```
devuser@9e9b502b14ed: ~
                                                                                                                                                        Selecting previously unselected package libnl-3-200:amd64.
(Reading database ... 10071 files and directories currently installed.)
Preparing to unpack .../libnl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package libnl-genl-3-200:amd64.
Preparing to unpack .../libnl-genl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package htop.
Preparing to unpack .../htop_3.3.0-4build1_amd64.deb ...
Unpacking htop (3.3.0-4build1) ...
Setting up libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up htop (3.3.0-4build1) ...
Processing triggers for libc-bin (2.39-Oubuntu8.3) ...
root@9e9b502b14ed:~# htop
root@9e9b502b14ed:~# sudo apt remove htop -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
 libnl-3-200 libnl-genl-3-200
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
 htop
O upgraded, O newly installed, 1 to remove and 20 not upgraded.
After this operation, 434 kB disk space will be freed.
(Reading database ... 10095 files and directories currently installed.)
Removing htop (3.3.0-4build1) ...
root@9e9b502b14ed:~# htop
bash: /usr/bin/htop: No such file or directory
root@9e9b502b14ed:~# su - devuser
devuser@9e9b502b14ed:~$ sleep 1000 &
[1] 3638
devuser@9e9b502b14ed:~$ ps aux | grep "sleep 1000"
         3638 0.0 0.0
                           3124 1172 pts/1
                                               S
                                                    13:15
                                                            0:00 sleep 1000
devuser
devuser
         3640 0.0 0.0 4088 1940 pts/1
                                               S+
                                                    13:15
                                                            0:00 grep --color=auto sleep 1000
devuser@9e9b502b14ed:~$ kill 3638
devuser@9e9b502b14ed:~$ ps aux | grep "sleep 1000"
devuser 3642 0.0 0.0
                          4088 1924 pts/1
                                                    13:18
                                                            0:00 grep --color=auto sleep 1000
[1]+ Terminated
                              sleep 1000
devuser@9e9b502b14ed:~$
```





























```
root@9e9b502b14ed: ~
                                                                                                                                                         The following NEW packages will be installed:
 htop libnl-3-200 libnl-genl-3-200
0 upgraded, 3 newly installed, 0 to remove and 20 not upgraded.
Need to get 238 kB of archives.
After this operation, 665 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-3-200 amd64 3.7.0-0.3build1.1 [55.7 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-genl-3-200 amd64 3.7.0-0.3build1.1 [12.2 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 htop amd64 3.3.0-4build1 [171 kB]
Fetched 238 kB in 1s (195 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libnl-3-200:amd64.
(Reading database ... 10071 files and directories currently installed.)
Preparing to unpack .../libnl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package libnl-genl-3-200:amd64.
Preparing to unpack .../libnl-genl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package htop.
Preparing to unpack .../htop 3.3.0-4build1 amd64.deb ...
Unpacking htop (3.3.0-4build1) ...
Setting up libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up htop (3.3.0-4build1) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
root@9e9b502b14ed:~# htop
root@9e9b502b14ed:~# sudo apt remove htop -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
 libnl-3-200 libnl-genl-3-200
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
 htop
0 upgraded, 0 newly installed, 1 to remove and 20 not upgraded.
After this operation, 434 kB disk space will be freed
(Reading database ... 10095 files and directories currently installed.)
Removing htop (3.3.0-4build1) ...
root@9e9b502b14ed:~# htop
bash: /usr/bin/htop: No such file or directory
root@9e9b502b14ed:~#
```

























```
root@9e9b502b14ed: ~
The following NEW packages will be installed:
 htop libnl-3-200 libnl-genl-3-200
0 upgraded, 3 newly installed, 0 to remove and 20 not upgraded.
Need to get 238 kB of archives.
After this operation, 665 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-3-200 amd64 3.7.0-0.3build1.1 [55.7 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-genl-3-200 amd64 3.7.0-0.3build1.1 [12.2 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 htop amd64 3.3.0-4build1 [171 kB]
Fetched 238 kB in 1s (195 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libnl-3-200:amd64.
(Reading database ... 10071 files and directories currently installed.)
Preparing to unpack .../libnl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package libnl-genl-3-200:amd64.
Preparing to unpack .../libnl-genl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package htop.
Preparing to unpack .../htop 3.3.0-4build1 amd64.deb ...
Unpacking htop (3.3.0-4build1) ...
Setting up libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up htop (3.3.0-4build1) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
root@9e9b502b14ed:~# htop
root@9e9b502b14ed:~# sudo apt remove htop -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
 libnl-3-200 libnl-genl-3-200
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
 htop
0 upgraded, 0 newly installed, 1 to remove and 20 not upgraded.
After this operation, 434 kB disk space will be freed
(Reading database ... 10095 files and directories currently installed.)
Removing htop (3.3.0-4build1) ...
root@9e9b502b14ed:~#
```

































```
root@9e9b502b14ed: ~
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
20 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libnl-3-200 libnl-genl-3-200
Suggested packages:
  lm-sensors lsof strace
The following NEW packages will be installed:
 htop libnl-3-200 libnl-genl-3-200
0 upgraded, 3 newly installed, 0 to remove and 20 not upgraded.
Need to get 238 kB of archives.
After this operation, 665 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-3-200 amd64 <u>3.7.0-0.3build1.1 [55.7 kB]</u>
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-genl-3-200 amd64 3.7.0-0.3build1.1 [12.2 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 http://archive.ubuntu.com/ubuntu noble/main amd64 http://archive.ubuntu.com/ubuntu noble/main amd64 http://archive.ubuntu.com/ubuntu noble/main
Fetched 238 kB in 1s (195 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libnl-3-200:amd64.
(Reading database ... 10071 files and directories currently installed.)
Preparing to unpack .../libnl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package libnl-genl-3-200:amd64.
Preparing to unpack .../libnl-genl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package htop.
Preparing to unpack .../htop_3.3.0-4build1_amd64.deb ...
Unpacking htop (3.3.0-4build1) ...
Setting up libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up htop (3.3.0-4build1) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
root@9e9b502b14ed:~# htop
root@9e9b502b14ed:~#
```



















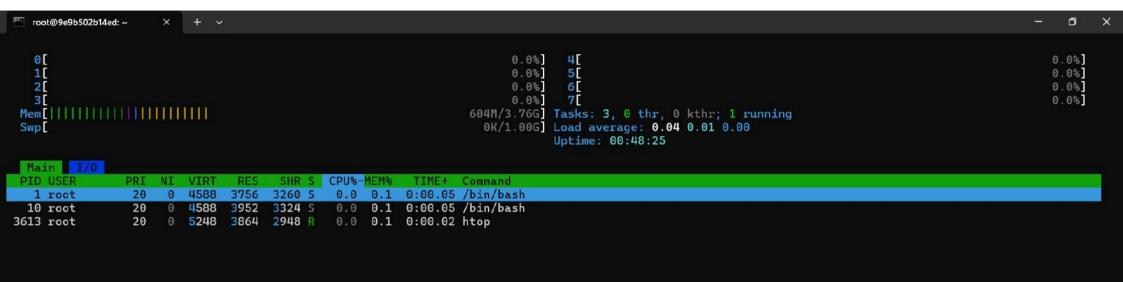












F1Help F2Setup F3SearchF4FilterF5Tree F6SortByF7Nice -F8Nice +F9Kill F10Quit





























```
root@9e9b502b14ed: ~
root@9e9b502b14ed:~# sudo apt update && sudo apt install htop -v
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
20 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 libnl-3-200 libnl-genl-3-200
Suggested packages:
  lm-sensors lsof strace
The following NEW packages will be installed:
 htop libnl-3-200 libnl-genl-3-200
0 upgraded, 3 newly installed, 0 to remove and 20 not upgraded.
Need to get 238 kB of archives.
After this operation, 665 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-3-200 amd64 3.7.0-0.3build1.1 [55.7 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnl-genl-3-200 amd64 3.7.0-0.3build1.1 [12.2 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 htop amd64 3.3.0-4build1 [171 kB]
Fetched 238 kB in 1s (195 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libnl-3-200:amd64.
(Reading database ... 10071 files and directories currently installed.)
Preparing to unpack .../libnl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package libnl-genl-3-200:amd64.
Preparing to unpack .../libnl-genl-3-200_3.7.0-0.3build1.1_amd64.deb ...
Unpacking libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Selecting previously unselected package htop.
Preparing to unpack .../htop_3.3.0-4build1_amd64.deb ...
Unpacking htop (3.3.0-4build1) ...
Setting up libnl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up libnl-genl-3-200:amd64 (3.7.0-0.3build1.1) ...
Setting up htop (3.3.0-4build1) ...
Processing triggers for libc-bin (2.39-Oubuntu8.3) ...
root@9e9b502b14ed:~#
```





























root@9e9b502b14ed: ~ o x

devuser@9e9b502b14ed:~\$ exit logout

root@9e9b502b14ed:~# free -h shared buff/cache available free total used 3.8Gi 764Mi 2.7Gi 436Mi 3.0Gi Mem: 3.4Mi

1.0Gi 0B Swap: 1.0Gi

root@9e9b502b14ed:~# top

top - 13:10:53 up 46 min, 0 user, load average: 0.00, 0.01, 0.00 Tasks: 3 total, 1 running, 2 sleeping, 0 stopped, 0 zombie

%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st MiB Mem : 3846.8 total, 2805.3 free, 765.3 used, 437.1 buff/cache

MiB Swap: 1024.0 total, 1024.0 free, 0.0 used. 3081.4 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
3438	root	20	0	8848	4944	2820	R	0.3	0.1	0:00.01	top
1	root	20	0	4588	3756	3260	S	0.0	0.1	0:00.05	bash
10	root	20	Θ	4588	3952	3324	S	0.0	0.1	0:00.03	bash



































```
devuser@9e9b502b14ed: ~
                                                                                                                                                        devuser@9e9b502b14ed:~$ nano ~/projects/hello.sh
devuser@9e9b502b14ed:~$ chmod +x ~/projects/hello.sh
devuser@9e9b502b14ed:~$ crontab -e
no crontab for devuser - using an empty one
crontab: installing new crontab
devuser@9e9b502b14ed:~$ cat ~/projects/hello_output.txt
cat: /home/devuser/projects/hello_output.txt: No such file or directory
devuser@9e9b502b14ed:~$ crontab -e
No modification made
devuser@9e9b502b14ed:~$ cat ~/projects/hello_output.txt
cat: /home/devuser/projects/hello_output.txt: No such file or directory
devuser@9e9b502b14ed:~$ crontab -l
# Edit this file to introduce tasks to be run by cron.
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
# For more information see the manual pages of crontab(5) and cron(8)
# m h dom mon dow command
* * * * * /home/devuser/projects/hello.sh
devuser@9e9b502b14ed:~$ grep CRON /var/log/syslog
grep: /var/log/syslog: No such file or directory
devuser@9e9b502b14ed:~$ ls
projects
devuser@9e9b502b14ed:~$ journalctl -u cron --no-pager --since "1 min ago"
```





























```
devuser@9e9b502b14ed: ~
no crontab for devuser - using an empty one
crontab: installing new crontab
devuser@9e9b502b14ed:~$ cat ~/projects/hello_output.txt
cat: /home/devuser/projects/hello_output.txt: No such file or directory
devuser@9e9b502b14ed:~$ crontab -e
No modification made
devuser@9e9b502b14ed:~$ cat ~/projects/hello_output.txt
cat: /home/devuser/projects/hello_output.txt: No such file or directory
devuser@9e9b502b14ed:~$ crontab -l
# Edit this file to introduce tasks to be run by cron.
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
# For more information see the manual pages of crontab(5) and cron(8)
# m h dom mon dow command
* * * * * /home/devuser/projects/hello.sh
devuser@9e9b502b14ed:~$ grep CRON /var/log/syslog
grep: /var/log/syslog: No such file or directory
devuser@9e9b502b14ed:~$ ls
projects
devuser@9e9b502b14ed:~$ journalctl -u cron --no-pager --since "1 min ago"
No journal files were found.
-- No entries --
devuser@9e9b502b14ed:~$
```



























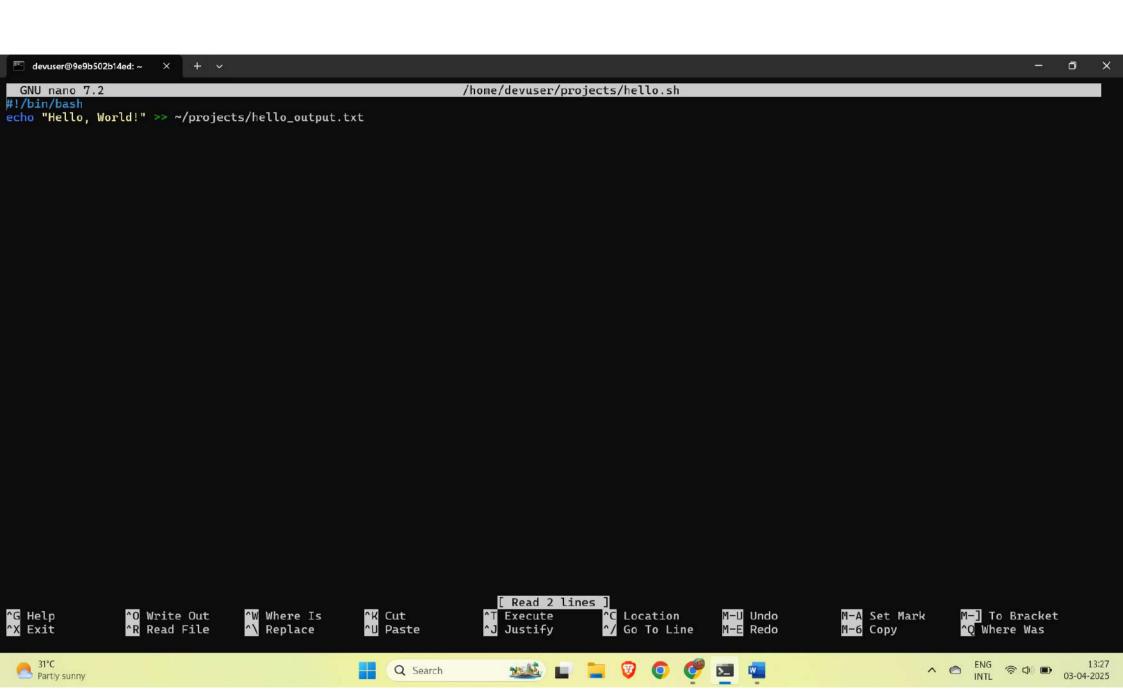


```
devuser@9e9b502b14ed: ~
                                                                                                                                                         deepak
C:\Users\Deepa>docker exec -it deepak /bin/bash
root@9e9b502b14ed:/# su ubuntu
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
ubuntu@9e9b502b14ed:/$ cd ~
ubuntu@9e9b502b14ed:~$ sudo useradd -m -d /home/devuser -s /bin/bash -c "Developer User" devuser
[sudo] password for ubuntu:
Sorry, try again.
[sudo] password for ubuntu:
Sorry, try again.
[sudo] password for ubuntu:
sudo: 3 incorrect password attempts
ubuntu@9e9b502b14ed:~$ exit
exit
root@9e9b502b14ed:/# cd ~
root@9e9b502b14ed:~# sudo useradd -m -d /home/devuser -s /bin/bash -c "Developer User" devuser
root@9e9b502b14ed:~# sudo groupadd developers
root@9e9b502b14ed:~# sudo usermod -aG developers devuser
root@9e9b502b14ed:~# id devuser
uid=1001(devuser) gid=1001(devuser) groups=1001(devuser),1002(developers)
root@9e9b502b14ed:~# groups devuser
devuser : devuser developers
root@9e9b502b14ed:~# getent group developers
developers:x:1002:devuser
root@9e9b502b14ed:~# su - devuser
devuser@9e9b502b14ed:~$ mkdir ~/projects
devuser@9e9b502b14ed:~$ chmod 770 ~/projects
devuser@9e9b502b14ed:~$ ls -ld ~/projects
drwxrwx--- 2 devuser devuser 4096 Apr 3 12:52 /home/devuser/projects
devuser@9e9b502b14ed:~$ su - devuser
Password:
su: Authentication failure
devuser@9e9b502b14ed:~$ nano ~/projects/hello.sh
devuser@9e9b502b14ed:~$ nano ~/projects/hello.sh
devuser@9e9b502b14ed:~$ chmod +x ~/projects/hello.sh
devuser@9e9b502b14ed:~$ crontab -e
-bash: crontab: command not found
devuser@9e9b502b14ed:~$
```

Q Search

黜 🝙 📜 🦁 🌀 🚰 🚾

A 31°C Partly sunny



```
devuser@9e9b502b14ed: ~
Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Deepa>docker start deepak
deepak
C:\Users\Deepa>docker exec -it deepak /bin/bash
root@9e9b502b14ed:/# su ubuntu
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
ubuntu@9e9b502b14ed:/$ cd ~
ubuntu@9e9b502b14ed:~$ sudo useradd -m -d /home/devuser -s /bin/bash -c "Developer User" devuser
[sudo] password for ubuntu:
Sorry, try again.
[sudo] password for ubuntu:
Sorry, try again.
[sudo] password for ubuntu:
sudo: 3 incorrect password attempts
ubuntu@9e9b502b14ed:~$ exit
exit
root@9e9b502b14ed:/# cd ~
root@9e9b502b14ed:~# sudo useradd -m -d /home/devuser -s /bin/bash -c "Developer User" devuser
root@9e9b502b14ed:~# sudo groupadd developers
root@9e9b502b14ed:~# sudo usermod -aG developers devuser
root@9e9b502b14ed:~# id devuser
uid=1001(devuser) gid=1001(devuser) groups=1001(devuser),1002(developers)
root@9e9b502b14ed:~# groups devuser
devuser : devuser developers
root@9e9b502b14ed:~# getent group developers
developers:x:1002:devuser
root@9e9b502b14ed:~# su - devuser
devuser@9e9b502b14ed:~$ mkdir ~/projects
devuser@9e9b502b14ed:~$ chmod 770 ~/projects
devuser@9e9b502b14ed:~$ ls -ld ~/projects
drwxrwx--- 2 devuser devuser 4096 Apr 3 12:52 /home/devuser/projects
devuser@9e9b502b14ed:~$
```































a

```
root@9e9b502b14ed: ~
Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Deepa>docker start deepak
deepak
C:\Users\Deepa>docker exec -it deepak /bin/bash
root@9e9b502b14ed:/# su ubuntu
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
ubuntu@9e9b502b14ed:/$ cd ~
ubuntu@9e9b502b14ed:~$ sudo useradd -m -d /home/devuser -s /bin/bash -c "Developer User" devuser
[sudo] password for ubuntu:
Sorry, try again.
[sudo] password for ubuntu:
Sorry, try again.
[sudo] password for ubuntu:
sudo: 3 incorrect password attempts
ubuntu@9e9b502b14ed:~$ exit
exit
root@9e9b502b14ed:/# cd ~
root@9e9b502b14ed:~# sudo useradd -m -d /home/devuser -s /bin/bash -c "Developer User" devuser
root@9e9b502b14ed:~# sudo groupadd developers
root@9e9b502b14ed:~# sudo usermod -aG developers devuser
root@9e9b502b14ed:~# id devuser
uid=1001(devuser) gid=1001(devuser) groups=1001(devuser),1002(developers)
root@9e9b502b14ed:~# groups devuser
devuser : devuser developers
root@9e9b502b14ed:~# getent group developers
developers:x:1002:devuser
root@9e9b502b14ed:~#
```





























a