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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 security 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

RHEL 8 tty security PAM
 /etc/securetty RHEL . /etc/securetty 가

pam_securetty.so .
가 /etc/pam.d
/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#securetty_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

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

RHEL 6

가 가 8 /etc/pam.d/passwd

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

/etc/pam.d/passwd

가 .

```
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

RHEL 7

pam_quality /etc/pam.d/passwd 가 .

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

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

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

/etc/security/pwquality.conf

가 .

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

https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html-single/security_guide/index

RHEL 8

Red Hat Enterprise Linux 8 authconfig authselect .
/etc/pam.d/ PAM system-auth password-auth

Red Hat Enterprise Linux 8 / authselect
/etc/security/pwquality.conf / authselect

1. 가

```
# authselect list
```

2.

```
# authselect current
```

3. /

```
# authselect apply-changes -b --backup=sssd.backup
```

4. sssd password-policy

```
# authselect create-profile password-policy -b sssd
```

- /etc/authselect/custom/password-policy/ .

5.

```
# authselect select custom/password-policy
# authselect current
```

6. 가 faillock

```
# authselect enable-feature with-mkhomedir
# authselect enable-feature with-faillock
```

RHEL 8.2	pam_faillock	/etc/security/faillock.conf
faillock.conf	.	

```

: /etc/pam.d/xxxx-auth    pam_faillock.so            faillock.conf
    . faillock.conf
/etc/authselect/custom/PROFILE/xxxx-auth

```

```
# Edit {system,password,fingerprint,smartcard}-auth in
/etc/authselect/custom/password-policy/
```

(Before)

```
auth      required                                pam_env.so
auth      required                                pam_faildelay.so
delay=2000000
auth      required                                pam_faillock.so
```

```

preauth silent deny=4 unlock_time=1200
...snip...
auth      required                                pam_faillock.so
authfail  deny=4 unlock_time=1200
auth      required                                pam_deny.so
↓
(After)
auth      required                                pam_env.so
auth      required                                pam_faildelay.so
delay=2000000
auth      required                                pam_faillock.so
preauth
...snip...
auth      required                                pam_faillock.so
authfail
auth      required                                pam_deny.so

```

```

7.          /etc/authselect/custom/password-policy/
PAM          system-auth password-auth /

```

```
# authselect apply-changes
```

```
-
```

```

8.          (
/etc/authselect/custom/password-policy/system-auth
/etc/authselect/custom/password-policy/password-auth
(pam_pwquality.so )

```

```
password      requisite      pam_pwhistory.so remember=5 use_authok
```

```

9.          . /etc/authselect/custom/password-
policy/system-auth /etc/authselect/custom/password-policy/password-auth
pam_pwquality.so / 가

```

```
enforce_for_root
```

```
:          authselect apply-changes
```

```
10. /etc/security/pwquality.conf
```

```

minlen = 9
1 가)
dcredit = -1 가
ucredit = -1

```



```
lcredit = 1
ocredit = 1
minclass = 1
maxrepeat = 2
maxclassrepeat = 2
difok = 5
root
```

$$\begin{array}{llll} > 0 : & & = 0 : & < 0 : \end{array}$$

<https://access.redhat.com/solutions/5027331>

RHEL 6

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

RHEL 7

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

```
auth required pam_faillock.so      /etc/pam.d/system-auth /etc/pam.d/password-auth
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/solutions/62949>

RHEL 8

```
/etc/pam.d/system-auth    /etc/pam.d/password-auth
. authselect              pam_faillock              /
```

To enable faillock

```
# authselect enable-feature with-faillock
```

To disable faillock

```
# authselect disable-feature with-faillock
```

```
faillock    faillock    /etc/security/faillock.conf
```

```
deny=4
unlock_time=1200
silent
```

```
# faillock --user username
```

```
# faillock --user username --reset
```

```
SSHD    pam_faillock.so가    SSHD
```

```
# vi /etc/ssh/sshd_config
ChallengeResponseAuthentication yes
PasswordAuthentication no
```

```
sshd
```

```
# systemctl restart sshd
```

```
/etc/shadow          /etc/passwd          가 " X "
```

root UID가 '0'

root **su**

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

```
/etc/pam.d/su
```

<https://access.redhat.com/solutions/452213>

/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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