

SUDO

```
[root@localhost ~]# useradd user1
[root@localhost ~]# useradd user2
[root@localhost ~]# useradd user3
[root@localhost ~]#
[root@localhost ~]# passwd user1
Changing password for user user1.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost ~]#
[root@localhost ~]# passwd user2
Changing password for user user2.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost ~]#
[root@localhost ~]# passwd user3
Changing password for user user3.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost ~]#
[root@localhost ~]#
[root@localhost ~]# groupadd team
[root@localhost ~]#
[root@localhost ~]# useradd -G team u1
[root@localhost ~]# useradd -G team u2
[root@localhost ~]#
[root@localhost ~]# passwd u1
```

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Changing password for user u1.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@localhost ~]#

[root@localhost ~]# passwd u2

Changing password for user u2.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@localhost ~]# useradd user1

[root@localhost ~]# useradd user2

[root@localhost ~]# useradd user3

[root@localhost ~]#

[root@localhost ~]# passwd user1

Changing password for user user1.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@localhost ~]#

[root@localhost ~]# passwd user2

Changing password for user user2.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@localhost ~]#

[root@localhost ~]# passwd user3

Changing password for user user3.

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New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@localhost ~]#

[root@localhost ~]#

[root@localhost ~]# groupadd team

[root@localhost ~]#

[root@localhost ~]# useradd -G team u1

[root@localhost ~]# useradd -G team u2

[root@localhost ~]#

[root@localhost ~]# passwd u1

Changing password for user u1.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@localhost ~]#

[root@localhost ~]# passwd u2

Changing password for user u2.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@localhost ~]# vim /etc/sudoers

97 ## Allow root to run any commands anywhere

98 root ALL=(ALL) ALL

99 user1 ALL=(ALL) ALL

100 user2 ALL=(ALL)

/usr/sbin/useradd,/usr/sbin/fdisk

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```
101 user3    ALL=(ALL)
ALL,!/usr/sbin/userdel,!/usr/sbin/usermod
102
103 ## Allows members of the 'sys' group to run
networking, software,
104 ## service management apps and more.
105 # %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE,
DELEGATING, PROCESS    ES, LOCATE, DRIVERS
106
107 ## Allows people in group wheel to run all commands
108 %wheel    ALL=(ALL)        ALL
109 %team     ALL=(ALL)        ALL
```

save and quit from this file.

how to test sudo users.. ?

```
[root@localhost ~]# su - user1
Last login: Wed Jul 17 10:53:37 IST 2019 on pts/0
[user1@localhost ~]$
[user1@localhost ~]$ sudo fdisk -l
```

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

- #1) Respect the privacy of others.
- #2) Think before you type.
- #3) With great power comes great responsibility.

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```
[sudo] password for user1:
Sorry, try again.
[sudo] password for user1:
```

```
Disk /dev/sda: 32.2 GB, 32212254720 bytes, 62914560
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: 0x00095abb
```

Device	Boot	Start	End	Blocks	Id
System					
/dev/sda1	*	2048	2050047	1024000	83
Linux					
/dev/sda2		2050048	32770047	15360000	83
Linux					
/dev/sda3		32770048	36964351	2097152	82
Linux swap / Solaris					

```
[user1@localhost ~]$
[user1@localhost ~]$
[user1@localhost ~]$ sudo useradd deep
[user1@localhost ~]$ sudo userdel deep
[user1@localhost ~]$ sudo systemctl restart crond
[user1@localhost ~]$
[user1@localhost ~]$ sudo -l
Matching Defaults entries for user1 on this host:
    requiretty, !visiblepw, always_set_home, env_reset,
env_keep="COLORS
    DISPLAY HOSTNAME HISTSIZE INPUTRC KDEDIR LS_COLORS",
```

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env_kee

User user1 may run the following commands on this host:
(ALL) ALL

```
[user1@localhost ~]$  
[user1@localhost ~]$ exit  
logout
```

```
[root@localhost ~]# su - user2  
[user2@localhost ~]$
```

```
[user2@localhost ~]$ sudo fdisk -l  
[sudo] password for user2:
```

```
[user2@localhost ~]$ sudo useradd karan  
[user2@localhost ~]$  
[user2@localhost ~]$  
[user2@localhost ~]$ sudo systemctl restart crond  
Sorry, user user2 is not allowed to execute  
'/bin/systemctl restart crond' as root on  
localhost.localdomain.  
[user2@localhost ~]$  
[user2@localhost ~]$ sudo -l
```

User user2 may run the following commands on this host:
(ALL) /usr/sbin/useradd, (ALL) /usr/sbin/fdisk

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```
[root@localhost ~]# su - user3
[user3@localhost ~]$
[user3@localhost ~]$ sudo systemctl restart crond
```

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

- #1) Respect the privacy of others.
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- #3) With great power comes great responsibility.

```
[sudo] password for user3:
[user3@localhost ~]$
[user3@localhost ~]$ sudo useradd rakesh
[user3@localhost ~]$ sudo userdel rakesh
Sorry, user user3 is not allowed to execute
'/sbin/userdel rakesh' as root on localhost.localdomain.
[user3@localhost ~]$
[user3@localhost ~]$ sudo -l
```

```
LANGUAGE LANGUAS _XKB_CHARSET XAUTHORITY",
secure_path=/sbin\::/bin\::/usr/sbin\::/usr/bin
```

User user3 may run the following commands on this host:

```
(ALL) ALL, (ALL) !/usr/sbin/userdel, (ALL)
!/usr/sbin/usermod
[user3@localhost ~]$
[user3@localhost ~]$ exit
```

```
[root@localhost ~]# su - u1
```

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```
[u1@localhost ~]$  
[u1@localhost ~]$ sudo fdisk -l
```

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

- #1) Respect the privacy of others.
- #2) Think before you type.
- #3) With great power comes great responsibility.

```
[sudo] password for u1:  
Disk /dev/sda: 32.2 GB, 32212254720 bytes, 62914560  
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: 0x00095abb
```

Device	Boot	Start	End	Blocks	Id
System					
/dev/sda1	*	2048	2050047	1024000	83
Linux					
/dev/sda2		2050048	32770047	15360000	83
Linux					
/dev/sda3		32770048	36964351	2097152	82
Linux swap / Solaris					

```
[u1@localhost ~]$ exit  
logout  
[root@localhost ~]#
```


SUDO

```
[root@localhost ~]#
```

How to create sudo by using saperate file method ?

```
[root@localhost ~]#  
[root@localhost ~]# useradd soniya  
[root@localhost ~]# passwd soniya  
Changing password for user soniya.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[root@localhost ~]#  
[root@localhost ~]#  
[root@localhost ~]# vim /etc/sudoers.d/soniya
```

```
soniya  ALL=(ALL)          NOPASSWD:  ALL
```

save and quit from this file.

```
[root@localhost ~]# su - soniya  
[soniya@localhost ~]$  
[soniya@localhost ~]$ sudo fdisk -l
```

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

SUDO

- #1) Respect the privacy of others.
- #2) Think before you type.
- #3) With great power comes great responsibility.

[sudo] password for soniya:

Disk /dev/sda: 32.2 GB, 32212254720 bytes, 62914560 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: 0x00095abb

Device	Boot	Start	End	Blocks	Id
System					
/dev/sda1	*	2048	2050047	1024000	83
Linux					
/dev/sda2		2050048	32770047	15360000	83
Linux					
/dev/sda3		32770048	36964351	2097152	82
Linux swap / S					