

## Assignment 2B

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```
ubuntu@ubuntu-HP-Laptop-15s-du3xxx: ~  
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ 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).  
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:  
  linux-headers-5.8.0-55-generic linux-hwe-5.8-headers-5.8.0-55  
  linux-image-5.8.0-55-generic linux-modules-5.8.0-55-generic  
  linux-modules-extra-5.8.0-55-generic  
Use 'sudo apt autoremove' to remove them.  
The following NEW packages will be installed:  
  curl  
0 upgraded, 1 newly installed, 0 to remove and 316 not upgraded.  
Need to get 161 kB of archives.  
After this operation, 412 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 curl amd64 7.68.0-1ubuntu2.7 [161 kB]  
Fetched 161 kB in 1s (132 kB/s)  
Selecting previously unselected package curl.  
(Reading database ... 228912 files and directories currently installed.)  
Preparing to unpack .../curl_7.68.0-1ubuntu2.7_amd64.deb ...  
Unpacking curl (7.68.0-1ubuntu2.7)
```

```
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg  
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ echo \\  
> "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \\  
>   $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null  
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ sudo apt-get update  
Get:1 https://download.docker.com/linux/ubuntu focal InRelease [57.7 kB]  
Get:2 http://repo.mysql.com/apt/ubuntu focal InRelease [12.9 kB]  
Get:3 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [15.5 kB]  
Get:4 http://dl.google.com/linux/chrome/deb stable InRelease  
Get:5 http://repo.mysql.com/apt/ubuntu focal InRelease  
The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 467B942D3A79B029  
Get:6 https://packages.microsoft.com/repos/ms-teams stable InRelease  
Get:7 http://us.archive.ubuntu.com/ubuntu focal InRelease  
Get:8 http://security.ubuntu.com/ubuntu focal-security InRelease  
Get:9 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease  
Get:10 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease  
Fetched 86.0 kB in 1s (81.2 kB/s)  
Reading package lists... Done  
W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used. GPG error: http://repo.mysql.com/apt/ubuntu focal InRelease: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 467B942D3A79B029
```

```
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  bridge-utils linux-headers-5.8.0-55-generic linux-hwe-5.8-headers-5.8.0-55  
  linux-image-5.8.0-55-generic linux-modules-5.8.0-55-generic  
  linux-modules-extra-5.8.0-55-generic ubuntu-fan  
Use 'sudo apt autoremove' to remove them.  
The following additional packages will be installed:  
  docker-ce-rootless-extras docker-scan-plugin slirp4netns  
Suggested packages:  
  aufs-tools cgroupfs-mount | cgroup-lite  
The following packages will be REMOVED:  
  containerd docker.io runc  
The following NEW packages will be installed:  
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras  
  docker-scan-plugin slirp4netns  
0 upgraded, 6 newly installed, 3 to remove and 316 not upgraded.  
Need to get 96.3 MB of archives.  
After this operation, 45.5 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 https://download.docker.com/linux/ubuntu focal/stable amd64 containerd.io amd64 1.5.11-1 [22.9 MB]  
Get:2 http://us.archive.ubuntu.com/ubuntu focal/universe amd64 slirp4netns amd64 0.4.3-1 [74.3 kB]  
Get:3 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-cli amd64 5:20.10.14-3-0-ubuntu-focal  
Get:4 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd64 5:20.10.14-3-0-ubuntu-focal [20  
Get:5 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-rootless-extras amd64 5:20.10.14-3-0-
```

## Assignment 2B

```
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ apt-cache madison docker-ce
docker-ce | 5:20.10.14~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.13~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.12~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.11~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.10~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.9~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.8~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.7~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.6~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.5~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.4~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.3~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.2~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.1~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:20.10.0~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:19.03.15~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:19.03.14~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:19.03.13~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:19.03.12~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
docker-ce | 5:19.03.11~3-0-ubuntu-focal | https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ sudo apt-get install docker-ce=5:20.10.14~3-0-ubuntu-focal docker-ce-cli=5:20.10.14~3-0-ubuntu-focal containerd.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
containerd.io is already the newest version (1.5.11-1).
docker-ce-cli is already the newest version (5:20.10.14~3-0-ubuntu-focal).
docker-ce is already the newest version (5:20.10.14~3-0-ubuntu-focal).
The following packages were automatically installed and are no longer required:
  bridge-utils linux-headers-5.8.0-55-generic linux-hwe-5.8.0-headers-5.8.0-55 linux-image-5.8.0-55-generic
  linux-modules-5.8.0-55-generic linux-modules-extra-5.8.0-55-generic ubuntu-fan
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 316 not upgraded.
```

```
ubuntu@ubuntu-HP-Laptop-15s-du3xxx:~$ 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/>