

CLUDERA CONFIGURATION VALIDATOR

Cloudera configuration validator program reads the username, password, hostname from configuration file and validates the services running in each machine and generates the cluster status report.

Prerequisites:

Install 'Cloudera Quick Start Virtual Machine'

If the amount of ram is insufficient

1. Install Hadoop
2. Install Zookeeper
3. Install Kafka
4. Install Flume

How To Run:

Step 1: Cluster Access Configuration File

Add your machine 'host', 'username', 'password' to the host's object of 'configuration.json' file, and run clouderaconfigurationvalidator.jar file, it validates the services running in your machine.

Step 2: Validate Running Cloudera Server

Run `/etc/init.d/cloudera-scm-server status`

Step 3: Validate Running Cloudera Agent

Run `/etc/init.d/cloudera-scm-agent status`

Step 4: validate Flume package Availability

Run `flume-ng version`

Run Test:

`flume-ng agent -n exec-hdfs -f exec-hdfs.conf`

Validate test:

`hadoop fs -ls /exec-hdfs/`

Step 5: validate Kafka package Availability

Run `echo stat | nc localhost 2181`

Run `echo dump | nc localhost 2181 | grep brokers`

Run Test:

```
${KAFKA_HOME}/bin/kafka-topics.sh --create --zookeeper localhost:2181 --replication-factor  
1 --partitions 1 --topic test
```

Step 6: validate HDFS Availability

Run `hdfs dfsadmin -report`

Run Test:

Hadoop `fs -ls /`

Step 7: Generate Cluster Status Report and Cluster Size

Run `java -jar clouderaconfigurationvalidator.jar`