Second Instruction

Automated Installation of Big Data Utilities (Hadoop, Sqoop, Pig, and Python)

via Shell Script File

Step 1/6:

Open the terminal, type **sudo su** - and press the **Enter** key to switch to the root user.

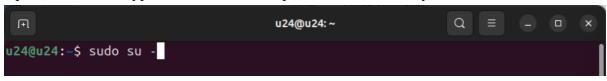


Figure 1. Switching to the root user.

Step 2/6:

Enter the password for the current user and press the **Enter** key.



Figure 2. Filling the password for the current user.

Step 3/6:

Type wget https://raw.githubusercontent.com/homony/big data/

refs/heads/main/install_big_data_utilities.sh and press Enter key to download a script file named install_big_data_utilities.sh to store in /root/ directory.

```
root@u24:~

u24@u24:~$ sudo su -
[sudo] password for u24:
root@u24:~# wget https://raw.githubusercontent.com/homony/big_data/refs/heads/main/install_big_data_utilities.sh
```

Figure 3. Downloading script file from GitHub.

Step 4/6:

Type **chmod** +x install_big_data_utilities.sh and press Enter key to grant execute permission to the script file.



Figure 4. Granting execute permission to the script file.

Step 5/6:

Type ./install_big_data_utilities.sh and press Enter key to execute the script file and install Big Data utilities such as java, SSH, Hadoop, Sqoop, Pig, and Python. The installation will take approximately 10 minutes to complete.



Figure 5. Executing the script file and install big data utilities.

Step 6/6:

After the installation is complete, search the terminal output to verify that all utilities as the following have been installed successfully.

```
openjdk version "11.0.26" 2025-01-21
Hadoop 2.10.2
Apache Pig version 0.15.0
Sqoop 1.4.7
Python 3.12.3
pip 24.0
```

```
root@u24: ~
Processing triggers for desktop-file-utils (0.27-2build1) ...
openjdk version "11.0.26" 2025-01-21
OpenJDK Runtime Environment (build 11.0.26+4-post-Ubuntu-1ubuntu124.04)
OpenJDK 64-Bit Server VM (build 11.0.26+4-post-Ubuntu-1ubuntu124.04, mixed mode,
sharing)
Hadoop 2.10.2
Subversion Unknown -r 965fd380006fa78b2315668fbc7eb432e1d8200f
Compiled by ubuntu on 2022-05-24T22:35Z
Compiled with protoc 2.5.0
From source with checksum d3ab737f7788f05d467784f0a86573fe
This command was run using /usr/local/hadoop/share/hadoop/common/hadoop-common-2
.10.2.jar
4912 NameNode
7026 Jps
5170 DataNode
5570 ResourceManager
5350 SecondaryNameNode
5687 NodeManager
Apache Pig version 0.15.0 (r1682971)
compiled Jun 01 2015, 11:44:35
Warning: /usr/local/sqoop/../hbase does not exist! HBase imports will fail.
Please set $HBASE_HOME to the root of your HBase installation.
Warning: /usr/local/sqoop/../hcatalog does not exist! HCatalog jobs will fail.
Sqoop 1.4.7
git commit id 2328971411f57f0cb683dfb79d19d4d19d185dd8
Compiled by maugli on Thu Dec 21 15:59:58 STD 2017
Python 3.12.3
pip 24.0 from /usr/lib/python3/dist-packages/pip (python 3.12)
root@u24:~#
```

Figure 6. Installation is complete and display in terminal