

```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu:~$ sudo apt-get update  
[sudo] password for aetheris:  
Hit:1 http://cr.archive.ubuntu.com/ubuntu jammy InRelease  
Get:2 http://cr.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]  
Hit:3 http://cr.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]  
Hit:5 https://download.docker.com/linux/ubuntu jammy InRelease  
Get:6 https://esm.ubuntu.com/apps/ubuntu jammy-apps-security InRelease [7 553 B]  
Hit:7 https://ppa.launchpadcontent.net/obsproject/obs-studio/ubuntu jammy InRelease  
Get:8 https://esm.ubuntu.com/apps/ubuntu jammy-apps-updates InRelease [7 456 B]  
Get:9 https://esm.ubuntu.com/infra/ubuntu jammy-infra-security InRelease [7 450 B]  
Get:10 https://esm.ubuntu.com/infra/ubuntu jammy-infra-updates InRelease [7 449 B]  
Fetched 259 kB in 1s (187 kB/s)  
Reading package lists... Done  
aetheris@aetheris-ubuntu:~$
```

```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu:~$ sudo apt-get install  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  nvidia-firmware-535-535.154.05 nvidia-firmware-535-535.86.05  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.  
aetheris@aetheris-ubuntu:~$
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```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu:~$ sudo apt-get install ca-certificates curl  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
ca-certificates is already the newest version (20230311ubuntu0.22.04.1).  
curl is already the newest version (7.81.0-1ubuntu1.16).  
The following packages were automatically installed and are no longer required:  
  nvidia-firmware-535-535.154.05 nvidia-firmware-535-535.86.05  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.  
aetheris@aetheris-ubuntu:~$
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```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu:~$ sudo install -m 0755 -d /etc/apt/keyrings  
aetheris@aetheris-ubuntu:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg  
-o /etc/apt/keyrings/docker.asc  
aetheris@aetheris-ubuntu:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg  
-o /etc/apt/keyrings/docker.asc  
aetheris@aetheris-ubuntu:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc  
aetheris@aetheris-ubuntu:~$ 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  
aetheris@aetheris-ubuntu:~$ sudo apt-get update  
Hit:1 http://cr.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://cr.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://cr.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Hit:5 https://download.docker.com/linux/ubuntu jammy InRelease  
Get:6 https://esm.ubuntu.com/apps/ubuntu jammy-apps-security InRelease [7 553 B]  
Get:7 https://esm.ubuntu.com/apps/ubuntu jammy-apps-updates InRelease [7 456 B]  
Get:8 https://esm.ubuntu.com/infra/ubuntu jammy-infra-security InRelease [7 450 B]  
Get:9 https://esm.ubuntu.com/infra/ubuntu jammy-infra-updates InRelease [7 449 B]  
Hit:10 https://ppa.launchpadcontent.net/obsproject/obs-studio/ubuntu jammy InRelease  
Fetched 29,9 kB in 1s (33,1 kB/s)  
Reading package lists... Done  
aetheris@aetheris-ubuntu:~$
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```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io d  
ocker-buildx-plugin docker-compose-plugin  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
containerd.io is already the newest version (1.6.31-1).  
docker-buildx-plugin is already the newest version (0.14.0-1~ubuntu.22.04~jammy).  
docker-ce-cli is already the newest version (5:26.1.0-1~ubuntu.22.04~jammy).  
docker-ce is already the newest version (5:26.1.0-1~ubuntu.22.04~jammy).  
docker-compose-plugin is already the newest version (2.26.1-1~ubuntu.22.04~jammy).  
The following packages were automatically installed and are no longer required:  
  nvidia-firmware-535-535.154.05 nvidia-firmware-535-535.86.05  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.  
aetheris@aetheris-ubuntu:~$
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```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu:~$ sudo docker run hello-world  
  
Hello from Docker!  
This message shows that your installation appears to be working correctly.  
  
To generate this message, Docker took the following steps:  
1. The Docker client contacted the Docker daemon.  
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
   (amd64)  
3. The Docker daemon created a new container from that image which runs the  
   executable that produces the output you are currently reading.  
4. The Docker daemon streamed that output to the Docker client, which sent it  
   to your terminal.  
  
To try something more ambitious, you can run an Ubuntu container with:  
$ docker run -it ubuntu bash  
  
Share images, automate workflows, and more with a free Docker ID:  
https://hub.docker.com/  
  
For more examples and ideas, visit:  
https://docs.docker.com/get-started/  
  
aetheris@aetheris-ubuntu:~$
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```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu: $ sudo groupadd docker  
groupadd: group 'docker' already exists  
aetheris@aetheris-ubuntu: $ sudo usermod -aG docker $USER  
aetheris@aetheris-ubuntu: $ newgrp docker  
aetheris@aetheris-ubuntu: $ docker run hello-world  
  
Hello from Docker!  
This message shows that your installation appears to be working correctly.  
  
To generate this message, Docker took the following steps:  
1. The Docker client contacted the Docker daemon.  
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
   (amd64)  
3. The Docker daemon created a new container from that image which runs the  
   executable that produces the output you are currently reading.  
4. The Docker daemon streamed that output to the Docker client, which sent it  
   to your terminal.  
  
To try something more ambitious, you can run an Ubuntu container with:  
$ docker run -it ubuntu bash  
  
Share images, automate workflows, and more with a free Docker ID:  
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For more examples and ideas, visit:  
https://docs.docker.com/get-started/  
  
aetheris@aetheris-ubuntu: $
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```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu: $ sudo systemctl start docker  
aetheris@aetheris-ubuntu: $ sudo docker network create misitio-net  
Error response from daemon: network with name misitio-net already exists  
aetheris@aetheris-ubuntu: $ sudo docker network create misitio  
57163c1f0097138c1f9ede05387605b6a047cble4a0a86f9dffa7b9cc33b6357  
aetheris@aetheris-ubuntu: $ docker images  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE  
edu-java-app        1.0.0              30dcee58f7d4       2 hours ago        371MB  
php                  apache              01a08dfbcef3       5 weeks ago        507MB  
mariadb              latest              bc6434c28e9a       2 months ago       405MB  
postgres             16                  d60dc4bd84c0       2 months ago       431MB  
hello-world          latest              d2c94e258dcb       11 months ago      13.3kB  
aetheris@aetheris-ubuntu: $ docker network -ls  
unknown shorthand flag: 'l' in -ls  
See 'docker network --help'.  
  
Usage:  docker network COMMAND  
  
Manage networks  
  
Commands:  
  connect      Connect a container to a network  
  create        Create a network  
  disconnect    Disconnect a container from a network  
  inspect       Display detailed information on one or more networks  
  ls            List networks  
  prune         Remove all unused networks  
  rm            Remove one or more networks  
  
Run 'docker network COMMAND --help' for more information on a command.  
  
aetheris@aetheris-ubuntu: $ docker network ls  
NETWORK ID          NAME                DRIVER              SCOPE  
794e3b35400b        bridge              bridge              local  
7fc06b7252c0        dockerizedapi_default bridge              local  
4bd242e489e5        host                host                local  
57163c1f0097        misitio              bridge              local  
d70c03f1b9ad        misitio-net          bridge              local  
7572c6d55a5d        none                 null                local  
aetheris@aetheris-ubuntu: $
```

```
aetheris@aetheris-ubuntu: ~  
aetheris@aetheris-ubuntu: $ sudo docker run -d --name mysql111 --network misitio -e MYSQL_ROOT_PASSWORD=davraa -e MYSQL_USER=davraa -e MYSQL_PASSWORD=123456 -e MYSQL_DATABASE=misitiodb -v websitedbvolume:/var/lib/mysql mariadb:latest  
1a22c935e271b844d7a55070fb270b386553eb2475ebcb33dc0ffa5dd386155e  
aetheris@aetheris-ubuntu: $ docker volume ls  
DRIVER      VOLUME NAME  
local       34756917c65115e503b795db6590a927d82760c26956bd40f9e2e5db10db7680  
local       websitedbvolume  
aetheris@aetheris-ubuntu: $ docker volume inspect websitedbvolume  
[  
  {  
    "CreatedAt": "2024-03-22T18:38:15-06:00",  
    "Driver": "local",  
    "Labels": null,  
    "Mountpoint": "/var/lib/docker/volumes/websitedbvolume/_data",  
    "Name": "websitedbvolume",  
    "Options": null,  
    "Scope": "local"  
  }  
]  
aetheris@aetheris-ubuntu: $
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```
aetheris@aetheris-ubuntu: ~/Documents/SOII/public_html
aetheris@aetheris-ubuntu:~/Documents/SOII/public_html$ docker run -d --name sitio
--network misitio -v $(pwd)/public_html:/var/www/html php:apache
de13ae34351abe0a6d614c48b2a4d80829db8c162d5a342990819ec1a530df92
aetheris@aetheris-ubuntu:~/Documents/SOII/public_html$
```

```
aetheris@aetheris-ubuntu: ~/Documents/SOII/public_html
0431cd4b685c  php:apache  "docker-php-entrypoi..." About a minute ago Up About a minute
80/tcp      sitio
1a22c935e271  mariadb:latest "docker-entrypoint.s..." 15 minutes ago Up 15 minutes
3306/tcp    mysql11
aetheris@aetheris-ubuntu:~/Documents/SOII/public_html$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
0431cd4b685c   php:apache    "docker-php-entrypoi..." 2 minutes ago Up 2 minutes  80/tc
p             sitio
1a22c935e271   mariadb:latest "docker-entrypoint.s..." 16 minutes ago Up 16 minutes  3306/
tcp          mysql11
aetheris@aetheris-ubuntu:~/Documents/SOII/public_html$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
0431cd4b685c   php:apache    "docker-php-entrypoi..." 4 minutes ago Up 4 minutes  80/tc
p             sitio
1a22c935e271   mariadb:latest "docker-entrypoint.s..." 18 minutes ago Up 18 minutes  3306/
tcp          mysql11
aetheris@aetheris-ubuntu:~/Documents/SOII/public_html$ docker stop sitio
sitio
aetheris@aetheris-ubuntu:~/Documents/SOII/public_html$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
1a22c935e271   mariadb:latest "docker-entrypoint.s..." 18 minutes ago Up 18 minutes  3306/
tcp          mysql11
aetheris@aetheris-ubuntu:~/Documents/SOII/public_html$
```