

Docker Task

Task Description:

Install docker on EC2 and explore the docker commands (docker images, containers, volumes, network)

Techstacks needs to be used :

- AWS EC2
- Docker

Docker Setup:

The screenshot shows the AWS Management Console interface for the EC2 service. On the left, a navigation sidebar lists various services under the EC2 category, including Instances, Images, and Elastic Block Store. The main content area displays a table titled "Instances (1) Info" showing one instance named "DockerGuvi" with the ID "i-031aeac430c255243c". The instance is listed as "Running" with the type "t2.micro". A "Launch instances" button is visible at the top right of the table.

Below the table, a section titled "Select an instance" is shown, which is currently empty. At the bottom of the page, there is a footer with links to CloudShell, Feedback, and various AWS services, along with system status indicators like the date and time (12-05-2025), weather (31°C Sunny), and language (ENG IN).

The lower half of the screenshot shows a MobaXterm window titled "44.246.181.70 (ubuntu)". The terminal session is connected to an Ubuntu 20.04 LTS server. The welcome message indicates X11-forwarding is enabled. The terminal displays standard system information, security status, and a note about available updates. The bottom of the terminal window shows the command prompt "ubuntu@ip-172-31-23-162:~\$".

The screenshot shows a MobaXterm window titled "44.246.181.70 (ubuntu)". The terminal session is named "dockersetup.sh *". The script being run is as follows:

```
# Add Docker's official GPG key:  
sudo apt-get update  
sudo apt-get install ca-certificates curl  
sudo install -m 0755 -d /etc/apt/keyrings  
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc  
sudo chmod axr /etc/apt/keyrings/docker.asc  
  
# Add the repository to Apt sources:  
echo "sudo apt-get update  
  
# Install Docker packages  
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin  
  
# Adding Docker Group and User  
sudo groupadd docker  
sudo usermod -aG docker $USER  
newgrp docker
```

The terminal window includes a file browser sidebar on the left and a toolbar at the bottom with various icons and keyboard shortcuts. The status bar at the bottom right shows "UNREGISTERED VERSION - Please support MobaTerm by subscribing to the professional edition here: <https://mobaterm.mobatek.net>".

```

System load: 0.14 Processes: 108
Usage of /: 25.0% of 6.71GB Users logged in: 0
Memory usage: 24% IPv4 address for enX0: 172.31.23.162
Swap usage: 0% 

Expanded Security Maintenance for Applications is not enabled.
0 updates 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.

/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-23-162:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-23-162:~$ ls -ltr
total 0
ubuntu@ip-172-31-23-162:~$ nano dockersetup.sh
ubuntu@ip-172-31-23-162:~$ nano dockersetup.sh
ubuntu@ip-172-31-23-162:~$ ls -ltr
total 4
-rw-rw-r-- 1 ubuntu ubuntu 844 May 12 04:36 dockersetup.sh
ubuntu@ip-172-31-23-162:~$ chmod +x dockersetup.sh
ubuntu@ip-172-31-23-162:~$ ls -ltr
total 4
-rwxrwxr-x 1 ubuntu ubuntu 844 May 12 04:36 dockersetup.sh
ubuntu@ip-172-31-23-162:~$ ./dockersetup.sh

```

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```

Preparing to unpack .../6-docker-compose-plugin_2.35.1-1~ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-compose-plugin (2.35.1-1~ubuntu.24.04-noble) ...
Selecting previously unselected package libltdl7:amd64 ...
Preparing to unpack .../7-libltdl7.2.4.7-7build1_amd64.deb ...
Unpacking libltdl7:amd64 (2.4.7-7build1) ...
Selecting previously unselected package libslirp0:amd64 ...
Preparing to unpack .../8-lbslirp0_4.7.0-1ubuntu3_amd64.deb ...
Unpacking libslirp0:amd64 (4.7.0-1ubuntu3) ...
Selecting previously unselected package slirpnetns ...
Preparing to unpack .../9-slirp4netns_1.2.1-1build2_amd64.deb ...
Unpacking slirp4netns (1.2.1-1build2) ...
Setting up libltdl7:amd64 (2.4.7-7build1) ...
Setting up containedr.id (1.7.27-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.35.1-1~ubuntu.24.04-noble) ...
Setting up libltdl7:amd64 (2.4.7-7build1) ...
Setting up docker-ce-cli (5:28.1.1-1~ubuntu.24.04-noble) ...
Setting up libslirp0:amd64 (4.7.0-1ubuntu3) ...
Setting up pigz (2.8-1) ...
Setting up docker-ce-rootless-extras (5:28.1.1-1~ubuntu.24.04-noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:28.1.1-1~ubuntu.24.04-noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4ubuntu0.4) ...
Processing triggers for libc-bin (2.39-0ubuntu0.4) ...
Scanning processes ...
Scanning linux images ...

Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
groupadd: group `docker` already exists
ubuntu@ip-172-31-23-162:~$ docker --version
Docker version 28.1.1, build 4eba377
ubuntu@ip-172-31-23-162:~$ 
```

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Docker Images:

httpd Docker Official Image · 1B+ · 4.9K
The Apache HTTP Server Project

WEB SERVERS

Overview Tags

Quick reference

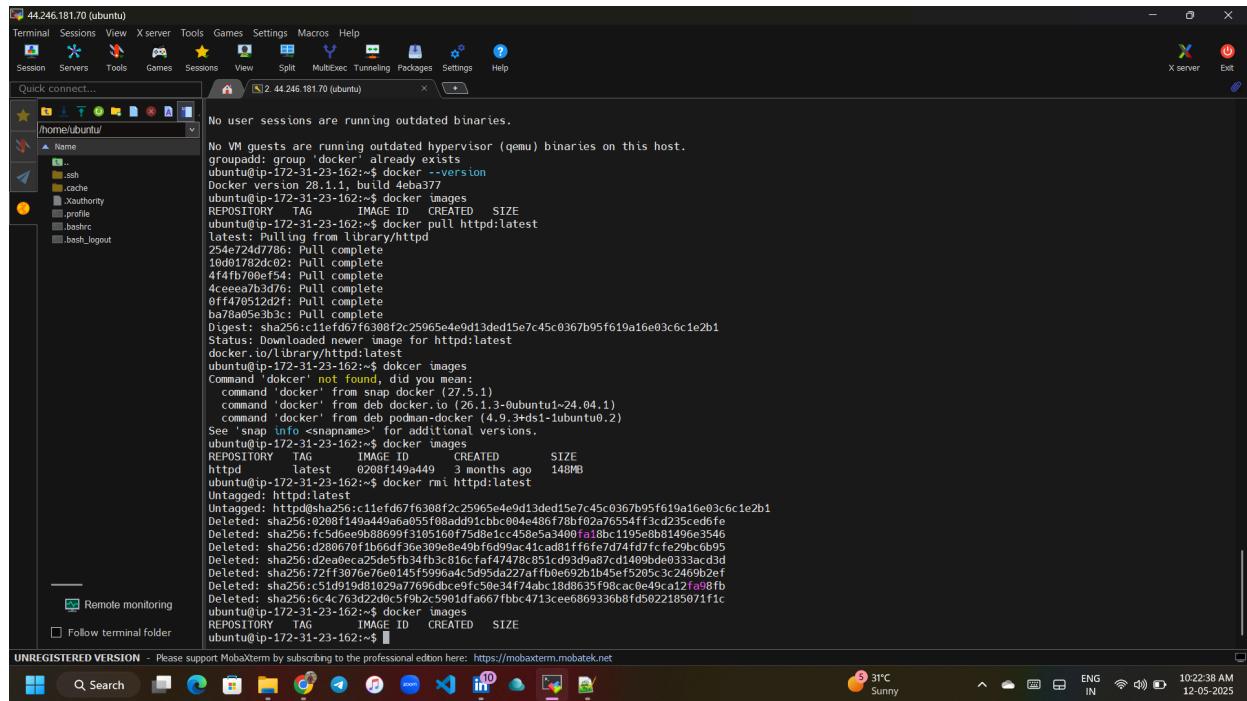
- Maintained by:
[the Docker Community](#)
- Where to get help:
[the Docker Community Slack](#), [Server Fault](#), [Unix & Linux](#), or [Stack Overflow](#)

docker pull httpd **Copy**

```
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4ubuntu0.4) ...
Processing triggers for libc-bin (2.39-0ubuntu0.4) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
groupadd: group "docker" already exists
ubuntu@ip-172-31-23-162:~$ docker -v
Docker version 20.1.1, build 4eba377
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-23-162:~$ docker pull httpd:latest
latest: Pulling from library/httpd
254e724d7786: Pull complete
10d01782dc02: Pull complete
4f416706ef54: Pull complete
14ce4e0a2a2c: Pull complete
0f1476512df1: Pull complete
ba789569b3c: Pull complete
Digest: sha256:c11ef6d77f6308f2c25965e4e9d13ded15e7c45c0367b95f619a16e03c6c1e2b1
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
ubuntu@ip-172-31-23-162:~$ docker images
Command 'docker' not found, did you mean:
  command 'docker' from snap docker (27.5.1)
  command 'docker' from deb docker.io (26.1.3-0ubuntu1-24.04.1)
  command 'docker' from deb podman-docker (4.9.3+ds1-1ubuntu0.2)
See 'snap info <snapname>' for additional versions.
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
httpd latest 9268f149a449 3 months ago 148MB
ubuntu@ip-172-31-23-162:~$
```

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The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, Load Balancing, Load Balancers, and Target Groups. The main content area displays an instance named "i-031aec430c255243c (DockerGuvi)". It shows the instance is "Running" and has an "Initializing" status check. The instance details table includes columns for type (Amazon Linux 2), Status check, Alarm status, Availability Zone (us-west-2a), Public IPv4 DNS (ec2-44-246-181-70.us-west-2.compute.amazonaws.com), Public IPv4 IP (44.246.181.70), Elastic IP, IPv6 IPs, Monitoring (disabled), and Security group (Only-SSH). Below the instance details, there's a section for Outbound rules, which lists three ports: 80 (TCP), 8080 - 8085 (TCP), and 3306 (TCP), each associated with DockerHttp, DockerHttp, and DockerMySQL respectively. At the bottom of the page, there are CloudShell, Feedback, and a search bar.

The screenshot shows a browser window with the URL "44.246.181.70:8080". The page content is "It works!"



Docker Containers:

44.246.181.70 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

2. 44.246.181.70 (ubuntu)

```
ubuntu@ip-172-31-23-162:~$ #container
ubuntu@ip-172-31-23-162:~$ docker run -d -p 8080:80 httpd
Unable to find image 'httpd:latest' locally
latest: Pulling from library/httpd
254e724d778e: Pull complete
10d01782dc02: Pull complete
4f4fb700ef54: Pull complete
4ceea7b3d7e: Pull complete
0ff470512d2f: Pull complete
ba78a05e3b3c: Pull complete
Digest: sha256:c11efd67f6308f2c25965e4e9d13ded15e7c45c0367b95f619a16e03c6c1e2b1
Status: Downloaded newer image for httpd:latest
3ffbc25a77d2528c1b54c1a1554eb98f1706f3a7fcf81887a0a0cef6a680e823c
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
httpd latest 0208f149a449 3 months ago 148MB
ubuntu@ip-172-31-23-162:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3ffbc25a77d2 httpd "httpd-foreground" 15 seconds ago Up 15 seconds 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp happy_ganguly
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3ffbc25a77d2 httpd "httpd-foreground" About a minute ago Exited (0) 9 seconds ago happy_ganguly
ubuntu@ip-172-31-23-162:~$ docker rm happy_ganguly
happy_ganguly
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
httpd latest 0208f149a449 3 months ago 148MB
ubuntu@ip-172-31-23-162:~$ docker rmi 0208f149a449
Untagged: httpd:latest
Untagged: httpdsha256:c11efd67f6308f2c25965e4e9d13ded15e7c45c0367b95f619a16e03c6c1e2b1
Deleted: sha256:0208f149a449a6a055f08ad9d1ccb004e486f78bf02a76554ff3cd235ced6fe
Deleted: sha256:c5d6ee9b88699f3105160f75d8e1cc458e5a3400fa18bc1195e8b81496e3546
ubuntu@ip-172-31-23-162:~$
```

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Q Search Air: Moderate Today ENG IN 10:30:03 AM 12-05-2025

44.246.181.70 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

2. 44.246.181.70 (ubuntu)

```
0ff470512d2f: Pull complete
ba78a05e3b3c: Pull complete
Digest: sha256:c11efd67f6308f2c25965e4e9d13ded15e7c45c0367b95f619a16e03c6c1e2b1
Status: Downloaded newer image for httpd:latest
3ffbc25a77d2528c1b54c1a1554eb98f1706f3a7fcf81887a0a0cef6a680e823c
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
httpd latest 0208f149a449 3 months ago 148MB
ubuntu@ip-172-31-23-162:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3ffbc25a77d2 httpd "httpd-foreground" 15 seconds ago Up 15 seconds 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp happy_ganguly
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3ffbc25a77d2 httpd "httpd-foreground" 20 seconds ago Up 20 seconds 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp happy_ganguly
ubuntu@ip-172-31-23-162:~$ docker stop happy_ganguly
happy_ganguly
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
httpd latest 0208f149a449 3 months ago 148MB
ubuntu@ip-172-31-23-162:~$ docker rmi 0208f149a449
Untagged: httpd:latest
Untagged: httpdsha256:c11efd67f6308f2c25965e4e9d13ded15e7c45c0367b95f619a16e03c6c1e2b1
Deleted: sha256:0208f149a449a6a055f08ad9d1ccb004e486f78bf02a76554ff3cd235ced6fe
Deleted: sha256:c5d6ee9b88699f3105160f75d8e1cc458e5a3400fa18bc1195e8b81496e3546
Deleted: sha256:72ff3078e76a0145ff596a445d95da227afbf0e692fb45ef5205c3c2469b2ef
Deleted: sha256:c5d919b081029a77696d09cf50e547f4ab1808635f98ca0e49ca12fa981b
Deleted: sha256:6e4c763023d0c5f9b2c590dfa667fbfc4713ce6869336b8fd022185071fc
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-23-162:~$
```

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Q Search Air: Moderate Today ENG IN 10:30:08 AM 12-05-2025

Docker Volumes:

```
ubuntu@ip-172-31-23-162:~$ #volume
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-23-162:~$ docker volume create my-data
my-data
ubuntu@ip-172-31-23-162:~$ docker volume ls
DRIVER VOLUME NAME
local my-data
ubuntu@ip-172-31-23-162:~$ docker volume inspect my-data
[
  {
    "CreatedAt": "2025-05-12T05:26:00Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/my-data/_data",
    "Name": "my-data",
    "Options": null,
    "Scope": "local"
  }
]
ubuntu@ip-172-31-23-162:~$ docker run -d \
  --name demo-nginx \
  --mount source=my-data,target=/usr/share/nginx/html \
  nginx:latest
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
25467467786: Pull complete
91301592750: Pull complete
30545052939: Pull complete
4f21ed9ac0c: Pull complete
d3872cf2dfef2: Pull complete
40ae9ff4e56: Pull complete
d3dc5ec71e9d: Pull complete
Digest: sha256:c15da6c91de8d2f436196f3a768483ad32c258ed4e1beb3d367a27ed67253e66
Status: Downloaded newer image for nginx:latest
d1f0b6b57782016bd708a9ae80e4aba08abdfb641500cab50c797b118b517c0
ubuntu@ip-172-31-23-162:~$
```

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```
d1f0b6b57782016bd708a9ae80e4aba08abdfb641500cab50c797b118b517c0
ubuntu@ip-172-31-23-162:~$ docker ps --filter name=demo-nginx
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d1f0b6b57782 nginx:latest "/docker-entrypoint..." 20 seconds ago Up 20 seconds 80/tcp demo-nginx
ubuntu@ip-172-31-23-162:~$ docker exec demo-nginx bash
root@d1f0b6b57782:/# echo "Hello Volume" > /usr/share/nginx/html/hello.txt
root@d1f0b6b57782:/# cd /usr/share/nginx/html/
root@d1f0b6b57782:/usr/share/nginx/html# ls -ltr
Hello Volume
root@d1f0b6b57782:/usr/share/nginx/html# exit
exit
ubuntu@ip-172-31-23-162:~$ docker restart demo-nginx
demo-nginx
ubuntu@ip-172-31-23-162:~$ docker exec demo-nginx cat /usr/share/nginx/html/hello.txt
Hello Volume
ubuntu@ip-172-31-23-162:~$ docker rm -f demo-nginx
demo-nginx
ubuntu@ip-172-31-23-162:~$ docker volume ls
DRIVER VOLUME NAME
local my-data
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest a830707172e8 3 weeks ago 192MB
ubuntu@ip-172-31-23-162:~$ docker logs a830707172e8
Error response from daemon: No such container: a830707172e8
ubuntu@ip-172-31-23-162:~$ docker volume inspect my-data
[
  {
    "CreatedAt": "2025-05-12T05:26:00Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/my-data/_data",
    "Name": "my-data",
  }
]
```

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```

ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest a830707172e8 3 weeks ago 192MB
ubuntu@ip-172-31-23-162:~$ docker logs a830707172e8
Error response from daemon: No such container: a830707172e8
ubuntu@ip-172-31-23-162:~$ docker volume inspect my-data
[
    {
        "CreatedAt": "2025-05-12T05:26:00Z",
        "Driver": "Local",
        "Labels": null,
        "Mountpoint": "/var/lib/docker/volumes/my-data/_data",
        "Name": "my-data",
        "Options": null,
        "Scope": "local"
    }
]
ubuntu@ip-172-31-23-162:~$ docker run -d \
--name demo-nginx-2 \
--mount source=my-data,target=/usr/share/nginx/html \
nginx:latest
ecba281de8f174af437ed012ab04bbed319aa2c880ed110dff74a37bd7ff65e
ubuntu@ip-172-31-23-162:~$ docker ps -a
Command 'docker' not found, did you mean:
command 'docker' from snap docker (27.5.1)
command 'docker' from deb docker.io (26.1.3-0ubuntu1~24.04.1)
command 'docker' from deb podman-docker (4.9.3+ds1-ubuntu0.2)
See 'snap info <snapname>' for additional versions.
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ecba281de8f174af437ed012ab04bbed319aa2c880ed110dff74a37bd7ff65e
ubuntu@ip-172-31-23-162:~$ docker exec demo-nginx-2 cat /usr/share/nginx/html/hello.txt
Hello Volume
ubuntu@ip-172-31-23-162:~$ docker rm -f demo-nginx-2
demo-nginx-2
ubuntu@ip-172-31-23-162:~$ docker volume rm my-data
my-data
ubuntu@ip-172-31-23-162:~$ docker volume ls
DRIVER VOLUME NAME
ubuntu@ip-172-31-23-162:~$

```

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Docker Volumes: Blind Mount

```

ubuntu@ip-172-31-20-222:~$ mkdir JawaharVolume
ubuntu@ip-172-31-20-222:~$ ls -ltr
total 8
drwxrwxr-x 2 ubuntu ubuntu 4096 May 11 05:00 JawaharVolume
-rwxrwxr-x 1 ubuntu ubuntu 1160 May 11 05:02 dockersetup.sh
ubuntu@ip-172-31-20-222:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-20-222:~$ docker run -itd --name sqlserver -v
/home/ubuntu/JawaharVolume:/var/lib/mysql -e
MYSQL_ROOT_PASSWORD=my-secret-pw -p 3306:3306 mysql
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
c2eb5d06bfea: Pull complete
ba361f0ba5e7: Pull complete
0e83af98b000: Pull complete
770e931107be: Pull complete
a2be1b721112: Pull complete

```

68c594672ed3: Pull complete
cfd201189145: Pull complete
e9f009c5b388: Pull complete
61a291920391: Pull complete
c8604ede059a: Pull complete
Digest:
sha256:2247f6d47a59e5fa30a27ddc2e183a3e6b05bc045e3d12f8d429532647f613
58
Status: Downloaded newer image for mysql:latest
9f3a6b09a4b97add1b421255f0f1a0eed65e619f88507d51e5c4b1240b8f9b97
ubuntu@ip-172-31-20-222:~\$ docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
				NAMES	
9f3a6b09a4b9	mysql	"docker-entrypoint.s..."	22 seconds ago	Up 21 seconds	0.0.0.0:3306->3306/tcp, [::]:3306->3306/tcp, 33060/tcp sqlserver
ubuntu@ip-172-31-20-222:~\$ cd JawaharVolume/					
ubuntu@ip-172-31-20-222:~/JawaharVolume\$ ls -ltr					
total 112568					
-rw-r----- 1 999 systemd-journal	56 May 11 05:05	auto.cnf			
-rw-r----- 1 999 systemd-journal	14680064 May 11 05:05	'#ib_16384_1 dblwr'			
-rw-r----- 1 999 systemd-journal	131 May 11 05:05	mysql_upgrade_history			
drwxr-x--- 2 999 systemd-journal	4096 May 11 05:05	performance_schema			
-rw----- 1 999 systemd-journal	1705 May 11 05:05	ca-key.pem			
-rw-r--r-- 1 999 systemd-journal	1108 May 11 05:05	ca.pem			
-rw----- 1 999 systemd-journal	1705 May 11 05:05	server-key.pem			
-rw-r--r-- 1 999 systemd-journal	1108 May 11 05:05	server-cert.pem			
-rw----- 1 999 systemd-journal	1705 May 11 05:05	client-key.pem			
-rw-r--r-- 1 999 systemd-journal	1108 May 11 05:05	client-cert.pem			
-rw----- 1 999 systemd-journal	1705 May 11 05:05	private_key.pem			
-rw-r--r-- 1 999 systemd-journal	452 May 11 05:05	public_key.pem			
drwxr-x--- 2 999 systemd-journal	4096 May 11 05:05	mysql			
drwxr-x--- 2 999 systemd-journal	4096 May 11 05:05	sys			
lrwxrwxrwx 1 999 systemd-journal	27 May 11 05:05	mysql.sock ->			
/var/run/mysqld/mysqld.sock					
-rw-r----- 1 999 systemd-journal	2984581 May 11 05:05	binlog.000001			
-rw-r----- 1 999 systemd-journal	5430 May 11 05:05	ib_buffer_pool			

```
-rw-r----- 1 999 systemd-journal 1541 May 11 05:05 9f3a6b09a4b9.err
drwxr-x--- 2 999 systemd-journal 4096 May 11 05:05 '#innodb_redo'
drwxr-x--- 2 999 systemd-journal 4096 May 11 05:05 '#innodb_temp'
-rw-r----- 1 999 systemd-journal 32 May 11 05:05 binlog.index
-rw-r----- 1 999 systemd-journal 158 May 11 05:05 binlog.000002
-rw-r----- 1 999 systemd-journal 12582912 May 11 05:05 ibdata1
-rw-r----- 1 999 systemd-journal 12582912 May 11 05:05 ibtmp1
-rw-r----- 1 999 systemd-journal 16777216 May 11 05:05 undo_001
-rw-r----- 1 999 systemd-journal 16777216 May 11 05:05 undo_002
-rw-r----- 1 999 systemd-journal 6291456 May 11 05:05 '#ib_16384_0 dblwr'
-rw-r----- 1 999 systemd-journal 32505856 May 11 05:05 mysql.ibd
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker exec -it sqlserver bash
bash-5.1# ls -ltr
total 60
drwxr-xr-x 2 root root 4096 Oct 26 2024 srv
lrwxrwxrwx 1 root root 8 Oct 26 2024 sbin -> usr/sbin
drwxr-xr-x 2 root root 4096 Oct 26 2024 opt
drwxr-xr-x 2 root root 4096 Oct 26 2024 mnt
drwxr-xr-x 2 root root 4096 Oct 26 2024 media
lrwxrwxrwx 1 root root 9 Oct 26 2024 lib64 -> usr/lib64
lrwxrwxrwx 1 root root 7 Oct 26 2024 lib -> usr/lib
drwxr-xr-x 2 root root 4096 Oct 26 2024 home
dr-xr-xr-x 2 root root 4096 Oct 26 2024 boot
lrwxrwxrwx 1 root root 7 Oct 26 2024 bin -> usr/bin
dr-xr-xr-x 2 root root 4096 Oct 26 2024 afs
drwxr-xr-x 1 root root 4096 Apr 29 03:22 usr
drwxr-xr-x 1 root root 4096 Apr 29 03:22 var
drwxr-xr-x 1 root root 4096 Apr 29 19:08 run
drwxr-xr-x 2 root root 4096 Apr 29 19:08 docker-entrypoint-initdb.d
dr-xr-x--- 1 root root 4096 Apr 29 19:09 root
drwxr-xr-x 1 root root 4096 May 11 05:05 etc
dr-xr-xr-x 13 root root 0 May 11 05:05 sys
dr-xr-xr-x 182 root root 0 May 11 05:05 proc
drwxr-xr-x 5 root root 360 May 11 05:05 dev
drwxrwxrwt 1 root root 4096 May 11 05:05 tmp
bash-5.1# cd /var/lib ; ls -ltr
```

```
total 44
drwxr-xr-x 2 root root 4096 Oct 26 2024 rpm-state
drwxr-xr-x 2 root root 4096 Oct 26 2024 misc
drwxr-xr-x 2 root root 4096 Oct 26 2024 games
drwxr-xr-x 1 root root 4096 Oct 30 2024 rpm
-rw-r--r-- 1 root root 102 Nov 15 00:42 supportinfo
drwxr-x--- 2 mysql mysql 4096 Mar 31 10:37 mysql-keyring
drwxr-x--- 2 mysql mysql 4096 Mar 31 10:37 mysql-files
drwxr-xr-x 2 root root 4096 Apr 29 03:22 alternatives
drwxr-xr-x 3 root root 4096 Apr 29 03:22 selinux
drwxr-xr-x 1 root root 4096 Apr 29 19:08 dnf
drwxrwxr-x 7 mysql 1000 4096 May 11 05:05 mysql
bash-5.1# cd m
misc/      mysql/      mysql-files/  mysql-keyring/
bash-5.1# cd mysql
bash-5.1# ls -ltr
total 112568
-rw-r---- 1 mysql mysql    56 May 11 05:05 auto.cnf
-rw-r---- 1 mysql mysql 14680064 May 11 05:05 '#ib_16384_1 dblwr'
-rw-r---- 1 mysql mysql   131 May 11 05:05 mysql_upgrade_history
drwxr-x--- 2 mysql mysql  4096 May 11 05:05 performance_schema
-rw------- 1 mysql mysql  1705 May 11 05:05 ca-key.pem
-rw-r--r-- 1 mysql mysql  1108 May 11 05:05 ca.pem
-rw------- 1 mysql mysql  1705 May 11 05:05 server-key.pem
-rw-r--r-- 1 mysql mysql  1108 May 11 05:05 server-cert.pem
-rw------- 1 mysql mysql  1705 May 11 05:05 client-key.pem
-rw-r--r-- 1 mysql mysql  1108 May 11 05:05 client-cert.pem
-rw------- 1 mysql mysql  1705 May 11 05:05 private_key.pem
-rw-r--r-- 1 mysql mysql  452 May 11 05:05 public_key.pem
drwxr-x--- 2 mysql mysql  4096 May 11 05:05 mysql
drwxr-x--- 2 mysql mysql  4096 May 11 05:05 sys
lrwxrwxrwx 1 mysql mysql   27 May 11 05:05 mysql.sock ->
/var/run/mysqld/mysqld.sock
-rw-r---- 1 mysql mysql 2984581 May 11 05:05 binlog.000001
-rw-r---- 1 mysql mysql   5430 May 11 05:05 ib_buffer_pool
-rw-r---- 1 mysql mysql  1541 May 11 05:05 9f3a6b09a4b9.err
```

```
drwxr-x--- 2 mysql mysql    4096 May 11 05:05 '#innodb_redo'
drwxr-x--- 2 mysql mysql    4096 May 11 05:05 '#innodb_temp'
-rw-r----- 1 mysql mysql     32 May 11 05:05 binlog.index
-rw-r----- 1 mysql mysql   158 May 11 05:05 binlog.000002
-rw-r----- 1 mysql mysql 12582912 May 11 05:05 ibdata1
-rw-r----- 1 mysql mysql 12582912 May 11 05:05 ibtmp1
-rw-r----- 1 mysql mysql 32505856 May 11 05:05 mysql.ibd
-rw-r----- 1 mysql mysql 6291456 May 11 05:07 '#ib_16384_0 dblwr'
-rw-r----- 1 mysql mysql 16777216 May 11 05:07 undo_002
-rw-r----- 1 mysql mysql 16777216 May 11 05:07 undo_001
bash-5.1# touch JawaharFiles{1..5}.txt
bash-5.1# ls -ltr
total 112568
-rw-r----- 1 mysql mysql     56 May 11 05:05 auto.cnf
-rw-r----- 1 mysql mysql 14680064 May 11 05:05 '#ib_16384_1 dblwr'
-rw-r----- 1 mysql mysql    131 May 11 05:05 mysql_upgrade_history
drwxr-x--- 2 mysql mysql    4096 May 11 05:05 performance_schema
-rw----- 1 mysql mysql   1705 May 11 05:05 ca-key.pem
-rw-r--r-- 1 mysql mysql    1108 May 11 05:05 ca.pem
-rw----- 1 mysql mysql   1705 May 11 05:05 server-key.pem
-rw-r--r-- 1 mysql mysql    1108 May 11 05:05 server-cert.pem
-rw----- 1 mysql mysql   1705 May 11 05:05 client-key.pem
-rw-r--r-- 1 mysql mysql    1108 May 11 05:05 client-cert.pem
-rw----- 1 mysql mysql   1705 May 11 05:05 private_key.pem
-rw-r--r-- 1 mysql mysql   452 May 11 05:05 public_key.pem
drwxr-x--- 2 mysql mysql    4096 May 11 05:05 mysql
drwxr-x--- 2 mysql mysql    4096 May 11 05:05 sys
lrwxrwxrwx 1 mysql mysql     27 May 11 05:05 mysql.sock ->
/var/run/mysqld/mysqld.sock
-rw-r----- 1 mysql mysql 2984581 May 11 05:05 binlog.000001
-rw-r----- 1 mysql mysql   5430 May 11 05:05 ib_buffer_pool
-rw-r----- 1 mysql mysql  1541 May 11 05:05 9f3a6b09a4b9.err
drwxr-x--- 2 mysql mysql    4096 May 11 05:05 '#innodb_redo'
drwxr-x--- 2 mysql mysql    4096 May 11 05:05 '#innodb_temp'
-rw-r----- 1 mysql mysql     32 May 11 05:05 binlog.index
-rw-r----- 1 mysql mysql   158 May 11 05:05 binlog.000002
```

```
-rw-r---- 1 mysql mysql 12582912 May 11 05:05 ibdata1
-rw-r---- 1 mysql mysql 12582912 May 11 05:05 ibtmp1
-rw-r---- 1 mysql mysql 32505856 May 11 05:05 mysql.ibd
-rw-r---- 1 mysql mysql 6291456 May 11 05:07 '#ib_16384_0 dblwr'
-rw-r---- 1 mysql mysql 16777216 May 11 05:07 undo_002
-rw-r---- 1 mysql mysql 16777216 May 11 05:07 undo_001
-rw-r--r-- 1 root root      0 May 11 05:11 JawaharFiles5.txt
-rw-r--r-- 1 root root      0 May 11 05:11 JawaharFiles4.txt
-rw-r--r-- 1 root root      0 May 11 05:11 JawaharFiles3.txt
-rw-r--r-- 1 root root      0 May 11 05:11 JawaharFiles2.txt
-rw-r--r-- 1 root root      0 May 11 05:11 JawaharFiles1.txt
bash-5.1# exit
exit
ubuntu@ip-172-31-20-222:~/JawaharVolume$ ls -ltr
total 112568
-rw-r---- 1 999 systemd-journal   56 May 11 05:05 auto.cnf
-rw-r---- 1 999 systemd-journal 14680064 May 11 05:05 '#ib_16384_1 dblwr'
-rw-r---- 1 999 systemd-journal   131 May 11 05:05 mysql_upgrade_history
drwxr-x--- 2 999 systemd-journal  4096 May 11 05:05 performance_schema
-rw----- 1 999 systemd-journal  1705 May 11 05:05 ca-key.pem
-rw-r--r-- 1 999 systemd-journal  1108 May 11 05:05 ca.pem
-rw----- 1 999 systemd-journal  1705 May 11 05:05 server-key.pem
-rw-r--r-- 1 999 systemd-journal  1108 May 11 05:05 server-cert.pem
-rw----- 1 999 systemd-journal  1705 May 11 05:05 client-key.pem
-rw-r--r-- 1 999 systemd-journal  1108 May 11 05:05 client-cert.pem
-rw----- 1 999 systemd-journal  1705 May 11 05:05 private_key.pem
-rw-r--r-- 1 999 systemd-journal  452 May 11 05:05 public_key.pem
drwxr-x--- 2 999 systemd-journal  4096 May 11 05:05 mysql
drwxr-x--- 2 999 systemd-journal  4096 May 11 05:05 sys
lrwxrwxrwx 1 999 systemd-journal  27 May 11 05:05 mysql.sock ->
/var/run/mysqld/mysqld.sock
-rw-r---- 1 999 systemd-journal 2984581 May 11 05:05 binlog.000001
-rw-r---- 1 999 systemd-journal  5430 May 11 05:05 ib_buffer_pool
-rw-r---- 1 999 systemd-journal 1541 May 11 05:05 9f3a6b09a4b9.err
drwxr-x--- 2 999 systemd-journal  4096 May 11 05:05 '#innodb_redo'
drwxr-x--- 2 999 systemd-journal  4096 May 11 05:05 '#innodb_temp'
```

```

-rw-r---- 1 999 systemd-journal    32 May 11 05:05 binlog.index
-rw-r---- 1 999 systemd-journal   158 May 11 05:05 binlog.000002
-rw-r---- 1 999 systemd-journal 12582912 May 11 05:05 ibdata1
-rw-r---- 1 999 systemd-journal 12582912 May 11 05:05 ibtmp1
-rw-r---- 1 999 systemd-journal 32505856 May 11 05:05 mysql.ibd
-rw-r---- 1 999 systemd-journal 6291456 May 11 05:07 '#ib_16384_0 dblwr'
-rw-r---- 1 999 systemd-journal 16777216 May 11 05:07 undo_002
-rw-r---- 1 999 systemd-journal 16777216 May 11 05:07 undo_001
-rw-r--r-- 1 root root          0 May 11 05:11 JawaharFiles5.txt
-rw-r--r-- 1 root root          0 May 11 05:11 JawaharFiles4.txt
-rw-r--r-- 1 root root          0 May 11 05:11 JawaharFiles3.txt
-rw-r--r-- 1 root root          0 May 11 05:11 JawaharFiles2.txt
-rw-r--r-- 1 root root          0 May 11 05:11 JawaharFiles1.txt
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker ps
CONTAINER ID IMAGE COMMAND      CREATED STATUS PORTS NAMES
9f3a6b09a4b9 mysql "docker-entrypoint.s..." 6 minutes ago Up 6 minutes
0.0.0.0:3306->3306/tcp, [::]:3306->3306/tcp, 33060/tcp sqlserver
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker stop 9f3a6b09a4b9
9f3a6b09a4b9
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker rm -f sqlserver
sqlserver
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker run -itd --name sqlserver -v
/home/ubuntu/JawaharVolume:/var/lib/mysql -e
MYSQL_ROOT_PASSWORD=my-secret-pw -p 3306:3306 mysql
0c8ca1b5951124cbd90968f1d94cc779fb13603c3a8ac42b3cdcecd5fb43b05f
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker ps
CONTAINER ID IMAGE COMMAND      CREATED STATUS PORTS NAMES
0c8ca1b59511 mysql "docker-entrypoint.s..." 6 seconds ago Up 5 seconds
0.0.0.0:3306->3306/tcp, [::]:3306->3306/tcp, 33060/tcp sqlserver
ubuntu@ip-172-31-20-222:~/JawaharVolume$ ls -ltr
total 112568
-rw-r---- 1 999 systemd-journal    56 May 11 05:05 auto.cnf

```

```
-rw-r---- 1 999 systemd-journal 14680064 May 11 05:05 '#ib_16384_1 dblwr'
-rw-r---- 1 999 systemd-journal 131 May 11 05:05 mysql_upgrade_history
drwxr-x--- 2 999 systemd-journal 4096 May 11 05:05 performance_schema
-rw----- 1 999 systemd-journal 1705 May 11 05:05 ca-key.pem
-rw-r--r-- 1 999 systemd-journal 1108 May 11 05:05 ca.pem
-rw----- 1 999 systemd-journal 1705 May 11 05:05 server-key.pem
-rw-r--r-- 1 999 systemd-journal 1108 May 11 05:05 server-cert.pem
-rw----- 1 999 systemd-journal 1705 May 11 05:05 client-key.pem
-rw-r--r-- 1 999 systemd-journal 1108 May 11 05:05 client-cert.pem
-rw----- 1 999 systemd-journal 1705 May 11 05:05 private_key.pem
-rw-r--r-- 1 999 systemd-journal 452 May 11 05:05 public_key.pem
drwxr-x--- 2 999 systemd-journal 4096 May 11 05:05 mysql
drwxr-x--- 2 999 systemd-journal 4096 May 11 05:05 sys
-rw-r---- 1 999 systemd-journal 2984581 May 11 05:05 binlog.000001
-rw-r---- 1 999 systemd-journal 1541 May 11 05:05 9f3a6b09a4b9.err
-rw-r--r-- 1 999 root 0 May 11 05:11 JawaharFiles5.txt
-rw-r--r-- 1 999 root 0 May 11 05:11 JawaharFiles4.txt
-rw-r--r-- 1 999 root 0 May 11 05:11 JawaharFiles3.txt
-rw-r--r-- 1 999 root 0 May 11 05:11 JawaharFiles2.txt
-rw-r--r-- 1 999 root 0 May 11 05:11 JawaharFiles1.txt
-rw-r---- 1 999 systemd-journal 181 May 11 05:12 binlog.000002
-rw-r---- 1 999 systemd-journal 3557 May 11 05:12 ib_buffer_pool
lrwxrwxrwx 1 999 systemd-journal 27 May 11 05:13 mysql.sock ->
/var/run/mysqld/mysqld.sock
drwxr-x--- 2 999 systemd-journal 4096 May 11 05:13 '#innodb_redo'
drwxr-x--- 2 999 systemd-journal 4096 May 11 05:13 '#innodb_temp'
-rw-r---- 1 999 systemd-journal 48 May 11 05:13 binlog.index
-rw-r---- 1 999 systemd-journal 158 May 11 05:13 binlog.000003
-rw-r---- 1 999 systemd-journal 12582912 May 11 05:13 ibdata1
-rw-r---- 1 999 systemd-journal 12582912 May 11 05:13 ibtmp1
-rw-r---- 1 999 systemd-journal 16777216 May 11 05:13 undo_002
-rw-r---- 1 999 systemd-journal 16777216 May 11 05:13 undo_001
-rw-r---- 1 999 systemd-journal 32505856 May 11 05:13 mysql.ibd
-rw-r---- 1 999 systemd-journal 6291456 May 11 05:13 '#ib_16384_0 dblwr'
ubuntu@ip-172-31-20-222:~/JawaharVolume$ docker exec -it sqlserver bash
bash-5.1# ls -ltr
```

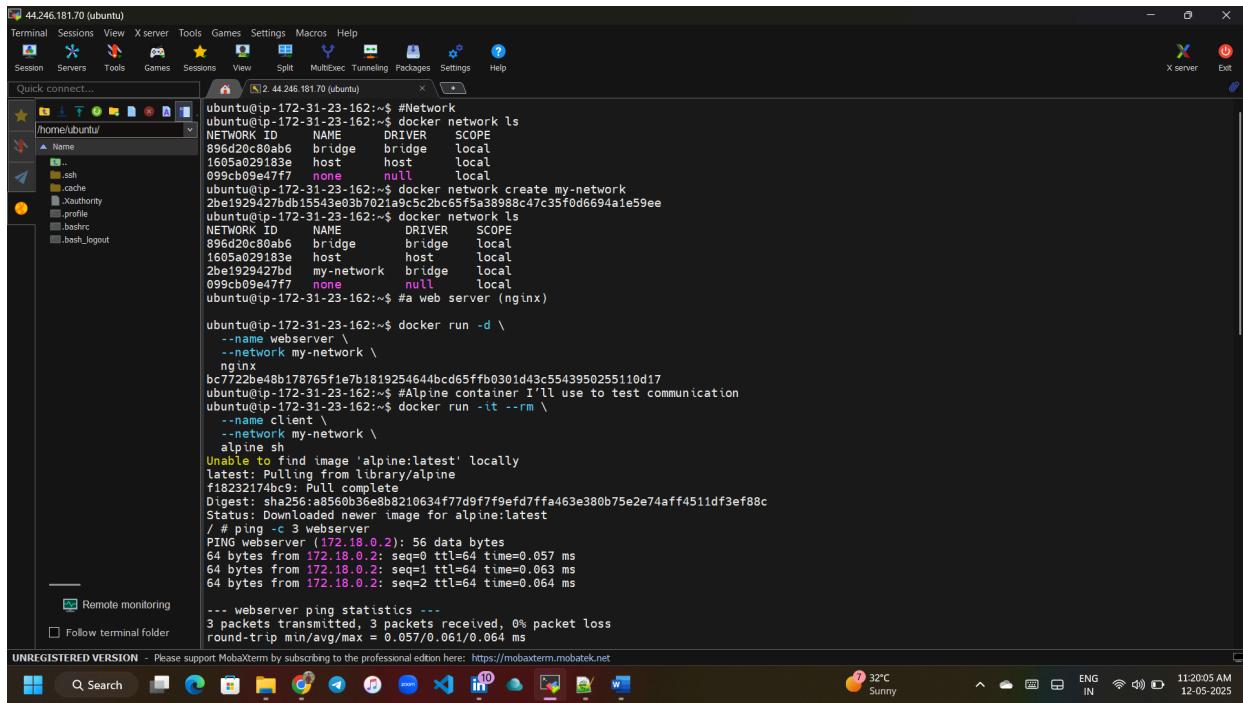
```
total 60
drwxr-xr-x  2 root root 4096 Oct 26 2024 srv
lrwxrwxrwx  1 root root   8 Oct 26 2024 sbin -> usr/sbin
drwxr-xr-x  2 root root 4096 Oct 26 2024 opt
drwxr-xr-x  2 root root 4096 Oct 26 2024 mnt
drwxr-xr-x  2 root root 4096 Oct 26 2024 media
lrwxrwxrwx  1 root root   9 Oct 26 2024 lib64 -> usr/lib64
lrwxrwxrwx  1 root root   7 Oct 26 2024 lib -> usr/lib
drwxr-xr-x  2 root root 4096 Oct 26 2024 home
dr-xr-xr-x  2 root root 4096 Oct 26 2024 boot
lrwxrwxrwx  1 root root   7 Oct 26 2024 bin -> usr/bin
dr-xr-xr-x  2 root root 4096 Oct 26 2024 afs
drwxr-xr-x  1 root root 4096 Apr 29 03:22 usr
drwxr-xr-x  1 root root 4096 Apr 29 03:22 var
drwxr-xr-x  1 root root 4096 Apr 29 19:08 run
drwxr-xr-x  2 root root 4096 Apr 29 19:08 docker-entrypoint-initdb.d
dr-xr-x---  1 root root 4096 Apr 29 19:09 root
drwxr-xr-x  1 root root 4096 May 11 05:13 etc
dr-xr-xr-x  13 root root   0 May 11 05:13 sys
dr-xr-xr-x  182 root root   0 May 11 05:13 proc
drwxr-xr-x  5 root root 360 May 11 05:13 dev
drwxrwxrwt  1 root root 4096 May 11 05:13 tmp
bash-5.1# cd /var/lib/mysql ; ls -ltr
total 112568
-rw-r---- 1 mysql mysql    56 May 11 05:05 auto.cnf
-rw-r---- 1 mysql mysql 14680064 May 11 05:05 '#ib_16384_1 dblwr'
-rw-r---- 1 mysql mysql   131 May 11 05:05 mysql_upgrade_history
drwxr-x--- 2 mysql mysql  4096 May 11 05:05 performance_schema
-rw------- 1 mysql mysql  1705 May 11 05:05 ca-key.pem
-rw-r--r-- 1 mysql mysql  1108 May 11 05:05 ca.pem
-rw------- 1 mysql mysql  1705 May 11 05:05 server-key.pem
-rw-r--r-- 1 mysql mysql  1108 May 11 05:05 server-cert.pem
-rw------- 1 mysql mysql  1705 May 11 05:05 client-key.pem
-rw-r--r-- 1 mysql mysql  1108 May 11 05:05 client-cert.pem
-rw------- 1 mysql mysql  1705 May 11 05:05 private_key.pem
-rw-r--r-- 1 mysql mysql  452 May 11 05:05 public_key.pem
```

```

drwxr-x--- 2 mysql mysql 4096 May 11 05:05 mysql
drwxr-x--- 2 mysql mysql 4096 May 11 05:05 sys
-rw-r----- 1 mysql mysql 2984581 May 11 05:05 binlog.000001
-rw-r----- 1 mysql mysql 1541 May 11 05:05 9f3a6b09a4b9.err
-rw-r--r-- 1 mysql root 0 May 11 05:11 JawaharFiles5.txt
-rw-r--r-- 1 mysql root 0 May 11 05:11 JawaharFiles4.txt
-rw-r--r-- 1 mysql root 0 May 11 05:11 JawaharFiles3.txt
-rw-r--r-- 1 mysql root 0 May 11 05:11 JawaharFiles2.txt
-rw-r--r-- 1 mysql root 0 May 11 05:11 JawaharFiles1.txt
-rw-r----- 1 mysql mysql 181 May 11 05:12 binlog.000002
-rw-r----- 1 mysql mysql 3557 May 11 05:12 ib_buffer_pool
lrwxrwxrwx 1 mysql mysql 27 May 11 05:13 mysql.sock ->
/var/run/mysqld/mysqld.sock
drwxr-x--- 2 mysql mysql 4096 May 11 05:13 '#innodb_redo'
drwxr-x--- 2 mysql mysql 4096 May 11 05:13 '#innodb_temp'
-rw-r----- 1 mysql mysql 48 May 11 05:13 binlog.index
-rw-r----- 1 mysql mysql 158 May 11 05:13 binlog.000003
-rw-r----- 1 mysql mysql 12582912 May 11 05:13 ibdata1
-rw-r----- 1 mysql mysql 12582912 May 11 05:13 ibtmp1
-rw-r----- 1 mysql mysql 32505856 May 11 05:13 mysql.ibd
-rw-r----- 1 mysql mysql 6291456 May 11 05:15 '#ib_16384_0 dblwr'
-rw-r----- 1 mysql mysql 16777216 May 11 05:15 undo_002
-rw-r----- 1 mysql mysql 16777216 May 11 05:15 undo_001
bash-5.1# exit
exit
ubuntu@ip-172-31-20-222:/$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
0c8ca1b59511 mysql "docker-entrypoint.s..." 7 minutes ago Up 7 minutes
0.0.0.0:3306->3306/tcp, [::]:3306->3306/tcp, 33060/tcp sqlserver

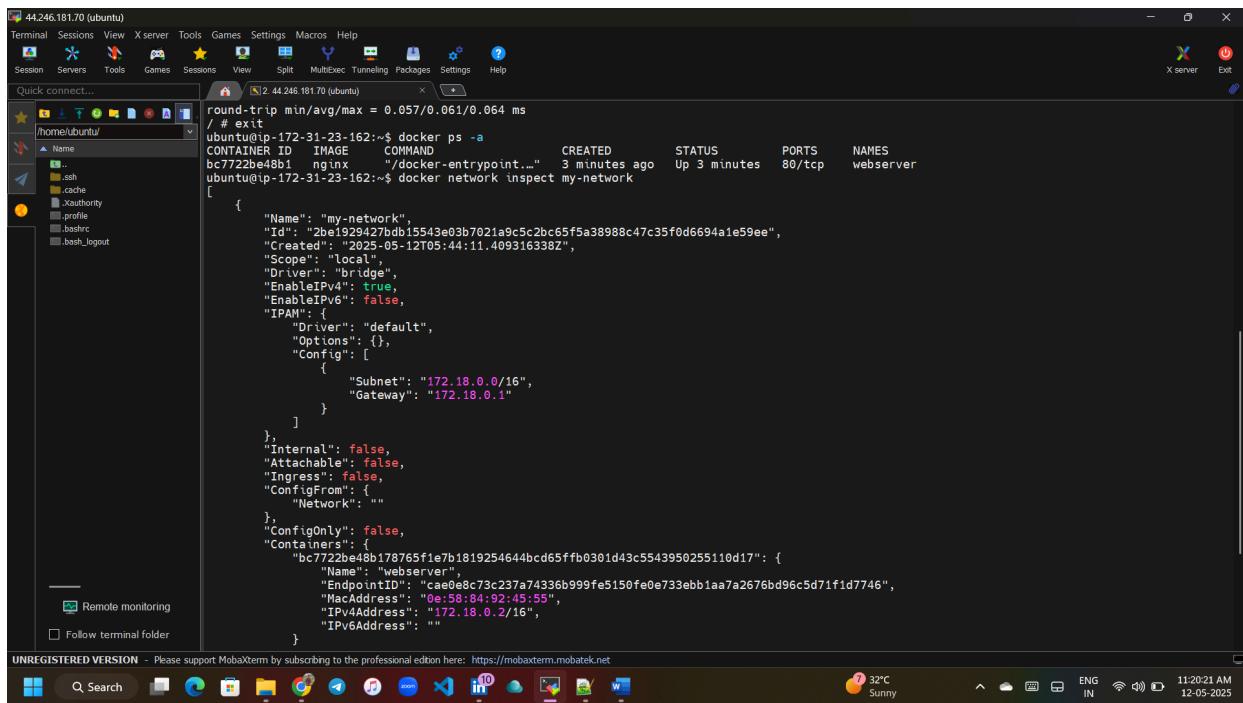
```

Docker Network:



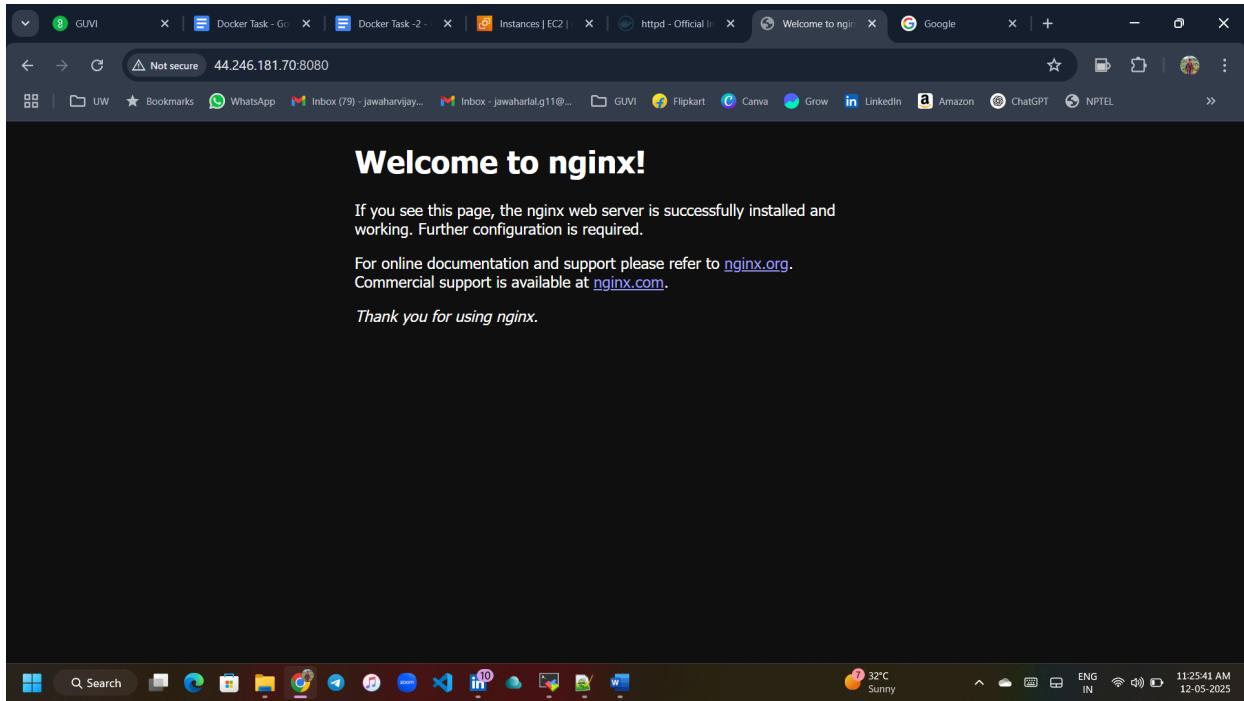
```
ubuntu@ip-172-31-23-162:~$ #network
ubuntu@ip-172-31-23-162:~$ docker network ls
NETWORK ID      NAME        DRIVER      SCOPE
896d20c80ab6   bridge      bridge      local
1605a0a29183e   host       host       local
099cb09e47f7   none       null      local
ubuntu@ip-172-31-23-162:~$ docker network create my-network
2be1929a27bdb15543e03b7021a9c5c2bc65f5a38988c47c35f0d6694a1e59ee
ubuntu@ip-172-31-23-162:~$ docker network ls
NETWORK ID      NAME        DRIVER      SCOPE
896d20c80ab6   bridge      bridge      local
1605a0a29183e   host       host       local
2be1929a27bd   my-network bridge      local
099cb09e47f7   none       null      local
ubuntu@ip-172-31-23-162:~$ #a web server (nginx)
ubuntu@ip-172-31-23-162:~$ docker run -d \
--name webserver \
--network my-network \
nginx
bc7722be48b178765f1e7b1819254644bcd65ffb0301d43c5543950255110d17
ubuntu@ip-172-31-23-162:~$ #Alpine container I'll use to test communication
ubuntu@ip-172-31-23-162:~$ docker run -it --rm \
--name client \
--network my-network \
alpine sh
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
f1823214bc95: Pull complete
Digest: sha256:a8560b36e88210634f77d9f7f9efd7fffa463e380b75e2e74aff4511df3ef88c
Status: Downloaded newer image for alpine:latest
# ping -c 3 webserver
PING webserver (172.18.0.2): 56 data bytes
64 bytes from 172.18.0.2: seq=0 ttl=64 time=0.057 ms
64 bytes from 172.18.0.2: seq=1 ttl=64 time=0.063 ms
64 bytes from 172.18.0.2: seq=2 ttl=64 time=0.064 ms
--- webserver ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
round-trip min/avg/max = 0.057/0.061/0.064 ms
```

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```
round-trip min/avg/max = 0.057/0.061/0.064 ms
# exit
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID        IMAGE           COMMAND                  CREATED             STATUS              PORTS     NAMES
bc7722be48b1        nginx           "/docker-entrypoint..."   3 minutes ago    Up 3 minutes   80/tcp    webserver
ubuntu@ip-172-31-23-162:~$ docker network inspect my-network
[{"Name": "my_network", "Id": "2be1929a27bdb15543e03b7021a9c5c2bc65f5a38988c47c35f0d6694a1e59ee", "Created": "2025-05-12T05:44:11.409316338Z", "Scope": "local", "Driver": "bridge", "EnableIPv4": true, "EnableIPv6": false, "IPAM": {"Driver": "default", "Options": {}, "Config": [{"Subnet": "172.18.0.0/16", "Gateway": "172.18.0.1"}]}, "Internal": false, "Attachable": false, "Ingress": false, "ConfigFrom": {"Network": ""}, "ConfigOnly": false, "Container": "bc7722be48b178765f1e7b1819254644bcd65ffb0301d43c5543950255110d17": {"Name": "webserver", "EndpointID": "e0e0e08c73c237a74336b999fe5150fe0e733ebb1aa7a2676bd96c5d71f1d7746", "MacAddress": "0e:58:84:92:45:55", "IPv4Address": "172.18.0.2/16", "IPv6Address": ""}}
```

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```
44.246.181.70 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings ? 
Quick connect... 2. 44.246.181.70 (ubuntu) X server Exit
/home/ubuntu/
  + Name
    - ssh
    - cache
    - Xauthority
    - profile
    - .bashrc
    - .bash_logout
  Remote monitoring
  Follow terminal folder

ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bc7722be48b1 nginx "/docker-entrypoint..." 9 minutes ago Up 9 minutes 80/tcp webserver
ubuntu@ip-172-31-23-162:~$ docker run -d \
  --name nginxwebserver \
  --network my-network \
  -p 80:80 \
  nginx
nginxwebserver
dh0c676341896dc7ac736f0e34edd18d5ddd3bac608b74b9252a0f2682553a6d
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
db0c67634189 nginx "/docker-entrypoint..." 3 seconds ago Up 3 seconds 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp nginxwebserver
bc7722be48b1 nginx "/docker-entrypoint..." 10 minutes ago Up 10 minutes 80/tcp webserver
ubuntu@ip-172-31-23-162:~$ docker rm -f nginxwebserver
nginxwebserver
ubuntu@ip-172-31-23-162:~$ docker rm webserver
webserver
ubuntu@ip-172-31-23-162:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-23-162:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest a830707172e8 3 weeks ago 192MB
alpine latest aded1e1a5b37 2 months ago 7.83MB
ubuntu@ip-172-31-23-162:~$ docker network rm my-network
my-network
ubuntu@ip-172-31-23-162:~$ docker rmi a830707172e8
Untagged: nginx:latest
Untagged: nginx@sha256:c15da6c91de8d2f436196f3a768483ad32c258ed4e1beb3d367a27ed67253e66
Deleted: sha256:a830707172e809c09c76c67a04e23e5a1a332d70a90a54999b76273a92bb9ce
Deleted: sha256:f337068b16ddcd524b7ab3d9c0fe569c586b49f888b23646575f8ca9dad28183b
Deleted: sha256:c2a2fe99d37993d2cd6/b9459590ca6204dd52cb4ed785e5db36f7aa0dd962bd
Deleted: sha256:9219473716627829567af49238831ef0419c04a3b0fb551e8b2403b81acc32c7
Deleted: sha256:f5fb61d156dtaab5468082893de038561147bda56de0665a09a455b870eb0
Deleted: sha256:d4d9c5247e7e67e45b85c9fc757a848a108ce952687856c87768194d41fcbe
Deleted: sha256:041739ea760289be096f57hd5c9224bf7322d00e17161655e85eac3b53859
Deleted: sha256:44c763022d0c5f96c23901dfa657fbc4713ce68693368fd5022185671f1c
ubuntu@ip-172-31-23-162:~$ docker rmi aded1e1a5b37
Untagged: alpine:latest
Untagged: alpine@sha256:a8560b36e8b8210634ff77d9f7ff9ef7fffa463e380b75e2e74aff4511df3ef88c
Deleted: sha256:aded1e1a5b3705116fa0a92ba074a5e0b0031647d9c315983ccb2ee5428ec8b

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