Name: Laxmi Swami

Topic: Docker Volume & Sharing volume & Create customized image.

Install docker in ubuntu OS. curl -fsSL

https://get.docker.com -o install-docker.sh sh install-

docker.sh docker version: 28.3.2 git version: 2.43.0

- create one directory: mkdir aws
- Create docker volume
- Docker run –name cont1 -v /aws -it imageid Check that "/aws" is mounted in docker.

```
Memory usage: 25%

Memory usage: 0%

IPv4 address for ens5: 172.31.95.43

Expanded Security Maintenance for Applications is not enabled.

Uupdates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.

ubuntu@ip-172-31-95-43:-5 ubuntu@ip-172-31-95-43:-5 ubuntu@ip-172-31-95-43:-5 ubuntu@ip-172-31-95-43:-# ls snap root@ip-172-31-95-43:-# ls snap root@ip-172-31-95-43:-# | ssnap root@ip-172-31-
```

1. Create files & directories in container inside /data.

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 To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-95-43:~$
ubuntu@ip-172-31-95-43:~$
ubuntu@ip-172-31-95-43:~$ sudo su -
root@ip-172-31-95-43:-# ls
   snap
root@ip-172-31-95-43:~# git --version
 snap
git version 2.43.0
git version 2.43.0
root@ip-172-31-95-43:~# git --version
git version 2.43.0
root@ip-172-31-95-43:~#
root@ip-172-31-95-43:~#
root@ip-172-31-95-43:~#
root@ip-172-31-95-43:~#
http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [60 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [163 kB]

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Proot@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
sudo sh install-docker.sh

# Executing docker install script, commit: 8555c7c554f6c7e4b2e67dd644b4dc46297330c2
+ sh -c apt-get -qq update >/dev/null
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get -y -qq install ca-certificates curl >/dev/null
+ sh -c install -m 0755 -d /etc/apt/keyrings
+ sh -c curl -fssL "https://download.docker.com/linux/ubuntu/gpg" -o /etc/apt/keyrings/docker.asc
+ sh -c chmod a+r /etc/apt/keyrings/docker.asc
+ sh -c chmod a+r /etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu noble s
table" > /etc/apt/sources.list.d/docker.list
+ sh -c apt-get -qq update >/dev/null
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get -y -qq install docker-ce docker-ce-cli containerd.io docker-compose-plu
gin docker-ce-rootless-extras docker-buildx-plugin docker-model-plugin >/dev/null
Scanning processes...

Scanning linux images...
+ sh -c docker version
Client: Docker Engine - Community
Version: 28.3.2
API version: 28.3.2
API version: gol.24.5
Git commit: 578ccf6
Built: Wed Jul 9 16:13:45 2025
OS/Arch: linux/amd64
Context: default
   Server: Docker Engine - Community
   server: DOCKER
Engine:
Version:
API version:
Go version:
Git commit:
Built:
OS/Arch:
                                                                                                 28.3.2
1.51 (minimum version 1.24)
go1.24.5
e77ff99
Wed Jul 9 16:13:45 2025
linux/amd64
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```

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In that aws directory create some files:

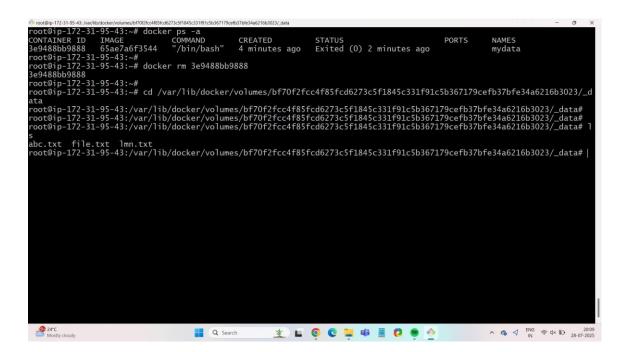
```
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```

- Check the mount location for con1 container use following command:.
- Docker inspect con1

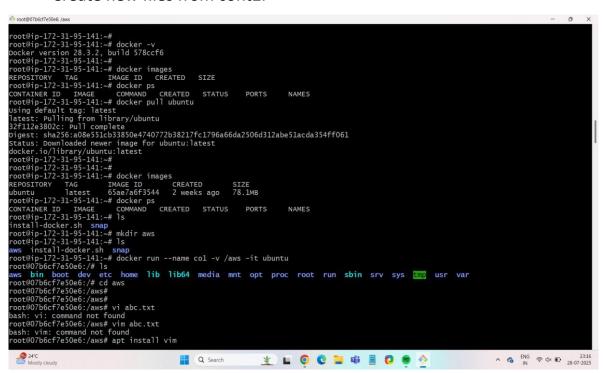
```
abc.txt file.txt
root@3e9488bb9888:/aws# echo "hello" > lmn.txt
root@3e9488bb9888:/aws# cat lmn.txt
nello
root@3e9488bb9888:/aws# cd ..
root@3e9488bb9888:/# exit
exit
root@ip-172-31-95-43:~#
root@ip-172-31-95-43:~#
root@ip-172-31-95-43:~#
root@ip-172-31-95-43:~# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS POR
root@ip-172-31-95-43:~# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED
3e9488bb9888 65ae7a6f3544 "/bin/bash" 2 minutes ago
root@ip-172-31-95-43:~# docker inspect 3e9488bb9888
                                                                                                                      STATUS
Exited (0) 25 seconds ago
                                                                                                                                                                              PORTS
                                                                                                                                                                                                  NAMES
                                                                                                                                                                                                  mydata
              "Id": "3e9488bb98885e25b1f6ff5bc33182c705ca243a4a8bbd49423b19577e711879",
"Created": "2025-07-28T14:34:02.348705237Z",
"Path": "/bin/bash",
"Args": [],
"State": [],
"Status": "exited",
"Running": false,
"Paused": false,
"Restarting": false,
"OOMKilled": false,
"Dead": false,
"Pid": 0,
"ExitCode": 0,
"ExitCode": 0,
"Error": "",
"Statusdat", "2025-07-28T14:34:02 4419551587"
                        "Error": "",
"StartedAt": "2025-07-28T14:34:02.441955158Z",
"FinishedAt": "2025-07-28T14:36:26.964353051Z"
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 root@ip-172-31-95-43:
 /merged",
 diff",
                               "workDir": "/var/lib/docker/overlay2/ba5efcf008fef802ac363791a133710cf22022a75e5f9d7416a7596a5b2168a5/
 vork"
                       },
"Name": "overlay2"
               },
"Mounts": [
                                "Type": "volume",
"Name": "bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023",
"Source": "/var/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_d
 ita".
                                'Destination": "/aws",
'Driver": "local",
                                "Driver": "
"Mode": "",
"RW": true,
                                Propagation": ""
             "Config": {
    "Hostname": "3e9488bb9888",
    "Domainname": "",
    "User": "",
    "AttachStdin": true,
    "AttachStdout": true,
    "AttachStderr": true,
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```

- If your container is exit or stop then use following command for start container & copy source:
- Go to the source location and check the files & dir created in container.



```
Toot@ip-172-31-95-43:-# docker ps -a
CONTAINER ID IMAGE
COMMAND
CREATED
STATUS
S1ATUS
PORTS
NAMES
3e9488bb9888
65ae7a6f3544
"/bin/bash" 4 minutes ago Exited (0) 2 minutes ago mydata
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:-#
root@ip-172-31-95-43:/war/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
root@ip-172-31-95-43:/var/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
root@ip-172-31-95-43:/var/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
root@ip-172-31-95-43:/var/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
sbc.txt file.txt lmn.txt
root@ip-172-31-95-43:/var/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
root@ip-172-31-95-43:/var/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
cot@ip-172-31-95-43:/var/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
cot@ip-172-31-95-43:/war/lib/docker/volumes/bf70f2fcc4f85fcd6273c5f1845c331f91c5b367179cefb37bfe34a6216b3023/_data#
cot@ip-172-31-95-43:/#
root@ip-172-31-95-43:/#
root@ip-172-31-95
```

- Volume sharing by con2 or con3
- Create new container with volume sharing from con1.
- Docker run –name con2 –volumes-from con1 -it ubuntu
- Docker run –name con3 –volumes-from con1 -it ubuntu
- Check whether the files of con1 are visible.
- Create new files from cont2.



```
prote®/Debrot/Fe50e6:/aws# cd ..
root®/Debrot/Fe50e6:/aws# cd ..
root®/Debrot/Fe50e6:/aws# cd wws
root®/Debrot/Fe50e6:/aws# touch abc.txt cds.txt
root®/Debrot/Fe50e6:/aws# touch abc.txt cds.txt
root®/Debrot/Fe50e6:/aws# cd ..
root®/Debrot/Fe50e6:/aws# cd
```

- Now use docker attach con1 command for run container:
- In con3 we will create one file con3.txt this data will visible on con1 and con2 also

