

Sudo

```
[root@vbox ~]# passwd Sakshi
Changing password for user Sakshi.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@vbox ~]# su - Sakshi
[Sakshi@vbox ~]$ sudo useradd S1

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 Sakshi:
Sakshi is not in the sudoers file. This incident will be reported.
[Sakshi@vbox ~]$
```

```
Defaults    env_keep += "LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY"

#
# Adding HOME to env_keep may enable a user to run unrestricted
# commands via sudo.
#
# Defaults    env_keep += "HOME"

Defaults    secure_path = /sbin:/bin:/usr/sbin:/usr/bin

## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##      user    MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)        ALL
sakshi  ALL=(ALL)        NOPASSWD:ALL
## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

## Allows people in group wheel to run all commands
%wheel  ALL=(ALL)        ALL

## Same thing without a password
# %wheel    ALL=(ALL)        NOPASSWD: ALL

## Allows members of the users group to mount and unmount the
## cdrom as root
# %users    ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom

## Allows members of the users group to shutdown this system
# %users    localhost=/sbin/shutdown -h now

## Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
#includedir /etc/sudoers.d
"/etc/sudoers" [readonly] 120L, 4358B
```

```

[root@vbox ~]# vim /etc/sudoers
[root@vbox ~]# su - sakshi
[sakshi@vbox ~]$ sudo useradd s1
[sakshi@vbox ~]$ tail /etc/passwd
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:987:986:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:986:985:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:::/sbin/nologin
Raksha:x:1004:1005::/home/Raksha:/bin/bash
Mentore:x:1010:1010::/home/Mentore:/bin/bash
Jain:x:1011:1011::/home/Jain:/bin/bash
Sakshi:x:1012:1016::/home/Sakshi:/bin/bash
sakshi:x:1013:1017::/home/sakshi:/bin/bash
s1:x:1014:1018::/home/s1:/bin/bash
[sakshi@vbox ~]$

```

```

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## which machines (the sudoers file can be shared between multiple
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## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)        ALL
sakshi  ALL=(ALL)        NOPASSWD:/usr/sbin/dmidecode
## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

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# %wheel    ALL=(ALL)        NOPASSWD: ALL

## Allows members of the users group to mount and unmount the
## cdrom as root
# %users    ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom
l change; before #1 30 seconds ago

```

101,1

93%

```
[root@vbox ~]# which dmidecode
/usr/sbin/dmidecode
[root@vbox ~]# vim /etc/sudoers
[root@vbox ~]# vim /etc/sudoers
[root@vbox ~]# su - sakshi
[sakshi@vbox ~]$ sudo useradd s2
[sudo] password for sakshi:
Sorry, user sakshi is not allowed to execute '/sbin/useradd s2' as root on vbox.
[sakshi@vbox ~]$ sudo dmidecode
# dmidecode 3.6
Getting SMBIOS data from sysfs.
SMBIOS 2.5 present.
10 structures occupying 501 bytes.
Table at 0x000E1000.

Handle 0x0000, DMI type 0, 20 bytes
BIOS Information
    Vendor: innotek GmbH
    Version: VirtualBox
    Release Date: 12/01/2006
    Address: 0xE0000
    Runtime Size: 128 kB
    ROM Size: 128 kB
    Characteristics:
        ISA is supported
        PCI is supported
        Boot from CD is supported
        Selectable boot is supported
        8042 keyboard services are supported (int 9h)
```

```
[root@vbox ~]# gpasswd -M sakshi,Raksha,Mentore wheel
[root@vbox ~]# less /etc/group
```

```
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:sakshi,Raksha,Mentore
cdrom:x:11:
mail:x:12:
man:x:15:
dialout:x:18:
floppy:x:19:
games:x:20:
tape:x:33:
video:x:39:
ftp:x:50:
lock:x:54:
audio:x:63:
users:x:100:
nobody:x:65534:
utmp:x:22:
utempter:x:35:
input:x:104:
/etc/group
```

```
[root@vbox ~]# su - Mentore
[Mentore@vbox ~]$ sudo useradd user21
[Mentore@vbox ~]$ tail /etc/passwd
Raksha:x:1004:1005::/home/Raksha:/bin/bash
Mentore:x:1010:1010::/home/Mentore:/bin/bash
Jain:x:1011:1011::/home/Jain:/bin/bash
Sakshi:x:1012:1016::/home/Sakshi:/bin/bash
sakshi:x:1013:1017::/home/sakshi:/bin/bash
s1:x:1014:1018::/home/s1:/bin/bash
user1:x:1015:1019::/home/user1:/bin/bash
user2:x:1016:1020::/home/user2:/bin/bash
user20:x:1017:1021::/home/user20:/bin/bash
user21:x:1018:1022::/home/user21:/bin/bash
[Mentore@vbox ~]$
```

```
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##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)      ALL
sakshi  ALL=(ALL)      NOPASSWD:/usr/sbin/dmidecode
## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

## Allows people in group wheel to run all commands
%wheel  ALL=(ALL)      ALL

## Same thing without a password
# %wheel      ALL=(ALL)      NOPASSWD: ALL
# %sakshi     ALL=(ALL)      NOPASSWD: ALL
## Allows members of the users group to mount and unmount the
## cdrom as root
# %users  ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom
## Allows members of the users group to shutdown this system
# %users  localhost=/sbin/shutdown -h now

## Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
#include_dir /etc/sudoers.d
```