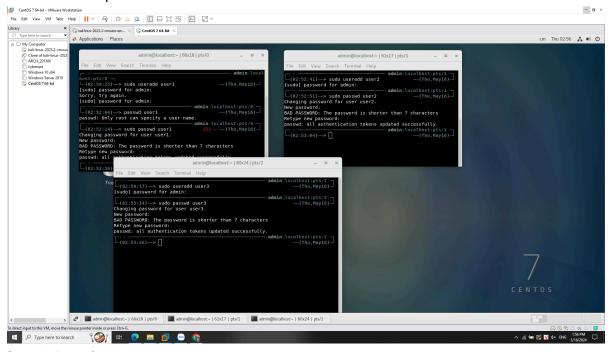
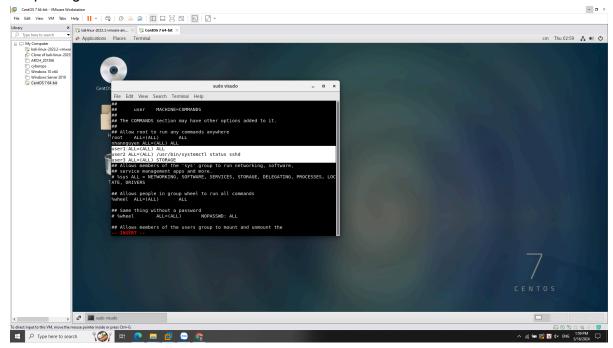
LAB 3 - Securing administrative and normal user accounts

2.1 - Assigning limited sudo privileges

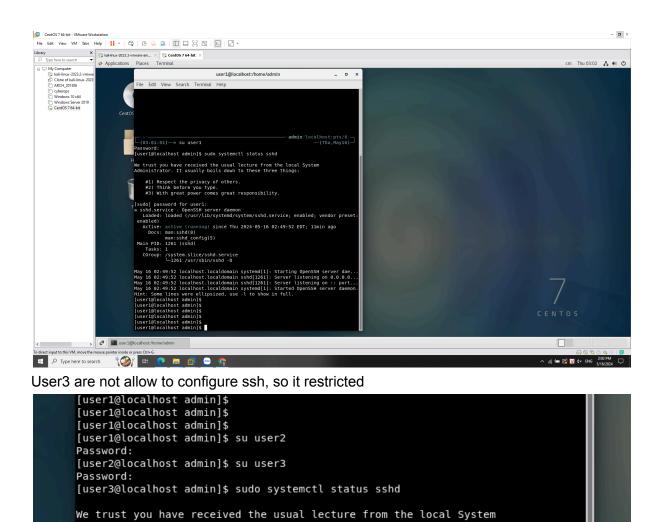
Create and set paswd for three user



Set privilege for three created user accounts



Check privilege of user



Sorry, user user3 is not allowed to execute '/bin/systemctl status sshd' as root

Administrator. It usually boils down to these three things:

#3) With great power comes great responsibility.

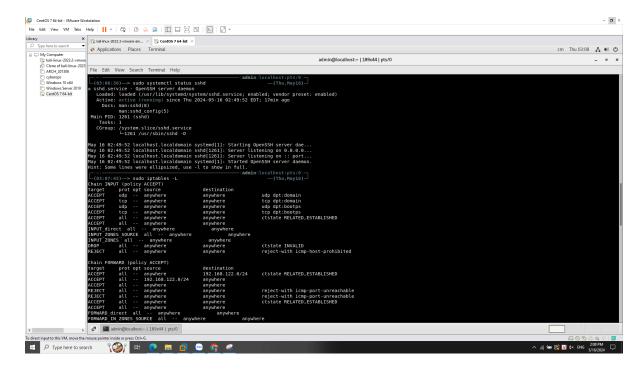
#1) Respect the privacy of others.

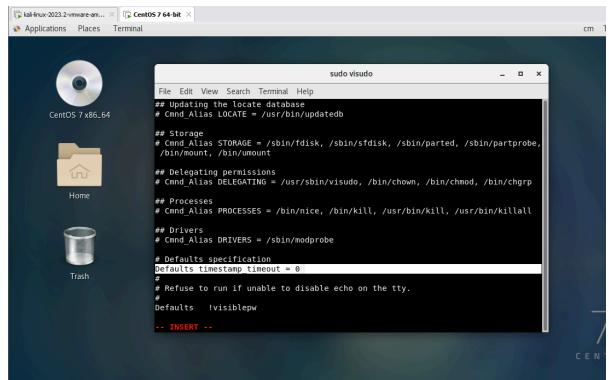
#2) Think before you type.

2.2 - Disabling the sudo timer

[sudo] password for user3:

on localhost.localdomain. [user3@localhost admin]\$





After modified "Defaults:user1 timestamp_timeout = 0 then it ask for password every time login again

```
user1@localhost:/home/admin
File Edit View Search Terminal Help
t.localdomain.
[user2@localhost admin]$ su admin
Password:
                                                       (admin@localhost:pts/0)
—(Thu,May16)
 -(03:16:34)--> sudo visudo
[sudo] password for admin:
Warning: /etc/sudoers:104 Cmnd Alias "STORAGE" referenced but not defined
                                                       (admin@localhost:pts/0)
                                                                 —(Thu,May16)—
└(03:17:15)-> su user1
Password:
[user1@localhost admin]$ sudo fdisk -l
[sudo] password for user1:
Disk /dev/sda: 21.5 GB, 21474836480 bytes, 41943040 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x000adc8a
                                                    Id System
   Device Boot
                    Start
                                  End
                                           Blocks
                              2099199
/dev/sda1 *
                    2048
                                          1048576
                                                    83
                                                        Linux
                             41943039
/dev/sda2
                  2099200
                                         19921920
                                                    8e Linux LVM
Disk /dev/mapper/centos-root: 18.2 GB, 18249416704 bytes, 35643392 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk /dev/mapper/centos-swap: 2147 MB, 2147483648 bytes, 4194304 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
[user1@localhost admin]$ S
```

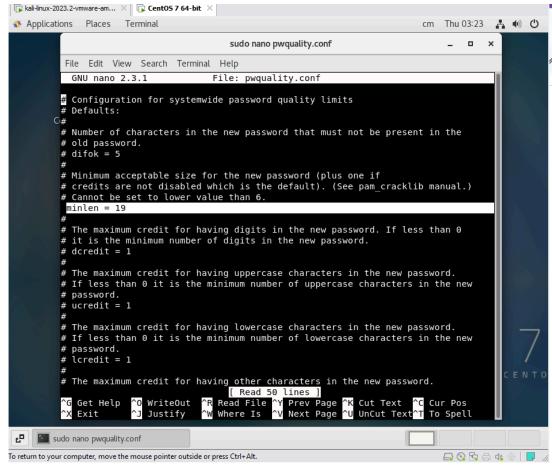
View own privilege

```
[userl@localhost admin]$ sudo -l
[sudo] password for userl:
Matching Defaults entries for userl on localhost:
    timestamp_timeout=0, !visiblepw, always_set_home, match_group_by_gid,
    always_query_group_plugin, env_reset, env_keep="COLORS DISPLAY HOSTNAME
    HISTSIZE KDEDIR LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR USERNAME LANG
    LC_ADDRESS LC_CTYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION
    LC_MEASUREMENT LC_MESSAGES", env_keep+="LC_MONETARY LC_NAME LC_NUMERIC
    LC_PAPER LC_TELEPHONE", env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS
    _XKB_CHARSET XAUTHORITY", secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

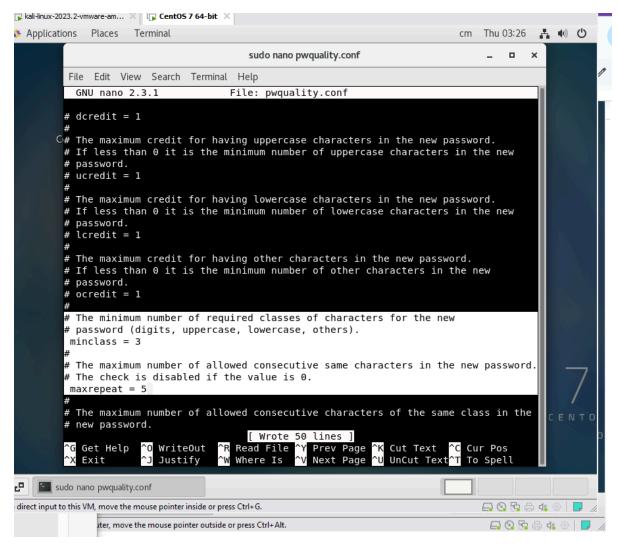
User userl may run the following commands on localhost:
    (ALL) ALL
[userl@localhost admin]$
```

3.2 - Setting password complexity criteria

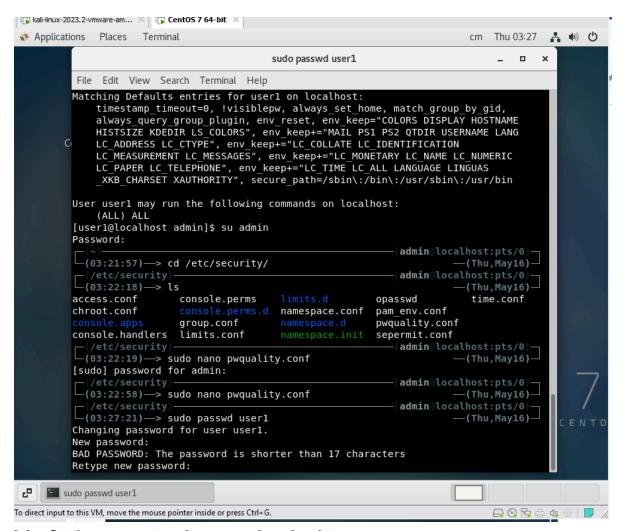
Set min-lenght for password



Change the parameter of min-class and max-repeat

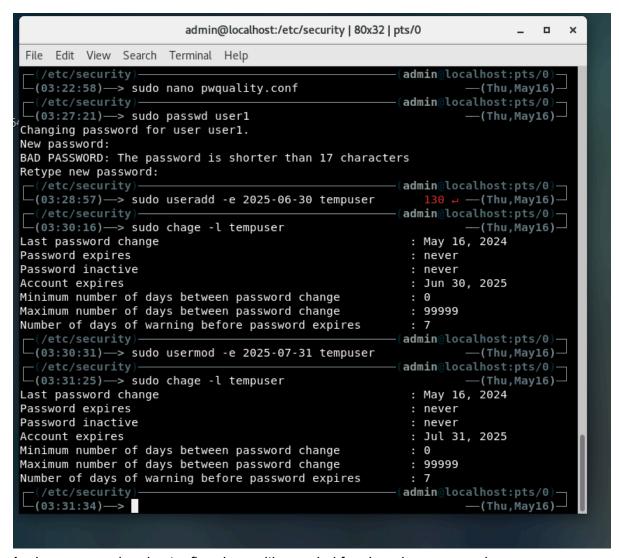


The terminal ask for re-enter new password if it mismatch the rule



3.3 – Setting account and password expiry data

I've create a tempuser which have expired day is 2025-06-30 and then change it into 2025-07-31



Assign password and set a five-day waiting period for changing passwords

```
admin@localhost:/etc/security | 80x44 | pts/0
                                                                        _ _
                                                                               ×
File Edit View Search Terminal Help
Password:
su: Authentication failure
                                                      -(admin@localhost:pts/0)-
(03:34:06)—> sudo passwd tempuser
                                                           1 ← —(Thu, May16)
Changing password for user tempuser.
New password:
BAD PASSWORD: The password contains less than 3 character classes
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password contains less than 3 character classes
Retype new password:
passwd: all authentication tokens updated successfully.
                                                      (admin@localhost:pts/0)-
  (/etc/security)-
                                                               —(Thu, May16)—
(03:35:08)—> sudo chage -m 5 -M 90 -l 2 -W 5 tempuser
Usage: chage [options] LOGIN
Options:
 -d, --lastday LAST DAY
                                set date of last password change to LAST DAY
  -E, --expiredate EXPIRE DATE set account expiration date to EXPIRE DATE
 -h, --help
                                display this help message and exit
                                set password inactive after expiration
 -I, --inactive INACTIVE
                                to INACTIVE
 -l, --list
                                show account aging information
 -m, --mindays MIN DAYS
                                set minimum number of days before password
                                change to MIN DAYS
 -M, --maxdays MAX DAYS
                                set maximum number of days before password
                                change to MAX DAYS
 -R, --root CHROOT DIR
                                directory to chroot into
 -W, --warndays WARN DAYS
                               set expiration warning days to WARN DAYS
 -(/etc/security)-
                                                      -(admin@localhost:pts/0)-
(03:35:56)—> sudo chage -m 5 -M 90 -I 2 -W 5 tempuser 2 - (Thu, May16)
                                                     —(admin@localhost:pts/0)-
                                                                —(Thu, May16)—
 -(/etc/security)-
__(03:36:15)—> sudo chage -l tempuser
Last password change
                                                        : May 16, 2024
                                                        : Aug 14, 2024
Password expires
Password inactive
                                                        : Aug 16, 2024
Account expires
                                                        : Jul 31, 2025
Minimum number of days between password change
                                                        : 5
                                                        : 90
Maximum number of days between password change
Number of days of warning before password expires
                                                        : 5
 -(/etc/security)
                                                      -(admin@localhost:pts/0)-
  (03:36:35)-->
                                                                  -(Thu, May16)-
```