

## Data Engineer Bootcamp (Full-Time)

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Notes



**WeCloudData**

### Data Engineering Diploma

Content developed by: WeCloudData Academy

## Detail Guide

Docker is a set of platform as a service products that use OS-level virtualization to deliver software in packages called containers. We will use docker to hold many applications. Here is the video tell you how to install MySQL on Windows.

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## Docker and Docker Compose

### Docker

#### Docker Installation Steps

- Update APT

```
sudo apt-get update
```

- Uninstall any old versions of docker, if you have any. [Optional]

```
sudo apt-get remove docker docker-engine docker.io
```

- Download and install the Docker

```
sudo apt install docker.io
```

- Start and enable the Docker.

```
sudo systemctl start docker  
sudo systemctl enable docker
```

- To be able to run the docker with root privileges without using 'sudo', add the user to the docker group. [Read here](#)

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

- Reboot the Ubuntu system to enable the docker group.

```
reboot
```

- To check if the installation was successful(the client and server information will be printed):

docker version

# Docker Compose

## Docker Compose Installation Steps

- Check if you have **curl** command installed on your system. If not, execute following commands to install **curl**

```
sudo apt-get update
sudo apt install curl
```

- The first command updates the packages and their dependencies. The second command installs **curl** on the system.
- To check if the **curl** command is successfully installed on the system, run following command:

```
curl --version
```

- Confirm the latest version available in their [release page](#). The current version is 1.28.4
- Download the release and save the executable file at **/usr/local/bin/docker-compose** .

```
sudo curl -L "https://github.com/docker/compose/releases/download/1.28.4/docker-compose-Linux-x86_64" -o /usr/bin/docker-compose
```

- Set the permissions to make the **docker-compose** command executable.

```
sudo chmod +x /usr/bin/docker-compose
```

- To check if the installation was successful execute the following command:

```
docker-compose --version
```

- You should get output like this:

```
bhargavi@bhargavi-VirtualBox:~$ vi docker-compose-install.sh
bhargavi@bhargavi-VirtualBox:~$ docker-compose --version
docker-compose version 1.28.4, build cabd5cfb
bhargavi@bhargavi-VirtualBox:~$
```

**Note:** You can also use the shell script to install the docker.

Download the [Docker Compose installation](#) shell script, make it executable and execute it.

```
START
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE
bhargavi@bhargavi-VirtualBox:~$ chmod u+x docker-compose-install.sh
bhargavi@bhargavi-VirtualBox:~$ ./docker-compose-install.sh
[sudo] password for bhargavi:
```

[Course Content](#)

Enter code



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Surveys



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Week 00 (Virtual)- Program Preparation



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Week 01 - SQL



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Week 02 - Python



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Week 03 - Client Project



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Sunday - Docker I



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Monday - Docker II



[\[Lab\] Workshop: Install Zepplin with Docker](#)



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Tuesday - Real Client Project Phase 2

Wednesday - Real Client Project Phase 2

Thursday - Real Client Project Phase 2



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[\[Lab\] Software Installation: Docker](#)

