CM Install Lab

System Configuration Checks

Using the steps below, verify that all instances are ready. You must modify them when necessary, which includes installing missing packages and changing kernel tunables or other system settings.

You only need to show this work for one of the instances, but you will run into trouble later on if you don't complete this work on all of them.

1. Check `vm.swappiness` on all your nodes
    - Set the value to `1` if necessary
2. Show the mount attributes of your volume(s)
3. If you have ext-based volumes, list the reserve space setting
    - XFS volumes do not support reserve space
4. Disable transparent hugepage support
5. List your network interface configuration
6. Show that forward and reverse host lookups are correctly resolved
    - For /etc/hosts, use getent
    - For DNS, use nslookup
7. Show the nscd service is running
8. Show the ntpd service is running

Cloudera Manager Install Lab

Path B install using CM 5.15.x

The full rundown is here. You will have to modify your package repo to get the right release. The default repo download always points to the latest version.

Use the documentation to complete the following objectives:

- Install a supported Oracle JDK on your first node
- Install a supported JDBC connector on all nodes
- Create the databases and access grants you will need
- Configure Cloudera Manager to connect to the database
- Start your Cloudera Manager server -- debug as necessary
- Do not continue until you can browse your CM instance at port 7180

MySQL/MariaDB Installation Lab

Configure MySQL with a replica server

Choose one of these plans to follow:

- You can use the steps documented here for MariaDB or here for MySQL.
- The steps below are MySQL-specific.
    - If you are using RHEL/CentOS 7.x, **use MariaDB**.

MySQL installation - Plan Two Detail

1. Download and implement the official MySQL repo
    - Enable the repo to install MySQL 5.5
    - Install the `mysql` package on all nodes
    - Install `mysql-server` on the server and replica nodes
    - Download and copy the JDBC connector to all nodes.
2. You should not need to build a `/etc/my.cnf` file to start your MySQL server
    - You will have to modify it to support replication. Check MySQL documentation.
3. Start the `mysqld` service.
4. Use `/usr/bin/mysql_secure_installation` to:
   a. Set password protection for the server
   b. Revoke permissions for anonymous users
   c. Permit remote privileged login
   d. Remove test databases
   e. Refresh privileges in memory
   f. Refreshes the `mysqld` service

Cloudera Manager Install Lab

Install a cluster and deploy CDH

Adhere to the following requirements while creating your cluster:

- Do not use Single User Mode. Do not. Don't do it.
- Ignore any steps in the CM wizard that are marked `(Optional)`

- Install the Data Hub Edition
- Install CDH using parcels
- Deploy **only** the `Core set` of CDH services.
- Deploy **three** ZooKeeper instances.
    - CM does not tell you to do this but complains if you don't