21 October 2024 20:18

★ Installing Docker On Window:

You can install it from google: Docker Desktop



★ Open The Terminal:

• Write first to list all the commands: docker --help

```
PS C:\Users\ayush> docker --help
Usage: docker [OPTIONS] COMMAND
 self-sufficient runtime for containers
Common Commands:
               Create and run a new container from an image Execute a command in a running container
 run
  exec
                List containers
 ps
build
                Build an image from a Dockerfile
                Download an image from a registry
  pull
                Upload an image to a registry
  push
                List images
  .
images
  login
                Log in to a registry
                Log out from a registry
Search Docker Hub for images
  logout
  search
  version
                Show the Docker version information
                Display system-wide information
  info
 lanagement Commands:
builder Manage
                Manage builds
                Docker Buildx
 buildx*
                Docker Compose
  compose*
                Manage containers
Manage contexts
  container
  context
                Get a shell into any image or container
Docker Dev Environments
  debug*
 dev*
                Manages Docker extensions
  extension*
  feedback*
                Provide feedback, right in your terminal!
```

★ Installing Docker On Linux:

• Define Version Of Ubuntu: cat /etc/os-release

```
ubuntu@ip-172-31-51-74:~$ cat /etc/os-release

PRETTY_NAME="Ubuntu 24.04 LTS"

NAME="Ubuntu"

VERSION_ID="24.04"

VERSION="24.04 LTS (Noble Numbat)"

VERSION_CODENAME=noble

ID=ubuntu

ID=ubuntu

ID=LIKE=debian

HOME_URL="https://www.ubuntu.com/"

SUPPORT_URL="https://bugs.launchpad.net/ubuntu/"

PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"

UBUNTU_CODENAME=noble

LOGO=ubuntu-logo
```

• Version Check: lsb_release -cs

```
ubuntu@ip-172-31-51-74:~$ lsb_release -cs
No LSB modules are available.
noble
```

• Verify Processor Architecture: uname -m

```
ubuntu@ip-172-31-51-74:~$ uname -m
x86_64
```

- ★ Guide: https://docs.docker.com/engine/install/ubuntu/
 - Different Architecture Installation Process Is Different.
- ★ Check the machine (Ubuntu):

Commands Are:

• To Check the Machine Name: cat /etc/os-release

• To check the version: Isb_release -cs

```
ayush-sharma@ayush-sharma-VirtualBox:~$ lsb_release -cs
No LSB modules are available.
noble
```

• To check the processor architecture: usnmae -m

```
ayush-sharma@ayush-sharma-VirtualBox:~$ uname -m
x86_64
```

★ Install Docker In CLI:

• Update Information About Packages: sudo apt-get update

```
ayush-sharma@ayush-sharma-VirtualBox:-$ sudo apt-get update
[sudo] password for ayush-sharma:
Warning: The unit file, source configuration file or drop-ins of apt-news.service changed on disk. Run 'systemctl daemon-reload' to reload units.
Warning: The unit file, source configuration file or drop-ins of esm-cache.service changed on disk. Run 'systemctl daemon-reload' to reload units.
Hit:1 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:5 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [348 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages
[323 kB]
Fetched 797 kB in 4s (226 kB/s)
Reading package lists... Done
```

• Install Some Packages: sudo apt-get install ca-certificates curl

```
ayush-sharma@ayush-sharma-VirtualBox:~$ sudo apt-get install ca-certificates cur
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203).
ca-certificates set to manually installed.
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 1 not upgraded.
Need to get 227 kB of archives.
After this operation, 532 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.
5.0-2ubuntu10.2 [227 kB]
Fetched 227 kB in 3s (67.2 kB/s)
Selecting previously unselected package curl.
(Reading database ... 147884 files and directories currently installed.)
Preparing to unpack .../curl_8.5.0-2ubuntu10.2_amd64.deb ...
Unpacking curl (8.5.0-2ubuntu10.2) ...
Setting up curl (8.5.0-2ubuntu10.2) ..
Processing triggers for man-db (2.12.0-4build2) ...
```

Other Commands:

```
ayush-sharma@ayush-sharma-VirtualBox:~$ sudo install -m 0755 -d /etc/apt/keyring s

ayush-sharma@ayush-sharma-VirtualBox:~$ sudo curl -fsSL https://download.docker.
com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc

ayush-sharma@ayush-sharma-VirtualBox:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc

ayush-sharma@ayush-sharma-VirtualBox:~$ echo \
   "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc
] https://download.docker.com/linux/ubuntu \
   $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
   sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

• Update Information About Packages:

```
ayush-sharma@ayush-sharma-VirtualBox:—$ sudo apt-get update
Warning: The unit file, source configuration file or drop-ins of apt-news.servic
e changed on disk. Run 'systemctl daemon-reload' to reload units.
Warning: The unit file, source configuration file or drop-ins of esm-cache.servi
ce changed on disk. Run 'systemctl daemon-reload' to reload units.
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:3 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [12.4 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:6 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [294 kB]
Fetched 608 kB in 2s (325 kB/s)
Reading package lists... Done
```

• Install Docker Packages: (Docker Community Engine)

```
yush-sharma@ayush-sharma-VirtualBox:-$ sudo apt-get install docker-ce docker-ce
-cli containerd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 docker-ce-rootless-extras git git-man liberror-perl libslirp0 pigz
 slirp4netns
Suggested packages:
 aufs-tools cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit
 git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
 containerd.io docker-buildx-plugin docker-ce docker-ce-cli
 docker-ce-rootless-extras docker-compose-plugin git git-man liberror-perl
 libslirp0 pigz slirp4netns
0 upgraded, 12 newly installed, 0 to remove and 2 not upgraded.
Need to get 127 MB of archives.
After this operation, 461 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io
```

• Running Docker Image: sudo docker run hello-world

• Check Images: sudo docker images

```
ayush-sharma@ayush-sharma-VirtualBox:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest d2c94e258dcb 15 months ago 13.3kB
```

• Run Another Container: sudo docker run ubuntu

```
ayush-sharma@ayush-sharma-VirtualBox:-$ sudo docker run ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
31e907dcc94a: Pull complete
Digest: sha256:8a37d68f4f73ebf3d4efafbcf66379bf3728902a8038616808f04e34a9ab63ee
Status: Downloaded newer image for ubuntu:latest
```

 (History Of Containers) Docker that exited: sudo docker ps -a sudo docker container ls -a

```
/ush-sharma@ayush-sharma-VirtualBox:~$ sudo docker
                            COMMAND
                                          CREATED
                                                           STATUS
ONTAINER ID
             IMAGE
      PORTS
                NAMES
f49f6a8026a2
                           "/bin/bash"
                                         3 minutes ago
                                                           Exited (0) 3 minutes
                serene_cartwright
ago
             hello-world "/hello"
ea3cd02ad3f
                                          25 minutes ago
                                                           Exited (0) 25 minute
                wonderful_fermi
ago
```

• Log In Ubuntu Container: sudo docker run -it ubuntu

```
ayush-sharma@ayush-sharma-VirtualBox:~$ sudo docker run -it ubuntu
root@7e249e64aa24:/#
```

Now docker in running state. You can check it using (sudo docker ps)

• List All Files In Ubuntu Container: Is

```
ayush-sharma@ayush-sharma-VirtualBox:~$ sudo docker run -it ubuntu
root@7e249e64aa24:/# ls
bin dev home lib64 mnt proc run srv tmp var
boot etc lib media opt root sbin svs usr
```

Inside Bin Files Use Command (Is bin)

• Echo Command:

```
root@7e249e64aa24:/# echo "Hello From Ubuntu Container"
Hello From Ubuntu Con<u>t</u>ainer
```

• hostname -i: It show Ip Address

```
root@7e249e64aa24:/# hostname
7e249e64aa24
root@7e249e64aa24:/# hostname -i
172.17.0.2
```

* Running BusyBox Container:

• Pull Docker Image By Run Command:

```
PS C:\Users\ayush> docker run busybox
Unable to find image 'busybox:latest' locally
latest: Pulling from library/busybox
a446fbb00284b: Pull complete
Digest: sha256:768e5c6f5cb6db0794eec98dc7a967f40631746c32232b78a3105fb946f3ab83
Status: Downloaded newer image for busybox:latest

Images Have Specific Tag
```

• List Some Commands In BusyBox Image:

```
PS C:\Users\ayush> docker run -it busybox
/ #
/ #
/ #
/ #
```

BusyBox is not a fully featured of linux and it is set of utilities of linux operating system.

```
/ # ls
bin dev
/ # ls bin
                                                         lib64 proc root sys
                                                              ifconfig
ifdown
ifenslave
ifplugd
ifup
inetd
                                                                                                                                                              test
tftp
                              dpkg
dpkg-deb
du
dumpkmap
dumpleases
                                                                                                                                                              tftpd
 acpid
add-shell
                                                                                                                              rpm
rpm2cpio
rtcwake
                                                                                              mktemp
modinfo
                                                                                                                                                              time
 ddgroup
 dduser
                                                                                                                              run-init
                                                                                                                              run-parts
runlevel
                               egrep
                                                                                                                               runsvdir
```

```
/ # echo "Hello From BusyBoc"
Hello From BusyBoc
/ # uptime
05:17:04 up 18 min, 0 users, load average: 0.01, 0.03, 0.00
/ #
```

★ Compare Alpine And Busybox:

PS C:\Users\ayush> docker run busybox PS C:\Users\ayush> docker run -it busybox / # ls						PS C:\Users\ayush> docker run alpine PS C:\Users\ayush> docker run -it alpine					
in dev etc #ls/bin	home lib	lib64 proc root	sys tmp usr		bin etc dev home	lib mnt media opt		srv tmp			
# LS /DIN	expand	link	poweroff		/ # ls /bin	media opt	root sbin				
		linux32		sync	arch	donne	hostname	makemime			
L cpid	expr factor	linux64	powertop printenv	sysctl	ash	dmesg dnsdomainnam		mkdir	pipe_progres		
dd-shell	fakeidentd	linuxrc	printf	syslogd tac	base64	dumpkmap	iostat	mknod		stty su	
ddgroup	fallocate	ln	prince	tail	bbconfig	echo	ipcalc	mktemp	ps pwd	sync	
dduser	false	loadfont	pscan	tar	busybox	egrep	kbd mode	more	reformime	tar	
djtimex	fatattr	loadkmap	pstree	taskset	cat	false	kill	mount	rev	touch	
r	fbset	logger	pwd	tc	chattr	fatattr	link	mountpoint		true	
rch	fbsplash	login	pwdx	tcpsvd	chgrp	fdflush	linux32	mpstat	rmdir	umoun	
rp	fdflush	logname	raidautorun	tee	chmod	fgrep	linux64	mv	run-parts	uname	
rping	fdformat	logread	rdate	telnet	chown	fsync	ln	netstat	sed	uslee	
scii	fdisk	losetup	rdev	telnetd	cp	getopt	login	nice	setpriv	watch	
sh	fgconsole	lpd	readahead	test	date	grep	ls	pidof	setserial	zcat	
vk	fgrep	lpq	readlink	tftp	dd	gunzip	lsattr	ping	sh	Lcac	
ise32	find	lpr	readprofile	tftpd	df	gzip	lzop	ping6	sleep		
ise64	findfs	ls	realpath	time	/ # cat /etc/		crob.	Pango	эссер		
asename	flock	lsattr	reboot	timeout	NAME="Alpine						
	fold	lsmod	reformime	top	ID=alpine						
ep	free	lsof	remove-shell	touch	VERSION_ID=3.	20.3					
lkdiscard	freeramdisk	lspci	renice			'Alpine Linux v	3.20"				
lkid	fsck	lsscsi	reset	traceroute		ps://alpinelin					
lockdev	fsck.minix	lsusb	resize	traceroute6			lab.alpinelinux	.org/alpine/a	ports/-/issues"		
ootchartd	fsfreeze	lzcat	resume	tree	/ # ls etc			2			
rctl	fstrim	lzma	rev	true	alpine-releas	e inittab	network	prot	ocols ssl:	1.1	
	fsync			truncate	apk	issue	nsswitch	.conf reso	lv.conf syst	tl.conf	
usybox	ftpd	makedevs	rmdir		busybox-paths	.d logrotate.	d opt		ixes.d sys	tl.d	
zcat	ftpget	makemime	rmmod	tsort	crontabs	modprobe.d	os-relea	se secu	retty udho		
zip2	ftpput		route		fstab	modules	passwd	serv	ices		
al	fuser	md5sum	rpm	ttýsize	group	modules-lo	ad.d periodic	shad	OW		
at	getconf	mdev	rpm2cpio	tunctl	hostname	motd	profile	shel	ls		
	getfattr	mesg	rtcwake		hosts	mtab	profile.				
	getopt	microcom		ubidetach	/ # ls -la bi						
ngrp	getty		run-parts	ubimkvol	total 800						
hmod	grep	mkdir	runlevel	ubirename	drwxr-xr-x	2 root ro		6 Sep 6 11:3			
	groups	mkdosfs		ubirmvol	drwxr-xr-x	1 root ro		6 Oct 5 05:3			
npasswd	gunzip	mke2fs		ubirsvol	lrwxrwxrwx	1 root ro			4 arch -> /bin/bև		
ıpst	gzip	mkfifo		ubiupdatevol	lrwxrwxrwx	1 root ro			4 ash -> /bin/bus		
	halt	mkfs.ext2	script	udhepe	lrwxrwxrwx	1 root ro			4 base64 -> /bin,		
	hd	mkfs.minix	scriptreplay	udhcpc6	lrwxrwxrwx	1 root ro			4 bbconfig -> /b:	in/busybo	
	hdparm	mkfs.vfat		udhcpd	-rwxr-xr-x	1 root ro		2 Jun 10 07:1			
		mknod	seedrng	udpsvd	lrwxrwxrwx	1 root ro			4 cat -> /bin/bus		
	hexdump	mkpasswd	sendmail		lrwxrwxrwx	1 root ro			4 chattr -> /bin,		
mp	hexedit	mkswap	seq	umount	lrwxrwxrwx	1 root ro			4 chgrp -> /bin/b		
omm		mktemp		uname	lrwxrwxrwx	1 root ro			4 chmod -> /bin/l		
onspy	hostname	modinfo		unexpand	lrwxrwxrwx	1 root ro			4 chown -> /bin/b		
р	httpd	modprobe	setfattr		lrwxrwxrwx	1 root ro	ot 1	2 Sep. 6 11:3	4 cp -> /bin/busy	thoy	

```
12 Sep 6 11:34 date -> /bin/busybox
12 Sep 6 11:34 dd -> /bin/busybox
12 Sep 6 11:34 date -> /bin/busybox
12 Sep 6 11:34 date -> /bin/busybox
12 Sep 6 11:34 fatse -> /bin/busybox
12 Sep 6 11:34 grep -> /bin/busybox
12 Sep 6 11:34 grep -> /bin/busybox
12 Sep 6 11:34 grep -> /bin/busybox
12 Sep 6 11:34 grap -> /bin/busybox
12 Sep 6 11:34 unice -> /bin/busybox
12 Sep 6 11:34 unice -> /bin/busybox
12 Sep 6 11:34 lanice -> /bin/busybox
12 Sep 6 11:34 lanice -> /bin/busybox
12 Sep 6 11:34 linuxde -> /bin/busybox
12 Sep 6 11:34 linuxd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      more
mount
mountpoint
mpstat
mt
mv
nameif
nanddump
nandwrite
nbd-client
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              setkeycodes
setkogcons
setpriv
setserial
setsid
setuidgid
shalsum
sha35sum
sha35sum
sha35sum
sha512sum
showkey
sha512sum
showkey
sha512sum
showkey
sha51client
schred
sleep
softlimit
sort
sum
start-stop-daemon
start-stop-daemon
start
stry
su
sulogin
sum
sv
sv
svogd
svogd
swapoff
swapon
switch_root
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nandmrite
nc
netstat
nice
nl
nmeter
nohup
nologin
nproc
nsenter
nsloskup
ntpd
od
openvt
partprobe
passwd
paste
patch
pgrep
pidof
ping
ping
ping
ping
ping
ping
pipe_progress
pivot_root
pkill
pmap
popmaildir
dos2unix ipcrm openvt statt-stop-daem dpkg ipcs partprobe stat dpkg ipcs partprobe stat dpkg-deb iplink passwd strings du ipneigh paste stty dumpkmap iproute patch su dumpleases iprule parch su dumpleases iprule pidof sum cd kbd_mode ping sv superp kill ping6 sv superp kill superprogress svlogd supervisidgid last ping6 sv swapoff envuidgid last pamp swapon sv superproduct cat can't open '/etc/os-release': No such file or directory /# ls etc group hosts mtab nsswitch.conf resolv.conf hostname localtime network passwd shadow
                                                                                                                                                                                                                                                                                                                                           /#1s-la bin
total 408284

drwxx-xr-x 2 root
drwxx-xr-x 405 root
-rwxr-xr-x 405 root
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12 Sep 6 11:34 rm -> /bin/busybox
12 Sep 6 11:34 rmdir -> /bin/busybox
12 Sep 6 11:34 rmdir -> /bin/busybox
12 Sep 6 11:34 star-y- /bin/busybox
12 Sep 6 11:34 setp-y- /bin/busybox
12 Sep 6 11:34 setp-riv -> /bin/busybox
12 Sep 6 11:34 setp-riv -> /bin/busybox
12 Sep 6 11:34 setp-riv -> /bin/busybox
12 Sep 6 11:34 star-> /bin/busybox
12 Sep 6 11:34 true-> /bin/busybox
12 Sep 6 11:34 urae-> /bin/busybox
12 Sep 6 11:34 watch-> /bin/busybox
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        copyright notices.
Usage: busybox [function [arguments]...]
or: busybox --list[-full]
or: busybox --install [-s] [DIR]
or: function [arguments]...

BusyBox is a multi-call binary that combines many common Unix
utilities into a single executable. Most people will create a
link to busybox for each function they wish to use and BusyBox
will act like whatever it was invoked as.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   will act like whatever it was invoked as.

Currently defined functions:
[, [[, acpid, add-shell, addgroup, adduser, adjtimex, arch, arp, arping, ash, awk, base64, basename, bbconfig, bc, beep, blkdiscard, blkdi, blockdev, brtl, bunzip2, bccat, bzip2, ca cat, chattr, chprp, choud, choun, chassad, chroot, chvt, cksum, clear, cmp, comp, cpio crond, crontab, cryptpm, cut, date, dc, dd, deallocvt, delgroup, deluser, depmod, df, diff, dirname, dmesg, dnsdomainname, dosZunix, du, dumpkmap, echo, egrep, eject, env, ether-wake, expand, expr, factor, fallocate, false, fatattr, fbset, fbsplash, fdflush, fdisk, fgrep, find, findfs, flock, fold, free, fsck, fstrim, fsync, fuser, getopt, getty, grep, groups, gunzip, gzip, halt, hd, head, hexdump, hostid, hostname, hwclock, dd, ifconfig, ifdown, ifenslave, ifup, init, initvifyd, insmod, install, ionice, iostat, ip, janddr, ipcalc, ipcrm ipcs, iplink, ipneigh, iproute, iprule, iptunet, kbd, mode, kill, killall, killalls, klog, last, less, link, linux22, linux64, ln, loadfont, loadkmap, logger, login, logread, losetup ls, lsattr, lsmod, lsof, lsusb, lzcat, lzma, lzop, lzopcat, makemime, mdSsum, mdev, mesg, microcom, middir, middosfs, mkfifo, mkfs.vfat, mknod, mkpasswd, mkswap, mkteep, modinfo, modprobe, more, mount, mountpoint, mpstat, mv, nameif, nanddump, nandwrite, nbd-client, nc,
```