# Cloudera Manager 离线部署 CDH 文档

# 1. 配置静态IP(主、次)

vi /etc/sysconfig/network-scripts/ifcfg-ens192

# 把文件内容修改为以下内容

TYPE=Ethernet

BOOTPROTO=static

DEFROUTE=yes

PEERDNS=yes

PEERROUTES=yes

IPV4\_FAILURE\_FATAL=no

IPV6INIT=yes

IPV6\_AUTOCONF=yes

IPV6\_DEFROUTE=yes

IPV6\_PEERDNS=yes

IPV6\_PEERROUTES=yes

IPV6\_FAILURE\_FATAL=no

NAME=eno192 #使用原NAME

UUID=ae0965e7-22b9-45aa-8ec9-3f0a20a85d11

ONBOOT=yes

IPADDR0=192.168.1.30 # 根据需要填写

PREFIXO0=24

GATEWAY0=192.168.1.1

DNS1=8.8.8.8

DNS2=8.8.4.4

service network restart

# 2. 集群初始化(主、次)

## 2.1 修改主机hostname

# 修改为虚拟主机名,例如：

vi /etc/hostname

修改

cdh-agent01

## 2.2 修改主机hosts

echo "192.168.1.31 cdh-server01" >> /etc/hosts

echo "192.168.1.41 cdh-agent01" >> /etc/hosts

echo "192.168.1.42 cdh-agent02" >> /etc/hosts

echo "192.168.1.43 cdh-agent03" >> /etc/hosts

echo "192.168.1.44 cdh-agent04" >> /etc/hosts

## 2.3 关闭防火墙和清空规则

systemctl stop firewalld

systemctl disable firewalld

iptables -F

2.4 se[linux](https://so.csdn.net/so/search?from=pc_blog_highlight&q=linux)关闭

vi /etc/selinux/config

修改

selinux=disabled

## 2.5 时区与时间同步

date

timedatectl --help

timedatectl set-timezone Asia/Shanghai

## 2.6 时间同步(一主多从)

yum install -y ntp

# 主节点

vi /etc/ntp.conf

添加

server 127.127.1.0 iburst local clock

restrict 192.168.1.0 mask 255.255.255.0 nomodify notrap

systemctl start ntpd

systemctl status ntpd

ntpq -p

# 次节点

systemctl stop ntpd

systemctl disable ntpd

ntpdate cdh-server01

crontab -e

添加

# 分 时 日 月 周，每天00:00执行该脚本

00 00 \* \* \* /usr/sbin/ntpdate cdh-server01

# 3. 安装JDK(主、次)

## 3.1 由Tools把软件包移动到主节点

# Tools

scp -r CDH6.3.1 192.168.1.31:/root/

# 次节点

mkdir CDH6.3.1

cd CDH6.3.1

# 主节点

cd CDH6.3.1

scp jdk-8u45-linux-x64.gz cdh-agent01:/root/CDH6.3.1/

scp jdk-8u45-linux-x64.gz cdh-agent02:/root/CDH6.3.1/

scp jdk-8u45-linux-x64.gz cdh-agent03:/root/CDH6.3.1/

scp jdk-8u45-linux-x64.gz cdh-agent04:/root/CDH6.3.1/

## 3.2 jdk安装

mkdir /usr/java

tar -zxvf jdk-8u45-linux-x64.gz -C /usr/java

cd /usr/java/

ll

chown -R root:root /usr/java/jdk1.8.0\_45

vi /etc/profile

添加

export JAVA\_HOME=/usr/java/jdk1.8.0\_45

export PATH=${JAVA\_HOME}/bin:${PATH}

source /etc/profile

which java

# 4. 离线部署MySQL(主)

## 4.1 解压及创建my.cnf

cd /root/CDH6.3.1/

tar xzvf mysql-5.7.11-linux-glibc2.5-x86\_64.tar.gz -C /usr/local

ll

cd /usr/local

ll

mv mysql-5.7.11-linux-glibc2.5-x86\_64 mysql

ll

mkdir mysql/arch mysql/data mysql/tmp

vi /etc/my.cnf

:.,$d

添加

[client]

port = 3306

socket = /usr/local/mysql/data/mysql.sock

default-character-set=utf8mb4

[mysqld]

port = 3306

socket = /usr/local/mysql/data/mysql.sock

skip-slave-start

skip-external-locking

key\_buffer\_size = 256M

sort\_buffer\_size = 2M

read\_buffer\_size = 2M

read\_rnd\_buffer\_size = 4M

query\_cache\_size= 32M

max\_allowed\_packet = 16M

myisam\_sort\_buffer\_size=128M

tmp\_table\_size=32M

table\_open\_cache = 512

thread\_cache\_size = 8

wait\_timeout = 86400

interactive\_timeout = 86400

max\_connections = 600

# Try number of CPU's\*2 for thread\_concurrency

#thread\_concurrency = 32

#isolation level and default engine

default-storage-engine = INNODB

transaction-isolation = READ-COMMITTED

server-id = 1739

basedir = /usr/local/mysql

datadir = /usr/local/mysql/data

pid-file = /usr/local/mysql/data/hostname.pid

#open performance schema

log-warnings

sysdate-is-now

binlog\_format = ROW

log\_bin\_trust\_function\_creators=1

log-error = /usr/local/mysql/data/hostname.err

log-bin = /usr/local/mysql/arch/mysql-bin

expire\_logs\_days = 7

innodb\_write\_io\_threads=16

relay-log = /usr/local/mysql/relay\_log/relay-log

relay-log-index = /usr/local/mysql/relay\_log/relay-log.index

relay\_log\_info\_file= /usr/local/mysql/relay\_log/relay-log.info

log\_slave\_updates=1

gtid\_mode=OFF

enforce\_gtid\_consistency=OFF

# slave

slave-parallel-type=LOGICAL\_CLOCK

slave-parallel-workers=4

master\_info\_repository=TABLE

relay\_log\_info\_repository=TABLE

relay\_log\_recovery=ON

#other logs

#general\_log =1

#general\_log\_file = /usr/local/mysql/data/general\_log.err

#slow\_query\_log=1

#slow\_query\_log\_file=/usr/local/mysql/data/slow\_log.err

#for replication slave

sync\_binlog = 500

#for innodb options

innodb\_data\_home\_dir = /usr/local/mysql/data/

innodb\_data\_file\_path = ibdata1:1G;ibdata2:1G:autoextend

innodb\_log\_group\_home\_dir = /usr/local/mysql/arch

innodb\_log\_files\_in\_group = 4

innodb\_log\_file\_size = 1G

innodb\_log\_buffer\_size = 200M

#根据生产需要，调整pool size

innodb\_buffer\_pool\_size = 2G

#innodb\_additional\_mem\_pool\_size = 50M #deprecated in 5.6

tmpdir = /usr/local/mysql/tmp

innodb\_lock\_wait\_timeout = 1000

#innodb\_thread\_concurrency = 0

innodb\_flush\_log\_at\_trx\_commit = 2

innodb\_locks\_unsafe\_for\_binlog=1

#innodb io features: add for mysql5.5.8

performance\_schema

innodb\_read\_io\_threads=4

innodb-write-io-threads=4

innodb-io-capacity=200

#purge threads change default(0) to 1 for purge

innodb\_purge\_threads=1

innodb\_use\_native\_aio=on

#case-sensitive file names and separate tablespace

innodb\_file\_per\_table = 1

lower\_case\_table\_names=1

[mysqldump]

quick

max\_allowed\_packet = 128M

[mysql]

no-auto-rehash

default-character-set=utf8mb4

[mysqlhotcopy]

interactive-timeout

[myisamchk]

key\_buffer\_size = 256M

sort\_buffer\_size = 256M

read\_buffer = 2M

write\_buffer = 2M

## 4.2 创建用户组及用户

[root@cdh-server01 local]# groupadd -g 101 dba

[root@cdh-server01 local]# useradd -u 514 -g dba -G root -d /usr/local/mysql mysqladmin

useradd: warning: the home directory already exists.

Not copying any file from skel directory into it.

[root@cdh-server01 local]# cp /etc/skel/.\* /usr/local/mysql

cp: omitting directory ‘/etc/skel/.’

cp: omitting directory ‘/etc/skel/..’

[root@cdh-server01 local]# vi mysql/.bashrc

添加

export MYSQL\_BASE=/usr/local/mysql

export PATH=${MYSQL\_BASE}/bin:$PATH

[root@cdh-server01 local]# chown mysqladmin:dba /etc/my.cnf

[root@cdh-server01 local]# chmod 640 /etc/my.cnf

[root@cdh-server01 local]# chown -R mysqladmin:dba /usr/local/mysql

[root@cdh-server01 local]# chmod -R 755 /usr/local/mysql

[root@cdh-server01 local]# cd /usr/local/mysql

[root@cdh-server01 mysql]# cp support-files/mysql.server /etc/rc.d/init.d/mysql

[root@cdh-server01 mysql]# chmod +x /etc/rc.d/init.d/mysql

[root@cdh-server01 mysql]# chkconfig --add mysql

[root@cdh-server01 mysql]# bin/mysqld \

--defaults-file=/etc/my.cnf \

--user=mysqladmin \

--basedir=/usr/local/mysql/ \

--datadir=/usr/local/mysql/data/ \

--initialize

[root@cdh-server01 mysql]# cd data

[root@cdh-server01 data]# cat hostname.err |grep password

2019-12-06T14:24:59.548965Z 1 [Note] A temporary password is generated for root@localhost: r4jSaWdRd;yq

[root@cdh-server01 data]# su - mysqladmin

[mysqladmin@cdh-server01 ~]$ service mysql start

Starting MySQL... SUCCESS!

[mysqladmin@cdh-server01 ~]$ mysql -uroot -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 2

Server version: 5.7.11-log

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affiliates. Other names may be trademarks of their respective

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> exit;

Bye

[mysqladmin@cdh-server01 ~]$ mysql -uroot -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 3

Server version: 5.7.11-log

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affiliates. Other names may be trademarks of their respective

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> alter user root@localhost identified by 'ahu=2018';

Query OK, 0 rows affected (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON \*.\* TO 'root'@'%' IDENTIFIED BY 'ahu=2018' ;

Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> flush privileges;

Query OK, 0 rows affected (0.01 sec)

mysql> exit;

Bye

[mysqladmin@cdh-server01 ~]$ service mysql restart

Shutting down MySQL.. SUCCESS!

Starting MySQL.. SUCCESS!

[mysqladmin@cdh-server01 ~]$ mysql -uroot -pahu=2018

mysql: [Warning] Using a password on the command line interface can be insecure.

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 2

Server version: 5.7.11-log MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database cmf default character set utf8;

Query OK, 1 row affected (0.00 sec)

mysql> create database amon default character set utf8;

Query OK, 1 row affected (0.01 sec)

mysql> grant all privileges on cmf.\* to 'cmf'@'%' identified by 'ahu=2018';

Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> grant all privileges on amon.\* to 'amon'@'%' identified by 'ahu=2018';

Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> flush privileges;

Query OK, 0 rows affected (0.00 sec)

mysql> exit;

Bye

[mysqladmin@cdh-server01 ~]$ exit;

logout

[root@cdh-server01 data]# cd

[root@cdh-server01 ~]# cd CDH6.3.1/

[root@cdh-server01 CDH6.3.1]# ll

total 4118988

-rw-r--r--. 1 root root 2083878000 Dec 5 22:05 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel

-rw-r--r--. 1 root root 40 Dec 5 22:06 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel.sha1

-rw-r--r--. 1 root root 1411444147 Dec 5 22:06 cm6.3.1-redhat7.tar.gz

-rw-r--r--. 1 root root 173271626 Dec 5 22:07 jdk-8u45-linux-x64.gz

-rw-r--r--. 1 root root 33887 Dec 5 22:07 manifest.json

-rw-r--r--. 1 root root 548193637 Dec 5 22:07 mysql-5.7.11-linux-glibc2.5-x86\_64.tar.gz

-rw-r--r--. 1 root root 1007502 Dec 5 22:07 mysql-connector-java-5.1.47.jar

[root@cdh-server01 CDH6.3.1]# mkdir -p /usr/share/java

[root@cdh-server01 CDH6.3.1]# cp mysql-connector-java-5.1.47.jar /usr/share/java/mysql-connector-java.jar

[root@cdh-server01 CDH6.3.1]#

# 5. rpm包部署CM

## 5.1 主节点

[root@cdh-server01 CDH6.3.1]# tar -xzvf cm6.3.1-redhat7.tar.gz

[root@cdh-server01 CDH6.3.1]# ll

total 4118988

-rw-r--r--. 1 root root 2083878000 Dec 5 22:05 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel

-rw-r--r--. 1 root root 40 Dec 5 22:06 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel.sha1

drwxrwxr-x. 5 2001 2001 75 Sep 25 16:51 cm6.3.1

-rw-r--r--. 1 root root 1411444147 Dec 5 22:06 cm6.3.1-redhat7.tar.gz

-rw-r--r--. 1 root root 173271626 Dec 5 22:07 jdk-8u45-linux-x64.gz

-rw-r--r--. 1 root root 33887 Dec 5 22:07 manifest.json

-rw-r--r--. 1 root root 548193637 Dec 5 22:07 mysql-5.7.11-linux-glibc2.5-x86\_64.tar.gz

-rw-r--r--. 1 root root 1007502 Dec 5 22:07 mysql-connector-java-5.1.47.jar

[root@cdh-server01 CDH6.3.1]# cd cm6.3.1

[root@cdh-server01 cm6.3.1]# ll

total 8

drwxrwxr-x. 2 2001 2001 4096 Sep 25 16:51 repodata

-rw-rw-r--. 1 2001 2001 1718 Sep 25 16:51 RPM-GPG-KEY-cloudera

drwxrwxr-x. 4 2001 2001 34 Sep 25 16:50 RPMS

drwxrwxr-x. 2 2001 2001 6 Sep 25 16:50 SRPMS

[root@cdh-server01 cm6.3.1]# cd RPMS/

[root@cdh-server01 RPMS]# ll

total 4

drwxrwxr-x. 2 2001 2001 6 Sep 25 16:50 noarch

drwxrwxr-x. 2 2001 2001 4096 Sep 25 16:51 x86\_64

[root@cdh-server01 RPMS]# cd x86\_64/

[root@cdh-server01 x86\_64]# ll

total 1380420

-rw-r--r--. 1 2001 2001 10483568 Sep 25 16:51 cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm

-rw-r--r--. 1 2001 2001 1203832464 Sep 25 16:50 cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm

-rw-r--r--. 1 2001 2001 11488 Sep 25 16:51 cloudera-manager-server-6.3.1-1466458.el7.x86\_64.rpm

-rw-r--r--. 1 2001 2001 10996 Sep 25 16:51 cloudera-manager-server-db-2-6.3.1-1466458.el7.x86\_64.rpm

-rw-r--r--. 1 2001 2001 14209868 Sep 25 16:51 enterprise-debuginfo-6.3.1-1466458.el7.x86\_64.rpm

-rw-rw-r--. 1 2001 2001 184988341 Sep 25 16:51 oracle-j2sdk1.8-1.8.0+update181-1.x86\_64.rpm

[root@cdh-server01 x86\_64]# rpm -ivh cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm --nodeps --force

warning: cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm: Header V3 RSA/SHA256 Signature, key ID b0b19c9f: NOKEY

Preparing... ################################# [100%]

Updating / installing...

1:cloudera-manager-daemons-6.3.1-14################################# [100%]

[root@cdh-server01 x86\_64]# rpm -ivh cloudera-manager-server-6.3.1-1466458.el7.x86\_64.rpm --nodeps --forcewarning: cloudera-manager-server-6.3.1-1466458.el7.x86\_64.rpm: Header V3 RSA/SHA256 Signature, key ID b0b19c9f: NOKEY

Preparing... ################################# [100%]

Updating / installing...

1:cloudera-manager-server-6.3.1-146################################# [100%]

Created symlink from /etc/systemd/system/multi-user.target.wants/cloudera-scm-server.service to /usr/lib/systemd/system/cloudera-scm-server.service.

[root@cdh-server01 x86\_64]# cd

[root@cdh-server01 ~]# cd /etc/cloudera-scm-server/

[root@cdh-server01 cloudera-scm-server]# ll

total 20

-rw-r--r--. 1 root root 8197 Sep 25 16:34 cmSubCaCert.profile

-rw-------. 1 cloudera-scm cloudera-scm 757 Sep 25 16:34 db.properties

-rw-r--r--. 1 root root 3027 Sep 25 16:34 log4j.properties

[root@cdh-server01 cloudera-scm-server]# vi db.properties

# Copyright (c) 2012 Cloudera, Inc. All rights reserved.

#

# This file describes the database connection.

#

# The database type

# Currently 'mysql', 'postgresql' and 'oracle' are valid databases.

com.cloudera.cmf.db.type=mysql

# The database host

# If a non standard port is needed, use 'hostname:port'

com.cloudera.cmf.db.host=cdh-server01

# The database name

com.cloudera.cmf.db.name=cmf

# The database user

com.cloudera.cmf.db.user=cmf

# The database user's password

com.cloudera.cmf.db.password=ahu=2018

# The db setup type

# After fresh install it is set to INIT

# and will be changed post config.

# If scm-server uses Embedded DB then it is set to EMBEDDED

# If scm-server uses External DB then it is set to EXTERNAL

com.cloudera.cmf.db.setupType=EXTERNAL

[root@cdh-server01 cloudera-scm-server]# service cloudera-scm-server start

Redirecting to /bin/systemctl start cloudera-scm-server.service

[root@cdh-server01 cloudera-scm-server]# service cloudera-scm-server status

Redirecting to /bin/systemctl status cloudera-scm-server.service

● cloudera-scm-server.service - Cloudera CM Server Service

Loaded: loaded (/usr/lib/systemd/system/cloudera-scm-server.service; enabled; vendor preset: disabled)

Active: active (running) since Sat 2019-12-07 14:59:23 CST; 5s ago

Process: 5278 ExecStartPre=/opt/cloudera/cm/bin/cm-server-pre (code=exited, status=0/SUCCESS)

Main PID: 5281 (java)

CGroup: /system.slice/cloudera-scm-server.service

└─5281 /usr/java/jdk1.8.0\_45/bin/java -cp .:/usr/share/java/mysql-connector-java.jar:/usr/sh...

Dec 07 14:59:23 cdh-server01 cm-server[5281]: JAVA\_HOME=/usr/java/jdk1.8.0\_45

Dec 07 14:59:23 cdh-server01 cm-server[5281]: Java HotSpot(TM) 64-Bit Server VM warning: ignoring op...8.0

Dec 07 14:59:25 cdh-server01 cm-server[5281]: ERROR StatusLogger No log4j2 configuration file found....ng.

Dec 07 14:59:26 cdh-server01 cm-server[5281]: Sat Dec 07 14:59:26 CST 2019 WARN: Establishing SSL co...lic

Dec 07 14:59:26 cdh-server01 cm-server[5281]: Sat Dec 07 14:59:26 CST 2019 WARN: Establishing SSL co...lic

Dec 07 14:59:26 cdh-server01 cm-server[5281]: Sat Dec 07 14:59:26 CST 2019 WARN: Establishing SSL co...lic

Dec 07 14:59:26 cdh-server01 cm-server[5281]: Sat Dec 07 14:59:26 CST 2019 WARN: Establishing SSL co...lic

Dec 07 14:59:26 cdh-server01 cm-server[5281]: Sat Dec 07 14:59:26 CST 2019 WARN: Establishing SSL co...lic

Dec 07 14:59:29 cdh-server01 cm-server[5281]: 14:59:29.012 [main] ERROR org.hibernate.engine.jdbc.sp...ist

Dec 07 14:59:29 cdh-server01 cm-server[5281]: Sat Dec 07 14:59:29 CST 2019 WARN: Establishing SSL co...lic

Hint: Some lines were ellipsized, use -l to show in full.

[root@cdh-server01 cloudera-scm-server]#

# 此处启动一个新的主节点窗口，检查cloudera-scm-server服务启动日志

# 出现7180，则证明成功，否则检查log文件，寻找问题

# 网页打开192.168.1.31:7180,维持不动

[root@cdh-server01 ~]# cd /var/log/cloudera-scm-server/

[root@cdh-server01 cloudera-scm-server]# ll

total 0

[root@cdh-server01 cloudera-scm-server]# ll

total 28

-rw-r-----. 1 cloudera-scm cloudera-scm 28451 Dec 7 14:59 cloudera-scm-server.log

-rw-r-----. 1 cloudera-scm cloudera-scm 0 Dec 7 14:59 cmf-server-nio.log

-rw-r-----. 1 cloudera-scm cloudera-scm 0 Dec 7 14:59 cmf-server-perf.log

[root@cdh-server01 cloudera-scm-server]# tail -F cloudera-scm-server.log

2019-12-07 15:00:39,657 INFO WebServerImpl:org.eclipse.jetty.server.AbstractConnector: Started ServerConnector@16a3e60{HTTP/1.1,[http/1.1]}{0.0.0.0:7180}

2019-12-07 15:00:39,658 INFO WebServerImpl:org.eclipse.jetty.server.Server: Started @75687ms

2019-12-07 15:00:39,658 INFO WebServerImpl:com.cloudera.server.cmf.WebServerImpl: Started Jetty server.

2019-12-07 15:00:43,528 ERROR ParcelUpdateService:com.cloudera.parcel.components.ParcelDownloaderImpl: Failed to download manifest. Status code: 404 URI: https://archive.cloudera.com/sqoop-teradata-connector1/1.7.1c6/manifest.json/

[root@cdh-server01 cloudera-scm-server]#

[root@cdh-server01 cloudera-scm-server]# cd

[root@cdh-server01 CDH6.3.1]# cd CDH6.3.1/cm6.3.1/RPMS/x86\_64/

[root@cdh-server01 x86\_64]# rpm -ivh cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm --nodeps --force

warning: cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm: Header V3 RSA/SHA256 Signature, key ID b0b19c9f: NOKEY

Preparing... ################################# [100%]

Updating / installing...

1:cloudera-manager-agent-6.3.1-1466################################# [100%]

Created symlink from /etc/systemd/system/multi-user.target.wants/cloudera-scm-agent.service to /usr/lib/systemd/system/cloudera-scm-agent.service.

Created symlink from /etc/systemd/system/multi-user.target.wants/supervisord.service to /usr/lib/systemd/system/supervisord.service.

[root@cdh-server01 x86\_64]# vi /etc/cloudera-scm-agent/config.ini

# 修改

server\_host=cdh-server01

[root@cdh-server01 x86\_64]# scp cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm cdh-agent01:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm cdh-agent02:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm cdh-agent03:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm cdh-agent04:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm cdh-agent05:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm cdh-agent01:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm cdh-agent02:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm cdh-agent03:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm cdh-agent04:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]# scp cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm cdh-agent05:/root/CDH6.3.1/

[root@cdh-server01 x86\_64]#

## 5.2 次节点

[root@cdh-agent01 java]# cd /root/CDH6.3.1/

You have new mail in /var/spool/mail/root

[root@cdh-agent01 CDH6.3.1]# ll

total 1355072

-rw-r--r--. 1 root root 10483568 Dec 7 15:20 cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm

-rw-r--r--. 1 root root 1203832464 Dec 7 15:22 cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm

-rw-r--r--. 1 root root 173271626 Dec 5 23:01 jdk-8u45-linux-x64.gz

[root@cdh-agent01 CDH6.3.1]# rpm -ivh cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm --nodeps --force

warning: cloudera-manager-daemons-6.3.1-1466458.el7.x86\_64.rpm: Header V3 RSA/SHA256 Signature, key ID b0b19c9f: NOKEY

Preparing... ################################# [100%]

Updating / installing...

1:cloudera-manager-daemons-6.3.1-14################################# [100%]

[root@cdh-agent01 CDH6.3.1]# rpm -ivh cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm --nodeps --forcewarning: cloudera-manager-agent-6.3.1-1466458.el7.x86\_64.rpm: Header V3 RSA/SHA256 Signature, key ID b0b19c9f: NOKEY

Preparing... ################################# [100%]

Updating / installing...

1:cloudera-manager-agent-6.3.1-1466################################# [100%]

Created symlink from /etc/systemd/system/multi-user.target.wants/cloudera-scm-agent.service to /usr/lib/systemd/system/cloudera-scm-agent.service.

Created symlink from /etc/systemd/system/multi-user.target.wants/supervisord.service to /usr/lib/systemd/system/supervisord.service.

[root@cdh-agent01 CDH6.3.1]# vi /etc/cloudera-scm-agent/config.ini

# 修改

server\_host=cdh-server01

## 5.3 启动agent服务(主、次节点)

[root@cdh-server01 x86\_64]# service cloudera-scm-agent start

Redirecting to /bin/systemctl start cloudera-scm-agent.service

[root@cdh-agent01 CDH6.3.1]# service cloudera-scm-agent status

Redirecting to /bin/systemctl status cloudera-scm-agent.service

● cloudera-scm-agent.service - Cloudera Manager Agent Service

Loaded: loaded (/usr/lib/systemd/system/cloudera-scm-agent.service; enabled; vendor preset: disabled)

Active: active (running) since Sat 2019-12-07 15:42:30 CST; 1min 5s ago

Main PID: 3299 (cmagent)

CGroup: /system.slice/cloudera-scm-agent.service

└─3299 /usr/bin/python2 /opt/cloudera/cm-agent/bin/cm agent

Dec 07 15:42:32 cdh-agent01 cm[3299]: [07/Dec/2019 15:42:32 +0000] 3299 MainThread agent INF...lood

Dec 07 15:42:32 cdh-agent01 cm[3299]: [07/Dec/2019 15:42:32 +0000] 3299 MainThread agent INF...lude

Dec 07 15:42:32 cdh-agent01 cm[3299]: [07/Dec/2019 15:42:32 +0000] 3299 MainThread agent INF...oups

Dec 07 15:42:32 cdh-agent01 cm[3299]: [07/Dec/2019 15:42:32 +0000] 3299 MainThread agent INF...cess

Dec 07 15:42:32 cdh-agent01 cm[3299]: [07/Dec/2019 15:42:32 +0000] 3299 MainThread tmpfs INF...cess

Dec 07 15:42:32 cdh-agent01 cm[3299]: [07/Dec/2019 15:42:32 +0000] 3299 MainThread logging INF....log

Dec 07 15:42:38 cdh-agent01 cm[3299]: status\_server: added process group

Dec 07 15:42:38 cdh-agent01 cm[3299]: flood: added process group

Dec 07 15:42:38 cdh-agent01 cm[3299]: /opt/cloudera/cm-agent/lib/python2.7/site-packages/psutil/\_ps...to 0

Dec 07 15:42:38 cdh-agent01 cm[3299]: warnings.warn(msg, RuntimeWarning)

Hint: Some lines were ellipsized, use -l to show in full.

[root@cdh-agent01 CDH6.3.1]#yum install -y perl

...

perl-Time-Local.noarch 0:1.2300-2.el7 perl-constant.noarch 0:1.27-2.el7

perl-libs.x86\_64 4:5.16.3-294.el7\_6 perl-macros.x86\_64 4:5.16.3-294.el7\_6

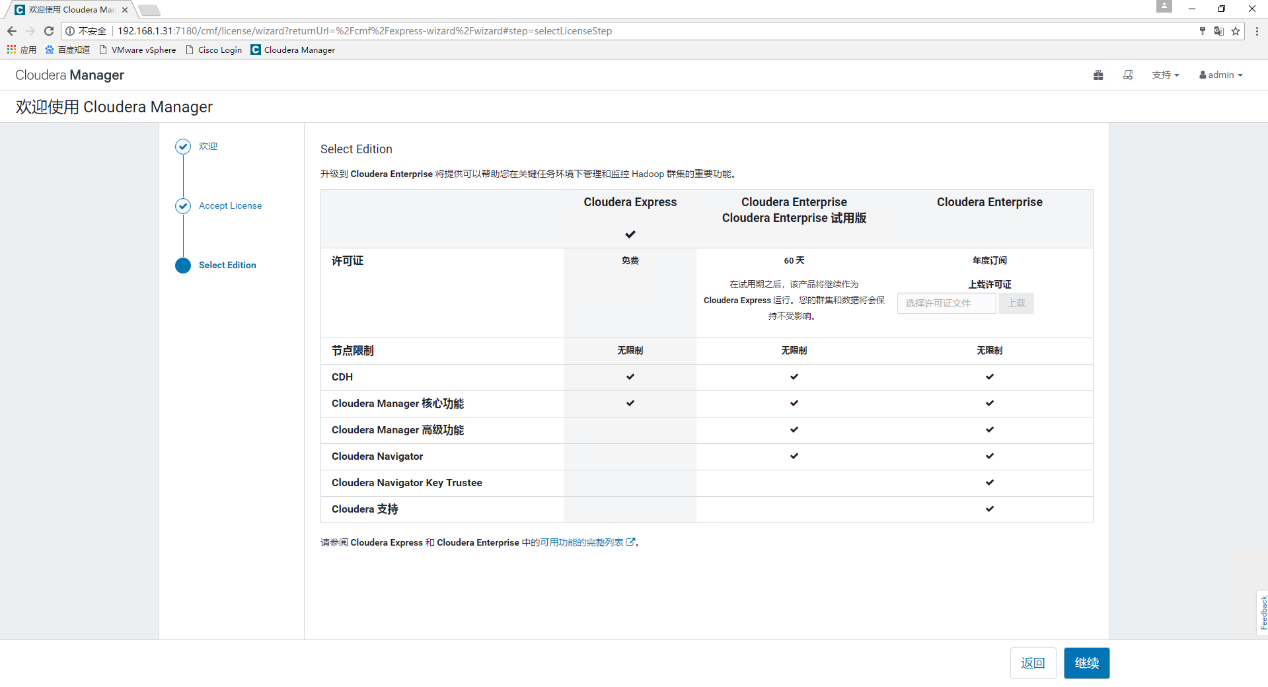
perl-parent.noarch 1:0.225-244.el7 perl-podlators.noarch 0:2.5.1-3.el7

perl-threads.x86\_64 0:1.87-4.el7 perl-threads-shared.x86\_64 0:1.43-6.el7

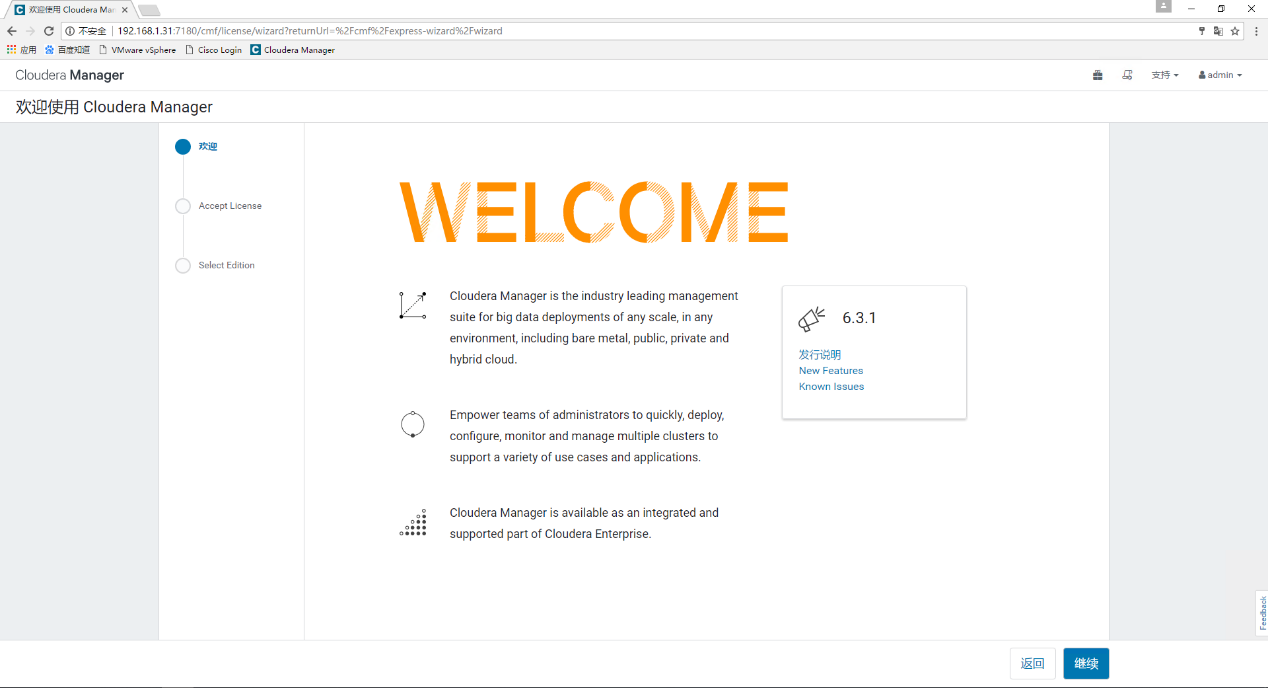
Complete!

## 5.4 web页面配置信息

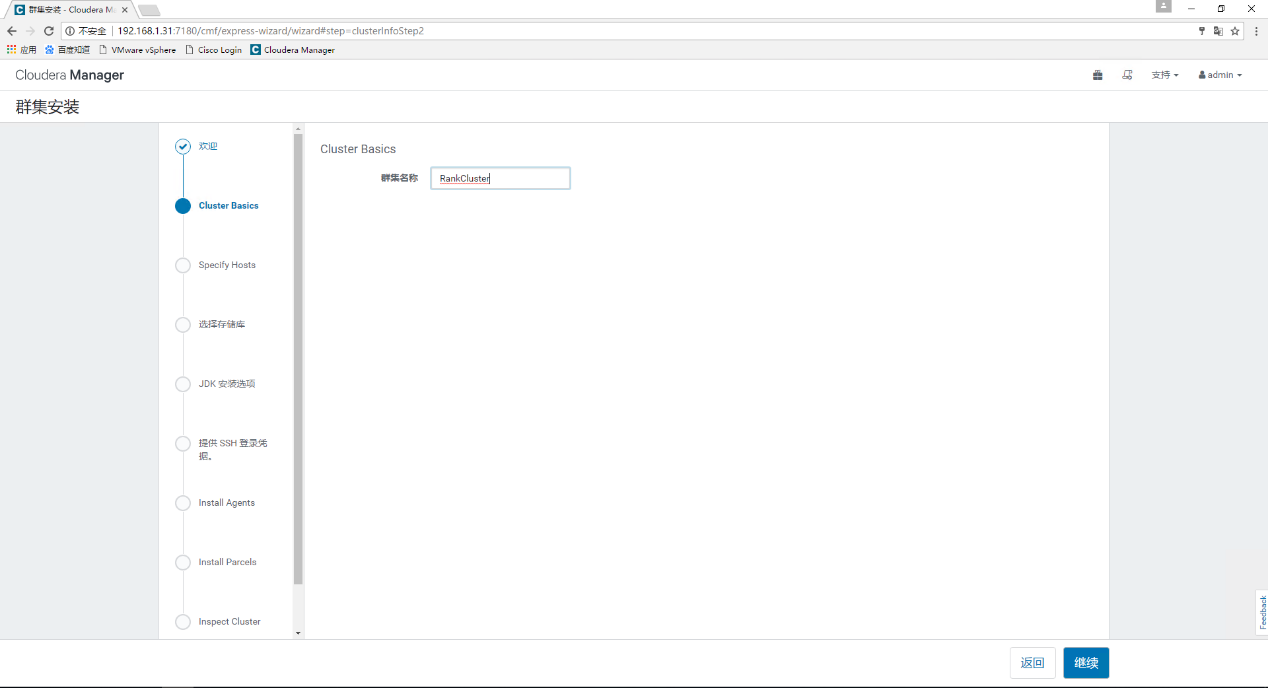
step 1. 网页打开192.168.1.31:7180，登录(admin/admin)



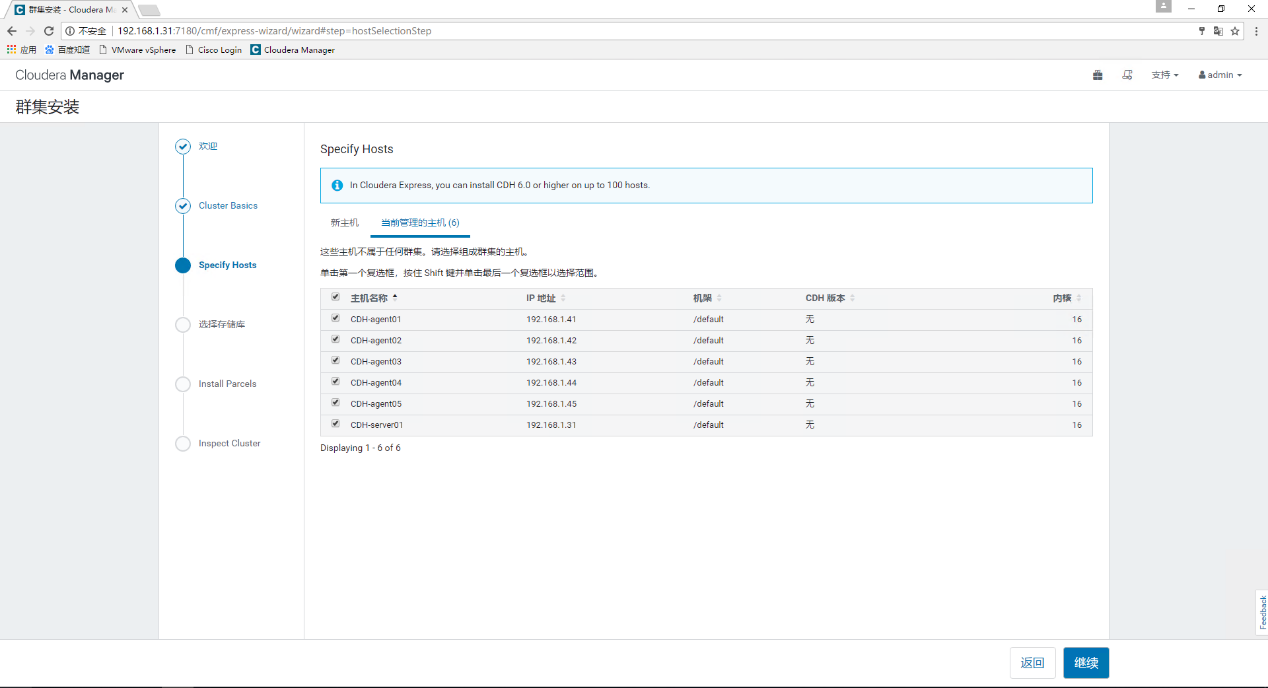
step 2. CM版本选择，选择免费版本



step 3. 集群名称，此处根据实际命名



step 4. 指定主机



step 5. 准备parcel(主)

[root@cdh-server01 x86\_64]# cd

[root@cdh-server01 ~]# cd CDH6.3.1/

[root@cdh-server01 CDH6.3.1]# yum install -y httpd

Loaded plugins: fastestmirror

......

Dependency Installed:

apr.x86\_64 0:1.4.8-5.el7 apr-util.x86\_64 0:1.5.2-6.el7 httpd-tools.x86\_64 0:2.4.6-90.el7.centos

mailcap.noarch 0:2.1.41-2.el7

Complete!

[root@cdh-server01 CDH6.3.1]# ll

total 4118988

-rw-r--r--. 1 root root 2083878000 Dec 5 22:05 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel

-rw-r--r--. 1 root root 40 Dec 5 22:06 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel.sha1

drwxrwxr-x. 5 2001 2001 75 Sep 25 16:51 cm6.3.1

-rw-r--r--. 1 root root 1411444147 Dec 5 22:06 cm6.3.1-redhat7.tar.gz

-rw-r--r--. 1 root root 173271626 Dec 5 22:07 jdk-8u45-linux-x64.gz

-rw-r--r--. 1 root root 33887 Dec 5 22:07 manifest.json

-rw-r--r--. 1 root root 548193637 Dec 5 22:07 mysql-5.7.11-linux-glibc2.5-x86\_64.tar.gz

-rw-r--r--. 1 root root 1007502 Dec 5 22:07 mysql-connector-java-5.1.47.jar

[root@cdh-server01 CDH6.3.1]# mkdir /var/www/html/cdh6\_parcel

[root@cdh-server01 CDH6.3.1]# mv CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel /var/www/html/cdh6\_parcel

[root@cdh-server01 CDH6.3.1]# mv CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel.sha1 /var/www/html/cdh6\_parcel/CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel.sha

[root@cdh-server01 CDH6.3.1]# mv manifest.json /var/www/html/cdh6\_parcel

[root@cdh-server01 CDH6.3.1]# ll /var/www/html/cdh6\_parcel

total 2035080

-rw-r--r--. 1 root root 2083878000 Dec 5 22:05 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel

-rw-r--r--. 1 root root 40 Dec 5 22:06 CDH-6.3.1-1.cdh6.3.1.p0.1470567-el7.parcel.sha

-rw-r--r--. 1 root root 33887 Dec 5 22:07 manifest.json

[root@cdh-server01 CDH6.3.1]# service httpd start

Redirecting to /bin/systemctl start httpd.service

[root@cdh-server01 html]# scp -r cdh6\_parcel/ cdh6

[root@cdh-server01 html]# ll

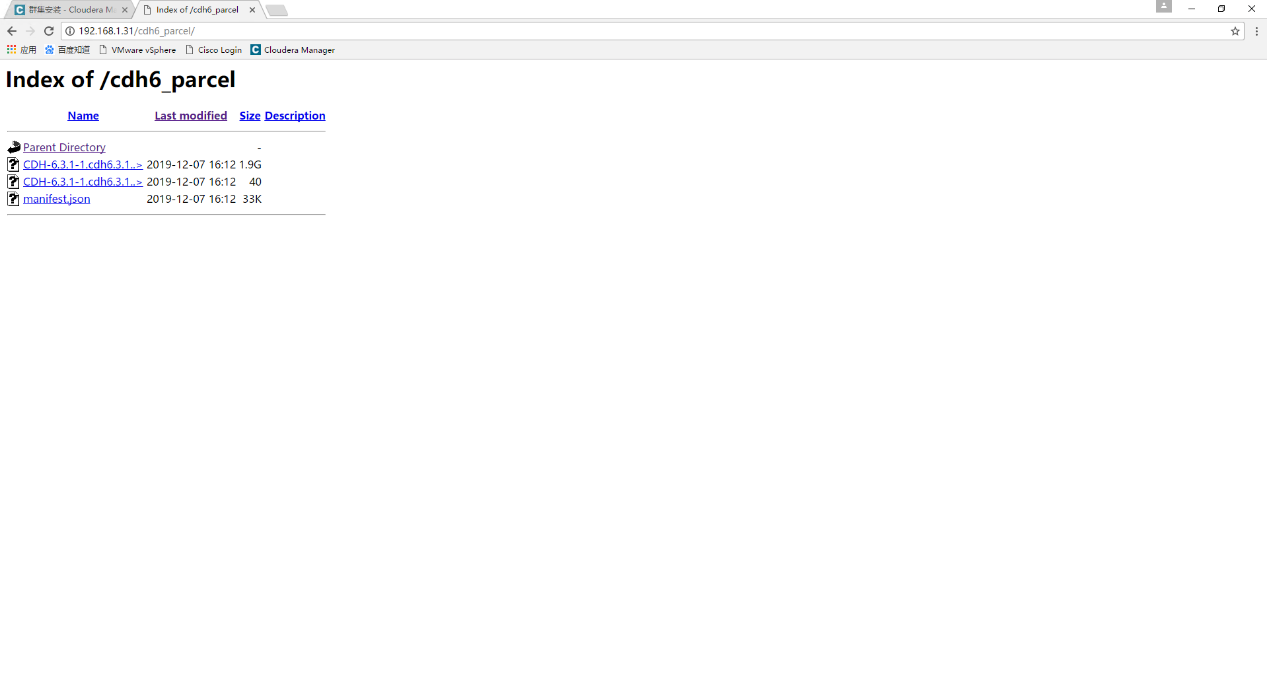
total 0

drwxr-xr-x. 2 root root 131 Dec 7 16:08 cdh6

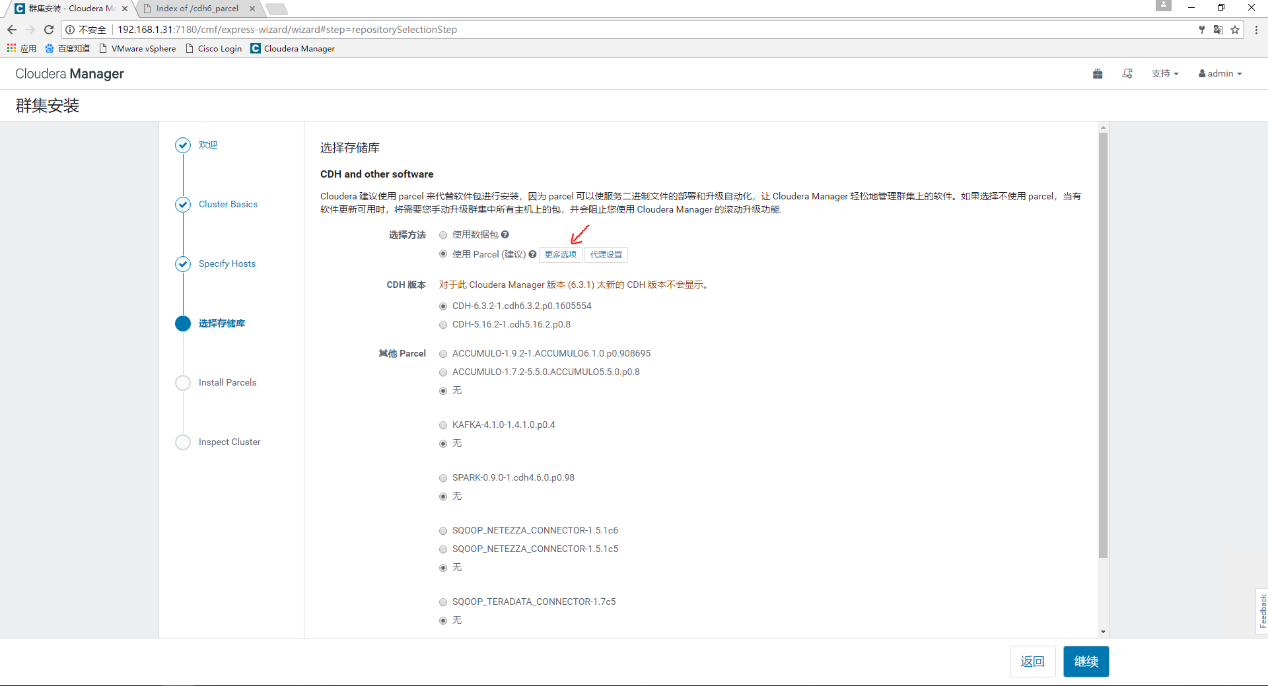
drwxr-xr-x. 2 root root 131 Dec 7 16:12 cdh6\_parcel

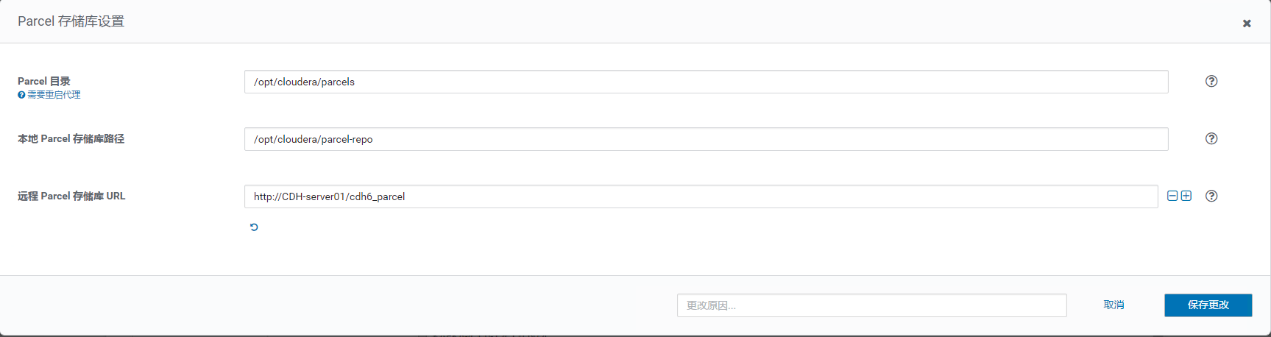
[root@cdh-server01 html]#

web打开192.168.1.31/cdh6\_parcel/，验证httpd启动结果

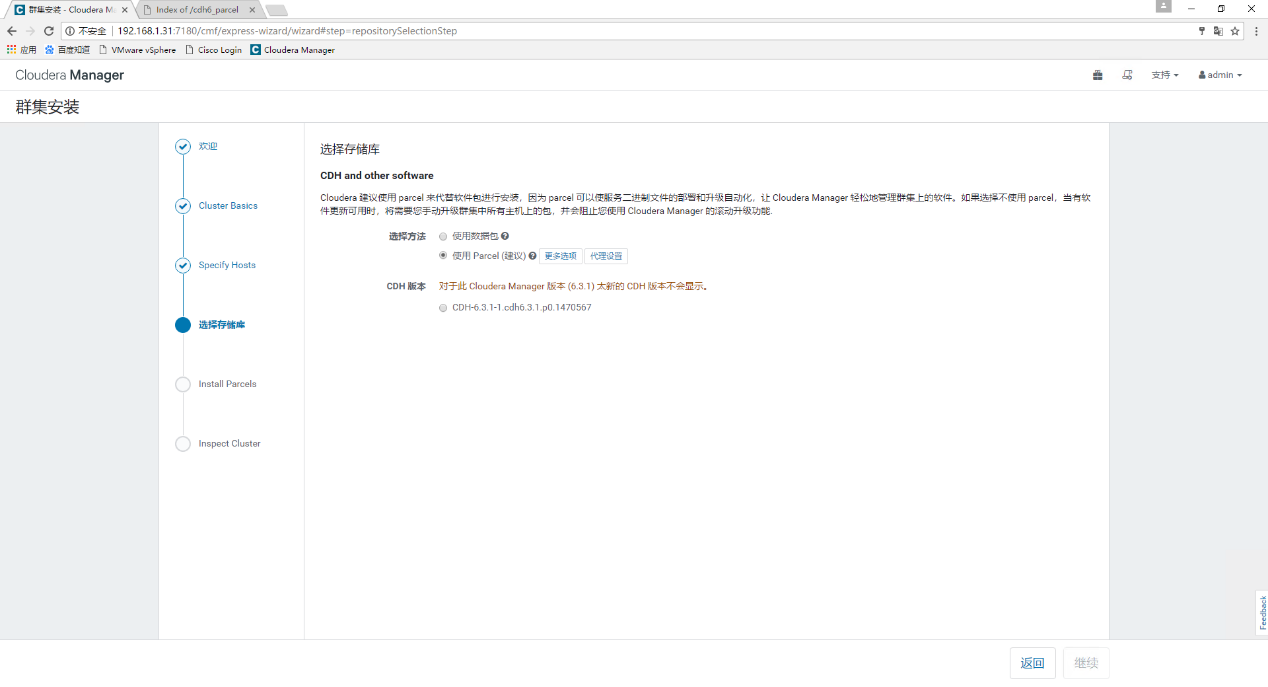


step 5. 选择存储库

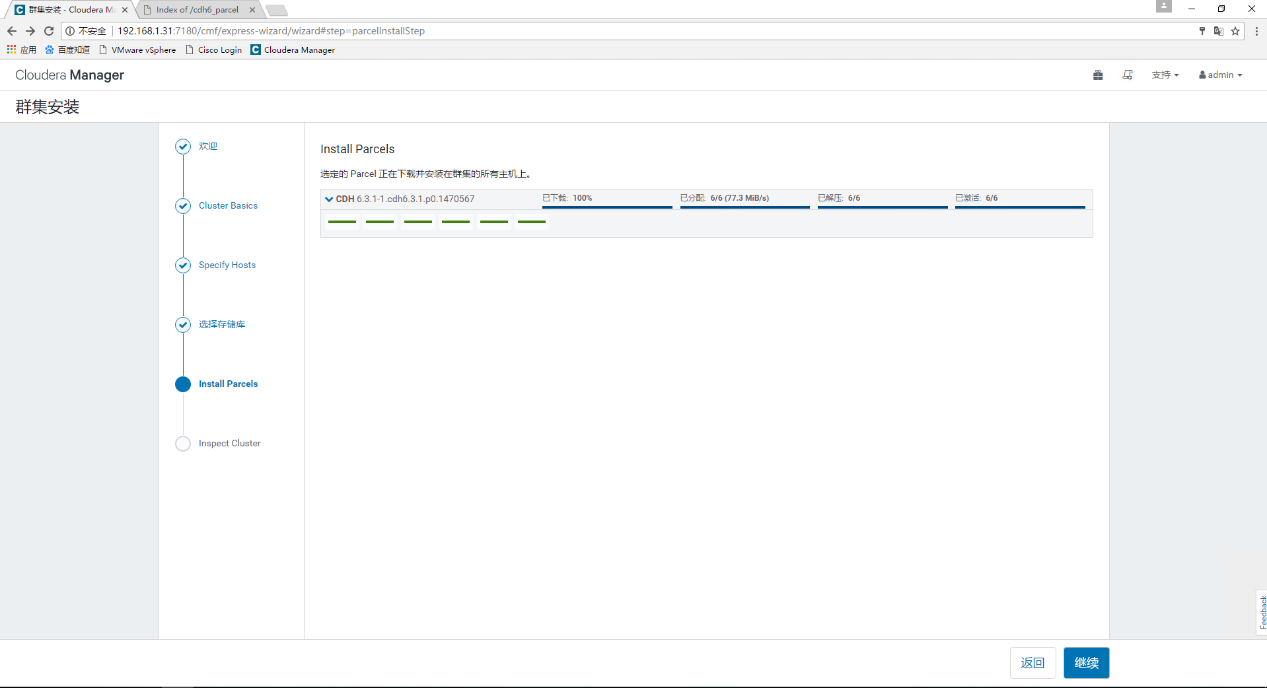


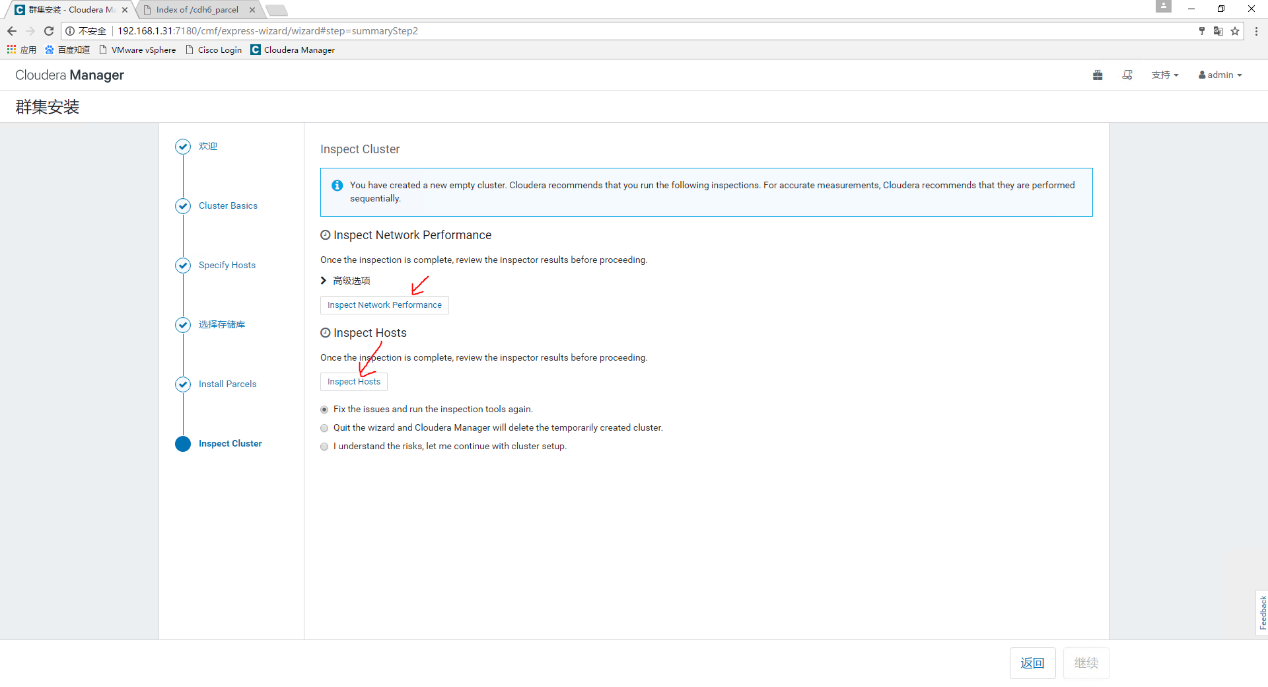


step 6. 自动刷新页面，显示CDH



step 7. 安装Parcels



step 8. 检查群集  


修复出现的问题

1. 修复透明大页面(主、次)

echo never > /sys/kernel/mm/transparent\_hugepage/defrag

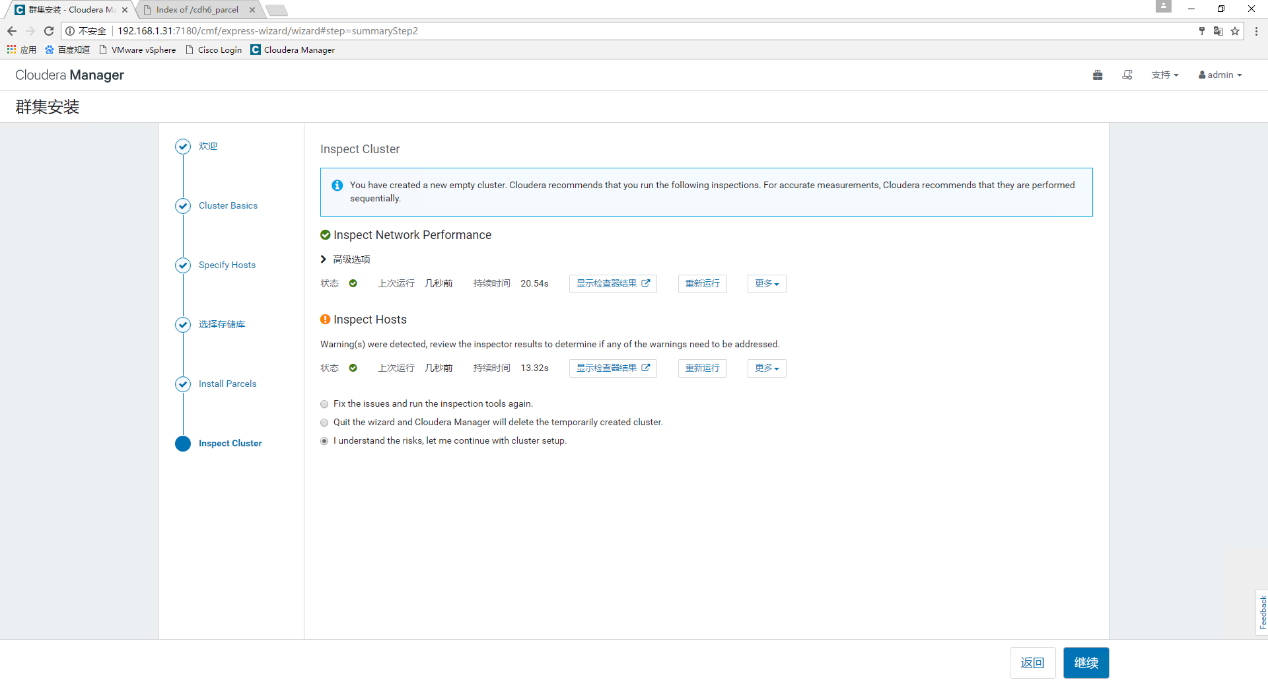
echo never > /sys/kernel/mm/transparent\_hugepage/enabled

swappiness 设置(主、次)

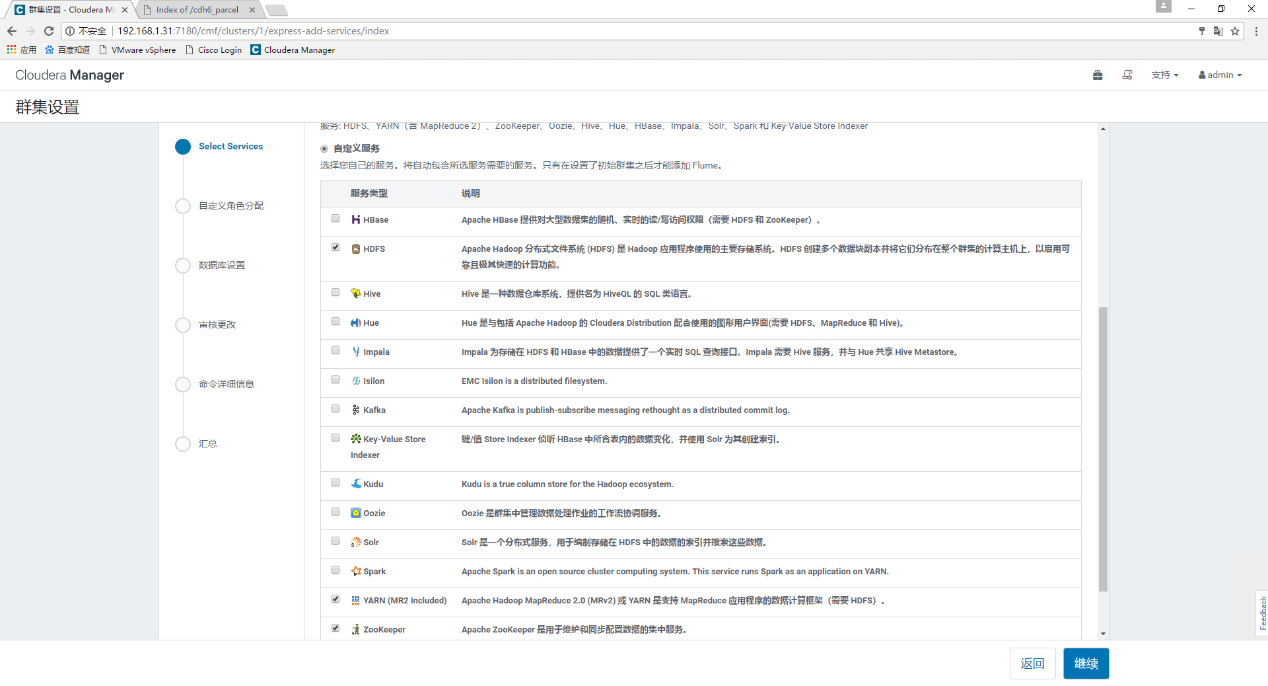
sysctl vm.swappiness=10

echo 'vm.swappiness=10'>> /etc/sysctl.conf

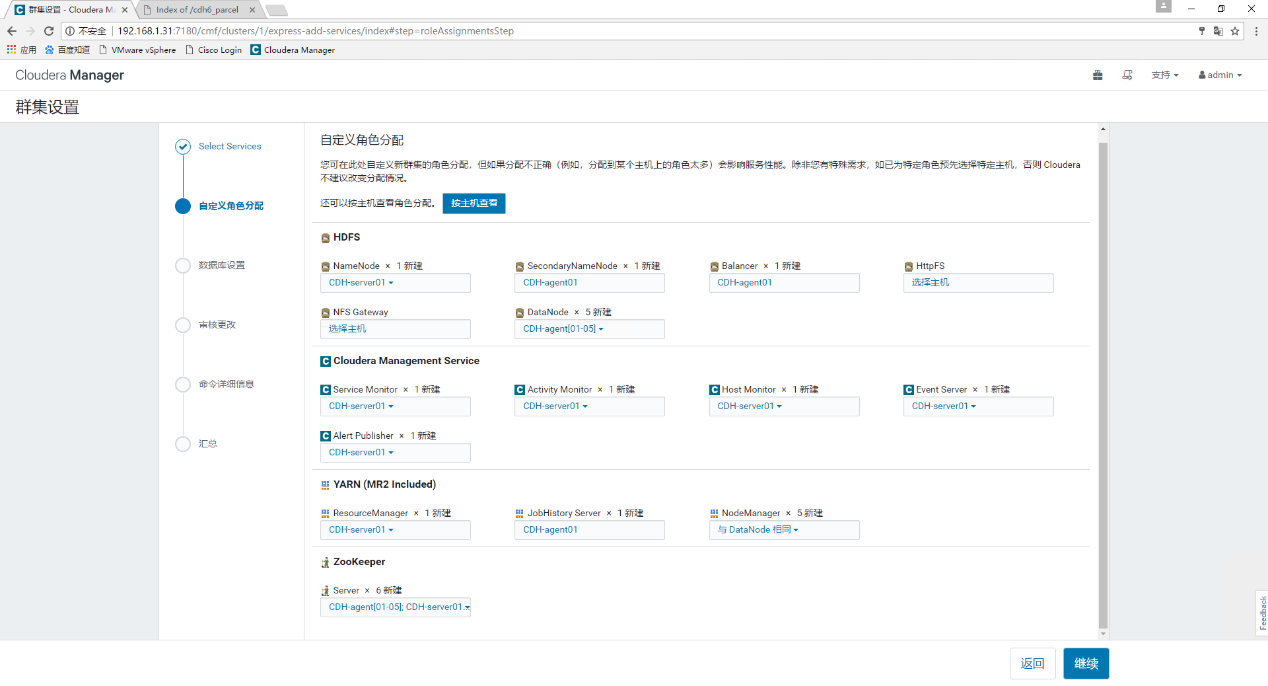
1. 修复Psycopg2版本较低(忽略)



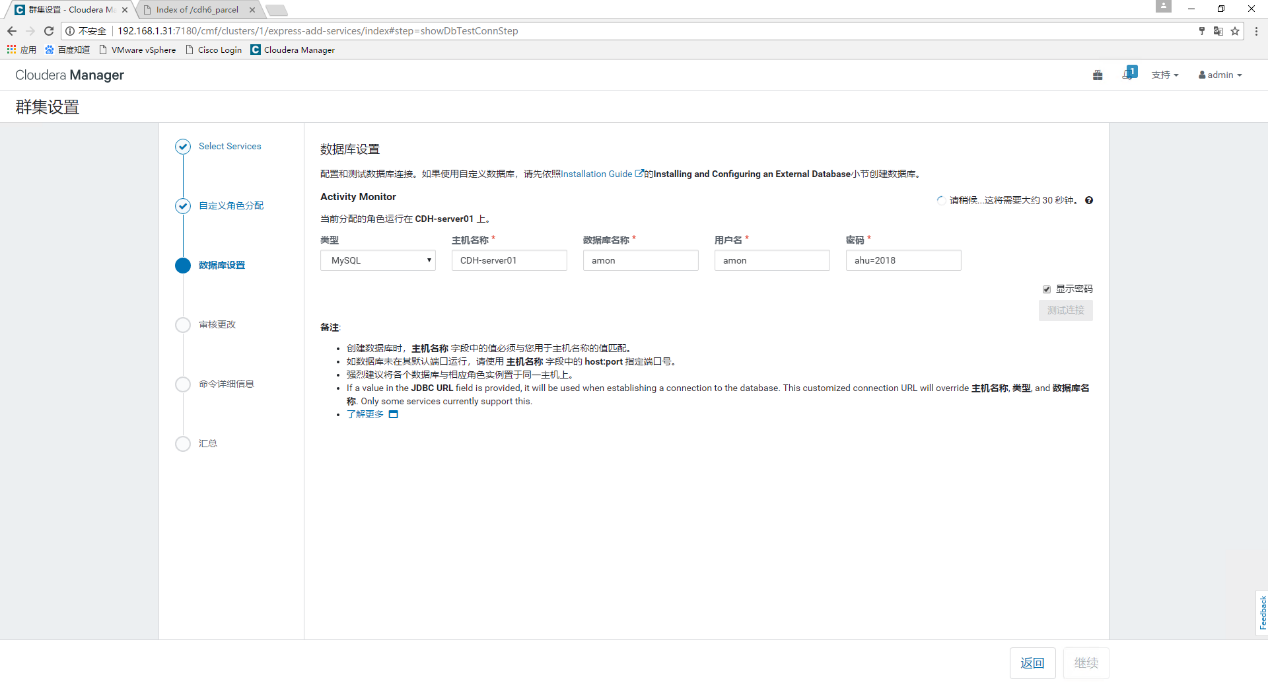
step 9. 服务选择

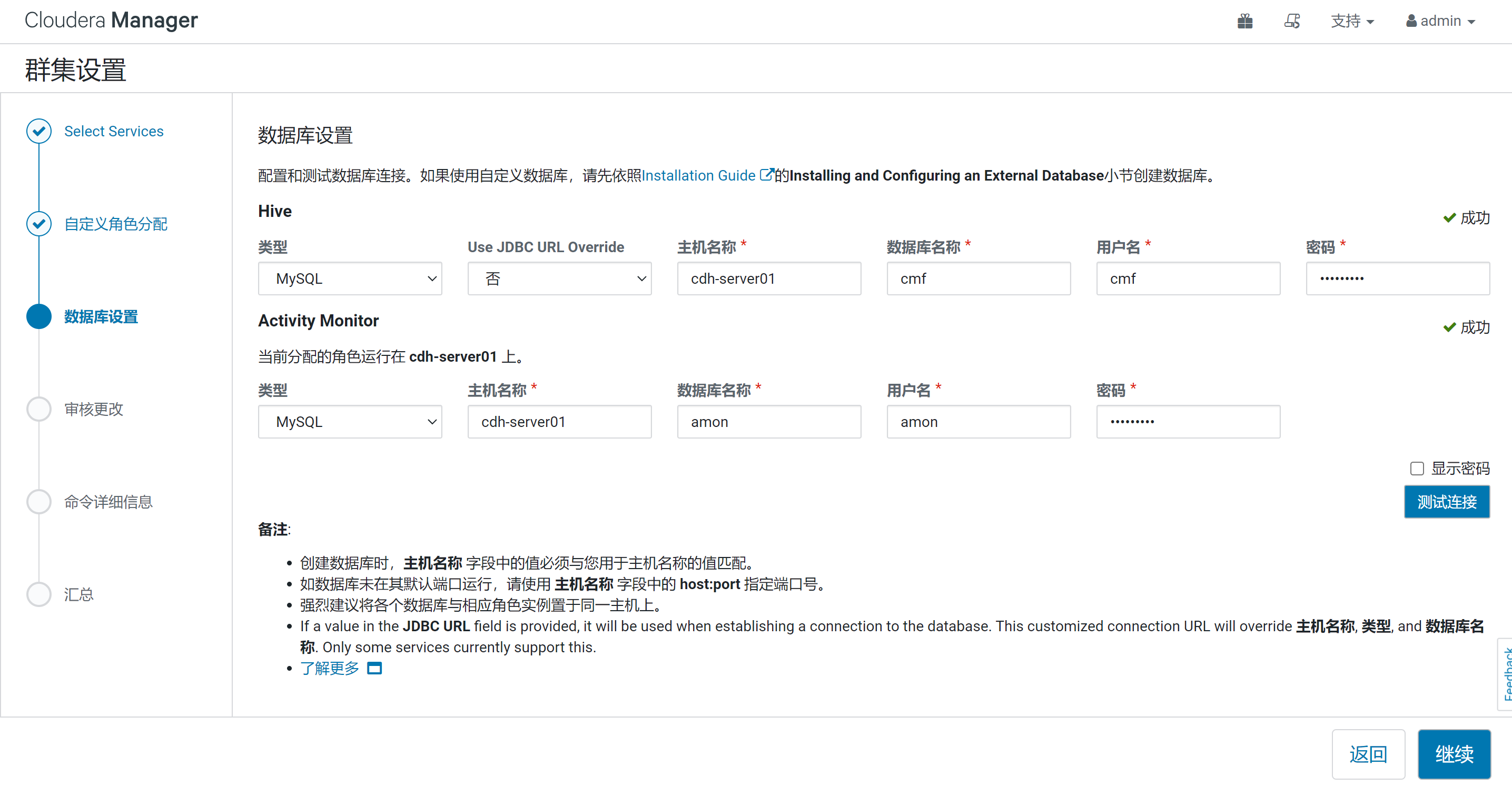


step 10. 角色分配(Zookeeper必须为奇数)

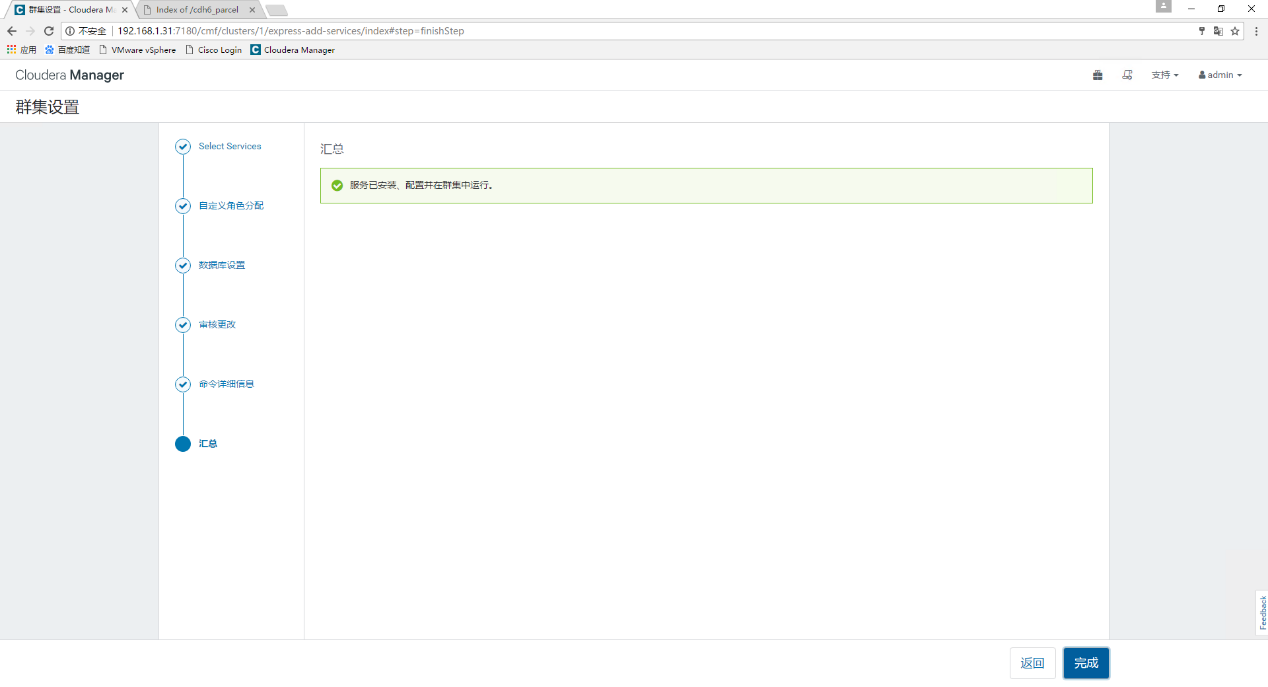


step 11. 数据库设置，测试连接

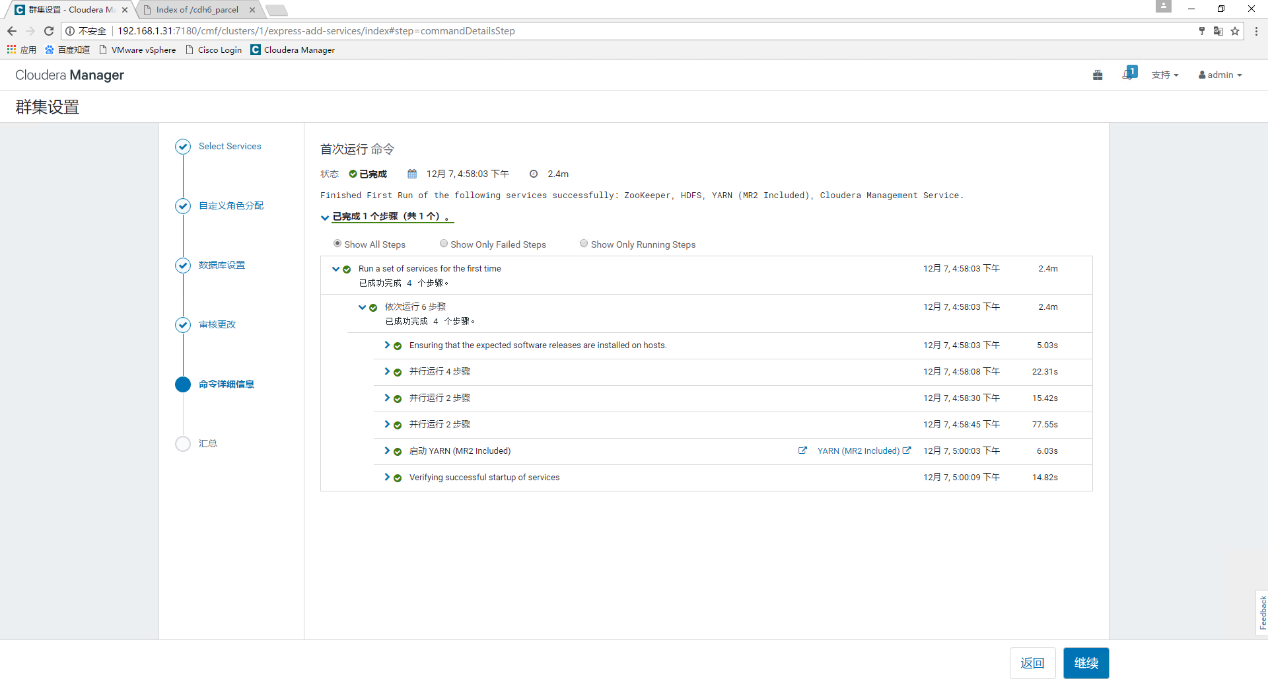




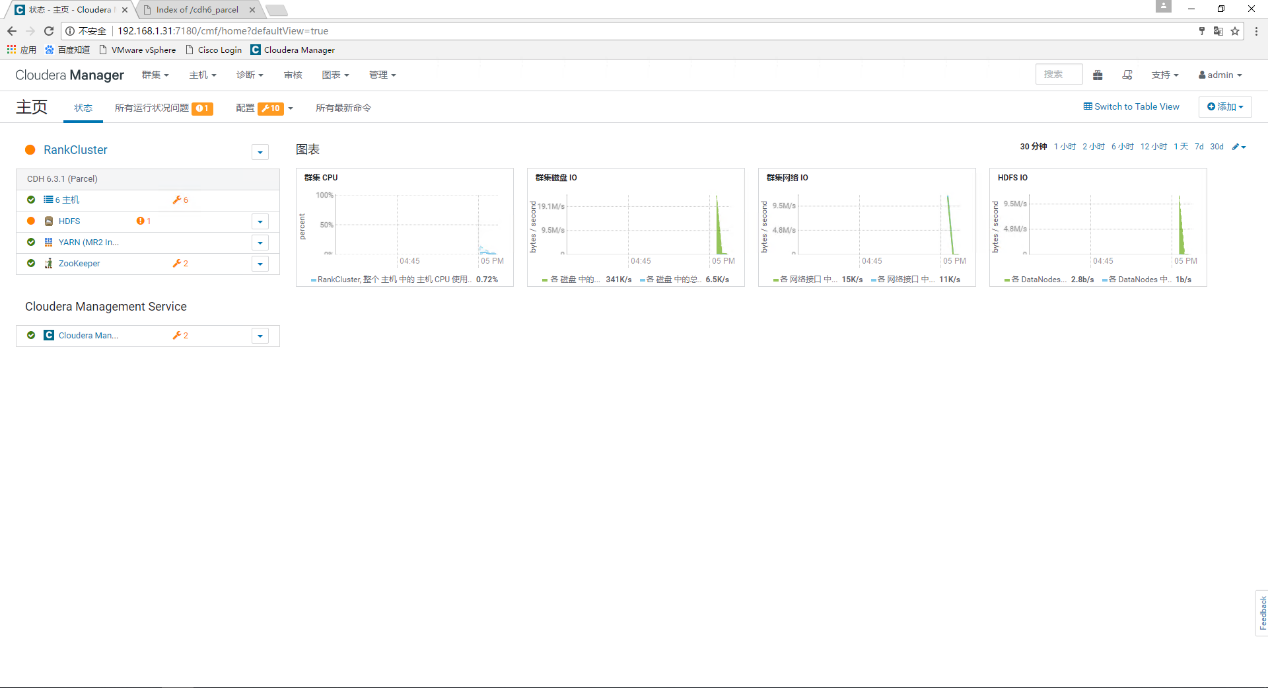
step 12. 首次运行命令详细信息



step 13. 汇总

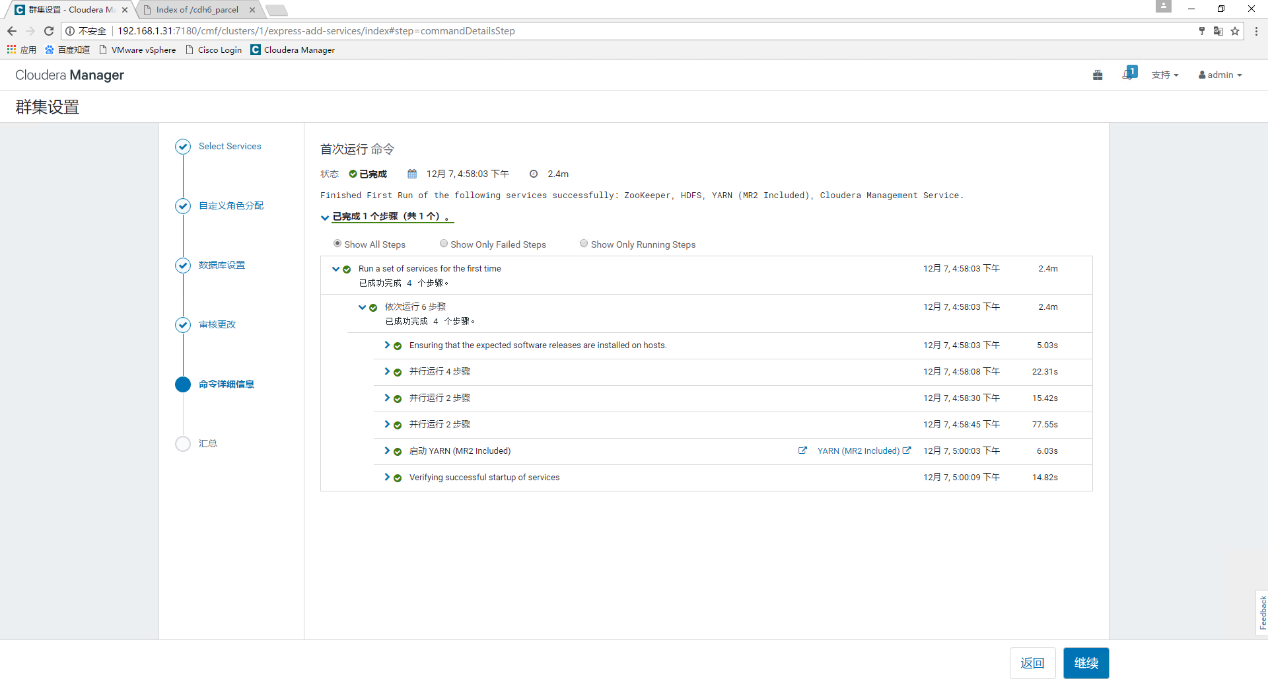


5.5 问题修复



1. CM service 黄色报错

解决办法:Suppress或根据需要修改Java内存大小，这里进行了修改



1. Zookeeper 黄色报错

解决方案:角色选择时，Zookeeper选择奇数个节点

1. HDFS 黄色报错

解决办法:Suppress

1. 主机 黄色报错

解决办法:主机名不要有大写字