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— 2018/10/22 11:06

RHEL

RHEL

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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/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

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 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/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

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
가 . /etc/pam.d/system-auth

```
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
가 . /etc/pam.d/system-auth

```
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_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

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

```



/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` `login.defs` `pam.d`

- <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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