

D1291989 洪嘉儀

Lab1-1

```
d1291989@d1291989-VirtualBox:~/文件/lab1$ make
make -C /lib/modules/4.15.0-112-generic/build M=/home/d1291989/文件/lab1 modules
make[1]: Entering directory '/usr/src/linux-headers-4.15.0-112-generic'
Building modules, stage 2.
MODPOST 1 modules
make[1]: Leaving directory '/usr/src/linux-headers-4.15.0-112-generic'
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo dmesg -C
[sudo] password for d1291989:
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo insmod lab1.ko level=3
d1291989@d1291989-VirtualBox:~/文件/lab1$ dmesg
[39698.449237] [INIT] Log level: KERN_ERR
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo dmesg -C
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo rmmod lab1.ko
d1291989@d1291989-VirtualBox:~/文件/lab1$ dmesg
[39720.386249] KERN_ERR[EXIT] Module removed at level 3
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo dmesg -C
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo insmod lab1.ko level=4
d1291989@d1291989-VirtualBox:~/文件/lab1$ dmesg
[39819.275070] [INIT] Log level: KERN_WARNING
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo dmesg -C
d1291989@d1291989-VirtualBox:~/文件/lab1$ sudo rmmod lab1.ko
d1291989@d1291989-VirtualBox:~/文件/lab1$ dmesg
[39846.025411] KERN_WARNING[EXIT] Module removed at level 4
d1291989@d1291989-VirtualBox:~/文件/lab1$
```

Lab1-2 正確

```
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo insmod lab1-2.ko username=admin
password=os123
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ dmesg | grep "Welcome"
[40852.612491] Welcome admin! Login success.
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo dmesg -C
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo rmmod lab1-2.ko
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ dmesg
[40892.355353] Module exit. Goodbye admin.
```

Lab1-2 錯誤

```
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo dmesg -C
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo insmod lab1-2.ko username=admin
password=1234
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ dmesg | grep "failed"
[41563.222103] Login failed. Please check your credentials.
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo dmesg -C
[41563.222103] Login failed. Please check your credentials.
d1291989@d1291989-VirtualBox:~/文件/lab1-2$
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo dmesg -C
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ sudo rmmod lab1-2.ko
d1291989@d1291989-VirtualBox:~/文件/lab1-2$ dmesg
[41614.090331] Module exit. Goodbye admin.
```