**CASSANDRA INSTALLATION USING**

**TARBALL BINARY FILE**

* We have 3 methods of installing Cassandra. In that this one is the one of the methods.
* This will be installing in the Linux terminal only.
* Follow the steps accordingly to install Apache Cassandra in Linux operating systems.

**Tarball:**

* It is a set of files packaged together into a single file, then compressed using the gzip compression program.

**Why tarball:**

* The tarball unpacks all its contents into a single location with binaries and configuration files located in their own subdirectories.

**STEP-1 🡪** Installing Java

* First of all make sure that you have installed java in your system. Because Apache Cassandra requires Java to run.
* Type $ java -version in cmd to check the version of java installed in your system other wise try to install the java.

**STEP-2 🡪** Installation of Tarball file

* First of all install the latest version of Cassandra from the Apache Cassandra Tarball official site.

<https://cassandra.apache.org/_/download.html>

* Click on the above to redirect to the apache Cassandra tarbal file download link.
* The available version is 5.0 latest one.

A screenshot of a computer

Description automatically generated

* Or install using mirrors of the Apache Cassandra

$ curl -OL <http://apache.mirror.digitalpacific.com.au/cassandra/4.0.0/apache-cassandra-4.0.0-bin.tar.gz>

A screen shot of a computer

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**STEP-3** 🡪 Checking Integrity

* Now verify the integrity of the downloaded tarbal file using any method we used gpg here.

$ gpg --print-md SHA256 apache-cassandra-4.0.0-bin.tar.gz

A computer screen with white text

Description automatically generated

**STEP-4** 🡪Compare the signature

* Now compare the signature with the SHA256 file from the official site.

$ curl -L https://downloads.apache.org/cassandra/4.0.0/apache-cassandra-4.0.0-bin.tar.gz.sha256



**STEP -5**🡪Extract the Tarball

* Unpack the Tarball

$ tar -xvzf apache-cassandra-4.0.0-bin.tar.gz



**STEP-6** 🡪 Allocating location

* Move the Cassandra to desired location

$ sudo mv apache-cassandra-<version> /opt/cassandra

**STEP-7** 🡪Environmental variables

* Configure Environmental variables

$ export JAVA\_HOME=/path/to/java

$ export PATH=$PATH:/path/to/cassandra/bin

**STEP-8**🡪Starting Cassandra

* Start Cassandra

$ cd apache-cassandra-4.0.0/ && bin/cassandra

**STEP-9**🡪Verification

* Verify that Cassandra is running or not

$ bin/nodetool status

**STEP-10**🡪Launching Cassandra shell

* Now connect to the cassandra shell as the final step

$ bin/cqlsh

**Watch Demo here 🡪** <https://youtu.be/dRGbGyIykMc?si=bhoonmF_zefNvm6u>

**Assisted and Designed by:** Angala Sandeep Kumar

**Connect me on Linkedin 🡪** <https://www.linkedin.com/in/a-sandeep-kumar-061263237>

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