Upgrading from CDH 4 to CDH 5 Parcels

## 1) Pre-Upgrade

* Upgrade to Cloudera Manager 5 before upgrading to CDH 5
* Ensure Java 1.7 is installed across the cluster.
* Make sure No job is running and no user is using hadoop cluster
* Run the Host Inspector and fix every issue.
* If using security, run the Security Inspector.
* Run hdfs fsck / and hdfs dfsadmin -report and fix every issue(if any).
* Stop All Services
* Stop the Cloudera Management Service
* Perform Service-Specific Prerequisite Actions
  + Back up HDFS metadata on the NameNode (tar -cvf /root/nn\_backup\_data.tar /data/dfs/nn/\*)
  + Back up the Hive and Sqoop metastore databases. (Ref: https://www.cloudera.com/documentation/enterprise/5-6-x/topics/cm\_ag\_backup\_dbs.html#xd\_583c10bfdbd326ba--6eed2fb8-14349d04bee--7e98)

## 2) Upgrade CM4 to CM5

* Stop Cloudera Manager Server, Database, and Agent
* sudo service cloudera-scm-server stop
* sudo service cloudera-scm-server-db stop
* sudo service cloudera-scm-agent hard\_stop\_confirmed
* Upgrade the JDK on Cloudera Manager Server and Agent Hosts
  + Upgrade Cloudera Manager
    - Find the Cloudera repo file for your distribution by starting at https://archive.cloudera.com/cm5/ and navigating to the directory that matches your operating system.
    - Example:
      * For Red Hat or CentOS 6, you would go to "https://archive.cloudera.com/cm5/redhat/6/x86\_64/cm/" and download "cloudera-manager.repo"(For ubuntu it would be "cloudera.list").
      * Copy cloudera-manager.repo to /etc/yum.repos.d/.
      * Run the following commands:
      * $ sudo yum clean all
      * $ sudo yum upgrade cloudera-manager-server cloudera-manager-daemons cloudera-manager-server-db-2 cloudera-manager-agent
    - Start Cloudera Manager Server
      * sudo service cloudera-scm-server-db start
      * sudo service cloudera-scm-server start

## 3) Run the Upgrade Wizard

* + Log into the Cloudera Manager Admin console.
  + From the Home > Status tab, click next to the cluster name and select Upgrade Cluster. The Upgrade Wizard starts.
  + click the Use Parcels radio button.
  + The selected parcels are downloaded and distributed. Click Continue.
  + Click Continue. Cloudera Manager performs all service upgrades and restarts the cluster.
  + Click Finish to return to the Home > Status tab.
  + Done