Лабораторная работа № 6. Мандатное разграничение прав в Linux.

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

```
slyoshjen@localhost:~
 File Edit View Search Terminal Help
Installed:
  httpd.x86 64 0:2.4.6-97.el7.centos.5
Dependency Installed:
  httpd-tools.x86 64 0:2.4.6-97.el7.centos.5 mailcap.noarch 0:2.1.41-
Complete!
froot@localhost slvoshienl# cd /etc/httpd
[root@localhost httpd]# ls
conf conf.d conf.modules.d logs modules run
[root@localhost httpd]# cat httpd.conf
cat: httpd.conf: No such file or directory
[root@localhost httpd]# echo "ServerName test.ru" >> httpd.conf
[root@localhost httpd]# cd
[root@localhost ~]# iptables - F
Bad argument `-'
Try `iptables -h' or 'iptables --help' for more information.
[root@localhost ~]# iptables -F
[root@localhost ~l# iptables -P INPUT ACCEPT
[root@localhost ~]# iptables -P OUTPUT ACCEPT
[root@localhost ~]# getenforce
Enforcing
[root@localhost ~]# sestatus
SELinux status:
                                enabled
SELinuxfs mount:
                                /svs/fs/selinux
SELinux root directory:
                                /etc/selinux
Loaded policy name:
                                targeted
                                enforcing
Current mode:
Mode from config file:
                                enforcing
Policy MLS status:
                                enabled
Policy deny unknown status:
                                allowed
Max kernel policy version:
                                31
[root@localhost ~]# service httpd status
```

```
[root@localhost ~]# systemctl status httpd

    httpd.service - The Apache HTTP Server

   Loaded: loaded (/usr/lib/systemd/system/httpd.service: disabled: vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd(8)
           man:apachectl(8)
[root@localhost ~]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@localhost ~]# systemctl status httpd

    httpd.service - The Apache HTTP Server

   Loaded: loaded (/usr/lib/systemd/system/httpd.service: disabled; vendor preset: disabled)
   Active: active (running) since Sat 2022-10-15 14:37:54 EDT; 46s ago
     Docs: man:httpd(8)
           man:apachectl(8)
 Main PID: 9209 (httpd)
   Status: "Total requests: 0; Current requests/sec: 0; Current traffic: 0 B/sec"
    Tasks: 6
   CGroup: /system.slice/httpd.service
            -9209 /usr/sbin/httpd -DFOREGROUND
            -9212 /usr/sbin/httpd -DEOREGROUND
            -9213 /usr/sbin/httpd -DFOREGROUND
            -9214 /usr/sbin/httpd -DFOREGROUND
            -9215 /usr/sbin/httpd -DFOREGROUND
            -9216 /usr/sbin/httpd -DFOREGROUND
Oct 15 14:37:54 localhost.localdomain systemd[1]: Starting The Apache HTTP Server...
Oct 15 14:37:54 localhost.localdomain httpd[9209]: AH00558: httpd: Could not reliably determi...ge
Oct 15 14:37:54 localhost.localdomain systemd[1]: Started The Apache HTTP Server.
Hint: Some lines were ellipsized, use -l to show in full.
[root@localhost ~1#
```

Figure 2: service httpd start

```
slyoshien@localhost:~
 File Edit View Search Terminal Help
[root@localhost ~]# sestatus -b | grep httpd
httpd anon write
                                             off
httpd builtin scripting
                                             on
httpd can check spam
                                             off
httpd can connect ftp
                                             nff
httpd can connect ldap
                                             off
httpd can connect mythty
                                             off
httpd can connect zabbix
                                             off
httpd can network connect
                                             off
httpd can network connect cobbler
                                             off
httpd can network connect db
                                             off
httpd can network memcache
                                             off
httpd can network relav
                                             off
httpd can sendmail
                                             off
httpd dbus avahi
                                             off
httpd dbus sssd
                                             off
httpd dontaudit search dirs
                                             off
httpd enable cgi
                                             οn
httpd enable ftp server
                                             off
httpd enable homedirs
                                             off
httpd execmem
                                             off
httpd graceful shutdown
                                             on
httpd manage ipa
                                             off
httpd mod auth ntlm winbind
                                             off
httpd mod auth pam
                                             off
httpd read user content
                                             off
httpd run ipa
                                             off
httpd run preupgrade
                                             off
httpd run stickshift
                                             off
httpd serve cobbler files
                                             off
httpd setrlimit
                                             off
httpd ssi exec
                                             off
httpd sys script anon write
                                             off
httpd tmp exec
                                             off
httpd tty comm
                                             off
httnd unified
```

Figure 4: Создали от имени суперпользователя html-файл

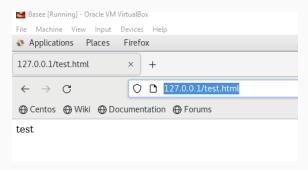


Figure 5: html-файл в веб-сервер

```
[rootglocalhost -]# ls - Z /var/www/html/test.html
-var-r--r-. root root unconfined u:object r.httpd sys content t:s0 /var/www/html/test.html
[rootglocalhost -]# schoon - t samba_share t /var/www/html/test.html
[rootglocalhost -]# ls - Z /var/www/html/test.html
-var-r----, root root unconfined_u:object_r:samba_share_t:s0 /var/www/html/test.html
[rootglocalhost -]# [#
```

Figure 6: Изменили контекст файла на samba_share_t

Figure 7: Проверили список портов

Figure 8: Удалили файл /var/www/html/test.html

Выводы по лабораторной работе

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