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\_ [https://atl.kr/dokuwiki/doku.php/rhel\\_%EB%B3%B4%EC%95%88\\_%EC%B7%A8%EC%95%BD%EC%A0%90\\_%EC%A0%90%EA%B2%80\\_%EA%B0%80%EC%9D%B4%EB%93%9C](https://atl.kr/dokuwiki/doku.php/rhel_%EB%B3%B4%EC%95%88_%EC%B7%A8%EC%95%BD%EC%A0%90_%EC%A0%90%EA%B2%80_%EA%B0%80%EC%9D%B4%EB%93%9C)

가

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# RHEL

# 가

RHEL

RHEL

koovis@gmail.com

## root

- : RHEL 7
- :

### root

root  
/etc/securetty

console

root

가



RHEL 8

가

[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](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)

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

```
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



root (SSH) root
SSH root login

root SSH login

/etc/ssh/sshd\_config

PermitRootLogin no

- https://access.redhat.com/documentation/en-US/Red\_Hat\_Enterprise\_Linux/6/html/Security\_Guide/chap-Security\_Guide-Securing\_Your\_Network.html#sect-Security\_Guide-Workstation\_Security-Administrative\_Controls
https://access.redhat.com/documentation/en-US/Red\_Hat\_Enterprise\_Linux/7/html/Security\_Guide/sec-Controlling\_Root\_Access.html#sec-Disallowing\_Root\_Access

Password complexity



가 가 가

- :

RHEL6

- /etc/pam.d/system-auth

```
##PAM-1.0
# This file is auto-generated.
# User changes will be destroyed the next time authconfig is run.
auth required pam_env.so
auth sufficient pam_unix.so try_first_pass nullok
auth required pam_deny.so
```

```

account    required    pam_unix.so

password   requisite   pam_cracklib.so try_first_pass retry=3 type=
minlen=8  minclass=4   # <--
password   sufficient  pam_unix.so try_first_pass use_authtok nullok
sha512 shadow
password   required    pam_deny.so

session    optional    pam_keyinit.so revoke
session    required    pam_limits.so
session    [success=1 default=ignore] pam_succeed_if.so service in crond
quiet use_uid
session    required    pam_unix.so

```

- /etc/pam.d/password-auth

```

#%PAM-1.0
# This file is auto-generated.
# User changes will be destroyed the next time authconfig is run.
auth      required    pam_env.so
auth      sufficient  pam_unix.so try_first_pass nullok
auth      required    pam_deny.so

account   required    pam_unix.so

password  requisite   pam_cracklib.so try_first_pass retry=3 type=
minlen=8  minclass=4   # <--
password  sufficient  pam_unix.so try_first_pass use_authtok nullok
sha512 shadow
password  required    pam_deny.so

session   optional    pam_keyinit.so revoke
session   required    pam_limits.so
session   [success=1 default=ignore] pam_succeed_if.so service in crond
quiet use_uid
session   required    pam_unix.so

```

```

      /etc/pam.d/passwd      . passwd
      3      . pam_cracklib

```

- [https://linux.die.net/man/8/pam\\_cracklib](https://linux.die.net/man/8/pam_cracklib)

```

      pam_cracklib.so      root      . root
      pam_passwdqc.so      .

```

```

# rpm -qf /lib64/security/pam_passwdqc.so
pam_passwdqc-1.0.5-6.el6.x86_64

```

- /etc/pam.d/system-auth

```
password requisite pam_cracklib.so try_first_pass retry=3 # <-  
cracklib  
password requisite pam_passwdqc.so min=disabled,12,8,6,5 max=40  
passphrase=3 match=4 similar=deny random=42 enforce=everyone retry=3 # <-
```

- <https://access.redhat.com/solutions/23481>

## RHEL7

```
RHEL7 pam_cracklib pam_pwquality  
/etc/security/pwquality.conf
```

- /etc/security/pwquality.conf

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

authconfig

```
# authconfig --passminlen=<number> --passminclass=<number> --  
passmaxrepeat=<number>
```

- passminlen=<number>
- passminclass=<number> ( , , , )
- passmaxrepeat=<number> ) PasssssssWord  
s
- passmaxclassrepeat=<number> ) P@ssword  
ssword

[pwquality.conf](#) . man authconfig

 root . root  
가

**root pwquality**

```

root          pwquality          /etc/pam.d/system-auth
/etc/pam.d/password-auth          .          local_users_only
          enforce_for_root          .

```

- /etc/pam.d/system-auth

```

#%PAM-1.0
# This file is auto-generated.
# User changes will be destroyed the next time authconfig is run.
auth          required          pam_env.so
auth          required          pam_faildelay.so delay=2000000
auth          sufficient        pam_unix.so nullok try_first_pass
auth          requisite        pam_succeed_if.so uid >= 1000 quiet_success
auth          required          pam_deny.so

account       required          pam_unix.so
account       sufficient        pam_localuser.so
account       sufficient        pam_succeed_if.so uid < 1000 quiet
account       required          pam_permit.so

#password     requisite          pam_pwquality.so try_first_pass local_users_only
retry=3 authtok_type= # <--
password     requisite          pam_pwquality.so try_first_pass enforce_for_root
retry=3 authtok_type= # <--
password     sufficient        pam_unix.so sha512 shadow nullok try_first_pass
use_authtok
password     required          pam_deny.so

session       optional          pam_keyinit.so revoke
session       required          pam_limits.so
-session      optional          pam_systemd.so
session       [success=1 default=ignore] pam_succeed_if.so service in crond
quiet use_uid
session       required          pam_unix.so

```

- <https://access.redhat.com/solutions/2808101>
- [https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/7/html/system-level\\_authentication\\_guide/authconfig-install](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/system-level_authentication_guide/authconfig-install)
- [https://access.redhat.com/documentation/en-US/Red\\_Hat\\_Enterprise\\_Linux/6/html/Security\\_Guide/chap-Security\\_Guide-Securing\\_Your\\_Network.html#sect-Security\\_Guide-Workstation\\_Security-Password\\_Security](https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/6/html/Security_Guide/chap-Security_Guide-Securing_Your_Network.html#sect-Security_Guide-Workstation_Security-Password_Security)
- [https://access.redhat.com/documentation/en-US/Red\\_Hat\\_Enterprise\\_Linux/7/html/Security\\_Guide/chap-Hardening\\_Your\\_System\\_with\\_Tools\\_and\\_Services.html#sec-Password\\_Security](https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html/Security_Guide/chap-Hardening_Your_System_with_Tools_and_Services.html#sec-Password_Security)
- [https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/8/html/configuring\\_authentication\\_and\\_authorization\\_in\\_rhel/configuring-user-authentication-using-](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/8/html/configuring_authentication_and_authorization_in_rhel/configuring-user-authentication-using-)

## authselect\_configuring-authentication-and-authorization-in-rhel

### RHEL6

```
/etc/pam.d/system-auth /etc/pam.d/password-auth pam_unix.so  
remember=N 가 .
```

```
password sufficient pam_unix.so md5 remember=6 shadow nullok try_first_pass  
use_authtok # <- remember=6 가
```

### RHEL7

```
/etc/pam.d/system-auth /etc/pam.d/password-auth pam_pwquality.so  
가 .
```

```
password requisite pam_pwquality.so try_first_pass local_users_only  
retry=3 authtok_type=  
password requisite pam_pwhistory.so remember=5 use_authtok # <-  
가  
password sufficient pam_unix.so sha512 shadow nullok try_first_pass  
use_authtok
```

```
RHEL7/CentOS7 /etc/security/opasswd .
```

```
echo > /etc/security/opasswd
```

- <https://access.redhat.com/solutions/66322>
- <https://access.redhat.com/solutions/2808101>



- :

### RHEL 5.3

pam.tally . /etc/pam.d/system-auth  
가 .

```
auth required pam_tally.so deny=3 onerr=fail unlock_time=1200
no_magic_root
account required pam_tally.so no_magic_root reset
```

### RHEL 5.4

pam.tally2 . /etc/pam.d/system-auth  
가 .

```
auth required pam_tally2.so deny=3 onerr=fail unlock_time=1200
no_magic_root
```

### RHEL 6

RHEL 6 pam\_faillock .

1. root 3 600 (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
```

2. account 가 .

```
account required pam_faillock.so
```

3. root 1 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

```

#### 4. faillock 가 .

```

[root@localhost ~]# faillock
john:
When           Type  Source
Valid
2013-03-05 11:44:14 TTY   pts/0
V

```

#### 5. .

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

## RHEL 7

/etc/pam.d/system-auth      /etc/pam.d/password-auth

- /etc/pam.d/system-auth

```

#%PAM-1.0
# This file is auto-generated.
# User changes will be destroyed the next time authconfig is run.
auth      required      pam_env.so
auth      required      pam_faillock.so preauth silent audit deny=3
unlock_time=600 # 가
auth      sufficient    pam_unix.so nullok try_first_pass
auth      [default=die] pam_faillock.so authfail audit deny=3
unlock_time=600 # 가
auth      requisite     pam_succeed_if.so uid >= 1000 quiet_success
auth      required      pam_deny.so

```

```

account    required    pam_faillock.so          # 가
account    required    pam_unix.so
account    sufficient   pam_localuser.so
account    sufficient   pam_succeed_if.so uid < 1000 quiet
account    required    pam_permit.so

password   requisite    pam_pwquality.so try_first_pass local_users_only
retry=3 authtok_type=
password   sufficient   pam_unix.so sha512 shadow nullok try_first_pass
use_authtok
password   required    pam_deny.so

session    optional    pam_keyinit.so revoke
session    required    pam_limits.so
-session   optional    pam_systemd.so
session    [success=1 default=ignore] pam_succeed_if.so service in crond
quiet use_uid
session    required    pam_unix.so

```

- [https://access.redhat.com/documentation/en-US/Red\\_Hat\\_Enterprise\\_Linux/6/html/Security\\_Guide/chap-Security\\_Guide-Securing\\_Your\\_Network.html#sect-Security\\_Guide-Workstation\\_Security-Administrative\\_Controls](https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/6/html/Security_Guide/chap-Security_Guide-Securing_Your_Network.html#sect-Security_Guide-Workstation_Security-Administrative_Controls)
- [https://access.redhat.com/documentation/en-US/Red\\_Hat\\_Enterprise\\_Linux/7/html/Security\\_Guide/chap-Hardening\\_Your\\_System\\_with\\_Tools\\_and\\_Services.html#sect-Security\\_Guide-Workstation\\_Security-Account\\_Locking](https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html/Security_Guide/chap-Hardening_Your_System_with_Tools_and_Services.html#sect-Security_Guide-Workstation_Security-Account_Locking)
- <https://access.redhat.com/solutions/62949>

## su

- :

wheel su

- /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

login.defs      shadow-utils


- /etc/default/useradd
- /etc/login.defs
- /usr/bin/chage
- /usr/bin/gpasswd
- /usr/bin/lastlog
- /usr/bin/newgrp
- /usr/bin/sg
- /usr/sbin/adduser
- /usr/sbin/chpasswd
- /usr/sbin/groupadd
- /usr/sbin/groupdel
- /usr/sbin/groupmems
- /usr/sbin/groupmod
- /usr/sbin/grpck
- /usr/sbin/grpconv
- /usr/sbin/grpunconv
- /usr/sbin/newusers
- /usr/sbin/pwck
- /usr/sbin/pwconv
- /usr/sbin/pwunconv
- /usr/sbin/useradd
- /usr/sbin/userdel
- /usr/sbin/usermod
- /usr/sbin/vigr
- /usr/sbin/vipw

/usr/bin/passwd  
pam.d

login.defs

- <https://access.redhat.com/solutions/66322>

- :



/etc/login.defs

pam.d . pam.d login.defs

- <https://access.redhat.com/solutions/656833>

/etc/login.defs

```
# Password aging controls:
#
#     PASS_MAX_DAYS   Maximum number of days a password may be used.
#     PASS_MIN_DAYS   Minimum number of days allowed between password
changes.
#     PASS_MIN_LEN     Minimum acceptable password length.
#     PASS_WARN_AGE   Number of days warning given before a password
expires.
#
PASS_MAX_DAYS   99999   #
PASS_MIN_DAYS   0
PASS_MIN_LEN    9       # 9
PASS_WARN_AGE   7
```

## Session Timeout

- :

/etc/profile      TMOUT      5000

```
HOSTNAME=`/usr/bin/hostname 2>/dev/null`
HISTSIZE=5000 # 5000
HISTTIMEFORMAT="%F %T " #
```

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가

```
TMOUT=300 #
if [ "$HISTCONTROL" = "ignorespace" ] ; then
    export HISTCONTROL=ignoreboth
else
    export HISTCONTROL=ignoredups
fi

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

- <https://linux-audit.com/configure-the-minimum-password-length-on-linux-systems/>

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