

| | | |
|-----------------|-------|----|
| root | ..... | 3 |
| Root ssh login | ..... | 5 |
|  | ..... | 5 |
|  | ..... | 9 |
|  | ..... | 9 |
| root | ..... | 12 |
| su | ..... | 12 |
| | , | 13 |
|  | ..... | 13 |
|  | ..... | 13 |
| | GID | 13 |
| UID | ..... | 13 |
| shell | ..... | 13 |
| Session Timeout | ..... | 13 |

root

```

root      가      root
          (      ,      ) root
          (      ,      ) root
      가

```

RHEL 6, 7

[Telnet]

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

[Telnet] Step 1) /etc/secutetty
Step 2) /etc/pam.d/login

```
(      ) #auth required /lib/security/pam_securetty.so
(      ) auth required /lib/security/pam_securetty.so
```

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

```
#echo > /etc/secutetty
```

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 .

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

KDM, GDM XDM

securetty

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 securetty 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 가 | prohibit-password - root |
|-----------------|----------------|--------------------------|

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

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
```

/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
/etc/pam.d/

authconfig authselect
PAM system-auth password-auth

Red Hat Enterprise Linux 8
/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_faidelay.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_authtok
```

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
```

```

lccredit = 1
ocredit = 1
minclass = 1
maxrepeat = 2
maxclassrepeat = 2
difok = 5
root
                가
                (
                ...),

```

> 0 : . . . < 0 :
= 0:

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

RHEL 6

```

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

```
                               /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/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      . .
```

```
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
auth required pam_faillock.so      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
```

<https://access.redhat.com/solutions/62949>

| | | |
|-------------|-------------|---------|
| /etc/shadow | /etc/passwd | 가 “ X ” |
|-------------|-------------|---------|

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

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
```

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

,

/etc/login.defs

```
PASS_MAX_DAYS    99999          #                ( )
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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