Отчет по лабораторной работе №4

Простейший шаблон

Чилеше . Л

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Российский университет дружбы народов, Москва, Россия

Объединённый институт ядерных исследований, Дубна, Россия



Докладчик

- Лупупа Чилеше
- Студент
- Студент Группы НПИбд-03-23
- Российский университет дружбы народов

Вводная часть

Цель работы

• Получить навыки управления системными службами операционной системы посредством systemd.

systemctl status vsftpd

- Получите полномочия администратора su -
- 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 ~]# |
```

dnf -y install vsftpd

```
[root@chileshelupupa ~]# dnf -y install vsftpd
Rocky Linux 9 - BaseOS
                                                                                      820 B/s | 4.1 kB
                                                                                                            88:85
Rocky Linux 9 - BaseOS
                                                                                      227 kB/s | 2.3 MB
                                                                                                            00:10
Rocky Linux 9 - AppStream
                                                                                      5.3 kB/s | 4.5 kB
                                                                                                            88:88
Rocky Linux 9 - AppStream
                                                                                      395 kB/s | 8.0 MB
                                                                                                            00:20
Rocky Linux 9 - Extras
                                                                                      1.0 kB/s | 2.9 kB
                                                                                                            66:62
Dependencies resolved.
Package
                          Architecture
                                                   Version
                                                                                    Repository
Installing:
                                                   3.0.5-5.019
                                                                                                                157 k
                          x86 64
                                                                                    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
                                                                                                            00:00
                                                                                      349 kB/s | 157 kB
Total
                                                                                       31 kB/s | 157 kB
                                                                                                            00:05
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing
  Installing
                   : vsftpd-3.0.5-5.el9.x86 64
  Running scriptlet: vsftpd-3.0.5-5.el9.x86 64
  Verifying
                  : vsftpd-3.0.5-5.el9.x86 64
```

systemctl start vsftpd systemctl status vsftpd

Вывод команды должен показать, что служба в настоящее время работает, но не будет активирована при перезапуске операционной системы.

ls /etc/systemd/system/multi-user.target.wants

· Должно отобразиться, что ссылка на vsftpd.service не существует.

```
root@chileshelupupa ~]# ls /etc/systemd/system/multi-user.target.wants
atd service
                                         libstoragemgmt.service remote-fs.target
                                                                                   tuned service
auditd.service
                                                                                   vboxadd.service
avahi-daemon.service
                                         mdmonitor.service
                                                                                   vboxadd-service.service
                     irgbalance.service
                                         ModemManager.service
                                                                 sshd_service
                                                                                   umtoolsd.service
crond.service
                     kdump.service
                                         NetworkManager.service
                                                                 sssd.service
root@chileshelupupa ~]#
```

systemctl enable vsftpd

systemctl status vsftpd

Теперь вы увидите, что для файла юнита состояние изменено c disabled на enabled.e'

systemctl list-dependencies vsftpd

```
[root@chileshelupupa ~]# systemctl list-dependencies vsftpd
vsftpd.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-iournald.service
    -systemd-machine-id-commit.service
    -systemd-modules-load.service
    -systemd-network-generator.service
```

systemctl list-dependencies vsftpd -reverse

```
[root@chileshelupupa ~]# systemctl list-dependencies vsftpd --reverse
vsftpd.service
Imulti-user.target
Ugraphical.target
[root@chileshelupupa ~]#
```

Конфликты юнитов

dnf -y install iptables*

```
root@chileshelupupa ~]# dnf -y install iptables\*
Last metadata expiration check: 0:11:25 ago on Sat 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.
Denendencies resolved.
Package
Installing:
                                     x86 64
                                                          1.8.10-4.el9 4
                                                                                         appstream
                                                                                                                   14 k
                                     noarch
                                                          1.8.10-4.el9 4
                                                                                                                  17 k
                                                                                         appstream
                                     x86 64
                                                          1.8.18-4.el9 4
                                                                                         baseos
                                                                                                                  48 k
Upgrading:
                                     x86 64
                                                          1.8.10-4.el9 4
                                                                                                                 396 k
                                                                                         baseos
                                     ×86 64
                                                          1.8.18-4.el9 4
                                                                                         hasens
                                                                                                                  186 k
Transaction Summary
Install 3 Packages
Upgrade 2 Packages
Total download size: 654 k
Downloading Packages:
(1/5): iptables-utils-1.8.10-4.el9 4.x86 64.rpm
                                                                                       87 kB/s |
                                                                                                   40 kB
                                                                                                             00:00
(2/5): iptables-devel-1.8.10-4.el9_4.x86_64.rpm
                                                                                       28 kB/s I
                                                                                                  14 kR
                                                                                                             00:00
(3/5): iptables-nft-1.8.10-4.el9_4.x86_64.rpm
                                                                                       774 kB/s | 186 kB
                                                                                                             00:00
(4/5): iptables-libs-1.8.10-4.el9 4.x86 64.rpm
                                                                                       1.0 MR/s | 306 kR
                                                                                                             00:00
(5/5): iptables-nft-services-1.8.10-4.el9 4.noarch.rpm
                                                                                       2.8 kB/s | 17 kB
                                                                                                             00.06
Letol
                                                                                       50 kB/s | 654 kB
                                                                                                             88:13
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing
 Upgrading
                  : iotables-libs-1.8.10-4.el9 4.x86 64
                : iptables-nft-1.8.10-4.el9 4.x86 64
 Upgrading
 Running scriptlet: iptables-nft-1.8.10-4.el9 4.x86 64
```

```
[root@chileshelupupa ~]# systemctl status firewalld
 firewalld.service - firewalld - dynamic firewall daemon
    Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; preset: enabled)
    Active: active (running) since Sat 2024-10-05 18:01:36 MSK; 18min ago
      Docs: man:firewalld(1)
  Main PID: 786 (firewalld)
     Tasks: 2 (limit: 24674)
    Memory: 44.2M
       CPU: 988ms
    CGroup: /system.slice/firewalld.service
Oct 05 18:01:35 chileshelupupa.localdomain systemd[1]: Starting firewalld - dynamic firewall daemon...
Oct 85 18:01:36 chileshelupupa.localdomain systemd[1]: Started firewalld - dynamic firewall daemon.
[root@chileshelupupa ~l# systemetl status iptables
 iptables.service - IPv4 firewall with iptables
    Loaded: loaded (/usr/lib/systemd/system/iptables.service; disabled; preset: disabled)
    Active: inactive (dead)
root@chileshelupupa ~]#
```

systemctl status iptables

[root@chileshelupupa ~1#

```
root@chileshelupupa ~1# systemctl start firewalld
 root@chileshelupupa ~l# systemctl start intables
 root@chileshelupupa ~1# 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 SFIREWALLD 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 ~l# 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: 52s ago
   Duration: 19min 54,957s
       Docs: man:firewalld(1)
   Process: 786 ExecStart=/usr/sbin/firewalld --nofork --nopid SFIREWALLD 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 85 18:81:36 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@chileshelununa ~1# systemet] status intables
  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 FxecStart=/usr/libexec/intables/intables.init start (code=exited, status=0/SUCCFSS)
   Main PID: 3941 (code=exited, status=0/SUCCESS)
        CPU: 21ms
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Starting IPv4 firewall with iptables...
Oct 05 18:21:31 chileshelupupa localdomain intables init[3941]; intables: Applying firewall rules: [ OK ]
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Finished IPv4 firewall with iptables.
```

systemctl start firewalld systemctl start iptables

```
root@chileshelupupa ~1# systemctl start firewalld
 root@chileshelupupa ~l# systemctl start intables
 root@chileshelupupa ~1# 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 SFIREWALLD 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...
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Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: firewalld.service: Consumed 1.052s CPU time.
 root@chileshelupupa ~l# 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: 52s ago
   Duration: 19min 54,957s
       Docs: man:firewalld(1)
   Process: 786 ExecStart=/usr/sbin/firewalld --nofork --nopid SFIREWALLD 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 85 18:81:36 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@chileshelununa ~1# systemet] status intables
  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 FxecStart=/usr/libexec/intables/intables.init start (code=exited, status=0/SUCCFSS)
   Main PID: 3941 (code=exited, status=0/SUCCESS)
        CPU: 21ms
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Starting IPv4 firewall with iptables...
Oct 05 18:21:31 chileshelupupa localdomain intables init[3941]; intables: Applying firewall rules: [ OK ]
Oct 05 18:21:31 chileshelupupa.localdomain systemd[1]: Finished IPv4 firewall with iptables.
[root@chileshelupupa ~1#
```

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

```
[root@chileshelupupa ~]# cat /usr/lib/systemd/system/firewalld.service
[Unit]
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)
[Service]
EnvironmentFile=-/etc/sysconfig/firewalld
ExecStart=/usr/sbin/firewalld --nofork --nopid SFIREWALLD ARGS
ExecReload=/bin/kill -HUP $MAINPID
# supress to log debug and error output also to /var/log/messages
StandardOutput=null
StandardError=null
Type=dbus
BusName=org.fedoraproject.FirewallD1
KillMode=mixed
[Install]
WantedBy=multi-user.target
Alias=dbus-org.fedoraproject.FirewallD1.service
```

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

```
[root@chileshelupupa ~]# cat /usr/lib/systemd/system/firewalld.service
[Unit]
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)
[Service]
EnvironmentFile=-/etc/sysconfig/firewalld
ExecStart=/usr/sbin/firewalld --nofork --nopid SFIREWALLD ARGS
ExecReload=/bin/kill -HUP $MAINPID
# supress to log debug and error output also to /var/log/messages
StandardOutput=null
StandardError=null
Type=dbus
BusName=org.fedoraproject.FirewallD1
KillMode=mixed
[Install]
WantedBy=multi-user.target
Alias=dbus-org.fedoraproject.FirewallD1.service
```

systemctl stop iptables и загрузите службу firewalld systemctl start firewalld

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

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 ~]#
```

systemctl enable iptables

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