.service - firewalld - dynamic firewall daemon

Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; preset: enabled)

Active: inactive (dead) since Sat 2024-10-05 18:21:31 MSK; 52s ago
     Duration: 19min 54.957s
           Docs: man:firewalld(1)
     Process: 786 ExecStart=/usr/sbin/firewalld --nofork --nopid $FIREWALLD_ARGS (code=exited, status=0/SUCCESS)
Main PID: 786 (code=exited, status=0/SUCCESS)
Oct 05 18:01:35 chileshelupupa.localdomain systemd[1]: Starting firewalld - dynamic firewall daemon...
Oct 05 18:01:36 chileshelupupa.localdomain systemd[1]: Started firewalld - dynamic firewall daemon.
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Stopping firewalld - dynamic firewall daemon...
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: firewalld.service: Deactivated successfully.
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Stopped firewalld - dynamic firewall daemon.
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: firewalld.service: Consumed 1.052s CPU time.
[root@chileshelupupa ~]# systemctl status iptables
• iptables.service - IPv4 firewall with iptables
        Loaded: loaded (/usr/lib/systemd/system/iptables.service; disabled; preset: disabled)
      Active: active (exited) since Sat 2024-10-05 18:21:31 MSK; 58s ago
Process: 3941 ExecStart=/usr/libexec/iptables/iptables.init start (code=exited, status=0/SUCCESS)
     Main PID: 3941 (code=exited, status=0/SUCCESS)
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Starting IPv4 firewall with iptables...
Oct 05 18:21:31 chileshelupupa.localdomain iptables.init[3941]: iptables: Applying firewall rules: [ OK ]
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Finished IPv4 firewall with iptables.
[root@chileshelupupa ~]#
```

4. Введите cat /usr/lib/systemd/system/firewalld.service

```
root@chileshelupupa ~]# cat /usr/lib/systemd/system/firewalld.service
Description=firewalld - dynamic firewall daemon
Before=network-pre.target
Wants=network-pre.target
After=dbus.service
After=polkit.service
Conflicts=iptables.service ip6tables.service ebtables.service ipset.service nftables.service
Documentation=man:firewalld(1)
EnvironmentFile=-/etc/sysconfig/firewalld
ExecStart=/usr/sbin/firewalld --nofork --nopid $FIREWALLD_ARGS
ExecReload=/bin/kill -HUP $MAINPID
# supress to log debug and error output also to /var/log/messages
StandardOutput=null
StandardError∺null
BusName=org.fedoraproject.FirewallD1
KillMode=mixed
[Install]
 antedBy=multi-user.target
Alias=dbus-org.fedoraproj<u>e</u>ct.FirewallD1.service
```

5. Введите cat /usr/lib/systemd/system/iptables.service

```
[root@chileshelupupa ~]# cat /usr/lib/systemd/system/iptables.service
[Unit]
Description=IPv4 firewall with iptables
AssertPathExists=/etc/sysconfig/iptables
Before=network-pre.target
Wants=network-pre.target
[Service]
Type=oneshot
RemainAfterExit=yes
ExecStart=/usr/libexec/iptables/iptables.init start
ExecReload=/usr/libexec/iptables/iptables.init reload
ExecStop=/usr/libexec/iptables/iptables.init stop
Environment=B00TUP=serial
Environment=CONSOLETYPE=serial
[Install]
WantedBy=multi-user.target
[root@chileshelupupa ~]#
```

6. Выгрузите службу iptables (на всякий случай, чтобы убедиться, что данная служба не загружена в систему): systemctl stop iptables и загрузите службу firewalld systemctl start firewalld

```
[root@chileshelupupa ~]# systemctl stop iptables
[root@chileshelupupa ~]# systemctl start firewalld
[root@chileshelupupa ~]#
```

7. Заблокируйте запуск iptables, введя: systemctl mask iptables

```
[root@chileshelupupa ~]# systemctl mask iptables
Created symlink /etc/systemd/system/iptables.service → /dev/null.
[root@chileshelupupa ~]# systemctl start iptables
Failed to start iptables.service: Unit iptables.service is masked.
[root@chileshelupupa ~]#
```

8. Попробуйте запустить iptables: systemctl start iptables

```
[root@chileshelupupa ~]# systemctl enable iptables
Failed to enable unit: Unit file /etc/systemd/system/iptables.service is masked.
[root@chileshelupupa ~]#
```

9. Попробуйте добавить iptables в автозапуск: systemctl enable iptables

```
[root@chileshelupupa ~]# systemctl enable iptables
Failed to enable unit: Unit file /etc/systemd/system/iptables.service is masked.
[root@chileshelupupa ~]#
```