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RHEL

RHEL

koovis@gmail.com

### root

• :

### root

root  
/etc/securetty

console

root

가

```
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)  
SSH root login

root

## 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/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](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

```
##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_authok 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

```

```

#%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

```

```

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
```

```
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      .
```

```
##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)

### 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
```

- <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
```

```
##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_authok
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-](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

### su

- :

wheel 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

```



trust .

### /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

```
HOSTNAME=`/usr/bin/hostname 2>/dev/null`
HISTSIZE=5000 # 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 #
```

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

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