# Лабораторная работа № 6. Мандатное разграничение прав в Linux

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#### Цель работы

Развить навыки администрирования ОС Linux. Получить первое практическое знакомство с технологией SELinux1. Проверить работу SELinx на практике совместно с веб-сервером Apache

```
exit
[yvescentos 8@yvescentos ~]$ getenforce
Enforcing
[yvescentos 8@yvescentos ~]$ sestatus
SELinux status:
                                enabled
SELinuxfs mount:
                                /svs/fs/selinux
                                /etc/selinux
SELinux root directory:
Loaded policy name:
                                targeted
Current mode:
                                enforcina
Mode from config file:
                                enforcing
Policy MLS status:
                                enabled
Policy deny unknown status:
                                allowed
Memory protection checking:
                                actual (secure)
Max kernel policy version:
                                33
[yvescentos 8@yvescentos ~]$
```

Рис. 1: 1

```
yvescentos_8@yvescentos:/home/yvescentos_8
File Edit View Search Terminal Help
[yvescentos 8@yvescentos ~]$ su
Password:
[root@yvescentos yvescentos 8]# service httpd status
Redirecting to /bin/systemctl status httpd.service
 httpd.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/httpd.service: disabled: vendor pres>
  Active: active (running) since Thu 2023-10-12 19:39:01 MSK: 27min ago
     Docs: man:httpd.service(8)
 Main PID: 38899 (httpd)
   Status: "Running, listening on: port 80"
    Tasks: 213 (limit: 10936)
  Memory: 22.6M
  CGroup: /svstem.slice/httpd.service
           -38899 /usr/sbin/httpd -DFOREGROUND
           -38906 /usr/sbin/httpd -DFOREGROUND
           -38907 /usr/sbin/httpd -DFOREGROUND
           -38908 /usr/sbin/httpd -DFOREGROUND
           └38909 /usr/sbin/httpd -DFOREGROUND
οκτ 12 19:39:01 yvescentos.localdomain systemd[1]: Starting The Apache HTTP Ser
окт 12 19:39:01 yvescentos.localdomain systemd[1]: Started The Apache HTTP Serv>
окт 12 19:39:02 vvescentos.localdomain httpd[38899]: Server configured, listeni>
lines 1-18/18 (END)
```

vvescentos\_8@yvescentos:/home/yvescentos\_8

E

```
vvescentos_8@vvescentos:/home/vvescentos_8
File Edit View Search Terminal Help
[root@yvescentos yvescentos 8]#
[root@yvescentos yvescentos 8]# ps auxZ | grep httpd
system u:system r:httpd t:s0 root 38899
                                               0.0 0.6 265104 11488 ?
             0:00 /usr/sbin/httpd -DFOREGROUND
     19:39
system u:system r:httpd t:s0 apache
                                        38906 0.0 0.4 269808 8688 7
             0:00 /usr/sbin/httpd -DFOREGROUND
     19:39
system u:system r:httpd t:s0 apache
                                               0.0 0.6 1917480 12308 ?
                                        38907
     19:39
            0:00 /usr/sbin/httpd -DFOREGROUND
system u:system r:httpd t:s0 apache
                                        38908 0.0 0.5 1786352 10172 ?
            0:00 /usr/sbin/httpd -DFOREGROUND
    19:39
system u:system r:httpd t:s0 apache
                                        38909 0.0 0.6 1786352 12384 ?
Sl 19:39
            0:00 /usr/sbin/httpd -DFOREGROUND
unconfined u:unconfined r:unconfined t:s0-s0:c0.c1023 root 39860 0.0  0.0 221940
1200 pts/0 S+ 20:08 0:00 grep --color=auto httpd
[root@vvescentos vvescentos 8]# sestatus -bigrep httpd
sestatus: invalid option -- 'i'
Usage: sestatus [OPTION]
 -v Verbose check of process and file contexts.
 -b Display current state of booleans.
Without options, show SELinux status.
root@vvescentos vvescentos 81#
```

Edit View Search Terminal Help

```
2
                   yvescentos_8@yvescentos:/home/yvescentos_8
File Edit View Search Terminal Help
Booleans:
                    347
                          Cond. Expr.:
                                              397
Allow:
                 115669
                          Neverallow:
Auditallow:
                    170
                          Dontaudit:
                                     10514
Type trans: 259809 Type change:
                                               94
Type member:
                          Range trans: 5989
Role allow:
                     39
                          Role trans: 421
Constraints:
                          Validatetrans:
                                                0
MLS Constrain:
                          MLS Val. Tran:
Permissives:
                          Polcap:
Defaults:
                          Typebounds:
Allowxperm:
                          Neverallowxperm:
Auditallowxperm: 0
                          Dontauditxperm:
Ibendportcon:
                          Ibpkevcon:
                                                0
Initial SIDs:
                          Fs use:
                                               34
Genfscon:
                107
                          Portcon:
                                              649
Netifcon:
                          Nodecon:
                                                Ю
root@vvescentos vvescentos 81# ls -lZ /var/www
otal 0
rwxr-xr-x. 2 root root system u:object r:httpd sys script exec t:s0 6 aвг 17 17
09 cgi-bin
rwxr-xr-x. 2 root root system u:object r:httpd sys content t:s0   6 abr 17 17
09 html
root@yvescentos yvescentos 8]#
E
                    vvescentos_8@vvescentos:/home/vvescentos_8
                                                                        ×
```

Развитие навыков администрирования Linux. Получение начальных практических знаний о технологии SELinux1. Проверка работы SELinx на практике с помощью Apache Beб-сервер Apache.