

Lab4

Hiển thị trạng thái của firewall sau khi khởi động máy

```
[huy@Huy-221230859 ~]$ systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2024-03-22 09:40:03 +07; 2min 11s ago
     Docs: man:firewalld(1)
    Main PID: 854 (firewalld)
      Tasks: 2
    CGroup: /system.slice/firewalld.service
            └─854 /usr/bin/python2 -Es /usr/sbin/firewalld --nofork --nopid
[huy@Huy-221230859 ~]$
```

Hiển thị trạng thái của SELinux sau khi khởi động máy

```
[huy@Huy-221230859 ~]$
[huy@Huy-221230859 ~]$ getenforce
Enforcing
[huy@Huy-221230859 ~]$
[huy@Huy-221230859 ~]$
[huy@Huy-221230859 ~]$
```

Chuyển sang chế độ người dùng root, mở file /etc/selinux/config bằng công cụ vi hoặc

Vim

```
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#   enforcing - SELinux security policy is enforced.
#   permissive - SELinux prints warnings instead of enforcing.
#   disabled - No SELinux policy is loaded.
SELINUX=enforcing
# SELINUXTYPE= can take one of three values:
#   targeted - Targeted processes are protected,
#   minimum - Modification of targeted policy. Only selected processes are protect
ed.
#   mls - Multi Level Security protection.
SELINUXTYPE=targeted

~
~
~
~
```

Sửa giá trị biến SELINUX trong file cấu hình /etc/selinux/config

(SELINUX=Permissive).

- Lưu file và thoát

```
File Edit View Search Terminal Help
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#   enforcing - SELinux security policy is enforced.
#   permissive - SELinux prints warnings instead of enforcing.
#   disabled - No SELinux policy is loaded.
#SELINUX=enforcing
SELINUX=Permissive
# SELINUXTYPE= can take one of three values:
#   targeted - Targeted processes are protected,
#   minimum - Modification of targeted policy. Only selected processes are pro
tected.
#   mls - Multi Level Security protection.
SELINUXTYPE=targeted
```

Reboot hệ thống và kiểm tra chế độ hoạt động của SELinux (vẫn là Permissive)

```
root@Huy-221230859:~
File Edit View Search Terminal Help
[huy@Huy-221230859 ~]$ su -
Password:
Last login: Wed Mar 20 11:02:44 +07 2024 on pts/0
[root@Huy-221230859 ~]#
[root@Huy-221230859 ~]#
[root@Huy-221230859 ~]# vi /etc/selinux/config
[root@Huy-221230859 ~]# vi /etc/selinux/config
[root@Huy-221230859 ~]#
[root@Huy-221230859 ~]# reboot
```

```
huy@Huy-221230859:~
File Edit View Search Terminal Help
[huy@Huy-221230859 ~]$ getenforce
Permissive
[huy@Huy-221230859 ~]$ s
```

- Chuyển chế độ hoạt động của SELinux từ Permissive sang Enforcing bằng lệnh (~)#
setenforce Enforcing)
- Hiển thị trạng thái của SELinux (~)# getenforce)
- Reboot hệ thống (~)# reboot)

```

it
it -
root@Huy-221230859:~
File Edit View Search Terminal Help
[huy@Huy-221230859 ~]$ getenforce
Permissive
[huy@Huy-221230859 ~]$ su -
Password:
Last login: Fri Mar 22 19:38:54 +07 2024 on pts/0
[root@Huy-221230859 ~]# setenforce Enforcing
[root@Huy-221230859 ~]#
[root@Huy-221230859 ~]#
[root@Huy-221230859 ~]# getenforce
Enforcing
[root@Huy-221230859 ~]#
[root@Huy-221230859 ~]#
[root@Huy-221230859 ~]# reboot

```

Hiển thị trạng thái của SELinux sau boot (~)\$ getenforce). Vẫn là Permissive

```

bit
bit -
huy@Huy-221230859:~
File Edit View Search Terminal Help
[huy@Huy-221230859 ~]$ getenforce
Permissive
[huy@Huy-221230859 ~]$
[huy@Huy-221230859 ~]$ s

```

```
root@Huy-221230859:~  
File Edit View Search Terminal Help  
[huy@Huy-221230859 ~]$ getenforce  
Permissive  
[huy@Huy-221230859 ~]$  
[huy@Huy-221230859 ~]$ su -  
Password:  
Last login: Fri Mar 22 19:44:55 +07 2024 on pts/0  
[root@Huy-221230859 ~]# vi /etc/selinux/config  
[root@Huy-221230859 ~]# vi /etc/selinux/config  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]# reboot
```

```
root@Huy-221230859:~  
File Edit View Search Terminal Help  
# This file controls the state of SELinux on the system.  
# SELINUX= can take one of these three values:  
#     enforcing - SELinux security policy is enforced.  
#     permissive - SELinux prints warnings instead of enforcing.  
#     disabled - No SELinux policy is loaded.  
SELINUX=enforcing  
#SELINUX=Permissive  
# SELINUXTYPE= can take one of three values:  
#     targeted - Targeted processes are protected,  
#     minimum - Modification of targeted policy. Only selected processes are pro  
tected.  
#     mls - Multi Level Security protection.  
SELINUXTYPE=targeted  
~  
~  
~  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]# getenforce  
Enforcing  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#
```

Lab5

B1

```
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]# exit  
logout  
[huy@Huy-221230859 ~]$ id  
uid=1000(huy) gid=1000(huy) groups=1000(huy) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023  
[huy@Huy-221230859 ~]$  
[huy@Huy-221230859 ~]$ su -  
Password:  
Last login: Fri Mar 22 19:53:17 +07 2024 on pts/0  
[root@Huy-221230859 ~]# id  
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]# █
```

B2

```
#  
# Min/max values for automatic uid selection in useradd  
#  
UID_MIN                1000  
UID_MAX                60000  
# System accounts  
SYS_UID_MIN            201  
SYS_UID_MAX            999  
#
```

B3

```
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]# useradd user_test  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]# passwd user_test  
Changing password for user user_test.  
New password:  
BAD PASSWORD: The password contains the user name in some form  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#
```

B4

```
[root@Huy-221230859 ~]# groupadd group_test  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]# usermod -a -G group_test user_test  
[root@Huy-221230859 ~]#  
[root@Huy-221230859 ~]#
```

B5

```

root@Huy-221230859 ~]# su - user_test
[user_test@Huy-221230859 ~]$
[user_test@Huy-221230859 ~]$
[user_test@Huy-221230859 ~]$ id
uid=1002(user_test) gid=1003(user_test) groups=1003(user_test),1004(groupp_test) co
ntext=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[user_test@Huy-221230859 ~]$
[user_test@Huy-221230859 ~]$
[user_test@Huy-221230859 ~]$

```

B6

```

For more details see su(1).
[user_test@Huy-221230859 ~]$ su - huy
Password:
su: Authentication failure
[user_test@Huy-221230859 ~]$ su - huy
Password:
Last login: Fri Mar 22 19:52:57 +07 2024 on :0
Last failed login: Fri Mar 22 20:06:28 +07 2024 on pts/0
There were 2 failed login attempts since the last successful login.
[huy@Huy-221230859 ~]$ █

```