

```
root@8dac0b9fe0c9: /
Microsoft Windows [Version 10.0.26100.3476]
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C:\Users\ASUS>docker run -it ubuntu /bin/bash
root@f2a08e99417d:/# useradd -m -d /home/devuser -s /bin/bash -c "Developer User" devuser
root@f2a08e99417d:/# groupadd developers
root@f2a08e99417d:/# usermod -aG developers devuser
root@f2a08e99417d:/# grep "devuser" /etc/passwd
devuser:x:1001:1001:Developer User:/home/devuser:/bin/bash
root@f2a08e99417d:/# grep "developers" /etc/passwd
root@f2a08e99417d:/# groups devuser
devuser : devuser developers
root@f2a08e99417d:/# su - devuser
devuser@f2a08e99417d:~$ mkdir ~/projects
devuser@f2a08e99417d:~$ chmod 770 ~/projects
devuser@f2a08e99417d:~$ ls -ld ~/projects
drwxrwx--- 2 devuser devuser 4096 Apr  3 07:59 /home/devuser/projects
devuser@f2a08e99417d:~$ su - devuser
Password:
su: Authentication failure
devuser@f2a08e99417d:~$ exit
logout
root@f2a08e99417d:/# su - devuser
devuser@f2a08e99417d:~$ nohup sleep 1000 &
[1] 48
devuser@f2a08e99417d:~$ nohup: ignoring input and appending output to 'nohup.out'
devuser@f2a08e99417d:~$ ps aux | grep sleep
devuser  48  0.0  0.0  3124 1080 pts/0    S   08:03   0:00 sleep 1000
devuser  50  0.0  0.0  3956 1880 pts/0    S+  08:04   0:00 grep --color=auto sleep
devuser@f2a08e99417d:~$ kill <PID>
-bash: syntax error near unexpected token `newline'
devuser@f2a08e99417d:~$ exit
logout
root@f2a08e99417d:/# nohup sleep 1000 &
[1] 52
root@f2a08e99417d:/# nohup: ignoring input and appending output to 'nohup.out'

root@f2a08e99417d:/# ps aux | grep sleep
devuser  48  0.0  0.0  3124 1080 pts/0    S   08:03   0:00 sleep 1000
root      52  0.0  0.0  2696 1068 pts/0    S   08:04   0:00 sleep 1000
root      54  0.0  0.0  3528 1608 pts/0    S+  08:05   0:00 grep --color=auto sleep
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root@8dac0b9fe0c9: /  
root@f2a08e99417d: /# nohup: ignoring input and appending output to 'nohup.out'  
  
root@f2a08e99417d: /# ps aux | grep sleep  
devuser 48 0.0 0.0 3124 1080 pts/0 S 08:03 0:00 sleep 1000  
root 52 0.0 0.0 2696 1068 pts/0 S 08:04 0:00 sleep 1000  
root 54 0.0 0.0 3528 1608 pts/0 S+ 08:05 0:00 grep --color=auto sleep  
root@f2a08e99417d: /# kill <PID>  
bash: syntax error near unexpected token `newline'  
root@f2a08e99417d: /# ps aux | grep sleep  
devuser 48 0.0 0.0 3124 1080 pts/0 S 08:03 0:00 sleep 1000  
root 52 0.0 0.0 2696 1068 pts/0 S 08:04 0:00 sleep 1000  
root 56 0.0 0.0 3528 1628 pts/0 S+ 08:06 0:00 grep --color=auto sleep  
root@f2a08e99417d: /# su - devuser  
devuser@f2a08e99417d: ~$ nano ~/projects/hello.sh  
-bash: nano: command not found  
devuser@f2a08e99417d: ~$ vim a  
-bash: vim: command not found  
devuser@f2a08e99417d: ~$ apt update nano  
E: The update command takes no arguments  
devuser@f2a08e99417d: ~$ apt update  
Reading package lists... Done  
E: List directory /var/lib/apt/lists/partial is missing. - Acquire (13: Permission denied)  
devuser@f2a08e99417d: ~$ exit  
logout  
root@f2a08e99417d: /# nano ~/projects/hello.sh  
bash: nano: command not found  
root@f2a08e99417d: /# apt update nano  
E: The update command takes no arguments  
root@f2a08e99417d: /# apt update  
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:2 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]  
Get:3 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [1068 kB]  
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:6 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [1068 kB]  
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]  
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [920 kB]  
Get:9 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [21.9 kB]  
Get:10 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]  
Get:11 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]  
Get:12 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
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Mostly cloudy



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root@8dac0b9fe0c9: /
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/pico.1.gz because associated file /usr/share/man/man1/nano.1.gz (of link group pico) does
n't exist
root@f2a08e99417d:/# nano ~/projects/hello.sh
root@f2a08e99417d:/# nano /projects/hello.sh
root@f2a08e99417d:/# nano ~/projects/hello.sh
root@f2a08e99417d:/# mkdir /projects/hello.sh
mkdir: cannot create directory '/projects/hello.sh': No such file or directory
root@f2a08e99417d:/# mkdir ~/projects/hello.sh
mkdir: cannot create directory '/root/projects/hello.sh': No such file or directory
root@f2a08e99417d:/# mkdir -p ~/projects
root@f2a08e99417d:/# touch ~/projects/hello.sh
root@f2a08e99417d:/# nano ~/projects/hello.sh
root@f2a08e99417d:/# chmod +x ~/projects/hello.sh
root@f2a08e99417d:/# crontab -e
bash: crontab: command not found
root@f2a08e99417d:/# apt update
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
25 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@f2a08e99417d:/# apt install cron -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  adduser bsdutils ca-certificates cron-daemon-common dbus dbus-bin dbus-daemon dbus-session-bus-common dbus-system-bus-common dmsetup
  gir1.2-girepository-2.0 gir1.2-glib-2.0 libapparmor1 libargon2-1 libblkid1 libcryptsetup12 libdbus-1-3 libdevmapper1.02.1 libexpat1 libfdisk1
  libgirepository-1.0-1 libglib2.0-0t64 libglib2.0-data libcicu74 libjson-c5 libkmod2 libmount1 libpython3-stdlib libpython3.12-minimal
  libpython3.12-stdlib libreadline8t64 libsmartcols1 libsqlite3-0 libssl3t64 libsystemd-shared libsystemd0 libudev1 libuuid1 libxml2 media-types mount
  netbase networkd-dispatcher openssl python3 python3-dbus python3-gi python3-minimal python3.12 python3.12-minimal readline-common shared-mime-info
  systemd systemd-dev systemd-resolved systemd-timesyncd tzdata util-linux xdg-user-dirs
Suggested packages:
  liblocale-gettext-perl perl quota ecryptfs-utils anacron logrotate checksecurity supercat default-mta | mail-transport-agent default-dbus-session-bus
  | dbus-session-bus low-memory-monitor cryptsetup-bin nfs-common iw | wireless-tools python3-doc python3-tk python3-venv python-dbus-doc python3.12-venv
  python3.12-doc binutils binfmt-support readline-doc systemd-container systemd-homed systemd-userdbd systemd-boot libfido2-1 libip4tc2 libqrencode4
  libtss2-esys-3.0.2-0 libtss2-mu-4.0.1-0 libtss2-rc0 libtss2-tcti-device0 polkitd dosfstools kbd util-linux-extra util-linux-locales
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root@8dac0b9fe0c9: /
Setting up python3-dbus (1.3.2-5build3) ...
Setting up networkd-dispatcher (2.2.4-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/networkd-dispatcher.service → /usr/lib/systemd/system/networkd-dispatcher.service.
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Processing triggers for ca-certificates (20240203) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
root@f2a08e99417d:/# crontab -e
no crontab for root - using an empty one
crontab: installing new crontab
[1]+  Done                  nohup sleep 1000
root@f2a08e99417d:/# crontab -e
crontab: installing new crontab
"/tmp/crontab.rRnjTd/crontab":2: bad minute
errors in crontab file, can't install.
Do you want to retry the same edit? (y/n) n
crontab: edits left in /tmp/crontab.rRnjTd/crontab
root@f2a08e99417d:/# exit
exit

C:\Users\ASUS>docker run -it ubuntu /bin/bash
root@8dac0b9fe0c9:/# free -h
              total        used        free      shared  buff/cache   available
Mem:           7.6Gi        833Mi        6.6Gi         4.8Mi        420Mi        6.8Gi
Swap:          2.0Gi           0B         2.0Gi

root@8dac0b9fe0c9:/# top
top - 08:26:52 up 40 min,  0 user,  load average: 0.15, 0.14, 0.09
Tasks:  2 total,   1 running,   1 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 :  7792.3 total,  6768.2 free,   841.1 used,   421.3 buff/cache
MiB Swap:  2048.0 total,  2048.0 free,    0.0 used,  6951.2 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
   10 root        20   0    8.6m   4.9m   2.8m  R   0.0   0.1   0:00.04 top
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