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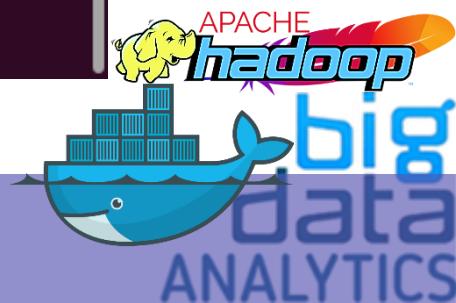
Computer
SCIENCE

Hadoop on Docker



sudo apt update

```
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

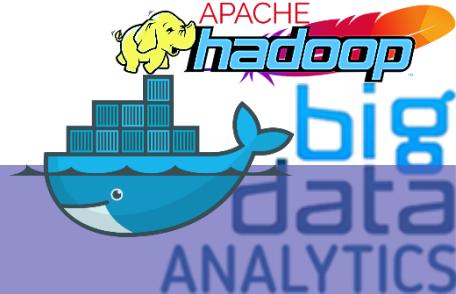


curl --version

sudo apt install git

git --version

```
sohailimran@SI:~$ curl --version
curl 7.81.0 (x86_64_pc-linux-gnu) libcurl/7.81.0 OpenSSL/3.0.2 zlib/1.2.11 brotli/1.0.9 zstd/1.4.8 libidn2/
2.3.2 libpsl/0.21.0 (+libidn2/2.3.2) libssh/0.9.6/openssl/zlib nghttp2/1.43.0 librtmp/2.3 OpenLDAP/2.5.18
Release-Date: 2022-01-05
Protocols: dict file ftp ftps gopher gophers http https imap imaps ldap ldaps mqtt pop3 pop3s rtmp rtsp scp
sftp smb smbs smtp smtps telnet tftp
Features: alt-svc AsynchDNS brotli GSS-API HSTS HTTP2 HTTPS-proxy IDN IPv6 Kerberos Largefile libz NTLM NTL
M_WB PSL SPNEGO SSL TLS-SRP UnixSockets zstd
sohailimran@SI:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.12).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 39 not upgraded.
sohailimran@SI:~$ git --version
git version 2.34.1
sohailimran@SI:~$ git clone https://github.com/big-data-europe/docker-hadoop
```





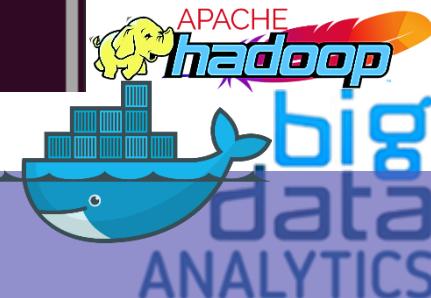
git clone https://github.com/big-data-europe/docker-hadoop

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

ls

cd docker-hadoop

```
sohailimran@SI:~$ ls
25May10.txt           input.txt          resource_monitor
3Jun25.txt           kapp-controller-v0.38.0.yaml  resource_monitor.c
a.out                kubectl            'Run Hadoop with Docker.pdf'
assignm1.c            mozilla.pdf        shared
cmd                 Music               sh.sh
Desktop              mysql               snap
docker-compose.yml   namaz_alert.sh    sshkey
Dockerfile           namaz_schedule.txt  sshkey.pub
docker-hadoop        Pictures           system_monitor
Documents            ProjectOS1.py    Tanzu-Example.pdf
Downloads            Public              Templates
error               python-docker-test 'Untitled Document 01'
example1.c           read_schedule    'Untitled Document 1'
'GRUB Configuration for Docker.pdf'  read_schedule.sh  Videos
sohailimran@SI:~$ cd docker-hadoop
```





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              NAMES
4511115cd281        bde2020/hadoop-namenode:2.0.0-hadoop3.2.1-jav...   "/entrypoint.sh /run..."   37 hours ago       Up 35 minutes   namenode
es (healthy)
6a48644abe2e        bde2020/hadoop-nodemanager:2.0.0-hadoop3.2.1-jav...   "/entrypoint.sh /run..."   37 hours ago       Up 35 minutes   nodemanager
8042/tcp
17ab4d754ed7        bde2020/hadoop-historyserver:2.0.0-hadoop3.2.1-jav...   "/entrypoint.sh /run..."   37 hours ago       Up 35 minutes   historyserver
8188/tcp
b3dd1e0185b3        bde2020/hadoop-datanode:2.0.0-hadoop3.2.1-jav...   "/entrypoint.sh /run..."   37 hours ago       Up 35 minutes   datanode
9864/tcp
d9354297ec38        bde2020/hadoop-resourcemanager:2.0.0-hadoop3.2.1-jav...   "/entrypoint.sh /run..."   37 hours ago       Up 34 minutes    resourcemanager
8088/tcp
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-jav...  4e47dabd148f      5 years ago      1.37GB
bde2020/hadoop-resourcemanager 2.0.0-hadoop3.2.1-jav...  3deba4a1885f      5 years ago      1.37GB
bde2020/hadoop-namenode      2.0.0-hadoop3.2.1-jav...  839ec11d95f8      5 years ago      1.37GB
bde2020/hadoop-historyserver 2.0.0-hadoop3.2.1-jav...  173c52d1f624      5 years ago      1.37GB
bde2020/hadoop-datanode      2.0.0-hadoop3.2.1-jav...  df288ee0a7f9      5 years ago      1.37GB
sohailimran@SI:~/docker-hadoop$
```

