

RHEL 가 3

root 3

..... 3

..... 4

Password complexity 4

RHEL6 4

RHEL7 6

root pwquality 7

..... 7

..... 8

RHEL6 8

RHEL7 8

..... 8

..... 8

..... 9

RHEL 5.3 9

RHEL 5.4 9

RHEL 6 9

RHEL 7 10

..... 11

su 11

..... 11

/etc/login.defs 12

..... 13

..... 13

Session Timeout 13

..... 13

..... 14

rhel_

Last update: 2024/10/22 04:29 - 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

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

```
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

```

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/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/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_authok # <- 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_authok # <-  
가  
password sufficient pam_unix.so sha512 shadow nullok try_first_pass  
use_authok
```

```
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/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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