Cloudera Distributed Hadoop (CDH) Installation and Configuration on Virtual Box

By

Kavya Mugadur

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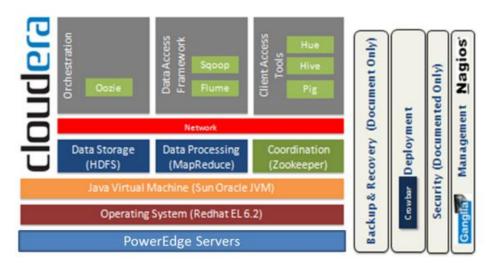
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1.What is CDH?

CDH (Cloudera Distribution Hadoop) is open-source Apache Hadoop distribution provided by Cloudera Inc which is a Palo Alto-based American enterprise software company.

CDH (Cloudera's Distribution Including Apache Hadoop) is the most complete, tested, and widely deployed distribution of Apache Hadoop. CDH is 100% open source and is the only Hadoop solution to offer batch processing, interactive SQL and interactive search as well as enterprise-grade continuous availability. More enterprises have downloaded CDH than all other distributions combined.



CLOUDERA TAXONOMY

The PowerEdge servers, the operating system, and the Java Virtual Machine make up the foundation on which the Hadoop software stack runs. The dark blue layer, depicting the core Hadoop components, comprises two frameworks:

• The Data Storage Framework is the file system that Hadoop uses to store data on the cluster nodes. Hadoop Distributed File System (HDFS) is a distributed, scalable, and portable file system.

• The Data Processing Framework (MapReduce) is a massively-parallel compute framework inspired by Google's MapReduce papers.

The next layer of the stack is the network layer. This is a dedicated cluster network, implemented from a blueprint using tested and qualified components. This implementation provides predictable high performance without interference from other applications.

The next three frameworks—the Orchestration, the Data Access Framework, and the Client Access Tools—are utilities that are part of the Hadoop ecosystem and provided by the CDH distribution.

2. Hadoop Basics

The Hadoop platform was designed to solve problems where you have a big data. It's for situations where you want to run analytics that are deep and computationally extensive, like clustering and targeting. The majority of this data will be "unstructured" – complex data poorly suited to management by structured storage systems like relational database.

Unstructured data comes from many sources and takes many forms web logs, text files, sensor readings, user-generated content like product reviews or text messages, audio, video and still imagery and more

Dealing with big data requires two things:

- · Inexpensive, reliable storage; and
- New tools for analyzing unstructured and structured data.

Apache Hadoop is a powerful open source software platform that addresses both of these problems. Hado op is an Apache Software Foundation project. **Cloudera** offers commercial support and services to Hadoop users.

2.1 Reliable Storage: HDFS

Hadoop includes a fault-tolerant storage system called the **Hadoop Distributed File System, or HDFS**. HDFS is able to store huge amounts of information, scale up incrementally and survive the failure of signi ficant parts of the storage infrastructure without losing data.

Hadoop creates clusters of machines and coordinates work among them. Clusters can be built in expensive computers. If one fails, Hadoop continues to operate the cluster without losing data or interrupting work, by shifting work to the remaining machines in the cluster.

HDFS manages storage on the cluster by breaking incoming files into pieces, called "blocks," and storing each of the blocks redundantly across the pool of servers. In the common case, HDFS stores three comple te copies of each file by copying each piece to three different servers

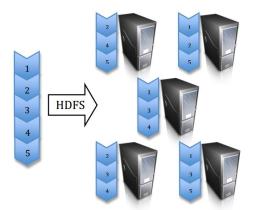


Figure 1: HDFS distributes file blocks among servers

2.2 Hadoop for Big Data Analysis

Many popular tools for enterprise data management -relational database systems, for example – are designed to make simple queries run quickly. They use techniques like indexing to examine just a sma ll portion of all the available data in order to answer a question.

Hadoop is a different sort of tool. Hadoop is aimed at problems that require examination of all the availab le data. For example, text analysis and image processing generally require that every single record be read , and often interpreted in the context of similar records. Hadoop uses a technique called **MapReduce** to ca rry out this exhaustive analysis quickly.

In the previous section, we saw that HDFS distributes blocks from a single file among a large number of s ervers for reliability. Hadoop takes advantage of this data distribution by pushing the work involved in an analysis out to many different servers. Each of the servers runs the analysis on its own block from the file. Results are collated and digested into a single result after each piece has been analyzed.

Running the analysis on the nodes that actually store the data delivers much much better performance tha n reading data over the network from a single centralized server. Hadoop monitors jobs during execution, and will restart work lost due to node failure if necessary. In fact, if a particular node is running very slo wly, Hadoop will restart its work on another server with a copy of the data.

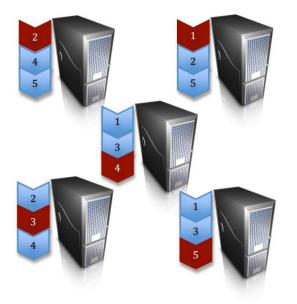


Figure 2: Hadoop pushes work out to the data

Hadoop's MapReduce and HDFS use simple, robust techniques on inexpensive computer systems to deliv every high data availability and to analyze enormous amounts of information quickly. Hadoop offers ente rprises a powerful new tool for managing big data.

3.Ways to Install CDH4

You can install CDH4 in any of the following ways:

- a. Installing using Cloudera quickstart vm.
- b. Automated method using Cloudera Manager. Cloudera Manager Free Edition automates the installation and configuration of CDH4 on an entire cluster if you have root or password-less sudo SSH access to your cluster's machines.
- c. Manual methods described below:
 - Download and install the CDH4 "1-click Install" package
 - Add the CDH4 repository
 - Build your own CDH4 repository
 - Install from a CDH4 tarball

In this document we will explain the installation of CDH using first method.

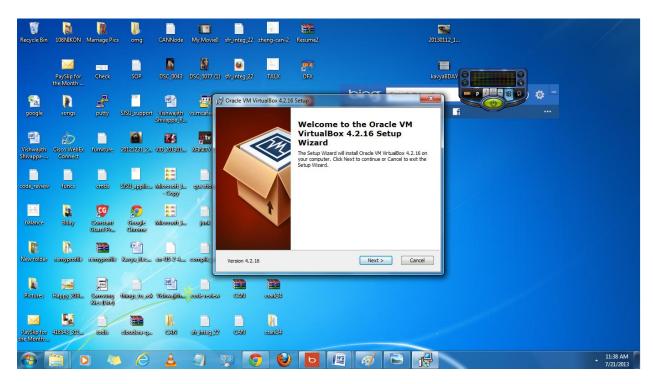
4. Installation and Configuration of CDH on Virtual machine using Cloudera quickstart vm

Cloudera quickstart VM contains a sample of Cloudera's platform for "Big Data". The VM from Cloudera is available in VMware, VirtualBox and KVM flavors, and all require a 64 bit host OS. This VM runs CentOS 6.2 and includes CDH4.3, Cloudera Manager 4.6, Cloudera Impala 1.0.1 and Cloudera Search .9 Beta

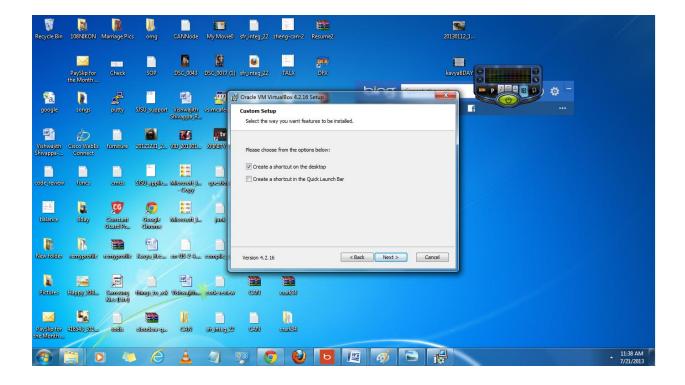
In this document we have installed CDH on VirtualBox. Below are the steps to install CDH using Cloudera quickstart vm on Virtual box

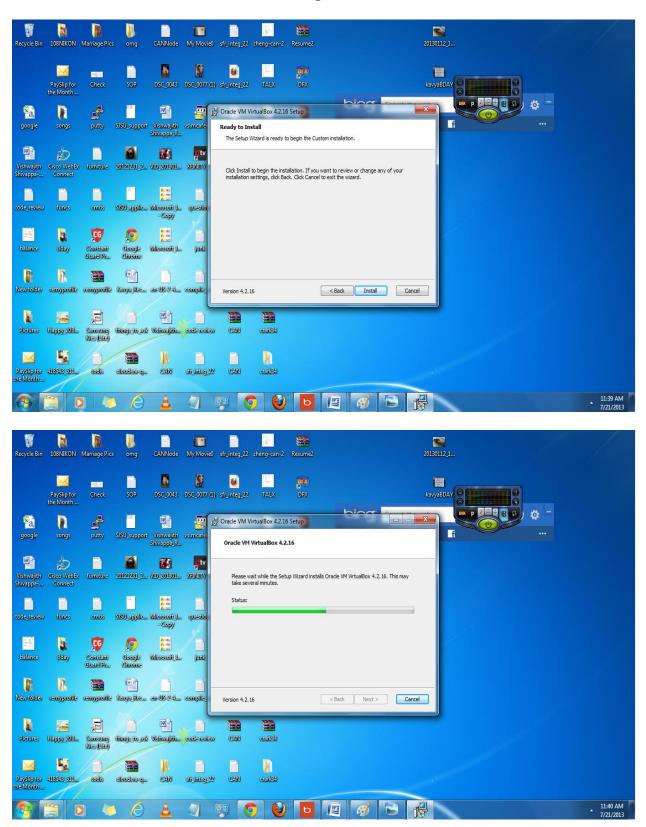
Step 1: Download the virtual box- executable file from <u>https://www.virtualbox.org/wiki/Downloads</u> Download VirtualBox 4.2.16 for Windows hosts





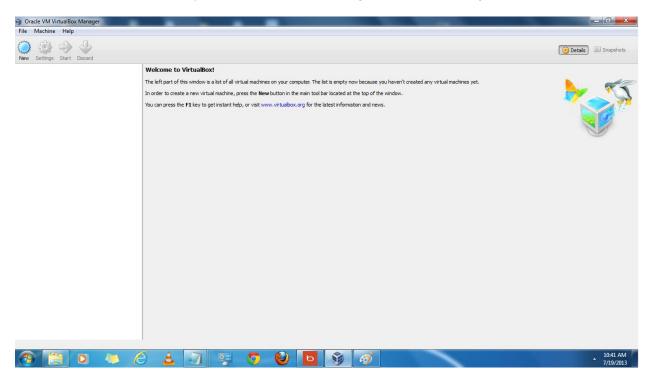
Step 2: Install VirtualBox by double clicking on the downloaded file.





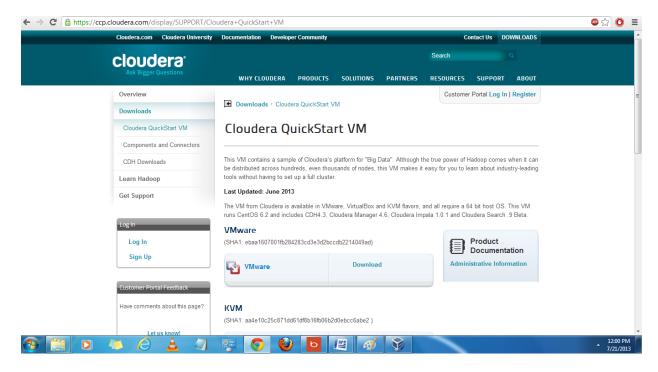
Click install to install VirtualBox with default settings. Installation is shown as below:

If the installation is successful you will see a Virtual Manager window to manage VMs.



Step 3: Download the Cloudera quickstart vm for VirtualBox

Go to the link - https://ccp.cloudera.com/display/SUPPORT/Cloudera+QuickStart+VM



Select quickVM for VirtualBox and click on download

VirtualBox (SHA1: f428b03d1b131f73cbab85d4dec85ed3efc46dea) VirtualBox Download

Step 4: Unzip the downloaded file.

When you unzip the file cloudera-quickstart-vm-4.3.0-virtualbox.tar you will find these two files in the directory.

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💗 cloudera-quickstart-vm-4.3.0-virtualbox	7/17/2013 6:48 AM	Virtual Machine Di	2,552,707 KB

Step 5: Open VirualBox and click on "New" to create new virtual box

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	Welcome to VirtualBox! The left part of this window is a list of all virtual machines on your computer. The list is empty now because In order to create a new virtual machine You can press the F1 key to get instant Please choose a descriptive name for the new virtual machine Name and operating system Please choose a descriptive name for the new virtual machine in the type of operating system, you intend to install on it. I choose will be used throughout VirtualBox to identify the Name: Coudera Hadoop Three: Inux 2.6 It dide Description Next	white and select
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Give name for new virtual machine and select type as Linux and versions as Linux 2.6

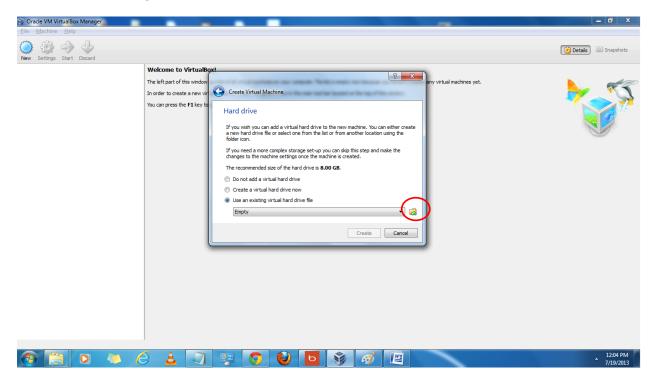
Step 6 : Select Memory Size as 4GB and click Next.

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Step 7: In the next page, VirtualBox asks to select Hard Drive for new VirualBox as shown in the screenshot. Create a virtual hard drive now is selected by default. But you have to select "Use an existing virtual hard drive file" option.

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7	Welcome to VirtualBox! The left part of this window is a list of all wirtual machines on your computer. The list is empty now because you haven't created any virtual machines yet. In order to create a new virtual machine You can press the F1 key to get instant () Create Virtual Machine F1 you wish you can add a virtual hard drive to the new machine. You can either create a new hard drive file or select one from the list or from make the changes to the machine settings once the machine is created. The recommended size of the hard drive is 8.00 GB. () Do not add a virtual hard drive movi () Use an existing virtual hard drive file () Use an existing virtual hard drive file () Do not add a virtual hard drive movi () Use an existing virtual hard drive file () Dreate () Create	
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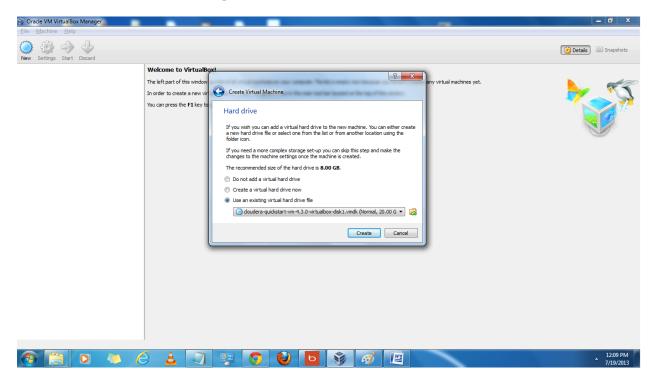
Select "Use an existing virtual hard drive file".



Step 8: Click on the small yellow icon beside the dropdown to browse and select the cloudera-quickstartvm-4.3.0-virtualbox-disk1.vm file (which is download in step 4).

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Click on create to create Cloudera quickstart vm.



Step 9 : Your virtual box should look like following screen shots. We can see the new virtual machine named Cloudera Hadoop on the left side.

Oracle VM VirtualBox Manager		
File Machine Help		Details 🙆 Snapshots
Coudera Hadoop © Powered Off	General Name: Cloudera Hadoop Operating System: Linux 2.6 System Base Memory: Base Memory: 496 MB Boot Order: Floppy, CD/DVD-ROM, Hard Disk	Cloudera Hadoop
	Bisplay Video Memory: 6 MB Remote Desktop Server: Disabled Storage Controller: IDE DDE Secondary Master: [CD/DVD] Empty Controller: SITA Software SATA Port 0: doubers-quickstart-vm=4.3.0-virtuabox-disk1.vmdk (Normal, 20.00 GB)	
	Audio Host Driver: Windows DirectSound Controller: Undows	
	Adapter 1: Intel PRO/1000 MT Desktop (NAT)	
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Step 10: Select Cloudera vm and click on "Start" \implies

Virtual Machine starts to boot

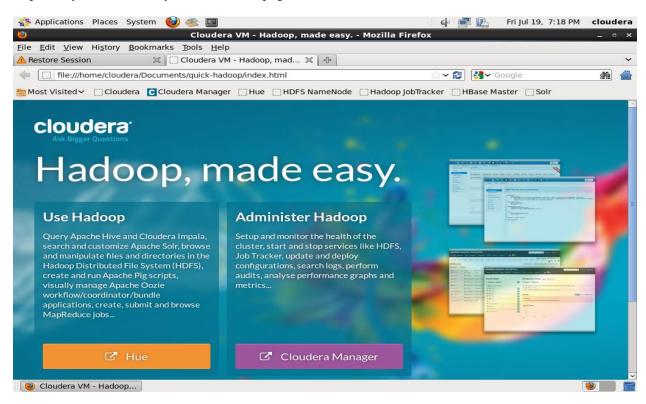
Entering non-interactive startup				
Calling the system activity data collector (sadc):				
Bringing up loopback interface:	Γ	OK]	
Starting auditd:	Ι	OK]	
Starting portreserve:	Γ	OK]	
Starting system logger:	Γ	OK]	
Starting irgbalance:	Γ	OK]	
Starting kdump:	[[AILE	D]	
Starting system message bus:	Γ	OK]	
Setting network parameters	Γ	OK]	
Starting NetworkManager daemon:	Γ	OK]	
Starting Avahi daemon	Γ	OK]	
Starting cups: e1000: eth1 NIC Link is Up 1000 Mbps Full	Dupl	ex,	Flow	Control: R
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Starting HAL daemon:	Γ	OK]	
Retrigger failed udev events	Γ	OK]	
Adding udev persistent rules	Ι	OK]	
Starting sshd:	Γ	OK]	
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Adding udev persistent rules	Γ	OK]
Starting sshd:	Γ	OK]
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Starting mysgld:	Γ	OK]
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server started			
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Starting cloudera-scm-server: _			

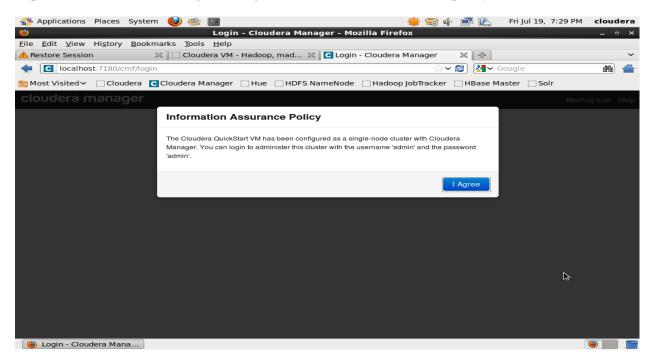


Step 11: System is loaded and CDH is installed on virtual machine.

Step 12: System redirects you to the index page of Cloudera.



Step 13: Select Cloudera Manager and Agree to the information assurance policy.



Step 14: Login to Cloudera Manager as admin. Password is admin.

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Step 15: We can see all the services running on our single node cluster.

Step 16: Click on the Hosts tab and we can see that one host is running , version of CDH installed on it is 4 , health of the host is good and last heart beat was listened 5.22s ago.

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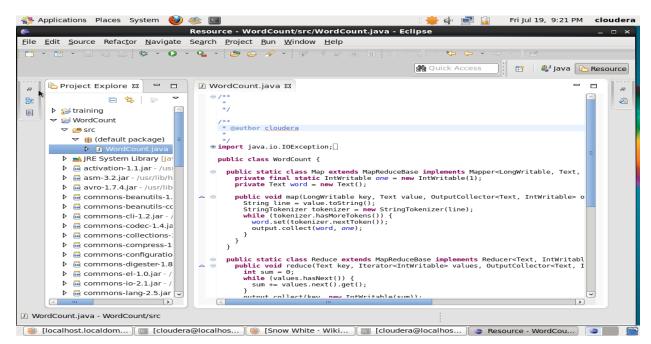
Step 18 : We can also chang the password for admin by selecting the adminstration tab and clicking on "Change Password" button.

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5. Running MapReduce Program

Step 1: Write a MapReduce program. We have used the word count program for testing the CDH installation.

Write a java program using eclipse.



Step 2: Add external jars to compile the code. Right click on the project and select properties. Select the Java build path and then click on "Add External Jars". Select all the jars present in folder /usr/bin/hadoop/client

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Step 3: Click "OK" o add those jars to your program.

Step 4 : Create a jar file of your program.

Right click on project select "Export" and then click on "Jar File" under Java folder.

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Give the location path where you want to store your .jar file.

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Now we can see the jar file in the given location.

Step 5: Input file

Open the terminal and create a input file which is a huge text file.

\$vim input.txt

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At the beginning of the story, a queen sits sewing at an open window during a winter snowfall when she pri her needle, causing three drops of blood fall onto the snow on the ebony window frame. Admiring the beau color combination, she says to herself: "Oh, how I wish that I had a daughter that is as white as snow, as as black as that wood of the window frame". Soon after, the queen indeed gives birth to a baby girl as whi as blood, and with hair as black as ebony. They name her Snow White, and not long after, the queen dies.	y of the res red as bloc	sulting od, and
After a year has passed, the King takes a new wife, who is beautiful but also unutterably wicked and vain. esses a Magic Mirror which she asks every morning: "Magic mirror in my hand, who is the fairest in the lar ays replies: "My Queen, you are the fairest in the land." The queen is always pleased with that, because t er lies. But, when Snow White reaches the age of seven, she becomes as beautiful as the day and even more Queen and when the Queen asks her mirror, it responds: "My Queen, you are the fairest here so true. But Sr and times more beautiful than you."	nd?". The min the magic min beautiful th	rror alw rror nev han the
This gives the queen a great shock, and she becomes yellow and green with envy, and from that hour her her ow White, and with every following day she hates Snow White more and more. Envy and pride, like ill weeds, taller every day, until she has no peace day or night. The Queen orders a Huntsman to take Snow White into to be killed. She demands as proof that Snow White is dead, he returns with her lungs and liver. The hunts e into the forest. After raising his knife, he finds himself unable to kill her as she sobs heavily and be untsman, don't kill me! Leave me with my life, I will run into the forest and never come back!". The hunts nd alive, convinced that the girl would be eaten by some wild animal. He instead brings the Queen the lung ung boar, which is prepared by the cook and eaten by the Queen.	grow in her the deepest man takes Sr gs him: "Oh, man leaves b	r heart t woods now Whit , dear h her behi
After wandering through the forest for days, Snow White discovers a tiny cottage belonging to a group of S no one is at home, she eats some of the tiny meals, drinks some wine and then tests all the beds. Finally fortable enough for her and she falls asleep. When the Seven Dwarfs return home, they immediately become a neaked in secretly, because everything in their home is in disorder. During their loud discussion about wf discover the sleeping Snow White. The girl wakes up and explains to them what happened and the Dwarfs take g: "If you will keep house for us, and cook, make beds, wash, sew, and knit, and keep everything clean and can stay with us, and you shall have everything that you want." They warn her to be careful when alone at one in when they are away delving in the mountains.	the last bed aware that so no sneaked in pity on he d orderly, th	d is com omeone s n, they r, sayin hen you
Meanwhile, the Queen asks her mirror once again: "Magic Mirror in my hand, who is the fairest in the land: s: "My Queen, you are the fairest here so true. But Snow White beyond the mountains at the seven Dwarfs is ore beautiful than you."[1] The Queen is horrified to learn that the huntsman has betrayed her and that Sr live. She keeps thinking about how to get rid of Snow White, then she disguises herself as an old peddler. ks to the cottage of the Dwarfs and offers her colourful, silky laced bodices and convinces the girl to ta ul bodice as a present. Then the Queen laces it so tight that Snow White faints, causing the Queen to leave the Dwarfs return just in time and Snow White revives when the Dwarfs loosen the laces.	s a thousand now White is The Queen 1 ake the most ve her for de	times m still a then wal beautif ead. But
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Step 6 : Check the input.txt. Execute command \$ ls -ltr. The highlighted file is our input file.

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Step 7 : Make a new file directory on HDFS (Hadoop Distributed File System)

\$ sudo su hdfs

hadoop fs -mkdir /WordCountFiles

hadoop fs –ls /

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Step 8 :Copy this file on the NameNode i.e., on HDFS

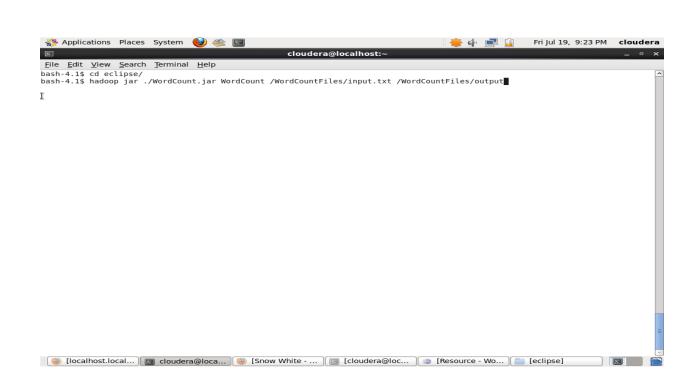
\$ hdfs dfs -copyFromLocal input.txt /WordCountFiles



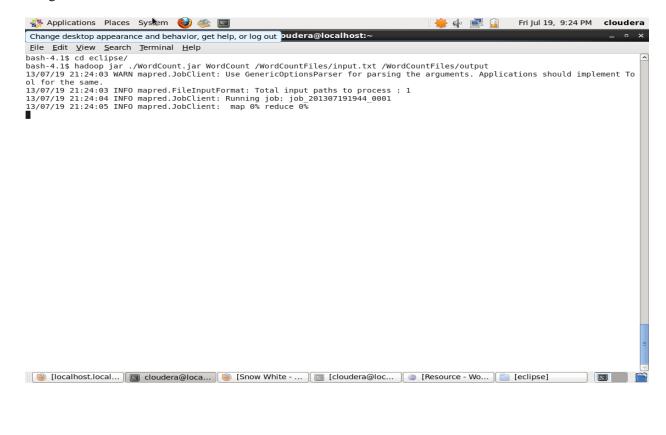
Step 9: Run the program using the hadoop command

\$ hadoop jar ./WordCount.jar WordCount/WordCountFiles/input.txt /WordCountFiles/output

Where ./WordCount.jar is the path and name of the jar file we created in Step 4 and WordCount is the name of the program.



MapReduce program starts to run.We can see the percentage of mapping and reducing the program is doing on the command line.



We can see that the map and reduce percentage gradually increasing, this shows that the program is successfully running on CDH and using its MapReduce technique to count the frequency of each words.

Note: Strations Places Strategy Strateg	System 🔞 🚳 📱	📱 🧳 嬶 📃 🔒 Fri Jul 19, 9:25 PM	cloudera
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13/07/19 21:24:36 INFO ma		FILE: Number of bytes written=477749	
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13/07/19 21:24:36 INFO ma		FILE: Number of large read operations=0	
13/07/19 21:24:36 INFO ma		FILE: Number of write operations=0	
13/07/19 21:24:36 INFO ma		HDFS: Number of bytes read=69575	
13/07/19 21:24:36 INFO ma		HDFS: Number of bytes written=4689	
13/07/19 21:24:36 INFO ma		HDFS: Number of read operations=5	
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13/07/19 21:24:36 INFO ma		Data-local map tasks=2	
13/07/19 21:24:36 INFO ma		Total time spent by all maps in occupied slots (ms)=28089	
13/07/19 21:24:36 INFO ma		Total time spent by all reduces in occupied slots (ms)=6576	
13/07/19 21:24:36 INFO ma		Total time spent by all maps waiting after reserving slots (ms)=0	
13/07/19 21:24:36 INFO ma	apred.JobClient:	Total time spent by all reduces waiting after reserving slots (ms)=0	
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13/07/19 21:24:36 INFO ma		Map output records=8611	
13/07/19 21:24:36 INFO ma	1	Map output bytes=80622	
13/07/19 21:24:36 INFO ma		Input split bytes=222	
13/07/19 21:24:36 INFO ma		Combine input records=8611 Combine output records=855	
13/07/19 21:24:36 INFO ma 13/07/19 21:24:36 INFO ma		Reduce input groups=504	
13/07/19 21:24:36 INFO ma		Reduce shuffle bytes=7089	
13/07/19 21:24:36 INFO ma		Reduce input records=855	
13/07/19 21:24:36 INFO ma		Reduce output records=504	
13/07/19 21:24:36 INFO ma		Spilled Records=1710	
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When the program runs we can see on the command line the number of input bytes the program has read and number of tasks launched and other useful information on the command line.

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13/07/19 21:24:36 INFO mapred.JobClient:	FILE: Number of large read operations=0
13/07/19 21:24:36 INFO mapred.JobClient:	FILE: Number of write operations=0
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13/07/19 21:24:36 INFO mapred.JobClient:	HDFS: Number of large read operations=0
13/07/19 21:24:36 INFO mapred.JobClient:	HDFS: Number of write operations=2
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13/07/19 21:24:36 INFO mapred.JobClient:	Launched map tasks=2
13/07/19 21:24:36 INFO mapred.JobClient:	Launched reduce tasks=1
13/07/19 21:24:36 INFO mapred.JobClient:	Data-local map tasks=2
13/07/19 21:24:36 INFO mapred.JobClient:	Total time spent by all maps in occupied slots (ms)=28089
13/07/19 21:24:36 INFO mapred.JobClient:	Total time spent by all reduces in occupied slots (ms)=6576
13/07/19 21:24:36 INFO mapred.JobClient: 13/07/19 21:24:36 INFO mapred.JobClient:	Total time spent by all maps waiting after reserving slots (ms)=0 Total time spent by all reduces waiting after reserving slots (ms)=0
13/07/19 21:24:36 INFO mapred.JobClient:	Map-Reduce Framework
13/07/19 21:24:36 INFO mapred.JobClient:	Map input records=115
13/07/19 21:24:36 INFO mapred.JobClient:	Map output records=8611
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13/07/19 21:24:36 INFO mapred.JobClient:	Combine output records=855
13/07/19 21:24:36 INFO mapred.JobClient:	Reduce input groups=504
13/07/19 21:24:36 INFO mapred.JobClient:	Reduce shuffle bytes=7089
13/07/19 21:24:36 INFO mapred.JobClient:	Reduce input records=855
13/07/19 21:24:36 INFO mapred.JobClient:	Reduce output records=504
13/07/19 21:24:36 INFO mapred.JobClient:	Spilled Records=1710
13/07/19 21:24:36 INFO mapred.JobClient:	CPU time spent (ms)=2520
13/07/19 21:24:36 INFO mapred.JobClient:	Physical memory (bytes) snapshot=398278656
13/07/19 21:24:36 INFO mapred.JobClient:	Virtual memory (bytes) snapshot=2104549376
13/07/19 21:24:36 INFO mapred.JobClient:	Total committed heap usage (bytes)=288104448
13/07/19 21:24:36 INFO mapred.JobClient:	org.apache.hadoop.mapreduce.lib.input.FileInputFormatCounter
13/07/19 21:24:36 INFO mapred.JobClient:	BYTES_READ=46235
bash-4.1\$ ls	
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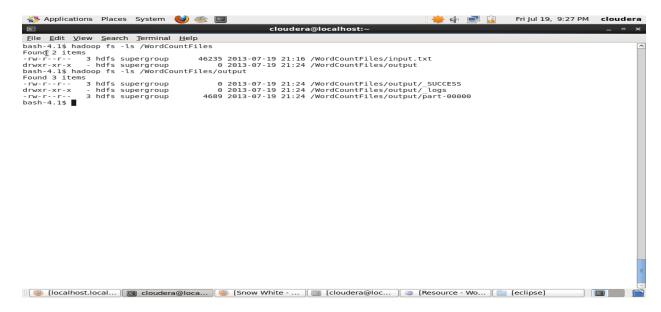
Step 10 : Check the output

When the program runs successfully output directory is created. In our case the output directory name is "output" (as mentioned in the command)

\$ hadoop fs -ls /WordCountFiles

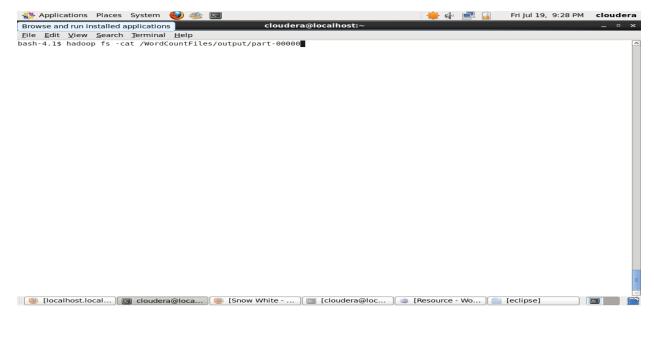
\$ hadoop fs -ls /WordCountFiles/ouput

We can see that there are three files/directory in the output directory. Our output is present in part-0000 file



Step 11 : Display the output

\$hadoop fs -cat /WordCountFiles/ouput/part-0000



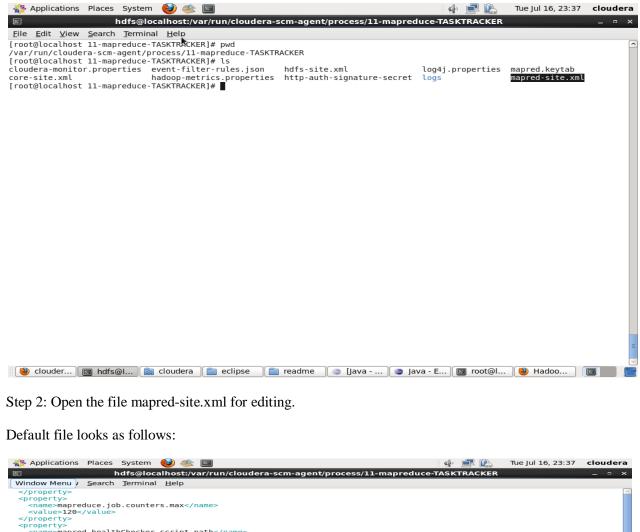
Output file shows the word and the number of times it has occurred in the file. For example, word "Mirror" has occurred 22 times in the given input file.

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6. Configuring hadoop in multi-tasking mode (Multi -Thread)

Step1 : Go to directory where task tracker's map reduce configuration file is found.

\$ cd /var/run/Cloudera-scm-agent/process/11-mapreduce-TASKTRACKER



<pre> <name=mapred.healthchecker.script.path< name=""> <vploate: value=""> <property> <property> </property> </property> </vploate:></name=mapred.healthchecker.script.path<></pre>
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<value>org.apache.hadoop.mapred.TaskTrackerMetricsInst</value>
<property></property>
<pre><name>mapred.tasktracker.map.tasks.maximum</name></pre>
<value>4</value>
<pre><pre>cproperty></pre></pre>
<pre><name>mapred.tasktracker.reduce.tasks.maximum</name></pre>
<value>2</value>
<property></property>
<name>tasktracker.http.threads</name>
<value>80</value>
<pre><pre>cproperty></pre></pre>
<name>hadoop.skip.worker.version.check</name>
<value>true</value>
configuration
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Step 3 : Change the Configuration.

Change mapreduce.tasktracker.map.tasks.maximum and mapreduce.tasktracker.reduce.tasks.maximum to 4. These parameters determine the maximum number of map/reduce tasks that will be run by task tracker in pseudo distributed mode.



Step 4 : The above params are just a hint for the tracker. If you want to enforce the number then add new properties mapred.map.tasks and mapred.reduce.tasks and set them to the desired value.



Step 5 : Restart the hadoop daemons

\$ bin/hadoop-daemon.sh stop cloudera-scm-server

\$ bin/hadoop-daemon.sh start cloudera-scm-server

\$ bin/hadoop-daemon.sh stop cloudera-scm-agent

\$ bin/hadoop-daemon.sh start cloudera-scm-agent

Now the new configurations will load and when the huge file data is given, the number of task to map and reduce will be increased.

7. Configuring Flume (Monitoring Configuration)

Apache Flume is a distributed, reliable, and available system for efficiently collecting, aggregating and moving large amounts of log data from many different sources to a centralized data store.

The use of Apache Flume is not only restricted to log data aggregation. Since data sources are customizable, Flume can be used to transport massive quantities of event data including but not limited to network traffic data, social-media-generated data, email messages and pretty much any data source possible.

Apache Flume is a top level project at the Apache Software Foundation.

Step 1 : Check Flume installation. Flume is installed as a part of quickstart VM.

\$ rpm –qa | grep –i flume-ng

This displays the flume installation files

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Preferred Mail Reader cloudera@localhost:~			_ • ×
<pre>File Edit View Search Term Send email [cloudera@localhost ~]\$ rpm -qa grep -i flume-ng flume-ng-agent-1.3.0+159-1.cdh4.3.0.p0.12.el6.noarch flume-ng-solr-0.9.0-2.cdh4.3.0.p0.290.el6.noarch [cloudera@localhost ~]\$ ■</pre>			
🔲 cloudera@localhost:~		ſ	

Step 3 :Check the flume template files under /etc/flume-ng/conf

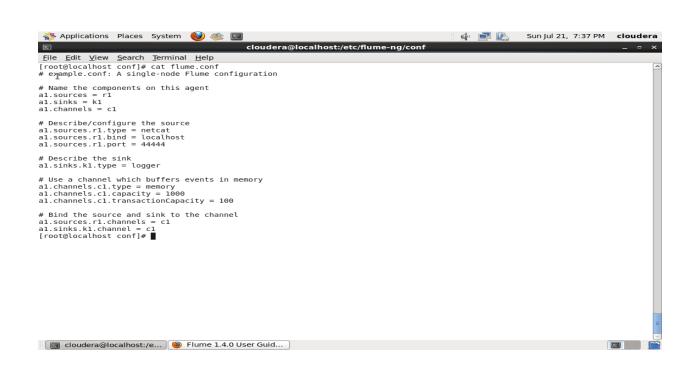
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Elle Edit View Search Terminal Help root@localhost conf]# pwd etc/flume-ng/conf			_ = :
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ep 4: Flume default configuration file.			
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vim flume.conf			
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Step 5 :Flume command and its options. We will be using the agent command.

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[root@localhost conf]# Error: Unknown or unspe				
Usage: /usr/lib/flume-n	g/bin/flume-ng <command/> [options]			
commands: help agent avro-client version	display this help text run a Flume agent run an avro Flume client show Flume version info			
<pre>global options: -conf,-c <conf> -classpath,-C <cp> -dryrun,-d -plugins-path <dirs> -Dproperty=value -Xproperty=value</dirs></cp></conf></pre>	use configs in <conf> directory append to the classpath do not actually start Flume, just print the command colon-separated list of plugins.d directories. See the plugins.d section in the user guide for more details. Default: \$FLUME_HOME/plugins.d sets a Java system property value sets a Java -X option</conf>			
ağent options: conf-file,-f <file> name,-n <name> help,-h</name></file>	specify a config file (required) the name of this agent (required) display help text			
<pre>avro-client options: -rpcProps,-P <file> -host,-H <host> -port,-p <port> -dirname <dir> -filename,-F <file> -headerFile,-R <file -help,-h</file </file></dir></port></host></file></pre>	RPC client properties file with server connection params hostname to which events will be sent port of the avro source directory to stream to avro source text file to stream to avro source (default: std input) > File containing event headers as key/value pairs on each display help text	new line		Ш
EitherrpcProps or	bothhost andport must be specified.			~
🔲 cloudera@localhost:/e	5			

Step 6:Changing flume.conf file

This configuration defines a single agent named a1. a1 has a source that listens for data on port 44444, a channel that buffers event data in memory, and a sink that logs event data to the console. The configuration file names the various components, then describes their types and configuration parameters. A given configuration file might define several named agents; when a given Flume process is launched a flag is passed telling it which named agent to manifest.



Step 7:Starting of a flume agent

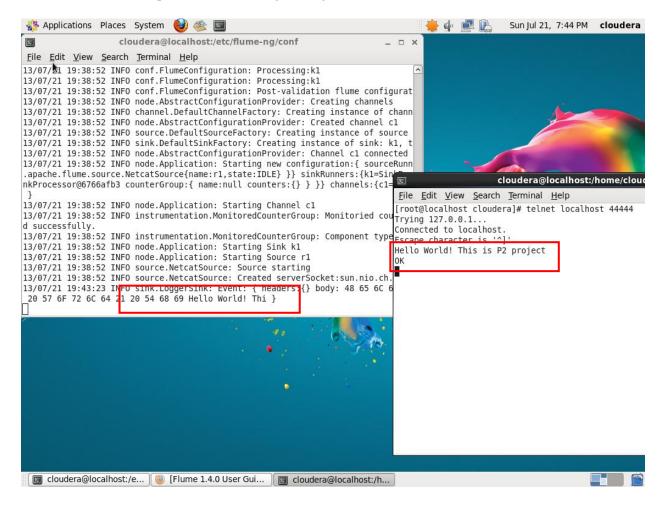
An agent is started using a shell script called flume-ng which is located in the bin directory of the Flume distribution.

\$ bin/flume-ng agent -conf conf -conf-file ./flume.conf -name a1 -Dflume.root.logger=INFO,console

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<pre>info: Excluding /usr/lib/hadoop/e.20-mapreduce/lib/slf4j-api-1.6.1.jar from classpath info: Including HBASE libraries found via (/usr/lib/hados) for HBASE access info: Excluding /usr/lib/hados/lib/slf4j-api-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-api-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-api-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-api-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4jl2-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/sif4j-log4jl2-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/cativation-1.1.jar:/usr/lib/hadoop/lib/commons-2.2.jar:/usr/lib/hadoop/lib/commons-classpath info: Excluding /usr/lib/hadoop/lib/commons-beanutils-core-1.8.0.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja :/usr/lib/hadoop/lib/commons-codec-1.4.jar:/usr/lib/hadoop/lib/commons-collections-3.2.1.jar:/usr/lib/hadoop/lib/commons-cli-2.1.jar:/usr/lib/hadoop/lib/commons-torfiguration-1.6.jar:/usr/lib/hadoop/lib/commons-digester-1.6.jar:/usr/lib/hadoop/lib/commons-logging-1.1.1.jar:/usr/lib/hadoop/lib/commons-logging-1.1.jar:/usr/lib/hadoop/lib/commons-log2.jar:/usr/lib/hadoop/lib/commons-logging-1.1.jar:/usr/lib/hadoop/lib/commons-las.jar:/usr/lib/hadoop/lib/jackson-xc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-xc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-z.2.3.a.jar:/usr/lib/hadoop/lib/jackson-xc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-xc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-z.2.3.a.jar:/usr/lib/hadoop/lib/jackson-z.2.2.2.jar:/usr/lib/hadoop/lib/jackson-z.2.3.a.jar:/usr/lib/hadoop/lib/jackson-z.2.2.3.a.jar:/usr/lib/hadoop/lib/jackson-z.2.3.jar:/usr/lib/hadoop/</pre>					
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<pre>info: Excluding /usr/lib/habse/bin//lib/slf4j-api:1.6.1.jar from classpath info: Excluding /usr/lib/ackeeper/lib/slf4j-api:1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-api:1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/sitvatva/jdk1.6.0_31/bin/java -xmx20m -Dflume.root.logger=INFO.console -cp 'conf:/usr/lib/hadoop/lib/commons-cli1.1.jar:/usr/lib/hadoop/lib/commons-come-3.2.1.jar:/usr/lib/hadoop/lib/commons-cole.1.1.2.ja i/usr/lib/hadoop/lib/commons-codec-1.4.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-digester-1.8.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-e.1.3.jar:/usr/lib/hadoop/lib/commons-elogging 1.1.jar:/usr/lib/hadoop/lib/commons-io-2.jar:/usr/lib/hadoop/lib/commons-et-3.1.jar:/usr/lib/hadoop/lib/commons-et-3.1.jar:/usr/lib/hadoop/lib/commons-et-3.3.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-3.3.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.3.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.3.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sc-1.8.8.jar:/usr</pre>					
<pre>info: Excluding /usr/lib/zookeeper/lib/slf4j-api-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-api-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-api-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/activation-1.1.jar:/usr/lib/hadoop/lib/asm-3.2.jar:/usr/lib/hadoop/lib/aro-1.7.4.jar:/usr/lib/hadoop/lib/activation-1.1.jar:/usr/lib/hadoop/lib/commons-classpath info: Excluding /usr/lib/hadoop/lib/commons-classpath /lib/commons-beanutils-1.7.0.jar:/usr/lib/hadoop/lib/commons-collections-3.2.1.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja :/usr/lib/hadoop/lib/commons-codecl.4.jar:/usr/lib/hadoop/lib/commons-clietions-3.2.1.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja :/usr/lib/commons-elang-2.5.jar:/usr/lib/hadoop/lib/commons-loging-1.1.1.jar:/usr/lib/hadoop/lib/commons-a.3.0.cdh4.3.0.jar:/usr/lib/hadoop/lib/commons-lang-2.5.3.0.cdh4.3.0.jar:/usr/lib/hadoop/lib/commons-lang-2.5.3.0.cdh4.3.0.jar:/usr/lib/hadoop/lib/jackson-sans-1.8.8.jar:/usr/lib/hadoop/lib/jackson-sanser-3.1.jar:/usr/lib/hadoop/lib/jackson-sanser-3.8.jar:/usr/lib/hadoop/lib/jackson-sanser-3.8.jar:/usr/lib/hadoop/lib/jackson-sanser-3.8.jar:/usr/lib/hadoop/lib/jackson-sanser-3.8.jar:/usr/lib/hadoop/lib/jackson-sanser-3.8.jar:/usr/lib/hadoop/lib/jackson-sanser-3.8.jar:/usr/lib/hadoop/lib/jaser-run ime-5.5.23.jar:/usr/lib/hadoop/lib/javb-api-2.2.jar:/usr/lib/hadoop/lib/jarser-compiler-5.5.2.3.jar:/usr/lib/hadoop/lib/jast>0.8.jar:/usr/lib/hadoop/lib/jarser-ser-1.8.jar:/usr/lib/hadoop/lib/jarser-3.5.3.jar:/usr/lib/hadoop/lib/jarser-3.8.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/lib/hadoop/lib/jarser-3.3.jar:/usr/li</pre>					
<pre>info: Excluding /usr/lib/adoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/ativa -Xmx20m -Dflume.root.logger=INF0, console -cp 'conf:/usr/lib/flume-ng/lib/*:/etc/hadoop/ ionf:/usr/lib/hadoop/lib/activation-1.1.jar:/usr/lib/hadoop/lib/camnas.2.jar:/usr/lib/hadoop/lib/comnons-cli-1.2.ja :/usr/lib/hadoop/lib/comnons-configuration-1.6.jar:/usr/lib/hadoop/lib/comnons-colections-3.2.1.jar:/usr/lib/hadoop/lib/comnons-configuration-1.6.jar:/usr/lib/hadoop/lib/comnons-io_1.jar:/usr/lib/hadoop/lib/comnons-configuration-1.6.jar:/usr/lib/hadoop/lib/comnons-io_2.1.jar:/usr/lib/hadoop/lib/comnons-configuration-1.6.jar:/usr/lib/hadoop/lib/comnons-io_2.1.jar:/usr/lib/hadoop/lib/comnons-logging-1.1.jar:/usr/lib/hadoop/lib/comnons-at-1.jar:/usr/lib/hadoop/lib/comnons-el-1.1.jar:/usr/lib/hadoop/lib/comnons-logging-1.1.jar:/usr/lib/hadoop/lib/comnons-math-2.1.jar:/usr/lib/hadoop/lib/comnons-el-1.1.jar:/usr/lib/hadoop/lib/comnons-logging-1.1.jar:/usr/lib/hadoop/lib/lomons-math-2.1.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.s.jar:/usr/lib/hadoop/lib/jackson-asl-1.8.s.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.s.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.s.jar:/usr/lib/hadoop/lib/jackson-xc-1.8.s.jar:/usr/lib/hadoop/lib/jackson-laz.jar:/usr/lib/hadoop/lib/jackson-xc-1.8.s.jar:/usr/lib/hadoop/lib/jackson-laz.jar:/usr/lib/hadoop/lib/jackson-xc-1.8.s.jar:/usr/lib/hadoop/lib/jackson-laz.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:/usr/lib/hadoop/lib/jsesy-sc.3.jar:</pre>					
<pre>info: Excluding /usr/lib/hadoop/lib/slf4j-aji-1_6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/atvation1.1.jar:/usr/lib/hadoop/lib/sam-3.2.jar:/usr/lib/hadoop/lib/atvation1.1.jar:/usr/lib/hadoop/lib/asm-3.2.jar:/usr/lib/hadoop/lib/atvation1.1.jar:/usr/lib/hadoop/lib/asm-3.2.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja i/usr/lib/hadoop/lib/commons-codec1.4.jar:/usr/lib/hadoop/lib/commons-collections-3.2.1.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja i/usr/lib/hadoop/lib/commons-codec1.4.jar:/usr/lib/hadoop/lib/commons-collections-3.2.1.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja i/usr/lib/hadoop/lib/commons-codec1.4.jar:/usr/lib/hadoop/lib/commons-collections-3.2.1.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja i/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-logging-1.1.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-logging-1.1.jar:/usr/lib/hadoop/lib/commons-math-2.1.jar:/usr/lib/hadoop/lib/commons-nath-2.1.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jars-1.8.8.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-maper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-maper-2.2.jar:/usr/lib/hadoop/lib/jackson-maper-2.3.jar:/usr/lib/hadoop/lib/jackson-maper-2.3.jar:/usr/lib/hadoop/lib/jack-0.1.3.gar:/usr/lib/hadoop/lib/jack-0.1.2.jar:/usr/lib/hadoop/lib/jetsy-5.2.3.jar:/usr/lib/hadoop/lib/jetsy-6.1.2.6.cloudera.2.jar:/usr/lib/hadoop/lib/jetsy-6.1.3.jar:/usr/lib/hadoop/lib/jetsy-6.1.3.jar:/usr/lib/hadoop/lib/jetsy-6.1.3.jar:/usr/lib/hadoop/lib/jetsy-3.jar:/usr/lib/hadoop/lib/jetsy-3.jar:/usr/lib/hadoop/lib/jetsy-3.jar:/usr/lib/hadoop/lib/jetsy-3.jar:/usr/lib/hadoop/lib/jetsy-3.jar:/usr/lib/hadoop/</pre>					
<pre>info: Excluding /usr/lib/hadoop/lib/slf4j-log4j12-1.6.1.jar from classpath info: Excluding /usr/lib/hadoop/lib/acm20-mapreduce/lib/slf4j-api-1.6.1.jar from classpath exec /usr/java/jdk1.6.0_31/bin/java -Xmx20m -Dflume.root.logger=INF0,console -cp 'conf:/usr/lib/hadoop/lib/acm-1.7.4.jar:/usr/lib/hadoop/lib/commons-beanutils-1.7.4.jar:/usr/lib/hadoop/lib/commons-cl.1.2.ja :/usr/lib/hadoop/lib/activation-1.1.jar:/usr/lib/hadoop/lib/commons-coleanutils-core-1.8.0.jar:/usr/lib/hadoop/lib/commons-cli-1.2.ja :/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-icl.1.a.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-icl.1.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-icl.1.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-icl.1.jar:/usr/lib/hadoop/lib/commons-at-1.jar:/usr/lib/hadoop/lib/commons-logging 1.1.jar:/usr/lib/hadoop/lib/commons-math-2.1.jar:/usr/lib/hadoop/lib/commons-logging 1.1.jar:/usr/lib/hadoop/lib/commons-math-2.1.jar:/usr/lib/hadoop/lib/jackson-acre-3.1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-acre-1.8.8.a.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-acre-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-acre-3.2.jar:/usr/lib/hadoop/lib/jackson-acre-1.8.3.jar:/usr/lib/hadoop/lib/jackson-acre-3.jar:/usr/lib/hadoop/lib/jaxrs/lib/hadoop/lib/jaxbimpl-2.2.3.jar:/usr/lib/hadoop/lib/jserse-c2.jar:/usr/lib/hadoop/lib/jackson-acre/usr/lib/hadoop/lib/jserse-c2.jar:/usr/lib/hadoop/lib/jserse-c2.jar:/usr/lib/hadoop/lib/jsr3t-6.6. jar:/usr/lib/hadoop/lib/jsr3t-5.jar:/usr/lib/hadoop/lib/jserse-c2.jar:/usr/lib/hadoop/lib/jserse-c3.jar:/usr/lib/hadoop/lib/jserse-c3.jar:/usr/lib/hadoop/lib/jsr3t-6.1.8.jar:/usr/lib/hadoop/lib/jserse-c3.jar:/usr/lib/hadoop/l</pre>					
<pre>. exec /usr/java/jdkl.6.b 31/bin/java -kmx20m bflume.root.logger=TMF0.console -cp 'conf:/usr/lib/hdoop/lib/artivation-1.1.jar:/usr/lib/hadoop/lib/asm-3.2.jar:/usr/lib/hadoop/lib/artivation-1.1.jar:/usr/lib/hadoop/lib/commons-beanutils-1.7.0.jar:/usr/lib/hadoop/lib/commons-beanutils-core-1.8.0.jar:/usr/lib/hadoop/lib/commons-coli-1.2.ja :/usr/lib/hadoop/lib/commons-codec-1.4.jar:/usr/lib/hadoop/lib/commons-collections-3.2.1.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-digester-1.8.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-aconfiguration-1.6.jar:/usr/lib/hadoop/lib/commons-icollections-3.2.1.jar:/usr/lib/hadoop/lib/commons-configuration-1.6.jar:/usr/lib/hadoop/lib/commons-icollections-3.2.1.jar:/usr/lib/hadoop/lib/commons-act-3.1.jar:/usr/lib/hadoop/lib/commons-logging-1.1.jar:/usr/lib/hadoop/lib/commons-math-2.1.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jackson-iapra-1.8.8.jar:/usr/lib/hadoop/lib/jack-iapr:/usr/lib/hadoop/lib/jackson-iapra-1.2.jar:/usr/lib/hadoop/lib/jackson-iapra-1.2.jar:/usr/lib/hadoop/lib/jack-iapr:/usr/lib/hadoop/lib/jack-iapr:/usr/lib/hadoop/lib/jist3t-6.6. jar:/usr/lib/hadoop/lib/jist3t-api-2.2.jar:/usr/lib/hadoop/lib/jisty-6.1.26.cloudera.2.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-api-2.1.jar:/usr/lib/hadoop/lib/jisty-2.jar:/usr/lib/hadoop/lib/jisty-api-</pre>					
<pre>onf:/usr/lib/hadoop/lib/activation-1.1.jar:/usr/lib/hadoop/lib/asm-3.2.jar:/usr/lib/hadoop/lib/avro-1.7.4.jar:/usr/lib/hadoop/lib/commons-beanutils-ore-1.8.0.jar:/usr/lib/hadoop/lib/commons-coli-1.2.jar:/usr/lib/hadoop/lib/commons-comfiguration-1.6.jar:/usr/lib/hadoop/lib/commons-comfiguration-1.6.jar:/usr/lib/hadoop/lib/commons-ore-1.2.jar:/usr/lib/hadoop/lib/commons-comfiguration-1.6.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-thtpclient-3.1.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-httpclient-3.1.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-httpclient-3.1.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-httpclient-3.1.jar:/usr/lib/hadoop/lib/commons-io-2.1.jar:/usr/lib/hadoop/lib/commons-httpclient-3.1.jar:/usr/lib/hadoop/lib/commons-io-2.3.0-cdh4.3.0.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-come-asl-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-jaxrs-1.8.8.jar:/usr/lib/hadoop/lib/jackson-apper-asl-1.8.8.jar:/usr/lib/hadoop/lib/jab-impl-2.2.3.1.jar:/usr/lib/hadoop/lib/jatb-impl-2.2.3.1.jar:/usr/lib/hadoop/lib/jatb-impl-2.2.3.1.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jetsy-6.5.23.jar:/usr/lib/hadoop/lib/jets</pre>					
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jar:/usr/lib/hadoop/lib/stax-api-1.0.1.jar:/usr/lib/hadoop/lib/xmlenc-0.52.jar:/usr/lib/hadoop/lib/xz-1.0.jar:/usr/lib/hado p/lib/zookeeper-3.4.5-cdh4.3.0.jar:/usr/lib/hadoop/.//bin:/usr/lib/hadoop/.//client:/usr/lib/hadoop/.//lib/adoop/.//hadoop- nadoop/.//cloudera:/usr/lib/hadoop/.//etc:/usr/lib/hadoop/.//hadoop-annotations-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop- nnotations.jar:/usr/lib/hadoop/.//hadoop-auth-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop- ./common-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop- ./cib/hadoop/.//lib/usr/lib/hadoop/.//libexec:/usr/lib/hadoop/.//sbin:/usr/lib/hadoop-hdfs/./:/usr/lib/hadoop-hdfs/lib/asm- .2.jar:/usr/lib/hadoop-hdfs/lib/commons-cli-1.2.jar:/usr/lib/hadoop-hdfs/lib/commons-codec-1.4.jar:/usr/lib/hadoop-hdfs/lib/ab					
<pre>p/lib/zookeeper-3.4.5.cdh4.3.0.jar:/usr/lib/hadoop/.//bin:/usr/lib/hadoop/.//client:/usr/lib/hadoop/.//client-0.20:/usr/lib/ adoop/.//cloudera:/usr/lib/hadoop/.//etc:/usr/lib/hadoop/.//hadoop-antations-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop/.//hadoop- innotations.jar:/usr/lib/hadoop/.//hadoop-auth-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/./hadoop-auth.jar:/usr/lib/hadoop/.//hadoop- -common-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common.jar:/u r/lib/hadoop/./lib/uscop/./lib/hadoop/.//bace:/usr/lib/hadoop/.//sbin:/usr/lib/hadoop-hdf5/.j/usr/lib/hadoop-hdf5/lib/amoop-hdf5/lib/amoop-hdf5/lib/amoop-hdf5/lib/amoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadoop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib/hadop-hdf5/lib/cammons-cl.1.jar:/usr/lib</pre>					
adoop/.//cloudera:/usr/lib/hadoop/.//etc:/usr/lib/hadoop/.//hadoop-annotations-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop- nnotations.jar:/usr/lib/hadoop/.//hadoop-auth-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/./hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common-jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common-jar:/usr/lib/hadoop-hdfs/.//ib/camons.jar:/usr/lib/hadoop-hdfs/lib/asm- .2.jar:/usr/lib/hadoop-hdfs/lib/commons-cli-1.2.jar:/usr/lib/hadoop-hdfs/lib/commons-codec-1.4.jar:/usr/lib/hadoop-hdfs/lib/ ommons-deamon-1.0.3.jar:/usr/lib/hadoop-hdfs/lib/camons-el-1.0.jar:/usr/lib/hadoop-hdfs/lib/camons-sio-2.1.jar:/usr/lib/hadoop-hdfs/lib/asm-					
nnotātions.jar:/usr/lib/hadoop.i//hadoop-auth-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop-auth.jar:/usr/lib/hadoop/.//hadoo .common-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common.jar:/ r/lib/hadoop/.//lib:/usr/lib/hadoop/.//libexec:/usr/lib/hadoop/.//sbin:/usr/lib/hadoop-hdfs/.i/usr/lib/hadoop-hdfs/lib/asm .2.jar:/usr/lib/hadoop-hdfs/lib/commons-cli-1.2.jar:/usr/lib/hadoop-hdfs/lib/commons-codec-1.4.jar:/usr/lib/hadoop-hdfs/lib/ ommons-daemon-1.0.3.jar:/usr/lib/hadoop-hdfs/lib/commons-cli-1.0.jar:/usr/lib/hadoop-hdfs/lib/commons-codec-1.1.jar:/usr/lib/hadoop-hdfs/lib/					
-common-2.0.0-cdh4.3.0.jar:/usr/lib/hadoop/.//hadoop-common-2.0.0-cdh4.3.0-tests.jar:/usr/lib/hadoop/.//hadoop-common.jar:/u r/lib/hadoop/.//lib:/usr/lib/hadoop/.//libexec:/usr/lib/hadoop/.//sbin:/usr/lib/hadoop-hdfs/lib/asm- .2.jar:/usr/lib/hadoop-hdfs/lib/commons-cli-1.2.jar:/usr/lib/hadoop-hdfs/lib/commons-codec-1.4.jar:/usr/lib/hadoop-hdfs/lib/ ommons-daemon-1.0.3.jar:/usr/lib/hadoop-hdfs/lib/commons-el-1.0.jar:/usr/lib/hadoop-hdfs/lib/commons-io-2.1.jar:/usr/lib/had					
r/lib/hadoop.//lib:/usr/lib/hadoop/.//libexec:/usr/lib/hadoop/.//sbin:/usr/lib/hadoop-hdfs/.;/usr/lib/hadoop-hdfs/lib/asm- .2.jar:/usr/lib/hadoop-hdfs/lib/commons-cli-1.2.jar:/usr/lib/hadoop-hdfs/lib/commons-codec-1.4.jar:/usr/lib/had ommons-daemon-1.0.3.jar:/usr/lib/hadoop-hdfs/lib/commons-el-1.0.jar:/usr/lib/hadoop-hdfs/lib/commons-io-2.1.jar:/usr/lib/had					
ommons-daemon-1.0.3.jar:/usr/lib/hadoop-hdfs/lib/commons-el-1.0.jar:/usr/lib/hadoop-hdfs/lib/commons-io-2.1.jar:/usr/lib/had					
	ommons-daemon-1.0.3.jar:/usr/lib/hadoor				

Step 8 : Testing the new Configuration

Open the new terminal and then we can then telnet port 44444 and send Flume an event. The original Flume terminal will output the event in a log message.



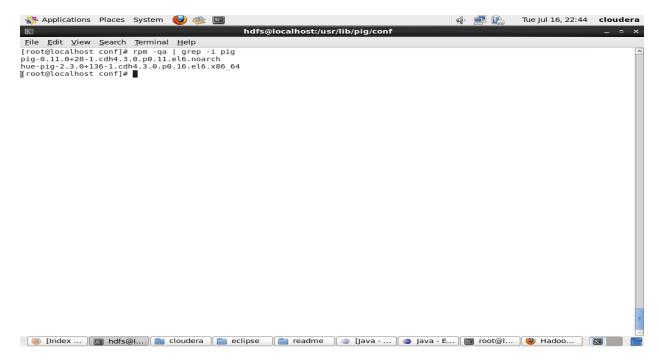
8. Running Pig project

Apache Pig is a platform for analyzing large data sets that consists of a high-level language for expressing data analysis programs, coupled with infrastructure for evaluating these programs. The salient property of Pig programs is that their structure is amenable to substantial parallelization, which in turns enables them to handle very large data sets.

At the present time, Pig's infrastructure layer consists of a compiler that produces sequences of Map-Reduce programs, for which large-scale parallel implementations already exist . Pig's language layer currently consists of a textual language called Pig Latin which can be used to write queries.

Step 1: Checking the pig installation. Pig is installed as a part of quickstart vm

\$rpm -qa |grep -i pig



Step 2: Open Pig Shell which display the grunt prompt. This is used to run user queries in high level query language called Pig Latin

\$ pig -x local

		hdfs@lo	calhost:/usr/lib/pig/conf			•
ndow Menu 🖌 <u>S</u> earch)				
ot@localhost conf]# 3-07-16 22:45:34,12 20:48:21 3-07-16 22:45:34,12	0 [main] INFO	5 5	ain - Apache Pig version 0.11. ain - Logging error messages 1			
5-07-10 22.45.54,12	T [main] INFO	org.apache.prg.ne	iin - Logging error messages (to. /etc/pig/conf.di	.st/pig_13/4029134111.	
8-07-16 22:45:34,17 8-07-16 22:45:34,49 LtFS			npl.util.Utils - Default bootu b.conf.Configuration - fs.defa			.de
8-07-16 22:45:34,49 system at: file:///		org.apache.pig.ba	ckend.hadoop.executionengine.	.HExecutionEngine -	Connecting to hadoop	fi
-07-16 22:45:34,94 .bytes-per-checksu	H4 [main] WARN M	5	o.conf.Configuration - io.byte	-	•	
3-07-16 22:45:34,94 LtFS ht> ls	9 [main] WARN	org.apache.hadoop	.conf.Configuration - fs.defa	ault.name is depreca	ated. Instead, use fs.	de
<pre>it> is :/etc/pig/conf.dis :/etc/pig/conf.dis :/etc/pig/conf.dis :/etc/pig/conf.dis :/etc/pig/conf.dis :/etc/pig/conf.dis</pre>	t/pig_13740275 t/log4j.properti t/pig.properti	573275.log <r 1=""> rties<r 1=""> 1133 ies<r 1=""> 2320</r></r></r>	11495 1067			
<pre>:/etc/pig/conf.dis nt> </pre>			1067			

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Step 3: Running the sample pig latin query: This greps for a particular pattern in a input file.

🔆 Applications Places System 👹 🙊 国	1 d. 🗐 🛍	Tue Jul 16, 23:05	cloudera
hdfs@localhost:/usr/lib/pig/conf			×
File Edit View Search Terminal Help			
dfs.bytes-per-checksum 2013-07-16 22:59:39,486 [main] WARN org.apache.hadoop.conf.Configuration - fs.default faultF5	.name is depred	cated. Instead, u	se fs.de
grunt> A = LOAD 'file:/etc/pig/conf.dist/pig_1374029774747.log'; 2013-07-16 23:00:34,759 [main] WARN org.apache.hadoop.conf.Configuration - dfs.umaskm issions.umask-mode	node is deprecat	ted. Instead, use	fs.perm
2013-值7-16 23:00:34,759 [main] WARN org.apache.hadoop.conf.Configuration - topology.n	ode.switch.mapp	ping.impl is depr	ecated.
Instead, use net.topology.node.switch.mapping.impl			
2013-07-16 23:00:34,764 [main] WARN org.apache.hadoop.conf.Configuration - dfs.df.int .interval	erval is deprec	cated. Instead, u	se fs.df
2013-07-16 23:00:34,764 [main] WARN org.apache.hadoop.conf.Configuration - topology.s	cript.number.ar	rgs is deprecated	. Instea
d, use net.topology.script.number.args 2013-07-16 23:00:34,765 [main] WARN org.apache.hadoop.conf.Configuration - hadoop.nat	ive lib is denu	recated Instead	use io
native lib.available	ive.cib is depi	recateu. Insteau,	use 10.
grunt> B = FILTER A BY \$0 MATCHES '.*dfs[a-z.]+.*';			
2013-07-16 23:01:43,094 [main] WARN org.apache.pig.PigServer - Encountered Warning IM	IPLICIT_CAST_T0	_CHARARRAY 1 time	(s).
grunt> DUMP B;	IDI TOTT CAST TO		(-)
2013-07-16 23:01:50,308 [main] WARN org.apache.pig.PigServer - Encountered Warning IM 2013-07-16 23:01:50,311 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig f 2013-07-16 23:01:50,608 [main] INFO	features used ir	n the script: FIL	TER
<pre>tion threshold: 100 optimistic? false 2013-07-16 23:01:50,639 [main] INFO org.apache.pig.backend.hadoop.executionengine.map an size before optimization: 1</pre>	ReduceLayer.Mul	ltiQuery0ptimizer	- MR pl
2013-07-16 23:01:50,639 [main] INF0 org.apache.pig.backend.hadoop.executionengine.map	ReduceLayer.Mul	ltiQuery0ptimizer	- MR pl 🚪
an size after optimization: 1 2013-07-16 23:01:50,872 [main] WARN org.apache.hadoop.conf.Configuration - session.id s.session.id	d is deprecated.	. Instead, use df	s.metric
2013-07-16 23:01:50,879 [main] INFO org.apache.hadoop.metrics.jvm.JvmMetrics - Initia	alizing JVM Metr	rics with process	Name=Job
Tracker, sessionId= 2013-07-16 23:01:50,971 [main] WARN org.apache.pig.backend.hadoop23.PigJobControl - f	alling back to	default JobContr	ol (not
using hadoop 0.23 ?) java.lang.NoSuchFieldException: jobsInProgress			
at java.lang.Class.getDeclaredField(Class.java:1882)			
at org.apache.pig.backend.hadoop23.PigJobControl. <clinit>(PigJobControl.java:5</clinit>			
at org.apache.pig.backend.hadoop.executionengine.shims.HadoopShims.newJobContr			
at org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.JobControlComp	iler.compile(Jo	obControlCompiler	.java:28
 at org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLaunc 	her.launchPig(M	MapReduceLauncher	iava:17
7)		apressesedurener	
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Step 4 : Displays the success message on successful completion of query.

🔆 Applications Places System 🎒 🔍 🔲 👘 Tue jul 16, 23:06 cloudera
hdfs@localhost:/usr/lib/pig/conf _ • ×
File Edit View Search Terminal Help
2013-07-16 23:01:53,847 [pool-1-thread-1] INFO org.apache.hadoop.mapred.Task - Task 'attempt_local287190388_0001_m_000000_0'
2013-07-16 23:01:53,847 [pool-1-thread-1] INFO org.apache.hadoop.mapred.LocalJobRunner - Finishing task: attempt_local287190
388_0001_m_000000_0 2013-07-16 23:01:53,847 [Thread-4] INFO org.apache.hadoop.mapred.LocalJobRunner - Map task executor complete. 2013-07-16 23:01:57,819 [main] WARN org.apache.pig.tools.pigstats.PigStatsUtil - Failed to get RunningJob for job job_local2 87190388 0001
2013-07-16 23:01:57,862 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - 100% co molete
2013-07-16 23:01:57,862 [main] INFO org.apache.pig.tools.pigstats.SimplePigStats - Detected Local mode. Stats reported below may be incomplete
2013-07-16 23:01:57,867 [main] INFO org.apache.pig.tools.pigstats.SimplePigStats - Script Statistics:
HadoopVersion PigVersion UserId StartedAt FinishedAt Features 2.0.0-cdh4.3.0 0.11.0-cdh4.3.0 root 2013-07-16 23:01:50 2013-07-16 23:01:57 FILTER
Success!
Job Stats (time in seconds): JobId Alias Feature Outputs job_local287190388_0001 A,B MAP_ONLY file:/tmp/temp-1830343682/tmp-1843975029,
Input(s): Successfully read records from: "file:///etc/pig/conf.dist/pig_1374029774747.log"
Output(s): Successfully stored records in: "file:/tmp/temp-1830343682/tmp-1843975029"
Job DAG: job_local287190388_0001
2013-07-16 23:01:57,867 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
: 2013-07-16 23:01:57,872 [main] WARN org.apache.pig.data.SchemaTupleBackend - SchemaTupleBackend has already been initialized 2013-07-16 23:01:57,878 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1 2013-07-16 23:01:57,878 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to pro cess : 1 grunt>
🔋 🕘 [Index) 🔯 hdfs@l) 🗟 cloudera) 💼 eclipse 🛛 💼 readme 🗋 🥃 [Java) 🤤 Java - E) 🔯 root@l) 🔞 Hadoo) 🔯 📰 🧮

9. MAHOUT installation

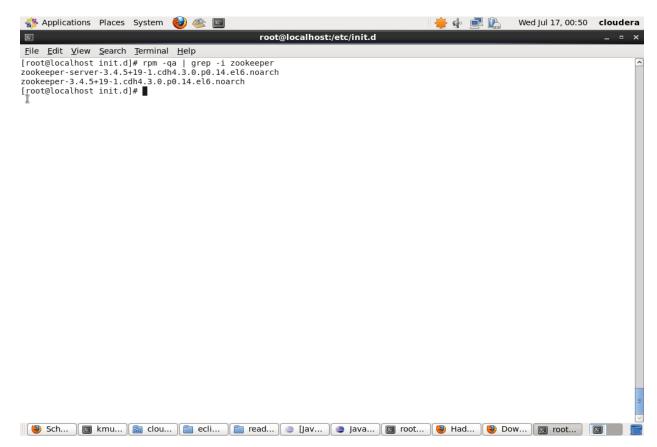
The goal of Mahout is to build a vibrant, responsive, diverse community to facilitate discussions not only on the project itself but also on potential use cases. Mahout comes installed with quickstart vm. There is no additional configuration required.



10. Zookeeper

ZooKeeper is a centralized service for maintaining configuration information, naming, providing distributed synchronization, and providing group services. All of these kinds of services are used in some form or another by distributed applications. ZooKeeper allows distributed processes to coordinate with each other through a shared hierarchal namespace which is organized similarly to a standard file system. All objects in this namespace are represented by znode which has data and attributes associated with it. We can perform all basic file operations like create, delete, modify etc on this node.

Step 1: Check for zookeeper installation. Zookeeper is installed as part of Cloudera quickstart vm



Step 2 : Start zookeeper

\$service zookeeper.server start



Step 3: Creating a z-node and setting some data in that node

💨 Applications Places System 🎯 🚳 🔤	🌞 🏟 📃 🖺 Wed Jul 17, 00:54 cloudera
E root@localhost:/etc/init.	d _ = ×
File Edit View Search Terminal Help	
	<u> </u>
<pre>[root@localhost init.d]# /usr/lib/zookeeper/bin/zkCli.sh -server 127.0.0</pre>	.1:2181
Connecting to 127.0.0.1:2181	
2013-07-17 00:54:01,877 [myid:] - INFO [main:Environment@100] - Client t on 05/28/2013 02:01 GMT	environment:zookeeper.version=3.4.5-can4.3.01, buil
	environment:host.name=localhost.localdomain
	environment:java.version=1.6.0 31
	environment:java.vendor=Sun Microsystems Inc.
	environment:java.home=/usr/java/jdk1.6.0_31/jre
<pre>2013-07-17 00:54:01,893 [myid:] - INFO [main:Environment@100] - Client /build/classes:/usr/lib/zookeeper/bin//build/lib/*.jar:/usr/lib/zookee</pre>	environment:java.class.path=/usr/lib/zookeeper/bin/
eper/bin//lib/slf4j-api-1.6.1.jar:/usr/lib/zookeeper/bin//lib/netty-	
.2.15.jar:/usr/lib/zookeeper/bin//lib/jline-0.9.94.jar:/usr/lib/zookee	
<pre>eeper/bin//src/java/lib/*.jar:/usr/lib/zookeeper/bin//conf:</pre>	
2013-07-17 00:54:01,893 [myid:] - INFO [main:Environment@100] - Client	
re/lib/amd64/server:/usr/java/jdk1.6.0_31/jre/lib/amd64:/usr/java/jdk1.6	.0_31/jre//lib/amd64:/usr/java/packages/lib/amd64:/
usr/lib64:/lib64:/lib:/usr/lib	
2013-07-17 00:54:01,894 [myid:] - INFO [main:Environment@100] - Client 2013-07-17 00:54:01,894 [myid:] - INFO [main:Environment@100] - Client	
2013-07-17 00:54:01,894 [myid:] - INFO [main:Environment@100] - Client	
2013-07-17 00:54:01,895 [myid:] - INFO [main:Environment@100] - Client	
	environment:os.version=2.6.32-220.23.1.el6.x86_64
2013-07-17 00:54:01,902 [myid:] - INFO [main:Environment@100] - Client	
2013-07-17 00:54:01,903 [myid:] - INFO [main:Environment@100] - Client	
	<pre>environment:user.dir=/etc/rc.d/init.d g client connection, connectString=127.0.0.1:2181 ses</pre>
sionTimeout=30000 watcher=org.apache.zookeeper.ZooKeeperMain\$MvWatcher@7	
Welcome to ZooKeeper!	
2013-07-17 00:54:01,957 [myid:] - INFO [main-SendThread(localhost.local	domain:2181):ClientCnxn\$SendThread@966] - Opening soc
ket connection to server localhost.localdomain/127.0.0.1:2181. Will not	attempt to authenticate using SASL (Unable to locate
a login configuration)	
JLine support is @nabled 2013-07-17 00:54:01,969 [mvid:] - INFO [main-SendThread(localhost.local	demain, 2181), ClientCovetSondThread@8401 Socket comp
ection established to localhost.localdomain/127.0.0.1:2181, initiating s	
2013-07-17 00:54:01,986 [myid:] - INFO [main-SendThread(localhost.local	
tablishment complete on server localhost.localdomain/127.0.0.1:2181, ses	sionid = 0x13fe9a256770006, negotiated timeout = 3000
0	=
WATCHER::	
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References:

www.cloudera.com

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http://developer.yahoo.com/hadoop/tutorial/