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Docker Installation

```
somnath@somnath-VirtualBox:~$ sudo apt-get install ca-certificates curl gnupg lsb-release
Reading package lists... Done
Building dependency tree
Reading state information... Done
lsb-release is already the newest version (11.1.0ubuntu2).
lsb-release set to manually installed.
ca-certificates is already the newest version (20210119~20.04.2).
curl is already the newest version (7.68.0-1ubuntu2.10).
gnupg is already the newest version (2.2.19-3ubuntu2.1).
gnupg set to manually installed.
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 libllvm10
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 234 not upgraded.
somnath@somnath-VirtualBox:~$ sudo apt install apt-transport-https ca-certificates curl software-prope
rties-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
ca-certificates is already the newest version (20210119~20.04.2).
curl is already the newest version (7.68.0-1ubuntu2.10).
software-properties-common is already the newest version (0.99.9.8).
apt-transport-https is already the newest version (2.0.6).
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 libllvm10
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 234 not upgraded.
somnath@somnath-VirtualBox:~$
```

```
0 upgraded, 0 newly installed, 0 to remove and 234 not upgraded.
somnath@somnath-VirtualBox:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add
-
OK
somnath@somnath-VirtualBox:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linu
x/ubuntu bionic stable"
Hit:1 https://download.docker.com/linux/ubuntu bionic InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Ign:5 https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/5.0 InRelease
Get:6 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:7 https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/5.0 Release
Hit:8 https://packages.microsoft.com/repos/ms-teams stable InRelease
Fetched 114 kB in 1s (128 kB/s)
Reading package lists... Done
somnath@somnath-VirtualBox:~$
```

```
● docker.service - Docker Application Container Engine
     Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
     Active: active (running) since Sun 2022-05-01 19:26:46 IST; 29s ago
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
   Main PID: 5292 (dockerd)
      Tasks: 7
     Memory: 26.7M
     CGroup: /system.slice/docker.service
             └─5292 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.060331105+05:30" level=wa>
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.060638014+05:30" level=wa>
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.060720722+05:30" level=wa>
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.060932672+05:30" level=in>
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.315991157+05:30" level=in>
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.549655019+05:30" level=in>
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.658008778+05:30" level=in>
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.658314216+05:30" level=in>
May 01 19:26:46 somnath-VirtualBox systemd[1]: Started Docker Application Container Engine.
May 01 19:26:46 somnath-VirtualBox dockerd[5292]: time="2022-05-01T19:26:46.740898422+05:30" level=in
lines 1-21/21 (END)
```

```
somnath@somnath-VirtualBox:~$ docker run hello-world
docker: Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/d
ocker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/create": dial unix /var/run/docke
r.sock: connect: permission denied.
See 'docker run --help'.
somnath@somnath-VirtualBox:~$ 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/

somnath@somnath-VirtualBox:~$
```

```
somnath@somnath-VirtualBox:~$ sudo docker images
REPOSITORY      TAG        IMAGE ID       CREATED        SIZE
hello-world     latest     feb5d9fea6a5   7 months ago   13.3kB
somnath@somnath-VirtualBox:~$ sudo docker run -it ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
125a6e411906: Pull complete
Digest: sha256:26c68657ccce2cb0a31b330cb0be2b5e108d467f641c62e13ab40cbec258c68d
Status: Downloaded newer image for ubuntu:latest
root@48ca53d98e64:/#
root@48ca53d98e64:/#
```