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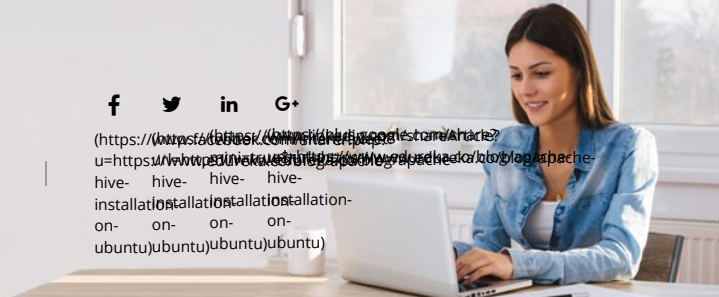
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Apache Hive Installation on Ubuntu

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In this blog, we will learn about Apache Hive and Hive installation on Ubuntu.

What is Apache Hive?

Apache Hive is a data warehouse infrastructure that facilitates querying and managing large data sets which resides in distributed storage system. It is built on top of Hadoop and developed by Facebook. **Hive** provides a way to query the data using a SQL-like query language called **HiveQL (Hive query Language)**.

Internally, a compiler translates **HiveQL** statements into **MapReduce** jobs, which are then submitted to **Hadoop framework** for execution.

Difference between Hive and SQL:

Hive looks very much similar like traditional database with **SQL** access. However, because **Hive** is based on **Hadoop** and **MapReduce** operations, there are several key differences:

As Hadoop is intended for long sequential scans and **Hive** is based on **Hadoop**, you would expect queries to have a very high latency. It means that **Hive** would not be appropriate for those applications that need very fast response times, as you can expect with a traditional RDBMS database.

Finally, **Hive** is read-based and therefore not appropriate for transaction processing that typically involves a high percentage of write operations.

Hive Installation on Ubuntu:

Please follow the below steps to install **Apache Hive** on Ubuntu:

Step 1: Download **Hive tar**.

Command: `wget http://archive.apache.org/dist/hive/hive-2.1.0/apache-hive-2.1.0-bin.tar.gz`

Step 2: Extract the **tar** file.

Command: `tar -xzf apache-hive-2.1.0-bin.tar.gz`

Command: `ls`

```
edureka@localhost:~$ tar -xzf apache-hive-2.1.0-bin.tar.gz
edureka@localhost:~$ ls
apache-hive-2.1.0-bin  Documents  Music  Templates
apache-hive-2.1.0-bin.tar.gz  Downloads  Pictures  Videos
Desktop  examples.desktop  Public
```

Step 3: Edit the `“.bashrc”` file to update the environment variables for user.

Command: `sudo gedit .bashrc`

Add the following at the end of the file:

```
# Set HIVE_HOME

export HIVE_HOME=/home/edureka/apache-hive-2.1.0-bin
export PATH=$PATH:/home/edureka/apache-hive-2.1.0-bin/bin
```

Also, make sure that hadoop path is also set.

```
# Set Hadoop-related environment variables

export HADOOP_HOME=/home/edureka/hadoop-2.7.3
export HADOOP_CONF_DIR=/home/edureka/hadoop-2.7.3/etc/hadoop
export HADOOP_MAPRED_HOME=/home/edureka/hadoop-2.7.3
export HADOOP_COMMON_HOME=/home/edureka/hadoop-2.7.3
export HADOOP_HDFS_HOME=/home/edureka/hadoop-2.7.3
export YARN_HOME=/home/edureka/hadoop-2.7.3
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/lib/native
export HADOOP_OPTS="-Djava.library.path=$HADOOP_HOME/lib"
```

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```
export PATH=$PATH:/home/edureka/hadoop-2.7.3/bin
# Add Hadoop bin/ directory to PATH
export PATH=$PATH:/home/edureka/hadoop-2.7.3/bin
export HADOOP_PID_DIR=/home/edureka/hadoop-2.7.3/hadoop2_data/hdfs/pid
```

Run below command to make the changes work in same terminal.

Command: source .bashrc

Step 4: Check hive version.

```
edureka@localhost:~$ hive --version
Hive 2.1.0
Subversion git://jcamachoguezrMBP/Users/jcamachorodriguez/src/workspaces/
hive/HIVE-release2/hive -r 9265bc24d75ac945bde9ce1a0999fddd8f2aae29
Compiled by jcamachorodriguez on Fri Jun 17 01:03:25 BST 2016
From source with checksum 1f896b8fae57fbd29b047d6d67b75f3c
edureka@localhost:~$
```

Step 5: Create **Hive** directories within **HDFS**. The directory '**warehouse**' is the location to store the table or data related to hive.

Command:

- hdfs dfs -mkdir -p /user/hive/warehouse
- hdfs dfs -mkdir /tmp

Step 6: Set read/write permissions for table.

Command:

In this command, we are giving write permission to the group:

- hdfs dfs -chmod g+w /user/hive/warehouse
- hdfs dfs -chmod g+w /tmp

Step 7: Set **Hadoop** path in **hive-env.sh**

Command: cd apache-hive-2.1.0-bin/

Command: gedit conf/hive-env.sh

```
edureka@localhost:~$ cd apache-hive-2.1.0-bin/
edureka@localhost:~/apache-hive-2.1.0-bin$ cp conf/hive-env.sh.template
conf/hive-env.sh
edureka@localhost:~/apache-hive-2.1.0-bin$ gedit conf/hive-env.sh
```

Set the parameters as shown in the below snapshot.

```
# Set HADOOP_HOME to point to a specific hadoop install directory
export HADOOP_HOME=/home/edureka/hadoop-2.7.3

export HADOOP_HEAPSIZE=512

# Hive Configuration Directory can be controlled by:
export HIVE_CONF_DIR=/home/edureka/apache-hive-2.1.0-bin/conf
```

Step 8: Edit **hive-site.xml**

Command: gedit conf/hive-site.xml

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<?xml-stylesheet type="text/xsl" href="configuration.xml"?><!--
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<configuration>
<property>
<name>javax.jdo.option.ConnectionURL</name>
<value>jdbc:derby;;databaseName=/home/edureka/apache-hive-2.1.0-bin/metastore_db;create=true</value>
<description>
JDBC connect string for a JDBC metastore.
To use SSL to encrypt/authenticate the connection, provide database-specific SSL flag in the connection URL.
For example, jdbc:postgresql://myhost/db?ssl=true for postgres database.
</description>
</property>
<property>
<name>hive.metastore.warehouse.dir</name>
<value>/user/hive/warehouse</value>
<description>location of default database for the warehouse</description>
</property>
<property>
```

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```

</property>
<property>
<name>javax.jdo.option.ConnectionDriverName</name>
<value>org.apache.derby.jdbc.EmbeddedDriver</value>
<description>Driver class name for a JDBC metastore</description>
</property>
<property>
<name>javax.jdo.PersistenceManagerFactoryClass</name>
<value>org.datanucleus.api.jdo.JDOPersistenceManagerFactory</value>
<description>class implementing the jdo persistence</description>
</property>
</configuration>

```

Step 9: By default, Hive uses **Derby** database. Initialize Derby database.

Command: bin/schematool -initSchema -dbType derby

```

edureka@localhost:~$ cd apache-hive-2.1.0-bin/
edureka@localhost:~/apache-hive-2.1.0-bin$ bin/schematool -initSchema -dbType derby
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/edureka/apache-hive-2.1.0-bin/lib/log4j-slf4j-impl-2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/edureka/hadoop-2.7.3/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Metastore connection URL: jdbc:derby:;databaseName=/home/edureka/apache-hive-2.1.0-bin/metastore_db;create=true
Metastore Connection Driver : org.apache.derby.jdbc.EmbeddedDriver
Metastore connection User: APP
Starting metastore schema initialization to 2.1.0
Initialization script hive-schema-2.1.0.derby.sql
Initialization script completed
SchemaTool completed
edureka@localhost:~/apache-hive-2.1.0-bin$

```

Step 10: Launch **Hive**.

Command: hive

```

edureka@localhost:~/apache-hive-2.1.0-bin$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/edureka/apache-hive-2.1.0-bin/lib/log4j-slf4j-impl-2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/edureka/hadoop-2.7.3/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Logging initialized using configuration in jar:file:/home/edureka/apache-hive-2.1.0-bin/lib/hive-common-2.1.0.jar!/hive-log4j2.properties Async: true
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
hive>

```

(<https://www.edureka.co/blog/apache-hive-installation-on-ubuntu>)

Step 11: Run few queries in Hive shell.

Command: show databases;

Command: create table employee (id string, name string, dept string) row format delimited fields terminated by '\t' stored as textfile;

Command: show tables;

```

hive> show databases;
OK
default
Time taken: 1.742 seconds, Fetched: 1 row(s)
hive> create table employee (id string, name string, dept string) row format delimited fields terminated by '\t' stored as textfile;
OK
Time taken: 1.396 seconds
hive> show tables;
OK
employee
Time taken: 0.228 seconds, Fetched: 1 row(s)
hive>

```

Step 12: To exit from **Hive**:

Command: exit;

Now that you are done with Hive installation, the next step forward is to try out Hive commands on Hive shell. Hence, our next blog "[Top Hive Commands with Examples in HQL](https://www.edureka.co/blog/hive-commands-with-examples)" (<https://www.edureka.co/blog/hive-commands-with-examples>)" will help you to master Hive commands.

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Introduction to Apache Hive (https://www.edureka.co/blog/introduction-to-apache-hive/)



About Awanish (19 Posts (https://www.edureka.co/blog/author/awanish/))

Awanish is a Sr. Research Analyst at Edureka. He has rich expertise in Big Data technologies like Hadoop, Spark, Storm, Kafka, Flink. Awanish also holds good knowledge on Devops tools like Git, Jenkins, Docker, Puppet, Nagios. He is passionate about new technologies which provide realistic solutions.

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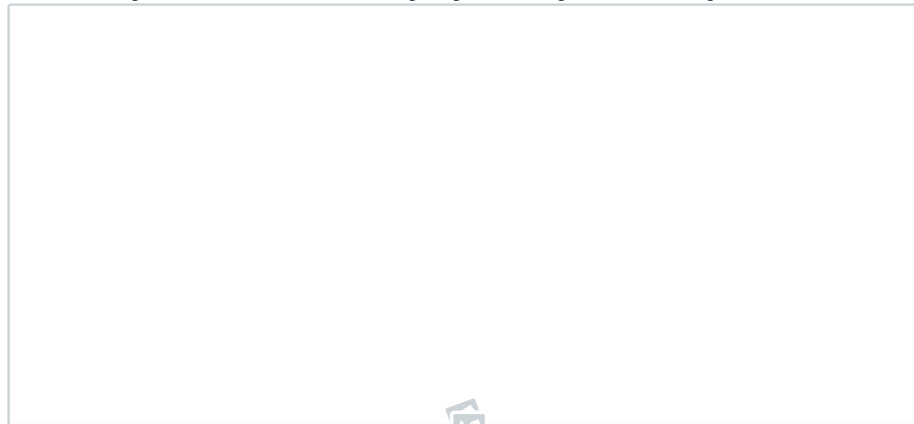
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**Aashish** • 2 months ago ▾

Hello Edureka, great work with the tutorial, but i'm getting the following error after running the 'hive' command

[see more](#)1 ^ ▾ • [Reply](#) • [Share](#) ▾**Manikandan Sundaram** • 5 months ago ▾

Really Awesome it's working. Wonder-full tutorial for installation

1 ^ ▾ • [Reply](#) • [Share](#) ▾**Balagopal Bhallamudi** • 4 years ago ▾

Really good tutorial worked very well... thanks

1 ^ ▾ • [Reply](#) • [Share](#) ▾**Jyotsna ganji** • 7 months ago ▾

I get the below error when I try to initialize the derby database

```
org.apache.hadoop.hive.metastore.HiveMetaException: Failed to get schema version.
Underlying cause: java.sql.SQLException : No suitable driver found for
jdbc:derby;;databaseName=file:///scratch/thirdeye/software/apache-hive-2.1.0-bin/metastore_db;create=true
SQL Error code: 0
```

I see derby-10.10.2.0.jar in \$HIVE_HOME/lib . What could be the reason for this exception?

^ ▾ • [Reply](#) • [Share](#) ▾**Nadeem Kamal** • 10 months ago ▾

the default files within the directory "/apache-hive-2.3.2-bin/conf" don't include a file named as "hive-site.xml" so in my case i have just created the file with the name and simply configure it as in the post. Then i have no problem to lunch hive shell and use the Derby database to create tables and data inside.

^ ▾ • [Reply](#) • [Share](#) ▾**Abhijit Dey** • a year ago ▾

Worked like a charm..thanks edureka.

^ ▾ • [Reply](#) • [Share](#) ▾**EdurekaSupport** Mod ➔ **Abhijit Dey** • a year ago ▾

Thanks for checking out our blog, Abhijit. We're glad you found it useful. Do hit subscribe to stay posted on upcoming blogs. Cheers!

^ ▾ • [Reply](#) • [Share](#) ▾**anil kumar** • a year ago ▾

Issue at Step 9 in my system

Kindly help me advise on this, why the err is throwing as "Unrecognized Hadoop major version number: 1.0.4"

```
anilchittajallu@ubuntu:~/Work/apache-hive-2.1.1-bin$ bin/schematool -initSchema -dbType derby
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/anilchittajallu/Work/apache-hive-2.1.1-bin/lib/log4j-slf4j-impl-
2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/anilchittajallu/Work/hadoop-2.7.2/share/hadoop/common/lib/slf4j-log4j12-
1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.... for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
```

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```

at org.apache.hadoop.hive.shims.ShimLoader.loadShims(ShimLoader.java:136)
at org.apache.hadoop.hive.shims.ShimLoader.getHadoopShims(ShimLoader.java:95)
at org.apache.hive.beeline.HiveSchemaTool.<init>(HiveSchemaTool.java:81)
at org.apache.hive.beeline.HiveSchemaTool.<init>(HiveSchemaTool.java:68)

```

[see more](#)[^](#) | [v](#) | [Reply](#) | [Share](#)**EdurekaSupport** Mod [→](#) anil kumar • a year ago

Hey Anil, thanks for checking out our blog. Here's what you need to do:

Please delete these jar files binding between Hadoop and Hive

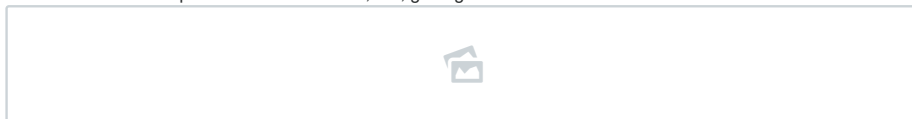
`rm lib/hive-jdbc-2.0.0-standalone.jar``rm lib/log4j-slf4j-impl-2.4.1.jar`

Now execute your commands and Let us know if you are still getting the same error.

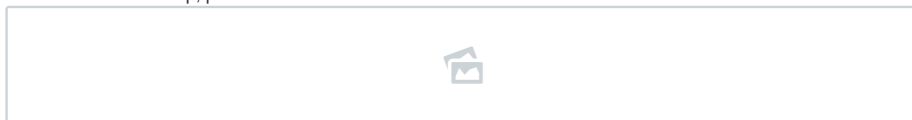
Hope this helps. Cheers!

[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)**Aman Kapri** • 3 years ago

followed the same steps as mentioned above, but, getting this error :

[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)**Naina Johari** • 3 years ago

I'm a new bie to hadoop, please resolve this issue. screenshot attached !!

[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)**EdurekaSupport** Mod [→](#) Naina Johari • 3 years ago

Hi Naina,

Thank you for reaching out to us.

You can raise a support ticket for the same by logging into your LMS, and our support team will surely help you.

You can get in touch with us for further clarification by contacting our sales team on +91-8880862004 (India) or 1800 275 9730 (US toll free). You can also mail us on sales@edureka.co.[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)**Naina Johari** • 3 years ago

I'm unable to create hive directories within HDFS. The command mentioned in step 4 is returning :- No such file or directory

[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)**Naina Johari** [→](#) Naina Johari • 3 years ago

Just like unix we'll need the "-p" flag to create the parent directories as well unless you have already created them. Then command will work

`hadoop fs -mkdir -p /user/hive/warehouse`[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)**Sricharan** • 4 years ago

What is the server domain and the port on which hive is installed and where can i modify it?

[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)**EdurekaSupport** Mod [→](#) Sricharan • 4 years ago

Hi Sricharan, it takes the domain server of the machine on which hive is installed, by default. You can modify the Hive server domain and port number by editing the below property in hive-site.xml or hive-default.xml file.

`<property>``<name>hive.metastore.uris</name>``<value>thrift://$metastore.server.full.hostname:$portnumber</value>``<description>URI`for client to contact metastore server. To enable HiveServer2, leave the property value empty. `</description>``</property>`

Hope this helps!!

[^](#) | [v](#) | [Reply](#) | [Share](#)[-](#) | [v](#)

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0.13.1.jar!/hive-log4j.properties

```
Exception in thread "main" java.lang.RuntimeException: java.lang.RuntimeException: Unable to instantiate
org.apache.hadoop.hive.metastore.HiveMetaStoreClient
at org.apache.hadoop.hive.ql.session.SessionState.start(SessionState.java:346)
at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:681)
at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:625)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke(Method.java:622)
at org.apache.hadoop.util.RunJar.main(RunJar.java:156)
Caused by: java.lang.RuntimeException: Unable to instantiate
org.apache.hadoop.hive.metastore.HiveMetaStoreClient
at org.apache.hadoop.hive.metastore.MetaStoreUtils.newInstance(MetaStoreUtils.java:1412)
at org.apache.hadoop.hive.metastore.RetryingMetaStoreClient.<init>(RetryingMetaStoreClient.java:62)
at org.apache.hadoop.hive.metastore.RetryingMetaStoreClient.getProxy(RetryingMetaStoreClient.java:72)
at org.apache.hadoop.hive.ql.metadata.Hive.createMetaStoreClient(Hive.java:2453)
```

[see more](#)[^](#) | [v](#) • [Reply](#) • [Share](#) ›**VishnuVardhan Reddy** → Mubina Nadaf • a year ago

any one

solve this issue?

[^](#) | [v](#) • [Reply](#) • [Share](#) ›[-](#) | [v](#)**Murali** • 4 years ago

Hi,

I followed this steps,When I entered sudo hive in ubuntu,I see the following exception.

sudo: hive: command not found

I have also tried with out sudo,i see the following exception.

No command 'hive' found, did you mean:

Command 'hime' from package 'hime' (universe)

Command 'jive' from package 'filters' (universe)

hive: command not found

Note; I am in this folder.

/usr/lib/hive/apache-hive-0.13.1-bin/conf\$

Please help me in solving this issue.!!Thanks in advance..!!

[^](#) | [v](#) • [Reply](#) • [Share](#) ›[-](#) | [v](#)**EdurekaSupport** Mod → Murali • 4 years ago

Hi Murali, please try with the following command and check

Command: cd /usr/lib/hive/apache-hive-0.13.1-bin/

Command: bin/hive

Hope this helps!!

[^](#) | [v](#) • [Reply](#) • [Share](#) ›**Mitesh** → EdurekaSupport • 2 years ago

I am still getting the same error which is mentioned above by murali.... please suggest what to do..

[^](#) | [v](#) • [Reply](#) • [Share](#) ›[-](#) | [v](#)**mahesh gupta** → Mitesh • 2 years ago

you should correct the path of hive in either bashrc or profile where you have save your environment setting @Murali

[^](#) | [v](#) • [Reply](#) • [Share](#) ›[-](#) | [v](#)**bala** • 4 years ago

Hi,

I followed the steps exactly outlined here. Using Hive 0.8.0 I am getting the error

Exception in thread "main" java.lang.NoClassDefFoundError: org/apache/hadoop/hive/conf/HiveConf

at java.lang.Class.forName0(Native Method)

at java.lang.Class.forName(Class.java:249)

at org.apache.hadoop.util.RunJar.main(RunJar.java:149)

[-](#) | [v](#)

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```
at java.net.URLClassLoader$1.run(URLClassLoader.java:202)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:190)
at java.lang.ClassLoader.loadClass(ClassLoader.java:306)
at java.lang.ClassLoader.loadClass(ClassLoader.java:247)
```

... 3 more

^ | v • Reply • Share ›

**EdurekaSupport** Mod → bala • 4 years ago

Hi Bala, Seems like the HADOOP_HOME path has not been set. I would suggest to set the HADOOP_HOME in ~/.bashrc or /etc/profile file. To do that please follow the below steps.

Step1: Open a new terminal and give: sudo gedit ~/.bashrc

Step 2: Go to end of the file and add the below line:

```
export HADOOP_HOME=/path/to/Hadoop
```

Step 3: In the command, give the path where Hadoop is installed on your Ubuntu and then try to run Hive.

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Ashish Grover — As per this link from Docker, it does seem to support automatic roll-backs.
<https://docs.docker.com/v17...>

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