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# root

가 root

```

root 가 ( , ) root
가 ( ) root

```

## RHEL 6, 7

[Telnet]

```

#cat /etc/pam.d/login
auth required /lib/security/pam_securetty.so
#cat /etc/securetty
pts/0 ~ pts/x

```

```

[Telnet ] Step 1) /etc/securetty pts/0 ~ pts/x ,
Step 2) /etc/pam.d/login , ( ) #auth required
/lib/security/pam_securetty.so ( ) auth required /lib/security/pam_securetty.so

```

```

* /etc/securetty : Telnet root /etc/securetty *pts/x
PAM root /etc/securetty
pts/x

```

```

#echo > /etc/securetty

```

root /

```

Last login: Fri Jan 7 14:27:23 2022 from 192.168.230.1
[root@rhel7 ~]# telnet 192.168.230.143
Trying 192.168.230.143...
Connected to 192.168.230.143.
Escape character is '^]'.
Red Hat Enterprise Linux Server release 6.10 (Santiago)
Kernel 2.6.32-754.el6.x86_64 on an x86_64
rhel6 login: root

```

Password:  
Login incorrect

[SSH ]

Step 1) vi /etc/ssh/sshd\_config Step 2) ,

```
( ) #PermitRootLogin Yes
( ) PermitRootLogin No
```

```
가 /etc/securetty
Red Hat Enterprise Linux /etc/securetty
가
가
```

```
echo > /etc/securetty
```

KDM, GDM XDM securitytty 가 .

```
auth [user_unknown=ignore success=ok ignore=ignore default=bad]
pam_securetty.so
```

```
/etc/pam.d/gdm
/etc/pam.d/gdm-autologin
/etc/pam.d/gdm-fingerprint
/etc/pam.d/gdm-password
/etc/pam.d/gdm-smartcard
/etc/pam.d/kdm
/etc/pam.d/kdm-np
/etc/pam.d/xdm
```

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html-single/security\\_guide/index#s2-wstation-privileges-noroot](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html-single/security_guide/index#s2-wstation-privileges-noroot)

RHEL 8 tty securitytty PAM  
/etc/securetty RHEL . /etc/securetty 가  
/etc/pam.d  
pam\_securetty.so 가 /etc/securetty .

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/8/html/considerations\\_in\\_adopting\\_rhel\\_8/security\\_considerations-in-adopting-rhel-8#security\\_security](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/8/html/considerations_in_adopting_rhel_8/security_considerations-in-adopting-rhel-8#security_security)

## Root ssh login

### RHEL 6, 7

SSH SSH /etc/ssh/sshd\_config

```
#PermitRootLogin yes
PermitRootLogin no
```

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html-single/security\\_guide/index#s2-wstation-privileges-noroot](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html-single/security_guide/index#s2-wstation-privileges-noroot)

### RHEL 8

```
#PermitRootLogin yes
PermitRootLogin no
```

PermitRootLogin no - root prohibit-password - root  
가

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/8/html-single/securing\\_networks/index](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/8/html-single/securing_networks/index)

### RHEL 6

가 가 8 /etc/pam.d/passwd

```
password required pam_cracklib.so retry=3 minlen=8 minclass=4
```

가 /etc/pam.d/passwd

```
password required pam_cracklib.so retry=3 maxsequence=3 maxrepeat=3
```

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html-single/security\\_guide/index#sect-Security\\_Guide-Workstation\\_Security-Password\\_Security](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html-single/security_guide/index#sect-Security_Guide-Workstation_Security-Password_Security)

### RHEL 7

```
pam_quality /etc/pam.d/passwd 가 .
```

```
password required pam_pwquality.so retry=3
```

```
가 /etc/security/pwquality.conf 가 8 가 .
```

```
minlen = 8
minclass = 4
```

```
가 . /etc/security/pwquality.conf
```

```
maxsequence = 3
maxrepeat = 3
```

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/7/html-single/security\\_guide/index](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html-single/security_guide/index)

### RHEL 6

```
3 /etc/pam.d/system-auth 가 /etc/pam.d/password-auth 10 가 .
```

```
auth required pam_faillock.so preauth silent audit deny=3
unlock_time=600
auth sufficient pam_unix.so nullok try_first_pass
auth [default=die] pam_faillock.so authfail audit deny=3
unlock_time=600
```

가 .

```
account    required    pam_faillock.so
```

```
pam_faillock    even_deny_root    /etc/pam.d/system-auth    /etc/pam.d/password-auth
가 .
```

```
auth        required    pam_faillock.so preauth silent audit deny=3
even_deny_root unlock_time=600
auth        sufficient    pam_unix.so nullok try_first_pass
auth        [default=die] pam_faillock.so authfail audit deny=3
even_deny_root unlock_time=600

account    required    pam_faillock.so
```

```
# faillock --user <username> --reset
```

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html-single/security\\_guide/index#sect-Security\\_Guide-Workstation\\_Security-Account\\_Locking](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html-single/security_guide/index#sect-Security_Guide-Workstation_Security-Account_Locking)

### RHEL 7

```
3    가    10
/etc/pam.d/system-auth    /etc/pam.d/password-auth    auth    가 . .
```

```
1 auth        required    pam_env.so
2 auth        required    pam_faillock.so preauth silent audit deny=3
unlock_time=600 <- 가
3 auth        sufficient    pam_unix.so nullok try_first_pass
4 auth        [default=die] pam_faillock.so authfail audit deny=3
unlock_time=600 <- 가
5 auth        requisite    pam_succeed_if.so uid >= 1000 quiet_success
6 auth        required    pam_deny.so
```

가 .

```
account    required    pam_faillock.so
```

		/etc/pam.d/system-auth	/etc/pam.d/password-auth
pam_faillock	even_deny_root	가	.

```

auth      required      pam_faillock.so preauth silent audit deny=3
even_deny_root unlock_time=600
auth      sufficient    pam_unix.so nullok try_first_pass
auth      [default=die] pam_faillock.so authfail audit deny=3
even_deny_root unlock_time=600

account   required      pam_faillock.so

```

```
faillock --user <username> --reset
```

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/7/html-single/security\\_guide/index#sect-Security\\_Guide-Workstation\\_Security-Account\\_Locking](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html-single/security_guide/index#sect-Security_Guide-Workstation_Security-Account_Locking)

/etc/shadow	/etc/passwd	가 " X "
-------------	-------------	---------

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html-single/security\\_guide/index](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html-single/security_guide/index)

```

root      UID가 '0'

/etc/passwd      UID (      )      root      "UID=0"      0
UID

```

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html-single/security\\_guide/index](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html-single/security_guide/index)

**root**     **su**

"wheel"     /etc/group wheel:x:10:root,admin

```

/etc/pam.d/su #%PAM-1.0 auth sufficient pam_rootok.so # Uncomment the following line to implicitly
trust users in the "wheel" group. #auth sufficient pam_wheel.so trust use_uid #
(      ) # Uncomment the following line to require a user to be in
the "wheel" group. #auth required pam_wheel.so use_uid #

```

```

auth include system-auth account sufficient pam_succeed_if.so uid = 0 use_uid quiet
account include system-auth password include system-auth session include system-auth session
optional pam_xauth.so

```

/etc/login.defs

```

PASS_MAX_DAYS 99999          가      ( ) PASS_MIN_DAYS 0          ( )
PASS_MIN_LEN 5              PASS_WARN_AGE 7          ( )

```

/etc/passwd

/etc/group root:x:0:root

### GID

/etc/group /etc/passwd

### UID

/etc/passwd UID가

### shell

/bin/false /sbin/nologin

/etc/passwd

### Session Timeout

/etc/profile

```

HOSTNAME=`/usr/bin/hostname 2>/dev/null` HISTSIZE=5000 #
HISTTIMEFORMAT="%F %T " #                                TMOUT=300 #
if [ "$HISTCONTROL" = "ignorespace" ]; then

```

```

export HISTCONTROL=ignoreboth

```

else

```
export HISTCONTROL=ignoredups
```

fi

```
export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL HISTTIMEFORMAT TMOUT #
```

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