Path_B

wget https://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm

md5sum mysql57-community-release-el7-9.noarch.rpm

sudo rpm -ivh mysql57-community-release-el7-9.noarch.rpm

sudo yum install mysql-server

sudo systemctl start mysqld

sudo systemctl status mysqld

sudo grep 'temporary password' /var/log/mysqld.log

sudo mysql_secure_installation

mysqladmin -u root -p version

mysql -u root -p

install jdbc on all machines use clustercmd.sh

.\pscp.exe -P 22 -i .\testy.ppk testy.pem clustercmd.sh centos@10.0.0.22:/home/.ssh

wget https://dev.mysql.com/get/Downloads/Connector-J/mysql-connector-java-5.1.46.tar.gz

tar zxvf mysql-connector-java-5.1.46.tar.gz

sudo mkdir -p /usr/share/java/

cd mysql-connector-java-5.1.46

sudo cp /home/centos/mysql-connector-java-5.1.46/mysql-connector-java-5.1.46-bin.jar /usr/share/java/mysql-connector-java.jar

```
mysql -u root -p

CREATE DATABASE scm DEFAULT CHARACTER SET utf8 DEFAULT COLLATE
utf8_general_ci;
GRANT ALL ON scm.* TO 'scm'@'%' IDENTIFIED BY 'P@ssw0rd';
SHOW DATABASES;
```

Downlode cdh5-16. & cm5.16 repo....

steps

1. Open your work-space or Your windows &Linux local machine browser (chrome)

2. download the repo from the link and untar the folder cm5.16

https://tinyurl.com/antb9633

Cdh5.16 repo

https://tinyurl.com/z7wprjup

4. untar or Extract the folder open it

5. you will see two folder i.e cdh5.16 & cm5.16 6.

Please send only cdh5.16 and cm5.16 folder on your instance By using

Note : if you have Linux O.S(Local) please use the SCP tool scp -i testy.pem cdh5.16 cm5.16 centos@52.4.22.45:/home/centos if your using

windows(Local) or Workspace(Cloud) send those repo on your instance by using WINSCP tool

Web Server Hosting

```
sudo yum install httpd -y
sudo chkconfig httpd on
sudo service httpd status
sudo service httpd start
```

```
sudo mv cdh5.16/ cm5.16/ /var/www/html/

sudo yum install nano -y

hostname -f

sudo nano /etc/yum.repos.d/cloudera-manager.repo
```

```
[cloudera-manager]
# Packages for Cloudera Manager, Version 5, on RedHat or CentOS 7 x86_64
name=Cloudera Manager
baseurl=http://ip-172-31-22-251.us-east-2.compute.internal/cm5.16/
gpgkey
=http://ip-172-31-22-251.us-east-2.compute.internal/cm5.16/RPM-GPG-KEY-cloudera
gpgcheck = 0

sudo yum clean all

sudo yum makecache

sudo yum install cloudera-manager-server cloudera-manager-daemons -y

sudo /usr/share/cmf/schema/scm_prepare_database.sh mysql -h
ip-172-31-19-96.ec2.internal scm scm P@ssw0rd

sudo service cloudera-scm-server start

http://ip-172-31-56-4.ec2.internal:7180
```

http://ip-172-31-28-239.ec2.internal/cdh5.16/
http://ip-172-31-28-239.ec2.internal/cm5.16/
http://ip-172-31-28-239.ec2.internal/cm5.16/RPM-GPG-KEY-cloudera

mysql -h ip-172-31-59-170.ec2.internal -P 3306 -u root -p [use password entered for RDS]
mysql -u root -p

```
create database hive DEFAULT CHARACTER SET utf8;
grant all on hive.* TO 'hive'@'%' IDENTIFIED BY 'P@ssw0rd';

create database hue DEFAULT CHARACTER SET utf8;
grant all on hue.* TO 'hue'@'%' IDENTIFIED BY 'P@ssw0rd';

create database rman DEFAULT CHARACTER SET utf8;
grant all on rman.* TO 'rman'@'%' IDENTIFIED BY 'P@ssw0rd';

create database navs DEFAULT CHARACTER SET utf8;
grant all on navs.* TO 'navs'@'%' IDENTIFIED BY 'P@ssw0rd';

create database navms DEFAULT CHARACTER SET utf8;
grant all on navms.* TO 'navms'@'%' IDENTIFIED BY 'P@ssw0rd';

create database oozie DEFAULT CHARACTER SET utf8;
grant all on oozie.* TO 'oozie'@'%' IDENTIFIED BY 'P@ssw0rd';

create database actmo DEFAULT CHARACTER SET utf8;
grant all on actmo.* TO 'actmo'@'%' IDENTIFIED BY 'P@ssw0rd';

create database sentry DEFAULT CHARACTER SET utf8;
grant all on sentry.* TO 'sentry'@'%' IDENTIFIED BY 'P@ssw0rd';

CREATE USER 'temp'@'%' IDENTIFIED BY 'P@ssw0rd';

GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, RELOAD, PROCESS,
REFERENCES, INDEX, ALTER, SHOW DATABASES, CREATE TEMPORARY TABLES,
LOCK TABLES, EXECUTE, REPLICATION SLAVE, REPLICATION CLIENT, CREATE
VIEW, SHOW VIEW, CREATE ROUTINE, ALTER ROUTINE, CREATE USER, EVENT,
TRIGGER ON *.* TO 'temp'@'%' WITH GRANT OPTION;

show databases;

exit
```

Prerequisites For Hadoop 2 in Centos 7 & Cloudera Manager

```
rahul@rahul-300E4C-300E5C-300E7C:~$ cd Downloads/

rahul@rahul-300E4C-300E5C-300E7C:~/Downloads$  chmod 400 security.pem

rahul@rahul-300E4C-300E5C-300E7C:~/Downloads$ ssh -i "security.pem"
centos@ec2-54-81-239-146.compute-1.amazonaws.com

1) Disable SeLinux:

[centos@ip-172-31-43-14 ~]$ sudo sed -i  's/SELINUX=enforcing/SELINUX=disabled/'
/etc/selinux/config

[centos@ip-172-31-43-14 ~]$ cat /etc/selinux/config

# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#     enforcing - SELinux security policy is enforced.
#     permissive - SELinux prints warnings instead of enforcing.
#     disabled - No SELinux policy is loaded.
SELINUX=disabled
# SELINUXTYPE= can take one of these two values:
#     targeted - Targeted processes are protected,
#     mls - Multi Level Security protection.
SELINUXTYPE=targeted

[centos@ip-172-31-43-14 ~]$ sudo reboot

rahul@rahul-300E4C-300E5C-300E7C:~/Downloads$ ssh -i "security.pem"
centos@ec2-54-81-239-146.compute-1.amazonaws.com

2) Disable Swappiness:

[centos@ip-172-31-43-14 ~]$ sudo su -c 'echo "vm.swappiness=1" >> /etc/sysctl.conf'

[centos@ip-172-31-43-14 ~]$ sudo sysctl -p

[centos@ip-172-31-43-14 ~]$ cat /proc/sys/vm/swappiness
1

3) Disable IPv6:

[centos@ip-172-31-43-14 ~]$ sudo su -c 'cat >>/etc/sysctl.conf <<EOL
net.ipv6.conf.all.disable_ipv6 =1
net.ipv6.conf.default.disable_ipv6 =1
net.ipv6.conf.lo.disable_ipv6 =1
EOL'

[centos@ip-172-31-43-14 ~]$ sudo sysctl -p
```

```
[centos@ip-172-31-43-14 ~]$  cat /proc/sys/net/ipv6/conf/all/disable_ipv6
```

4) Disable Transparent Hugepage:

```
ubuntu@ip-10-0-0-146:~$ cat /sys/kernel/mm/transparent_hugepage/defrag
[always] madvise never

ubuntu@ip-10-0-0-146:~$ cat /etc/rc.local

ubuntu@ip-10-0-0-146:~$ sudo sed -i '/exit 0/d' /etc/rc.local

ubuntu@ip-10-0-0-146:~$ cat /etc/rc.local

ubuntu@ip-10-0-0-146:~$ sudo su -c 'cat >>/etc/rc.local <<EOL
if test -f /sys/kernel/mm/transparent_hugepage/enabled; then
echo never > /sys/kernel/mm/transparent_hugepage/enabled
fi
if test -f /sys/kernel/mm/transparent_hugepage/defrag; then
echo never > /sys/kernel/mm/transparent_hugepage/defrag
fi
exit 0
EOL'
ubuntu@ip-10-0-0-146:~$ sudo -i

root@ip-10-0-0-146:~# source /etc/rc.local

ubuntu@ip-10-0-0-146:~$ cat /sys/kernel/mm/transparent_hugepage/defrag
always madvise [never]
```

5) Disable Firewall:

```
[centos@ip-172-31-43-14 ~]$ sudo iptables -L -n -v (centos 7 & ubuntu)

[centos@ip-172-31-43-14 ~]$ sudo -I (centos 6)

[root@ip-172-31-43-14 ~]# service iptables status

[root@ip-172-31-43-14 ~]# chkconfig iptables --list

[root@ip-172-31-43-14 ~]# chkconfig iptables off

[root@ip-172-31-43-14 ~]# exit
```

6) Install wget & nano:

```
[centos@ip-10-0-0-70 ~]$ sudo yum -y install wget nano
```

7) DECREASE RESERVE SPACE:

[centos@ip-172-31-43-14 ~]$ sudo file -sL /dev/xvda1

[centos@ip-172-31-43-14 ~]$ lsblk

[centos@ip-172-31-43-14 ~]$ sudo tune2fs -m 1 /dev/xvda1

8) Configure NTP:

[centos@ip-172-31-43-14 ~]$ sudo yum -y install ntp

[root@ip-172-31-43-14 ~]# service ntpd status

ntpd (pid 1765) is running...

[centos@ip-172-31-43-14 ~]$ timedatectl

[centos@ip-172-31-43-14 ~]$ service ntpd status
ntpd (pid 1765) is running...

9) Passwordless SSH

[centos@ip-172-31-43-14 ~]$ sudo su -c touch /home/centos/.ssh/config; echo -e \ "Host *\n
StrictHostKeyChecking no\n UserKnownHostsFile=/dev/null" \ > ~/.ssh/config

[centos@ip-172-31-43-14 ~]$ cd .ssh

[centos@ip-172-31-43-14 .ssh]$ nano config

[centos@ip-172-31-43-14 .ssh]$ echo -e 'y\n'| ssh-keygen -t rsa -P "" -f $HOME/.ssh/id_rsa

[centos@ip-172-31-43-14 .ssh]$ cat $HOME/.ssh/id_rsa.pub >>
$HOME/.ssh/authorized_keys

[centos@ip-172-31-43-14 ~]$ sudo chmod 600 config

[centos@ip-172-31-43-14 ~]$ ssh localhost