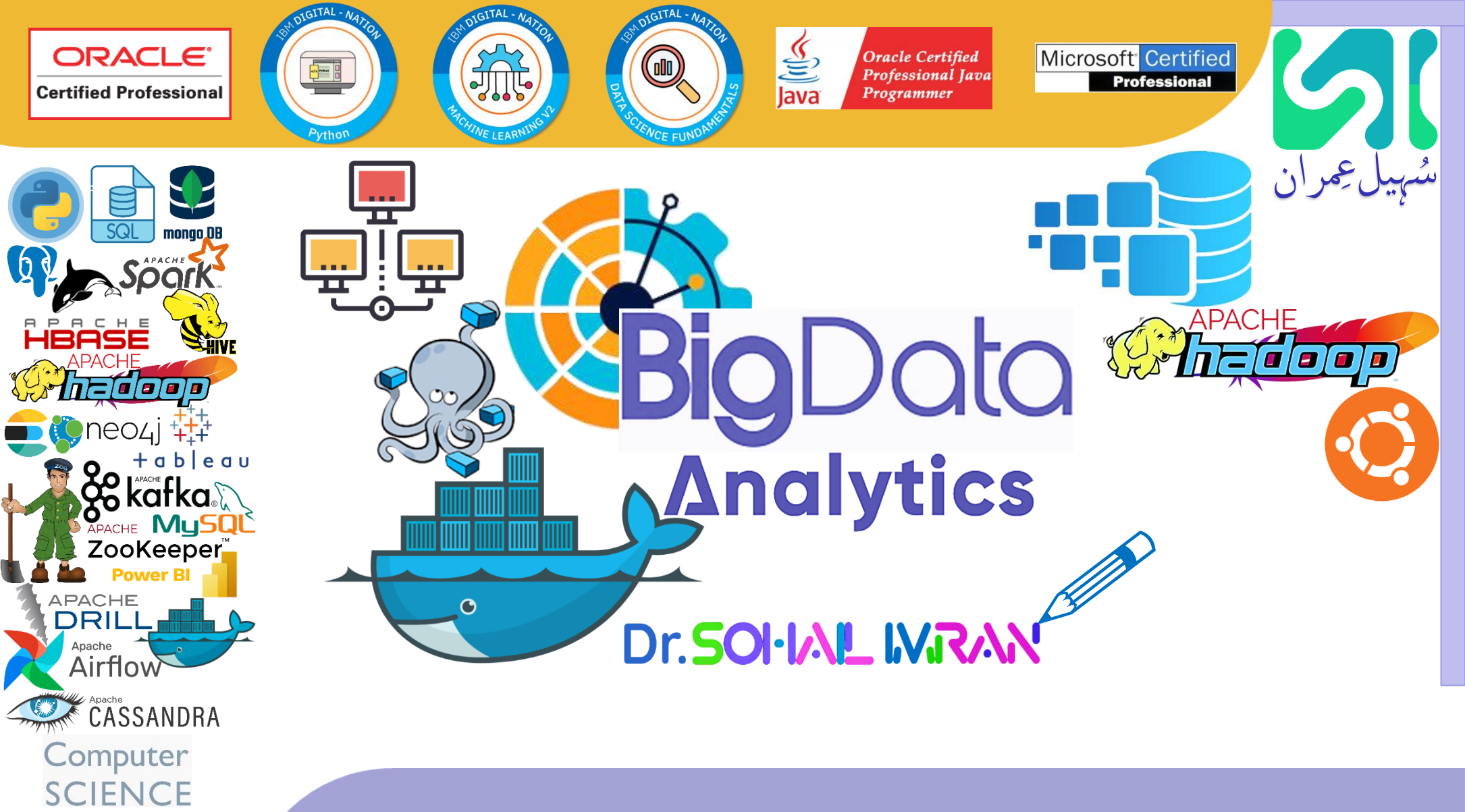



# Hadoop on Docker

sohailimran2@yahoo.com

Ref: Web

# update

## sudo apt update

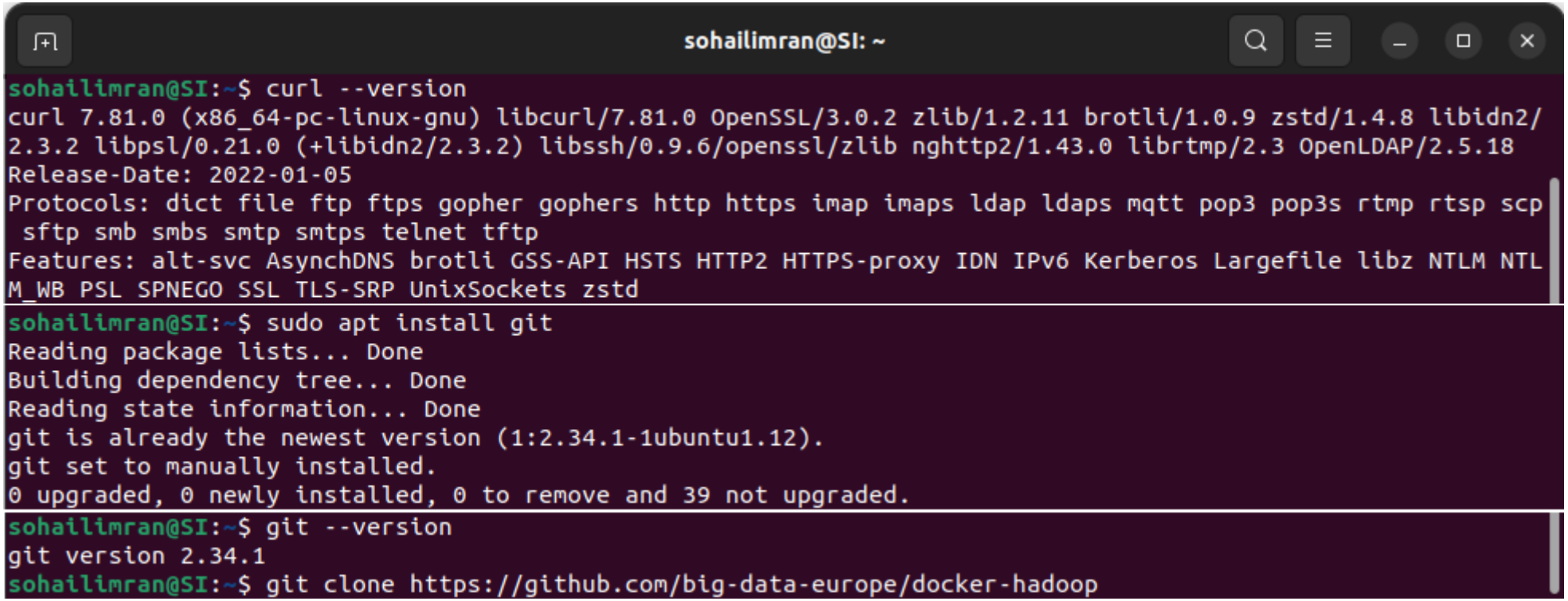
```
sohailimran@SI: ~
sohailimran@SI:~$ sudo apt update
[sudo] password for sohailimran:
Hit:1 http://pk.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://pk.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://pk.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 https://download.docker.com/linux/ubuntu jammy InRelease [48.8 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:6 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [51.0 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/main i386 Packages [644 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2,375 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [359 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [54.5 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [3,513 kB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [628 kB]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 DEP-11 Metadata [208 B]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [974 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/universe i386 Packages [659 kB]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [210 kB]
Get:17 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [126 kB]
Get:18 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 DEP-11 Metadata [208 B]
Fetched 9,769 kB in 19s (507 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
39 packages can be upgraded. Run 'apt list --upgradable' to see them.
sohailimran@SI:~$
```

# install git

curl --version

sudo apt install git

git --version



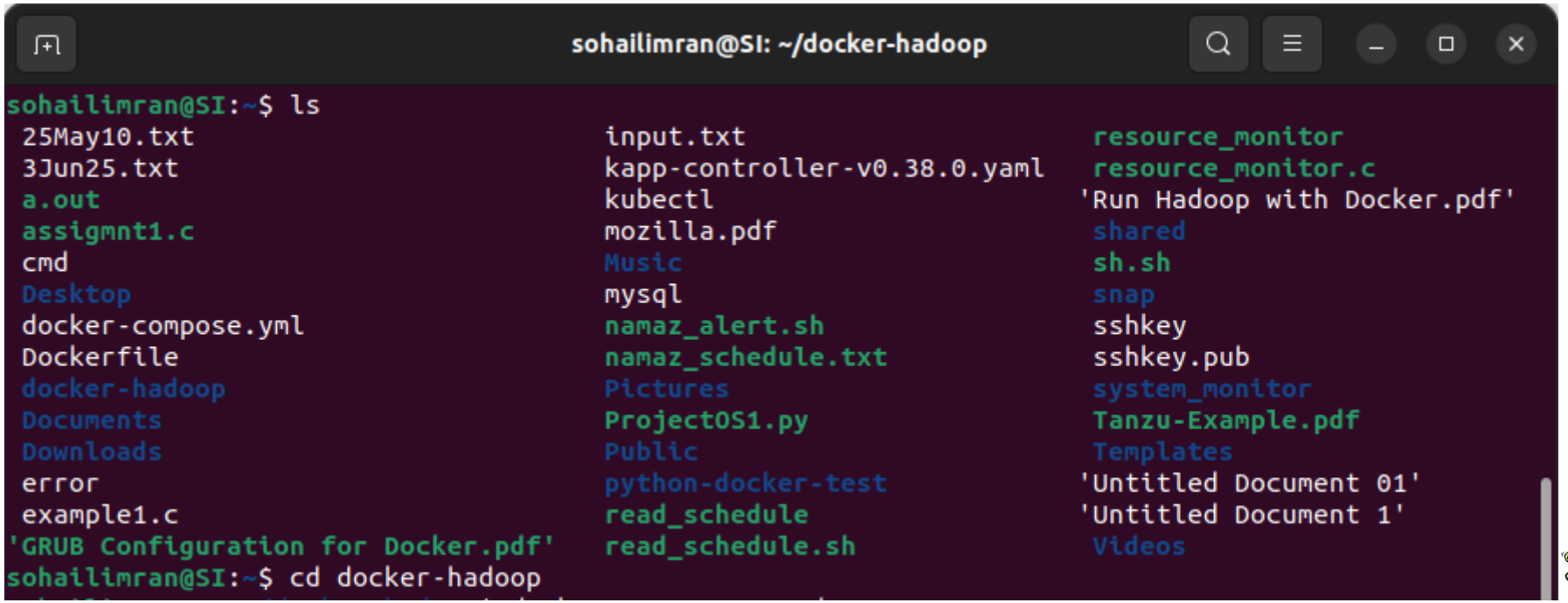
# git clone

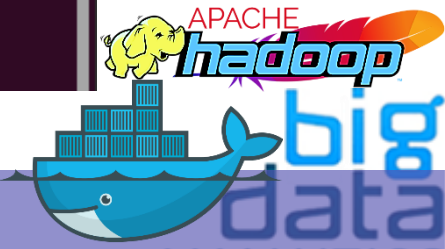
**git clone https://github.com/big-data-europe/docker-hadoop**

```
sohailimran@SI:~$ git clone https://github.com/big-data-europe/docker-hadoop
```

**ls**

**cd docker-hadoop**

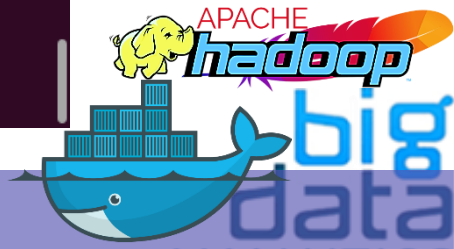


# compose

## docker compose version
## docker compose up -d

```
sohailimran@SI: ~/docker-hadoop
sohailimran@SI:~/docker-hadoop$ docker compose version
Docker Compose version v2.34.0
sohailimran@SI:~/docker-hadoop$ docker compose up -d
```

## docker ps

```
sohailimran@SI: ~/docker-hadoop
sohailimran@SI:~/docker-hadoop$ docker ps
CONTAINER ID   IMAGE                                                COMMAND                  CREATED        STATUS
               PORTS                                                                                       NAMES
4511115cd281   bde2020/hadoop-namenode:2.0.0-hadoop3.2.1-java8      "/entrypoint.sh /run…"   37 hours ago   Up 35 minut
es (healthy)   0.0.0.0:9000->9000/tcp, [::]:9000->9000/tcp, 0.0.0.0:9870->9870/tcp, [::]:9870->9870/tcp   namenode
6a48644abe2e   bde2020/hadoop-nodemanager:2.0.0-hadoop3.2.1-java8   "/entrypoint.sh /run…"   37 hours ago   Up 35 minut
es (healthy)   8042/tcp                                                                                    nodemanager
17ab4d754ed7   bde2020/hadoop-historyserver:2.0.0-hadoop3.2.1-java8 "/entrypoint.sh /run…"   37 hours ago   Up 35 minut
es (healthy)   8188/tcp                                                                                    historyserver
b3dd1e0185b3   bde2020/hadoop-datanode:2.0.0-hadoop3.2.1-java8      "/entrypoint.sh /run…"   37 hours ago   Up 35 minut
es (healthy)   9864/tcp                                                                                    datanode
d9354297ec38   bde2020/hadoop-resourcemanager:2.0.0-hadoop3.2.1-java8 "/entrypoint.sh /run…"   37 hours ago   Up 34 minut
es (healthy)   8088/tcp                                                                                    resourcemanager
sohailimran@SI:~/docker-hadoop$ docker images
REPOSITORY                      TAG                 IMAGE ID       CREATED         SIZE
mysql                           5.7                 5107333e08a8   17 months ago   501MB
bde2020/hadoop-nodemanager      2.0.0-hadoop3.2.1-java8   4e47dabd148f   5 years ago     1.37GB
bde2020/hadoop-resourcemanager  2.0.0-hadoop3.2.1-java8   3deba4a1885f   5 years ago     1.37GB
bde2020/hadoop-namenode         2.0.0-hadoop3.2.1-java8   839ec11d95f8   5 years ago     1.37GB
bde2020/hadoop-historyserver    2.0.0-hadoop3.2.1-java8   173c52d1f624   5 years ago     1.37GB
bde2020/hadoop-datanode         2.0.0-hadoop3.2.1-java8   df288ee0a7f9   5 years ago     1.37GB
sohailimran@SI:~/docker-hadoop$
```