

## HADOOP INSTALLATION

1. Prerequisites Installation:
  - Install Java 8 Runtime Environment (JRE)
  - Install Java 8 Development Kit (JDK)
  - Install 7zip for unzipping downloaded Hadoop binaries
2. Download the desired Hadoop version from the Apache Hadoop releases page.
  - Unpack the downloaded Hadoop package using 7zip.
3. Setting Up Environment Variables:
  - HADOOP\_HOME
  - JAVA\_HOME
4. Configuration the following files in the etc folder:
  - core-site.xml
  - hadoop-env.cmd
  - hdfs-site.xml
  - mapred-site.xml
  - yarn-site.xml
5. Formatting File System:
  - hdfs namenode -format
6. Starting Hadoop Services:
  - Navigate to C:\hadoopsetup\hadoop-3.2.4\sbin in the command prompt.
  - Run the following commands:
    - .\start-dfs.cmd
    - .\start-yarn.cmd
7. Verify Installation:
  - Run jps command to verify if all Hadoop daemons are running.

- 1) Download & Extract the HIVE file (apache-hive-2.1.0-bin) and move its root folder D:\HIVE
- 2) Similarly, Download & Extract the Derby file (db-derby-10.12.1.1 bin) and place under D:\Derby.
- 3) Move hive-site.xml to configuration location
- 4) Move derby libraries to hive library location
- 5) Configure Environment Variables along with file paths
  - HIVE\_HOME
  - HIVE\_BIN
  - HIVE\_LIB
  - DERBY\_HOME
  - HADOOP\_USER\_CLASSPATH\_FIRST
- 6) Configure ~~hive~~ hive-site.xml
- 7) Start Hadoop (start-all.cmd)
- 8) Start Derby (startNetworkServer -n 0.0.0.0)
- 9) Start Hive (jps-m, hive)

### Steps to install HBASE

- 1) Download & Extract the HBASE file (hbase-1.4.7)
- 2) Set Environment Variable as HBASE\_HOME by copying file path
- 3) Create folders under hbase-1.4.7
  - hbase
  - zookeeper
- 4) Configure hbase-env.cmd by removing %HEAP\_SETTINGS% and add other configurations including java path
- 5) Configure hbase-site.xml