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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

[SSH] #cat /etc/sshd_config PermitRootLogin no

root /

[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 "securetty"
pts/x

[SSH] Step 1) vi "/etc/ssh/sshd_config" Step 2)
() #PermitRootLogin Yes () PermitRootLogin No

가 /etc/securetty
가 Red Hat Enterprise Linux /etc/securetty
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          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 prohibit-password

```

```
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 .
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
```

```
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

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          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
```

```
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/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

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
```

```
/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
```


