

一、安装环境

- 1.操作系统: CentOS Linux release 7.5.1804
- 2.软件版本:
zookeeper:zookeeper-3.4.14
solr:solr-7.7.3
tomcat:apache-tomcat-8.5.58

host	solr	zookeeper	tomcat
xmj(192.168.238.170)	√		√
xmjmaster(192.168.238.160)	√	√	√
xmjslave1(192.168.238.161)	√	√	√
xmjslave2(192.168.238.162)	√	√	√

二、安装配置

1.zookeeper安装配置

1) 解压缩
tar -zxf zookeeper-3.4.14.tar.gz -C /usr/local

2) 配置文件
cd /usr/local/zookeeper-3.4.14/conf
cp zoo_sample.cfg zoo.cfg
vim zoo.cfg

#设置dataDir和dataLogDir
dataDir=/usr/local/zookeeper-3.4.14/data
dataLogDir=/usr/local/zookeeper-3.4.14/data/logs

#添加集群配置
server.1=192.168.238.160:2881:3881
server.2=192.168.238.161:2881:3881
server.3=192.168.238.162:2881:3881

3) 配置myid
cd /usr/local/zookeeper-3.4.14/data
vim myid
(xmjmaster:1,xmjslave1:2,xmjslave2:3)

4) 配置环境变量
vim /etc/profile
export ZOOKEEPER_PREFIX=/usr/local/zookeeper-3.4.14
export PATH=\$PATH:\$ZOOKEEPER_PREFIX/bin
source /etc/profile

```
5)启动zookeeper集群
zkServer.sh start
##查看集群状态
zkServer.sh status
```

2.solr tomcat安装配置

1) 上传tomcat和solr压缩包到/usr/local/solr-cloud,并解压缩(xmj)

```
mkdir -p /usr/local/solr-cloud
cd /usr/local/solr-cloud
tar -zxvf apache-tomcat-8.5.58.tar.gz
mv apache-tomcat-8.5.58 tomcat
tar -xvf solr-7.7.3.tgz
```

2)tomcat中建立solr工程(xmj)

```
cp /usr/local/solr-cloud/solr-7.7.3/server/solr-webapp/webapp -rf
/usr/local/solr-cloud/tomcat/webapps/solr
```

3)拷贝jar包(xmj)

```
cd /usr/local/solr-cloud/solr-7.7.3/server/lib
cp ext/* /usr/local/solr-cloud/tomcat/webapps/solr/WEB-INF/lib/
cp metrics-* /usr/local/solr-cloud/tomcat/webapps/solr/WEB-INF/lib/
```

4)配置solrhome(xmj)

```
mkdir -p /usr/local/solr-cloud/solrhome
cd /usr/local/solr-cloud/solr-7.7.3/server/solr
cp -r * /usr/local/solr-cloud/solrhome/
```

5)修改solr的web.xml文件 把solrhome关联起来、去掉安全认证(xmj)

```
vim /usr/local/solr-cloud/tomcat/webapps/solr/WEB-INF/web.xml
```

```
<!-- 修改solrhome路径 -->
<env-entry>
    <env-entry-name>solr/home</env-entry-name>
    <env-entry-value>/usr/local/solr-cloud/solrhome</env-entry-value>
    <env-entry-type>java.lang.String</env-entry-type>
</env-entry>

<!-- 去掉安全认证 -->
<!--
    <security-constraint>
        ...
    </security-constraint>
-->
```

6) 启动tomcat测试

```
cd /usr/local/solr-cloud
./tomcat/bin/startup.sh
```

7) 配置solrCloud相关的配置

```
vim /usr/local/solr-cloud/solrhome/solr.xml
```

```
<solrcloud>
  <str name="host">192.168.238.170</str>
  <int name="hostPort">8080</int>
  <str name="hostContext">${hostContext:solr}</str>
</solrcloud>
```

8) 拷贝到xmjmaster、xmjslave1和xmjslave2, 并修改对应的solr.xml(参考7)

```
scp -r /usr/local/solr-cloud/ xmjmaster:/usr/local
scp -r /usr/local/solr-cloud/ xmjslave1:/usr/local
scp -r /usr/local/solr-cloud/ xmjslave2:/usr/local
```

9) 让zookeeper统一管理配置文件

```
cd /usr/local/solr-cloud/solr-7.7.3/server/scripts/cloud-scripts/
##执行命令
./zkcli.sh -zkhost
192.168.238.160:2181,192.168.238.161:2181,192.168.238.162:2181 -cmd upconfig -
confdir /usr/local/solr-
cloud/solrhome/configsets/sample_techproducts_configs/conf -confname myconf
```

10) 查看zookeeper上的配置文件

```
zkcli.sh
```

```
[zk: localhost:2181(CONNECTED) 3] ll /configs/myconf
ZooKeeper -server host:port cmd args
  stat path [watch]
  set path data [version]
  ls path [watch]
  delquota [-n|-b] path
  ls2 path [watch]
  setAcl path acl
  setquota -n|-b val path
  history
  redo cmdno
  printwatches on|off
  delete path [version]
  sync path
  listquota path
  rmr path
  get path [watch]
  create [-s] [-e] path data acl
  addauth scheme auth
  quit
  getAcl path
  close
  connect host:port
[zk: localhost:2181(CONNECTED) 4] █
```

11) 修改tomcat/bin目录下的catalina.sh 文件, 关联solr和zookeeper
vim /usr/local/solr-cloud/tomcat/bin/catalina.sh
搜索 umask
JAVA_OPTS="-
DzkHost=192.168.238.160:2181,192.168.238.161:2181,192.168.238.162:2181"

12) 启动所有tomcat, 浏览器访问集群
./tomcat/bin/startup.sh
http://xmj:8080/solr/index.html

Solr Admin

← → ↻ 不安全 | xmj:8080/solr/index.html#/~cloud?view=nodes

Solr

Refresh Show all details

Hosts 1 - 4 of 4. Filter by: Host/node name Show 10 hosts per page.

Host	Node	CPU	Heap	Disk usage	Requests	Collections	Replicas
192.168.238.160 Linux 974.6Mb Java 1.8 Load: 0.93 show details...	8080_solr Uptime: 0m show details...	0%	54%		RPM: p95: ms	(none)	(none)
192.168.238.161 Linux 974.6Mb Java 1.8 Load: 0.33 show details...	8080_solr Uptime: 0m show details...	1%	62%		RPM: p95: ms	(none)	(none)
192.168.238.162 Linux 974.6Mb Java 1.8 Load: 0.42 show details...	8080_solr Uptime: 0m show details...	0%	47%		RPM: p95: ms	(none)	(none)
192.168.238.170 Linux 974.6Mb Java 1.8 Load: 0.32 show details...	8080_solr Uptime: 0m show details...	0%	62%		RPM: p95: ms	(none)	(none)

Dashboard
Logging
Cloud
Nodes
Tree
ZK Status
Graph
Graph (Radial)
Collections
Java Properties
Thread Dump
Suggestions
No collections

← → ↻ 不安全 | xmj:8080/solr/index.html#/~cloud?view=zookeeper

Solr

Refresh Toggle details

Status: **green**
ZK connection string: 192.168.238.160:2181,192.168.238.161:2181,192.168.238.162:2181
Ensemble size: 3
Ensemble mode: ensemble

	192.168.238.160:2181	192.168.238.161:2181	192.168.238.162:2181
ok	true	true	true
clientPort	2181	2181	2181
zk_server_state	follower	leader	follower
zk_version	3.4.14	3.4.14	3.4.14
zk_approximate_data_size	430334	430334	430334
zk_znode_count	270	270	270
zk_num_alive_connections	3	4	4
serverId	1	2	3
electionPort	3881	3881	3881
quorumPort	2881	2881	2881

Dashboard
Logging
Cloud
Nodes
Tree
ZK Status
Graph
Graph (Radial)
Collections
Java Properties



- Dashboard
- Logging
- Cloud
- Collections**
- Java Properties
- Thread Dump
- Suggestions

+ Add Collection

⚙ Create Alias

✖ Delete Alias

name: mycollection

config set: myconf

numShards: 2

replicationFactor 2

Show advanced ☒

✓ Add Collection

✖ Cancel



- Dashboard
- Logging
- Cloud
- Nodes**
- Tree
- ZK Status

