Лабораторная работа N=6 Мандатное разграничение прав в Linux

Аксёнова Алина Владимировна



Цель работы

Ход работы

Вход в систему, проверка режима и политики

root@avaksenova:~ Файл Правка Вид Поиск Терминал Справка [avaksenova@avaksenova ~]\$ su -Пароль: Последний вход в систему:Пт ноя 26 12:54:17 MSK 2021на pts/0 [root@avaksenova ~]# getenforce Enforcing [root@avaksenova ~]# sestatus SELinux status: enabled SELinuxfs mount: /svs/fs/selinux /etc/selinux 5ELinux root directory: Loaded policy name: targeted Current mode: enforcina Mode from config file: enforcina Policy MLS status: enabled Policy deny unknown status: allowed Max kernel policy version: 31 [root@avaksenova ~]#

Проверка работы веб-сервера

```
root@avaksenova:~
                                                                            Файл Правка Вид Поиск Терминал Справка
[root@avaksenova ~]# service httpd status
Redirecting to /bin/systemctl status httpd.service

    httpd.service - The Apache HTTP Server

   Loaded: loaded (/usr/lib/systemd/system/httpd.service: enabled: vendor preset
: disabled)
   Active: active (running) since NT 2021-11-26 15:43:59 MSK: 15min ago
     Docs: man:httpd(8)
           man:apachectl(8)
 Main PID: 1164 (httpd)
   Status: "Total requests: 0; Current requests/sec: 0; Current traffic:
                                                                            0 B/s
ec"
    Tasks: 6
   CGroup: /svstem.slice/httpd.service
           -1164 /usr/sbin/httpd -DFOREGROUND
            -1263 /usr/sbin/httpd -DFOREGROUND
           -1264 /usr/sbin/httpd -DFOREGROUND
           -1265 /usr/sbin/httpd -DFOREGROUND
           -1266 /usr/sbin/httpd -DFOREGROUND
            -1267 /usr/sbin/httpd -DFOREGROUND
ноя 26 15:43:56 avaksenova.localdomain systemd[1]: Starting The Apache HTT...
ноя 26 15:43:59 avaksenova.localdomain systemd[1]: Started The Apache HTTP...
Hint: Some lines were ellipsized, use -l to show in full.
[root@avaksenova ~]#
```

Cостояние SELinux переключателей

```
Without options, show SELinux status.
[root@avaksenova ~1# sestatus -b | grep httpd
httpd anon write
                                              off
httpd builtin scripting
                                              on
httpd can check spam
                                              off
httpd can connect ftp
                                              off
httpd can connect ldap
                                              off
httpd can connect mythtv
                                              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 relay
                                              off
httpd can sendmail
                                              off
httpd dbus avahi
                                              off
httpd dbus sssd
                                              off
httpd dontaudit search dirs
                                              off
```

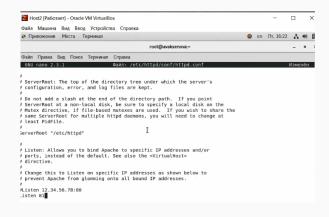
Создание html-файла



Смена контекста файла

```
[root@avaksenova ~]# chcon -t samba_share_t /var/www/html/test.html
[root@avaksenova ~]# ls -Z /var/www/html/test.html
-rw-r--r-- root root unconfined_u:object_r:samba_share_t:s0 /var/www/html/test.html
```

Запуск веб-сервера Арасће на прослушивание ТСР-порта 81



Перезапуск веб-сервера, анализ log-файлов

[root@avaksenova ~]#

```
Redirecting to /bin/systemctl restart httpd.service
[root@avaksenova ~1# service httpd status
Redirecting to /bin/systemctl status httpd.service

    httpd.service - The Apache HTTP Server

   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor
  Active: active (running) since NT 2021-11-26 16:22:34 MSK; 19s ago
    Docs: man:httpd(8)
           man:apachectl(8)
 Process: 4601 ExecStop=/bin/kill -WINCH ${MAINPID} (code=exited, status=
Main PID: 4605 (httpd)
   Status: "Total requests: 0; Current requests/sec: 0; Current traffic:
   Tasks: 6
   CGroup: /system.slice/httpd.service
           -4605 /usr/sbin/httpd -DFOREGROUND
           -4606 /usr/sbin/httpd -DFOREGROUND
           -4607 /usr/sbin/httpd -DFOREGROUND
           -4608 /usr/sbin/httpd -DFOREGROUND
           -4609 /usr/sbin/httpd -DFOREGROUND
           4610 /usr/sbin/httpd -DFOREGROUND
ноя 26 16:22:33 avaksenova.localdomain systemd[1]: Starting The Apache HTT
ноя 26 16:22:34 avaksenova.localdomain systemd[1]: Started The Apache HTTP
[root@avaksenova ~]# tail -nl /var/log/messages
tail: 1: неверное число строк
[root@avaksenova ~]# tail -n1 /var/log/messages
Nov 26 16:22:34 avaksenova systemd: Started The Apache HTTP Server.
[root@avaksenova ~]# /var/log/http/error log
-bash: /var/log/http/error log: Нет такого файла или каталога
[root@avaksenova ~1# nano /var/log/http/error log
[root@avaksenova ~]# nano /var/log/http/access log
[root@avaksenova ~]# nano /var/log/audit/audit.log
[root@avaksenova ~]# semanage port -a -t http port t -p tcp 81
usage: semanage [-h]
                {import,export,login,user,port,ibpkey,ibendport,interface,
ermissive, dontaudit}
semanage: error: unrecognized arguments: -p 81
[root@avaksenova ~]# emanage port -] | grep http port t
bash: emanage: команда не найдена...
[root@avaksenova ~]# semanage port -l | grep http port t
http port t
                                        80, 81, 443, 488, 8008, 8009, 8443
                               tcp
pegasus http port t
                               tcp
                                        5988
```

Вывод

 \blacksquare В результате выполнения данной работы была изучена технология SELinux, а также проверена работа SELinux с веб-сервером Apache.