Installing Docker on Ubuntu

Warning: this tutorial requires you to restart your computer.

For other distributions of Linux (for example Debian, Fedora, etc) see the link https://docs.docker.com/desktop/setup/install/linux/.

1. Install Docker from the Command Line

Unlike Windows or Mac, the best option for installing Docker on Ubuntu is through the command line. You can see below the commands you should copy and paste in the **terminal** in order to install the tool.

a. Ensure that old versions of docker are removed to start fresh with this installation.

```
sudo apt remove docker docker-engine docker.io containerd
run
```

→ When using **sudo** the terminal will ask you for the password you use to access your user to allow changes to be made to your computer.

b. Install required packages

In this step we will update all system packages, and then install the Docker-related packages.

```
sudo apt update
sudo apt install apt-transport-https ca-certificates curl
software-properties-common
```

After the second command starts, it will ask you for **permission** to install the packages. You will need to type '**Yes**' into the terminal to start the installation process.

You will be asked to select your region by entering the corresponding number from the list.
You will also need to then select your city (or the closest one available), and next your correspondent timezone.

c. Install Docker

In this step we will use the command line to install docker engine from the official repository. First, it adds a key to match the Docker version with your operating system (OS), and then it finally installs the software that includes all Docker tools. Don't worry about the details, just copy and paste the commands below.

```
#  Add Docker's GPG key
curl -fsSL https://download.docker.com/linux/ubuntu/gpg |
sudo gpg --dearmor -o
/usr/share/keyrings/docker-archive-keyring.gpg

#  Add Docker's official repository
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

#  Install Docker Engine
sudo apt update
sudo apt install docker-ce docker-ce-cli containerd.io
```

d. For Ubuntu 24.04, add your user to the docker group

To be able to use Docker with your user account, you need to add your user to the Docker group, by running the following command:

```
sudo usermod -aG docker $USER
```

e. **Restart your computer** for the changes to take effect

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2. Verify Docker Install

Open a **terminal** and run the code below (copy and paste it in the terminal, and press enter):

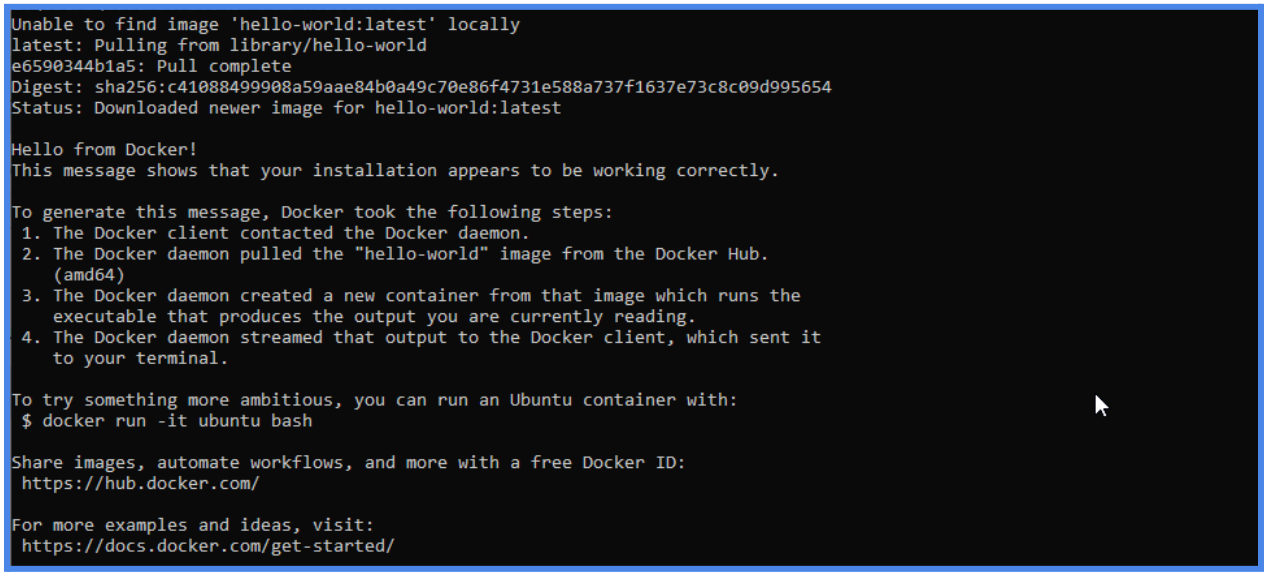
```
docker --version
```

```
docker run hello-world
```

The first command should output the docker version, for example**:**

Docker version 28.1.1

The second command should **download a test image** and **run a simple container**, verifying everything is working. Below is an example of the expected output.



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3. Use Docker

You can now **pull the tabulizer image** we will use for the workshop (paste the command below in the terminal):

```
docker pull vpnagraj/tabulizer:latest
```