# 基础环境配置

exam1:10.0.0.1 exam2:10.0.0.2 exam1:ftp

## 配置主机名(exam1,exam2)

#hostnamectl set-hostname exam1

#hostnamectl set-hostname exam2 (exam2主机)

#vi /etc/hosts

20.0.0.40 exam1

20.0.0.41 exam2

selinux为disabled关闭防火墙

配置yum

rm -rf /etc/yum.repos.d/\*

vi /etc/yum.repos.d/local.repo

[centos7]

name=centos7

baseurl=ftp://172.24.2.11/centos7/

enabled=1

gpgcheck=0

[ambari]

name=ambari

baseurl=ftp://172.24.2.11/bigdata/ambari-2.6.0.0/

enabled=1

gpgcheck=0

## jdk的安装(exam1,exam2)

rpm -ich jdk-7u67-linux-x64.rpm

## 配置ssh(exam1,exam2)

# yum install openssh-clients

# ssh-keygen

# ssh-copy-id exam1

# ssh-copy-id exam2

## 优化(exam1,exam2)

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

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

## 安装配置ntp

### exam1

#yum install ntp -y

注释或者删除以下四行

server 0.centos.pool.ntp.org iburst

server 1.centos.pool.ntp.org iburst

server 2.centos.pool.ntp.org iburst

server 3.centos.pool.ntp.org iburst

添加以下两行

server 127.127.1.0

fudge 127.127.1.0 stratum 10

systemctl start ntpd

systemctl enable ntpd

### exam2

#yum -y install ntpdate -y

#ntpdate exam1

#systemctl enable ntpdate

# mysql数据库

## 安装mysql(exam1)

#yum install mariadb mariadb-server mysql-connector-java -y

## 基础配置mysql(exam1)

# vi /etc/my.cnf

[mysqld]

default-storage-engine = innodb

innodb\_file\_per\_table

collation-server = utf8\_general\_ci

init-connect = 'SET NAMES utf8'

character-set-server = utf8

max\_connections=10000

max\_allowed\_packet = 4M

## 启动设置mysql密码(exam1)

#systemctl enable mariadb

#systemctl start mariadb

mysqladmin -uroot password 'xiandian@55.gm'

# HDFS 部署

## 安装ambari创建数据库(exam1)

#yum -y install ambari-server

#mysql -uroot -pxiandian@55.gm

create database ambari;

grant all privileges on ambari.\* to 'ambari'@'localhost' identified by 'xiandian@55.gm';

grant all privileges on ambari.\* to 'ambari'@'20.0.0.49' identified by 'xiandian@55.gm';

use ambari;

source /var/lib/ambari-server/resources/Ambari-DDL-MySQL-CREATE.sql

#systemctl restart mariadb

## 配置ambari-server(exam1)

# ambari-server setup

Customize user account for ambari-server daemon [y/n] (n)? y

Enter user account for ambari-server daemon (root):

[3] Custom JDK

==============================================================================

Enter choice (1): 3

Path to JAVA\_HOME: /usr/java/jdk1.7.0\_67

Enter advanced database configuration [y/n] (n)? y

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Choose one of the following options:

[3] - MySQL / MariaDB

==============================================================================

Enter choice (1): 3

Hostname (localhost): 20.0.0.49

Port (3306):

Database name (ambari):

Username (ambari):

Enter Database Password (bigdata): xiandian@55.gm

Proceed with configuring remote database connection properties [y/n] (y)? y

#ambari-server setup --jdbc-db=mysql --jdbc-driver=/usr/share/java/mysql-connector-java.jar

## 修改ambari登入端口号(exam1)

vi /etc/ambari-server/conf/ambari.properties (添加)

client.api.port=8888

## 运行ambari(exam1)

ambari-server start

## 搭建http yum服务(exam1)

yum install -y httpd

cp -rf /opt/bigdata/HDP-2.6.1.0 /var/www/html/

cp -rf /opt/bigdata/HDP-UTILS-1.1.0.21 /var/www/html/

## 部署ambari客户端(exam1,exam2)

#yum -y install ambari-agent

#vi /etc/ambari-agent/conf/ambari-agent.ini

[server]

hostname=exam1

#ambari-agent start

## 页面部署HDFS











## 给予HDFS读写权限(exam1)

hadoop fs -ls /

su hdfs

hadoop fs -chmod -R 777 /

hadoop fs -ls /

exit

# 部署apache

## 安装unzip(exam1)

yum install -y unzip

## 解压exam包(exam1)

#cd /opt/

#unzip exam.zip

#unzip apache-tomcat-7.0.56.zip

#rm -rf /opt/apache-tomcat-7.0.56/webapps/\*

#mv /opt/exam /opt/apache-tomcat-7.0.56/webapps/

## 修改连接数和优化(exam1)

# vi /opt/apache-tomcat-7.0.56/conf/server.xml (8081 修改80)

<Engine name="Catalina" defaultHost="localhost" jvmRoute="worker1">

<Connector port="8081" protocol="HTTP/1.1"

URIEncoding="utf-8"

maxThreads="400"

minSpareThreads="25"

maxSpareThreads="75"

acceptCount="300"

#vi /opt/apache-tomcat-7.0.56/bin/catalina.sh

JAVA\_OPTS="-server -Xms1024m -Xmx2048m -XX:PermSize=256M -XX:MaxPermSize=256m"

# exam的配置

## 创建exam数据库(exam1)

#mysql -uroot -pxiandian@55.gm

create database classexam;

use classexam

source /opt/classexam.sql;

## 配置exam数据库连接(exam1)

# vi /opt/apache-tomcat-7.0.56/webapps/exam/WEB-INF/classes/jdbc.properties

database.url=jdbc:mysql://127.0.0.1:3306/classexam?autoReconnect=true&useUnicode=true&characterEncoding=UTF-8&zeroDateTimeBehavior=convertToNull

database.username=root

database.password=xiandian@55.gm

## 安装启动memcached(exam1, exam2)

#yum -y install memcached

#systemctl start memcached

#chkconfig --level 2345 memcached on

## url地址的修改(exam1)

#vi /opt/apache-tomcat-7.0.56/webapps/exam/WEB-INF/classes/xd.properties

#user center

ucurl=http\://172.24.13.152/base

#cas

sso=false

ssoserver=http\://127.0.0.1/cas/

ssoclient=http\://127.0.0.1/exam/

#hadoop的存储配置

hdfs=hdfs://172.24.13.152:8020

#实现图片预览/下载的HTTP地址，地址最后不能含有“/”

hdfs\_img\_prefix=http://172.24.13.152:50075/webhdfs/v1

hdfs\_img\_suffix=?op=OPEN&namenoderpcaddress=172.24.13.152:8020

## 启动apache(exam1)

cd /opt/apache-tomcat-7.0.56/bin/

chmod +x \*.sh

./startup.sh

## 页面访问

http://172.24.13.152/exam/` 考试系统

http://172.24.13.152/exam/user/userpwd 个人中心