

Dev-Ops

Task 4 Report

**Arash
Behnamfar**



```
l-a user1 file ...  
devops@UbuntuServer:~$ sudo apt install -y ca-certificates curl gnupg lsb-release  
[sudo] password for devops:  
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.  
curl is already the newest version (8.5.0-2ubuntu10.6).  
gnupg is already the newest version (2.4.4-2ubuntu17.3).  
gnupg set to manually installed.  
lsb-release is already the newest version (12.0-2).  
lsb-release set to manually installed.  
The following packages were automatically installed and are no longer required:  
  linux-image-6.8.0-71-generic linux-modules-6.8.0-71-generic linux-modules-extra-6.8.0-71-generic linux-tools-6.8.0-71 linux-tools-6.  
Use 'sudo apt autoremove' to remove them.
```

```
devops@UbuntuServer:~$ sudo mkdir -p /etc/apt/keyrings
devops@UbuntuServer:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings//docker.gpg
```

```
devops@UbuntuServer:~$ echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] \
https://download.docker.com/linux/ubuntu \
$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
devops@UbuntuServer:~$
```

```
devops@UbuntuServer:~$ sudo apt install -y 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 packages were automatically installed and are no longer required:
  linux-image-6.8.0-71-generic linux-modules-6.8.0-71-generic linux-modules-extra-6.8.0-71-generic linux-tools-6.8.0-71 linux-tools-6.8.0-71-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  docker-ce-rootless-extras libslirp0 pigz slirp4netns
Suggested packages:
  cgroupfs-mount | cgroup-lite docker-model-plugin
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli docker-ce-rootless-extras docker-compose-plugin libslirp0 pigz slirp4netns
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
Need to get 103 MB of archives.
After this operation, 431 MB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64 1.7.27-1 [30.5 MB]
Get:3 http://us.archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0-1ubuntu3 [63.8 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu noble/universe amd64 slirp4netns amd64 1.2.1-1build2 [34.9 kB]
15% [2 containerd.io 10.6 MB/30.5 MB 35%] 769 kB/s
```

```
no --gpus are running on your system
devops@UbuntuServer:~$ docker --version
Docker version 28.4.0, build d8eb465
devops@UbuntuServer:~$
```

```
devops@UbuntuServer:~$ sudo docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:54e66cc1dd1fcb1c3c58bd8017914dbed8701e2d8c74d9262e26bd9cc1642d31
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
devops@UbuntuServer:~$
```

```
devops@UbuntuServer:~$ sudo docker run -d -p 8080:80 --name webtest nginx
```



```
devops@UbuntuServer:~$ sudo docker run -d -p 8080:80 --name webtest nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
d107e437f729: Pull complete
cb497a329a81: Pull complete
f1c4d397f477: Pull complete
f72106e86507: Pull complete
899c83fc198b: Pull complete
a785b80f5a67: Pull complete
6c50e4e0c439: Pull complete
Digest: sha256:d5f28ef21aabddd098f3dbc21fe5b7a7d7a184720bc07da0b6c9b9820e97f25e
Status: Downloaded newer image for nginx:latest
35a2b216e91a660aae8be684b17c3e9757b9f53af8e6c75f08cddb83c51c9dcd
devops@UbuntuServer:~$
```

```
devops@UbuntuServer:~$ sudo docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
35a2b216e91a	nginx	"/docker-entrypoint.■"	26 seconds ago	Up 25 seconds	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	webtest

```
devops@UbuntuServer:~$ _
```

```
devops@UbuntuServer:~$ sudo docker stop 35a2b216e91a
35a2b216e91a
```

```
devops@UbuntuServer:~$ sudo docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
35a2b216e91a	nginx	"/docker-entrypoint.■"	About a minute ago	Exited (0) 41 seconds ago		webtest

```
devops@UbuntuServer:~$
```