IUNI大数据分析平台部署方案

V1.0.0

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## 一．准备工作

1. 安装JDK；
2. 关闭SELINUX,IPTALES；
3. 关闭SWAP；
4. 准备本地YUM源如下：

[cloudera-manager]

name = Cloudera Manager, Version 5.0.0

baseurl = http://18.8.0.245/cloudera/

gpgcheck = 0

1. 配置网络，关闭IPV6，修改机器名；
2. 设置SSH，将所有机器的root密码设置为相同的，或者添加一个具有免密码sudo权限的用户，并设置相同的密码；
3. 安装NTP SERVER以同步时间，或设置NTP到计划任务同步时间；
4. 在管理节点上安装mysql server，其他节点上安装mysql connector；
   1. 修改数据库配置文件：

[mysqld]

transaction-isolation=READ-COMMITTED

# Disabling symbolic-links is recommended to prevent assorted security risks;

# # to do so, uncomment this line:

# # symbolic-links=0

key\_buffer = 16M

key\_buffer\_size = 32M

max\_allowed\_packet = 32M

thread\_stack = 256K

thread\_cache\_size = 64

query\_cache\_limit = 8M

query\_cache\_size = 64M

query\_cache\_type = 1

max\_connections = 550

# log-bin should be on a disk with enough free space

# NOTE: replace '/x/home/mysql/logs/binary' below with

# an appropriate path for your system.

log-bin= /var/lib/mysql/mysql-bin.log

# For MySQL version 5.1.8 or later. Comment out binlog\_format for older versions.

binlog\_format = mixed

read\_buffer\_size = 2M

read\_rnd\_buffer\_size = 16M

sort\_buffer\_size = 8M

join\_buffer\_size = 8M

# InnoDB settings

innodb\_file\_per\_table = 1

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

innodb\_log\_buffer\_size = 64M

innodb\_buffer\_pool\_size = 4G

innodb\_thread\_concurrency = 8

innodb\_flush\_method = O\_DIRECT

innodb\_log\_file\_size = 512M

[mysqld\_safe]

log-error=/var/log/mysqld.log

pid-file=/var/run/mysqld/mysqld.pid

* 1. 创建用户及数据库：

create database amon DEFAULT CHARACTER SET utf8;

create database rman DEFAULT CHARACTER SET utf8;

create database nav DEFAULT CHARACTER SET utf8;

create database hive DEFAULT CHARACTER SET utf8;

grant all on amon.\* TO ' amon '@'%' IDENTIFIED BY ' amon ';

grant all on rman.\* TO ' rman '@'%' IDENTIFIED BY ' rman ';

grant all on nav.\* TO ' nav '@'%' IDENTIFIED BY ' nav ';

grant all on hive.\* TO ' hive '@'%' IDENTIFIED BY ' hive ';

1. 检查FUSE和Python是否安装；
2. 创建用户：flume，hadoop，hbase，hdfs，hive，httpfs，hue，impala，llama，mapred，oozie，solr，spark，sqoop，sqoop2，yarn，zookeeper，并将hdfs，mapred加入hadoop组，impala加入hdfs,hive组，sqoop2加入sqoop组；

## 二．安装 Cloudera manager

执行cloudera-manager-installer.bin安装cloudera manager。

## 三．安装hadoop生态圈各服务

打开浏览器输入<http://IP：7180/>登陆cloudera manager按照向导部署hadoop生态圈各服务。