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<https://youtu.be/j7GrSo7XFdQ>

User Administration

Root – Administrator – super user

- Root user has highest level of access
- Root user cannot be renamed
- Never share root password
- Don't put password in chats or text messages
- Root user access to Company Data

Creat a user

```
[root@zmpt01 ~]# useradd terminator
```

The file **/etc/passwd** gets updated

```
terminator:x:1000:1000::/home/terminator:/bin/bash
```

User	Check for password	User id –UID	Group id – GID	User info text	User home	Shell type
Terminator	x	1000	1000		/home/terminator	/bin/bash

```
[root@zmpt01 ~]# id terminator
```

```
uid=1000(terminator) gid=1000(terminator) groups=1000(terminator)
```

UID – User Id	GID – user primary group	Group User is part of
uid=1000(terminator)	gid=1000(terminator)	groups=1000(terminator)

```
[root@zmpt01 ~]# id 1000
```

```
uid=1000(terminator) gid=1000(terminator) groups=1000(terminator)
```

Switching to regular user from root



```
[root@zmpt01 ~]# su terminator
[terminator@zmpt01 root]$ whoami
Terminator
```

Set the user password

```
[root@zmpt01 ~]# passwd terminator
Changing password for user terminator.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: all authentication tokens updated successfully.

Note: root user don't have follow password restrictions, any password will be allowed
```

Set password as user terminator

```
[terminator@zmpt01 ~]$ passwd
Changing password for user terminator.
Changing password for terminator.
(current) UNIX password:
New password:
BAD PASSWORD: The password is too similar to the old one
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
```

Password file - Shadow file

```
[root@zmpt01 ~]# vi /etc/shadow
terminator:$6$pF2bCs4Z$Yifb7T/yi5uUkGm9ISpGRWxWPrXR.hwYEqbQkxOQ7npyTJpoTtjV
cWfxutdD0W4233i791Ud3Zt7Ec5t1/69C.:18601:0:99999:7:::
```

User	Password	Dec 31 1969	Grace Period	Expiration date from last update	Warning days
terminator	\$6\$pF2bCs4Z..	18601	0	60	7

Group file

```
[root@zmpt01 ~]# vi /etc/group
```



terminator:x:1000:

Group Name	Check for password	Group id - GID
Terminator	x	1000

Where is all the setting defined for users, groups and passwords?

[root@zmpt01 ~]# vi /etc/login.defs

PASS_MAX_DAYS 60
PASS_MIN_DAYS 0
PASS_MIN_LEN 5
PASS_WARN_AGE 7

UID_MIN 3000
UID_MAX 60000

GID_MIN 4000
GID_MAX 60000

[root@zmpt01 ~]# useradd xmen

[root@zmpt01 ~]# id xmen

uid=3000(xmen) gid=4000(xmen) groups=4000(xmen)

Assigning same password as a another user

[root@zmpt01 ~]# vi /etc/shadow

```
terminator:$6$87Fs/vJF$EHqhBznCvyU
5w4d3XsL6tfsaB7Q3WcDnf8xVB0.NwO
bSnBZo/Sw6KTG.qpBfvwvo.AkOajFd.PiKjuE1IAytQ::18601:0:99999:7:::
```

```
xmen:$6$87Fs/vJF$EHqhBznCvyU
5w4d3XsL6tfsaB7Q3WcDnf8xVB0.NwO
bSnBZo/Sw6KTG.qpBfvwvo.AkOajFd.PiKjuE1IAytQ::18601:0:60:1:::
```

login as: xmen



xmen@192.168.56.250's password:
Last login: Sat Dec 5 14:57:51 2020 from 192.168.56.1

Create user manually

Copy the existing line and paste in new line

```
[root@zmpt01 ~]# vi /etc/passwd
spiderman:x:5005:6005::/home/spiderman:/bin/bash
```

Create group manually

```
spiderman:x:6005:
```

Create password manually

```
[root@zmpt01 ~]# vi /etc/passwd
```

```
spiderman:$6$87Fs/vJF$EHqhBznCvyU5w4d3XsL6tfsaB7Q3WcDnf8xVB0.
NwObSnBZo/Sw6KTG.qpBfvwvo.AkOajFd.PiKjuE1IAytQ.:18601:0:60:7:::
```

Create user home directory manually

```
[root@zmpt01 home]# mkdir spiderman
```

Change the permissions for spiderman home directory

```
[root@zmpt01 home]# chown spiderman:spiderman spiderman
[root@zmpt01 home]# chown 5005:6005 spiderman
```

Change the permissions either user the name or the id's

```
[root@zmpt01 home]# ls -ls
total 0
0 drwxr-xr-x. 2 spiderman spiderman 6 Dec 5 15:16 spiderman
```

Login to user spiderman

spiderman@192.168.56.250's password:
Last login: Sat Dec 5 15:15:37 2020 from 192.168.56.1
-bash-4.2\$ pwd



/home/spiderman

.bashrc - .bash_profile - .bash_history are missing

```
-bash-4.2$ cp /etc/skel/.bash* .
```

```
-bash-4.2$ ls -la
```

```
total 12
```

```
drwxr-xr-x. 2 spiderman spiderman 62 Dec 5 15:26 .
```

```
drwxr-xr-x. 5 root root 53 Dec 5 15:16 ..
```

```
-rw-r--r--. 1 spiderman spiderman 18 Dec 5 15:26 .bash_log out
```

```
-rw-r--r--. 1 spiderman spiderman 193 Dec 5 15:26 .bash_pro file
```

```
-rw-r--r--. 1 spiderman spiderman 231 Dec 5 15:26 .bashrc
```

Difference between root user and regular user

```
[root@zmpt01 ~]# < --- # root user
```

```
[spiderman@zmpt01 ~]$ < --- $ regular user
```

SuDO access

SuDO = Super User DO

Super user access – but not full root access.

- It allows regular user to perform tasks which requires admin access

User without SuDO access

```
[terminator@zmpt01 ~]$ yum install firefox -y
```

```
Loaded plugins: fastestmirror
```

You need to be root to perform this command.

```
[terminator@zmpt01 ~]$
```

Informational

```
[root@zmpt01 ~]# visudo
```

```
## Allows people in group wheel to run all commands
```

```
%wheel ALL=(ALL) ALL < --- making sure wheel group is not
commented out
```

Grant Access to SuDO



```
[root@zmpt01 ~]# usermod -aG wheel terminator
[root@zmpt01 ~]# id terminator
uid=1000(terminator) gid=1000(terminator) groups=1000(terminator),10(wheel)
```

usermod -aG wheel terminator

Command	Adding to group	Group name/ id	User name/ user id
	-a add -G secondary group		
Usermod	-aG	Wheel	Terminator

Run sudo commands

```
[terminator@zmpt01 ~]$ sudo yum install firefox -y
[sudo] password for terminator:
```

Successfully completed
Complete!

Switch to root

```
[terminator@zmpt01 ~]$ sudo su -
Last login: Sat Nov 28 17:01:34 EST 2020 from 192.168.56.1 on pts/0
[root@zmpt01 ~]#
```