# 搜索平台从零部署操作文档

搜索分OPS、专柜、电商三套子系统。搜索平台需要基本的引擎环境: SolrCloud和ElasticSearch, 其中SolrCloud需要ZooKeeper环境。OPS、专柜搜索子系统需要ES 2.3.4版; 电商搜索需要ES 2.2.0版和SolrCloud。本文自ES、OPS搜索、专柜搜索、SolrCloud、电商搜索的顺序进行记录详细部署过程(完全手工部署过程)

本文档以VMware虚拟机集群环境示例记录

<mark>黑色背景</mark>部分为操作记录,其中<mark>#</mark> 表示以root执行命令,<mark>\$</mark> 表示以非root执行命令,> 表示执行命令 (不限用户身份)

#### 虑拟机环境如下

IP: 192.168.20.101、192.168.20.102、192.168.20.103(文档中以101、102、103代称)

OS: CentOS 6.9

各机安装JDK 1.8,并配置好JAVA\_HOME、PATH

关闭并禁用iptables

项目可能需要打包各依赖库,此处在101上配置maven环境进行打包。此处打包均假设公司nexus服务不可用,所有依赖由中央Maven仓库或本地仓库提供(maven install)。

101上maven环境如下:

#### # mvn -v

Apache Maven 3.5.0 (ff8f5e7444045639af65f6095c62210b5713f426;

2017-04-04T03:39:06+08:00)

Maven home: /data/maven/apache-maven-3.5.0

Java version: 1.8.0\_121, vendor: Oracle Corporation

Java home: /data/jdk/jdk1.8.0 121/jre

Default locale: zh CN, platform encoding: UTF-8

OS name: "linux", version: "2.6.32-696.el6.x86 64", arch: "amd64",

family: "unix" 安装qit版本为2.12.2

# 部署ElasticSearch

#### 创建用户

ElasticSearch不允许在root权限下运行,创建非root用户,示例环境中为search(所有机器)

#### ulimit 限制

最大线程数 65535 最大文件打开数 65535(所有机器)

使用root用户登录

修改 /etc/security/limits.d/90-nproc.conf 如下

*	soft	nproc	65535
*	hard	nproc	65535
root	soft	nproc	unlimited
root	hard	nproc	unlimited

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创建 /etc/security/limits.d/90-nofile.conf 并修改其内容如下

```
* soft nofile 65535

* hard nofile 65535

root soft nofile unlimited
root hard nofile unlimited
```

使用search用户登录确认 ulimit -n 为65535; ulimit -u 为65535

创建ES部署目录(所有机器)

创建 /data/es/ 目录(需要root权限操作),将其所有权修改为search

# mkdir -p /data/es

# chown search:search /data/es

在101机器上使用search用户如下操作

下载并解压ElasticSearch,需要两个版本: 2.2.0和2.3.4

```
$ curl -L https://download.elasticsearch.org/elasticsearch/
release/org/elasticsearch/distribution/tar/elasticsearch/2.2.0/
elasticsearch-2.2.0.tar.gz -o /data/es/elasticsearch-2.2.0.tar.gz
$ tar xzvf /data/es/elasticsearch-2.2.0.tar.gz -C /data/es
$ curl -L https://download.elastic.co/elasticsearch/release/org/
elasticsearch/distribution/tar/elasticsearch/2.3.4/
elasticsearch-2.3.4.tar.gz -o /data/es/elasticsearch-2.3.4.tar.gz
$ tar xzvf /data/es/elasticsearch-2.3.4.tar.gz -C /data/es
```

#### 为2.2.0版本安装插件

\$ /data/es/elasticsearch-2.2.0/bin/plugin install delete-by-query 可选安装head、kopf插件

修改2.2.0版本配置

```
$ cp /data/es/elasticsearch-2.2.0/config/elasticsearch.yml /data/
es/elasticsearch-2.2.0/config/elasticsearch.yml.origin
```

修改 /data/es/elasticsearch-2.2.0/config/elasticsearch.yml 内容如下

```
cluster.name: es
node.name: node-1
network.host: 192.168.20.101
http.port: 9200
transport.tcp.port: 9300
discovery.zen.ping.unicast.hosts: ["192.168.20.101",
"192.168.20.102", "192.168.20.103"]
discovery.zen.minimum_master_nodes: 2
script.engine.groovy.inline.aggs: on
```

将修改好的2.2.0版本ES复制到102、103

```
$ scp -Crp /data/es/elasticsearch-2.2.0 search@192.168.20.102:/data/es/
$ scp -Crp /data/es/elasticsearch-2.2.0 search@192.168.20.103:/data/es/
在102、103上分别修改 /data/es/elasticsearch-2.2.0/config/elasticsearch.yml 中: node.name 为 node-2、node-3
```

network.host 为 各自IP

在所有机器上启动2.2.0版本ES

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```
$ /data/es/elasticsearch-2.2.0/bin/elasticsearch -d -p /data/es/
elasticsearch-2.2.0/es.pid
回到101, search 用户, 为2.3.4版本安装插件
因部分插件只有源码, 所以只能本地打包
创建打包目录
$ mkdir $HOME/package
$ cd $HOME/package
检出源码
$ git clone https://github.com/dowenliu-xyz/lucene-token-filter-
pinyin.git
$ git clone https://github.com/dowenliu-xyz/elasticsearch-
<u>analysis-token-filter-pinyin.git</u>
$ git clone https://github.com/dowenliu-xyz/lucene-char-filter-
sbc2dbc.git
$ git clone https://github.com/dowenliu-xyz/elasticsearch-
analysis-char-filter-sbc2dbc.git
$ git clone https://github.com/dowenliu-xyz/lucene-char-filter-
chinese-simplifying.git
$ git clone https://github.com/dowenliu-xyz/elasticsearch-
analysis-char-filter-chinese-simplifying.git
$ git clone https://github.com/dowenliu-xyz/dm-segment.git
$ git clone https://github.com/dowenliu-xyz/elasticsearch-
analysis-dmseg.git
检出ES2.3.4版本对应的Tag
 cd elasticsearch-analysis-char-filter-chinese-simplifying/
$ git checkout 2.3.4.0
$ cd ..
 cd lucene-char-filter-chinese-simplifying/
 git checkout v5.5.0.0
 cd ..
 cd elasticsearch-analysis-char-filter-sbc2dbc/
 git checkout 2.3.4.0
 cd ..
 cd lucene-char-filter-sbc2dbc/
 git checkout 5.5.0.2
 cd ..
 cd elasticsearch-analysis-dmseg/
 git checkout 2.3.4.0
 cd ..
 cd dm-segment/
 git checkout 2.3.4.0
 cd ..
 cd elasticsearch-analysis-token-filter-pinyin/
 git checkout 2.3.4.0
 cd ..
 cd lucene-token-filter-pinyin/
```

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```
$ git checkout v5.5.0.0
$ cd ...
打包
$ cd lucene-char-filter-chinese-simplifying/
 mvn clean install
$ cd ..
 cd elasticsearch-analysis-char-filter-chinese-simplifying/
 mvn clean install
 cd ..
 cd lucene-char-filter-sbc2dbc/
 mvn clean install
 cd ..
 cd elasticsearch-analysis-char-filter-sbc2dbc/
 mvn clean install
 cd ..
 cd dm-segment/
 mvn clean install
 cd ..
 cd elasticsearch-analysis-dmseg/
 mvn clean install
 cd ..
$ cd lucene-token-filter-pinyin/
 mvn clean install
 cd ..
 cd elasticsearch-analysis-token-filter-pinyin/
 mvn clean install
$ cd ..
安装插件
$ /data/es/elasticsearch-2.3.4/bin/plugin install file:$HOME/.m2/
repository/xyz/dowenwork/npl/elasticsearch-analysis-char-filter-
chinese-simplifying/2.3.4.0/elasticsearch-analysis-char-filter-
chinese-simplifying-2.3.4.0-dist.zip
$ /data/es/elasticsearch-2.3.4/bin/plugin install file:$HOME/.m2/
repository/xyz/dowenwork/npl/elasticsearch-analysis-char-filter-
sbc2dbc/2.3.4.0/elasticsearch-analysis-char-filter-
sbc2dbc-2.3.4.0-dist.zip
$ /data/es/elasticsearch-2.3.4/bin/plugin install file:$HOME/.m2/
repository/xyz/dowenwork/npl/elasticsearch-analysis-dmseg/2.3.4.0/
elasticsearch-analysis-dmseg-2.3.4.0-dist.zip
$ /data/es/elasticsearch-2.3.4/bin/plugin install file:$HOME/.m2/
repository/xyz/dowenwork/npl/elasticsearch-analysis-token-filter-
pinyin/2.3.4.0/elasticsearch-analysis-token-filter-pinyin-2.3.4.0-
dist.zip
$ /data/es/elasticsearch-2.3.4/bin/plugin install delete-by-query
$ /data/es/elasticsearch-2.3.4/bin/plugin install analysis-icu
可选安装head、kopf插件
```

修改2.3.4版本ES配置

### \$ cp /data/es/elasticsearch-2.3.4/config/elasticsearch.yml /data/ es/elasticsearch-2.3.4/config/elasticsearch.yml.origin

修改 /data/es/elasticsearch-2.3.4/config/elasticsearch.yml 内容如下

```
cluster.name: es1
  node.name: node-1
  # node.rack: r1
  # # bootstrap.mlockall: true
  network.host: "192.168.20.101"
  http.port: 19200
  transport.tcp.port: 19300
  discovery.zen.ping.unicast.hosts: ["192.168.20.101",
  "192.168.20.102", "192.168.20.103"]
  discovery.zen.minimum master nodes: 2
  gateway.recover after nodes: 2
  # node.max local storage nodes: 1
  # action.destructive requires name: true
  script.engine.groovy.file.aggs: true
  script.engine.groovy.file.mapping: true
  script.engine.groovy.file.search: true
  script.engine.groovy.file.update: true
  script.engine.groovy.file.plugin: true
  script.engine.groovy.indexed.aggs: true
  script.engine.groovy.indexed.mapping: false
  script.engine.groovy.indexed.search: true
  script.engine.groovy.indexed.update: false
  script.engine.groovy.indexed.plugin: false
  script.engine.groovy.inline.aggs: true
  script.engine.groovy.inline.mapping: false
  script.engine.groovy.inline.search: true
  script.engine.groovy.inline.update: true
  script.engine.groovy.inline.plugin: false
  index:
      analysis:
           filter:
               pinyin:
                   type: pinyin
                   transformType: 1
                   keepOrigin: true
                   minTermLength: 2
将修改好的2.3.4版本ES复制到102、103
$ scp -Crp /data/es/elasticsearch-2.3.4 search@192.168.20.102:/
data/es/
$ scp -Crp /data/es/elasticsearch-2.3.4 search@192.168.20.103:/
data/es/
在102、103上分别修改 /data/es/elasticsearch-2.3.4/config/elasticsearch.yml 中:
node.name 为 node-2、node-3
network.host 为 各自IP
在所有机器上启动2.3.4版本ES
$ /data/es/elasticsearch-2.3.4/bin/elasticsearch -d -p /data/es/
```

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elasticsearch-2.3.4/es.pid

ES部署完成,可退出search用户

注:默认ES启动使用256m堆内存,最高使用1g堆内存。可使用ES\_MIN\_MEM和ES\_MAX\_MEN环境变量配置。使用ES\_HEAP\_SIZE环境变量可同时配置启动内存和最高占用内存。环境变量配置后注意source生效或重新登录生效。

# 打包依赖库

> cd ~/package/

```
com.wfj.ea:client:jar:1.1.34-RELEASE
 cd ~/package/
> git clone git@10.6.3.213:RD/exception-analysis.git
> cd exception-analysis/
> mvn clean install -DskipTests=true --projects client --also-make
com.wfj.netty:servlet-monitor:jar:1.3.4-RELEASE
> cd ~/package/
> git clone <u>git@10.6.3.213</u>:RD/WFJ-Servlet-Monitor.git
> cd WFJ-Servlet-Monitor/
> mvn clean install -DskipTests=true
com.wfj.search-utils:*:jar:1.0.37.RELEASE
> cd ~/package/
> git clone git@10.6.3.213:RD/utils.git
> cd utils/
> mvn clean install -DskipTests=true
xyz.dowenwork.npl:dmseg-segment:jar:1.0.0-SNAPSHOT
> cd ~/package/
> git clone git@10.6.3.213:liufl/dmseg.git
 cd dmseg/
» mvn clean install -DskipTests=true
com.wfj.search.base:segment-service:jar:1.0.2.RELEASE
> cd ~/package/
 git clone git@10.6.3.213:RD/segment-service.git
 cd segment-service/
> mvn clean install -DskipTests=true
xyz.dowenwork.lucene:scopeExpandTokenFilter:jar:1.1.0-SNAPSHOT
> cd ~/package/
 git clone https://github.com/dowenliu-xyz/
scopeExpandTokenFilter.git
> cd scopeExpandTokenFilter/
» mvn clean install -DskipTests=true
xyz.dowenwork.lucene:pinyinTokenFilter:jar:1.1.0-SNAPSHOT
> cd ~/package/
> git clone https://github.com/dowenliu-xyz/pinyinTokenFilter.git
cd pinyinTokenFilter/
> mvn clean install -DskipTests=true
com.wfj.search.base:traditional2simplified-chinese-char-filter:jar:1.0.2.RELEASE
> cd ~/package/
> git clone git@10.6.3.213:RD/wfj-solr-home.git
> mvn clean install -DskipTests=true
注:可能提示缺少artifact net.sf:pinyin4j:jar:2.5。使用maven install:install-file导入。jar包可在
https://sourceforge.net/projects/pinyin4j下载
```

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```
> curl -L https://sourceforge.net/projects/pinyin4j/files/
pinyin4j-2.5.0/pinyin4j-2.5.0/pinyin4j-2.5.0.zip/download -o
pinyin4j-2.5.0.zip
> unzip pinyin4j-2.5.0.zip -d pinyin4j-2.5.0
> mvn install:install-file -Dfile=pinyin4j-2.5.0/lib/
pinyin4j-2.5.0.jar -DgroupId=net.sf -DartifactId=pinyin4j -
Dversion=2.5 -Dpackaging=jar
```

# OPS搜索

#### 部署前提

- 1. 以下依赖库已安装本地仓库或上传到内网私有仓库: com.wfj.ea:client:jar:1.1.34-RELEASE com.wfj.netty:servlet-monitor:jar:1.3.4-RELEASE com.wfj.search-utils:\*:jar:1.0.37.RELEASE
- 2. ZooKeeper地址。此处使用192.168.20.101:2181(自建)。注意,请确保ZooKeeper版本为3.4.6、其他版本可能不兼容!
- 3. 异常框架Kafka broker地址和logging topic名称,假设为1.2.3.4:9092和exception
- 4. 监控系统Kafka broker地址和SQL logging topic名称,假设为1.2.3.4:9092和sql-info
- 5. ES 2.3.4 版本已部署
- 6. PCM、供应商平台等提供RSA工具jar包生成的key pair中公钥。(不要以任何形式接触其私钥, 更不要已方为其提供key pair,防止被诬陷已方伪造数据包)

此OPS搜索部署示例操作环境位于192.168.20.101, root用户 检出OPS搜索代码

```
> cd ~/package/
> git clone git@10.6.3.213:RD/pcm-search.git
> cd ~/package/pcm-search/
```

#### 创建ES索引库

创建pcm-search-data~1库

```
> curl -X PUT http://192.168.20.101:19200/pcm-search-data~1 -d
{
    "settings":{
        "index":{
            "number_of_shards":"3",
            "number_of_replicas":"2"
        }
} '
Type mappings
> curl -X PUT http://192.168.20.101:19200/pcm-search-data~1/
    _mapping/brand --data-binary "@es-mapping/pcm-search-data-brand.ison"
```

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```
curl -X PUT http://192.168.20.101:19200/pcm-search-data~1/
mapping/channel --data-binary "@es-mapping/pcm-search-data-
channel.json"
> curl -X PUT http://192.168.20.101:19200/pcm-search-data~1/
mapping/supplier --data-binary "@es-mapping/pcm-search-data-
supplier.json"
> curl -X PUT http://192.168.20.101:19200/pcm-search-data~1/
mapping/item --data-binary "@es-mapping/pcm-search-data-
item.json"
设置alias
 curl -X POST http://192.168.20.101:19200/ aliases -d '
  "actions": [
      "add": {
        "index": "pcm-search-data\sim 1",
        "alias": "pcm-search-data"
创建pcm-search-operation~1库
 curl -XPUT http://192.168.20.101:19200/pcm-search-operation~1 -d
  "settings":{
    "index":{
      "number of shards":"3".
      "number of replicas":"2'
Type mapping
> curl -X PUT http://192.168.20.101:19200/pcm-search-operation~1/
mapping/item --data-binary "@es-mapping/pcm-search-
operation.json"
设置alias
 curl -X POST http://192.168.20.101:19200/ aliases -d '
   actions": [
       add": {
        "index": "pcm-search-operation~1",
        "alias": "pcm-search-operation"
```

创建新的部署Profile example

可选:创建git分支

### > vim pom.xml 在project -> profiles元素下加入如下片段 cprofile> <id>example</id> cproperties> <resources.active>0-example</resources.active> </properties> </profile> 保存退出vim 创建Profile resource文件夹 index模块 cp -r index/src/main/resources-4-production index/src/main/ resources-0-example search模块 cp -r search/src/main/resources-4-production search/src/main/ resources-0-example profile配置文件 index模块 > vim index/src/main/resources-0-example/ea.properties ea.svsCode=41 ea.brokerList=1.2.3.4:9092 ea.loggingTopic=exception 注:ea.sysCode 异常&监控系统识别码;ea.brokerList 异常框架Kafka broker地址; ea.loggingTopic 异常框架loggint topic名 > vim index/src/main/resources-0-example/es.properties es.transportAddressList=192.168.20.101:19300,192.168.20.102:1930 0,192.168.20.103:19300 es.clusterName=es1 es.index.operation=pcm-search-operation es.index.data=pcm-search-data > vim index/src/main/resources-0-example/public-key.properties PCM=MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAkg5C3HQQNb9B/ jtGYCCNKcoKmRiRMtHdcdVCghp7CLod+2C5AESg8MXYn6nvA8u6XQJJFaprbgfFT 00ddo2RumskCyaL7jsm0wjKiDhLEjvKqiUvc1qqGH2mS3bytcq6jPoAt8rAKLwiJ brEbhzNAOPrrZGW5IAgfsV3Ff763QCVLJ0PEI6NvaEjXKjRhWDn2WY+7HxWSG1Tb 4HWeOcnEahAY08gUN/U408Mzn/WDzvHH8uwgnWi1pCz1dP/ g4KhpoBSrDqZqS1+7GPv/uMJwmORKZRee6rENdIFuKITSBRJU5ZyeIhA13P/ wmjykBGtfH+AKOiFEnRDfdErGnye7wIDAQAB 注:=后的内容为PCM提供的公钥内容 > vim index/src/main/resources-0-example/wfj-netty.properties system.setting.context-root=/pcm-index system.setting.context-name=pcm-index system.setting.context-code=41 system.setting.context-desc='{'"version"\:"1.0", "name"\:"pcmindex", "desc":"pcm-index", "status"\:"{0}"} system.seeting.monitor.url=192.168.20.101:2181 system.seeting.monitor.timeout=5000

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> git checkout -b example

```
system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
  注: system.seeting.monitor.url ZooKeeper地址; system.seeting.monitor.isDebug true时, 监控
  禁用, false启用; system.setting.interface.name 网卡名;
  system.setting.kafka.bootstrap.servers 监控系统Kafka地址; system.setting.kafka.sql.topic
  SQL监控Kafka topic名称。其他项一般不用修改,但不能省。
vim index/src/main/resources-0-example/zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  monitor.register.appName=pcm-index
  discovery.basePath=/com/wfj/discovery
  operation.versionNoCounterPath=/com/wfj/counter/operation/
  versionNoCounter
  注: monitor.zkAddresses Zookeeper地址,注意后面的chroot要与约定一致。其他项一般不要改
  动
search模块
vim search/src/main/resources-0-example/ea.properties
  ea.sysCode=24
  ea.brokerList=1.2.3.4:9092
  ea.loggingTopic=exception
> vim search/src/main/resources-0-example/es.properties
  es.transportAddressList=192.168.20.101:19300,192.168.20.102:1930
  0,192.168.20.103:19300
  es.clusterName=es1
  es.index.operation=pcm-search-operation
  es.index.data=pcm-search-data
> vim search/src/main/resources-0-example/wfj-netty.properties
  system.setting.context-root=/pcm-search
  system.setting.context-name=pcm-search
  system.setting.context-code=24
  system.setting.context-desc='{'"version"\:"1.0", "name"\:"pcm-
  search", "desc":"pcm-search", "status"\:"{0}"}
  system.seeting.monitor.url=192.168.20.101:2181
  system.seeting.monitor.timeout=5000
  system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
vim search/src/main/resources-0-example/zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  monitor.register.appName=pcm-search
  discovery.basePath=/com/wfj/discovery
打包
```

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```
复制war包到部署位置
> mkdir -p /data/pcm-search/webapps
> cp ~/package/pcm-search/index/target/index-1.0.0-SNAPSHOT.war /
data/pcm-search/webapps/
> cp ~/package/pcm-search/search/target/search-1.0.0-
SNAPSHOT.war /data/pcm-search/webapps/
准备Web容器、以tomcat为例
下载并解压
> curl -L http://mirrors.tuna.tsinghua.edu.cn/apache/tomcat/
tomcat-8/v8.5.14/bin/apache-tomcat-8.5.14.tar.gz -o /data/pcm-
search/apache-tomcat-8.5.14.tar.gz
> tar xzvf /data/pcm-search/apache-tomcat-8.5.14.tar.gz -C /data/
pcm-search/
> rm -f /data/pcm-search/apache-tomcat-8.5.14.tar.gz
修改server.xml修改端口号
> vim /data/pcm-search/apache-tomcat-8.5.14/conf/server.xml
修改内容略,这里修改为2080、2005、2009等
注1: 此示例将会部署index、search模块至同一容器下,均为单实例部署。如需单独实例或集群部
署可参考此示例,使用不同端口/机器/单独部署描述文件方式部署。
注2: OPS搜索(pcm-search)的index、search模块运行需要配置环境变量
SERVER_HOSTNAME, 其值为当前机器地址,一般为IP, 此处为192.168.20.101
> echo "export SERVER HOSTNAME=192.168.20.101" >> ~/.bash profile
source或重新登录生效
创建部署描述文件
 mkdir -p /data/pcm-search/apache-tomcat-8.5.14/conf/Catalina/
localhost
> vim /data/pcm-search/apache-tomcat-8.5.14/conf/Catalina/
localhost/pcm-index.xml
  <Context docBase="/data/pcm-search/webapps/index-1.0.0-</pre>
  SNAPSHOT.war" path="/pcm-index" reloadable="false">
  </Context>
 vim /data/pcm-search/apache-tomcat-8.5.14/conf/Catalina/
localhost/pcm-search.xml
  <Context docBase="/data/pcm-search/webapps/search-1.0.0-</pre>
  SNAPSHOT.war" path="/pcm-search" reloadable="false">
  </Context>
确认ZooKeeper chroot ZNode存在
> /data/zookeeper/zookeeper-3.4.6/bin/zkCli.sh
    ls /
     如有search, quit退出
     否则
    create /search ""
启动并验证部署
> /data/pcm-search/apache-tomcat-8.5.14/bin/startup.sh
数秒后在本地浏览器中查看:
http://192.168.20.101:2080/pcm-index/status.json
http://192.168.20.101:2080/pcm-search/status.json
```

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> mvn clean package -DskipTests=true -Pexample

# 专柜搜索部署

#### 部署前提

- 1. 以下依赖库已安装本地仓库或上传到内网私有仓库:
  - com.wfj.ea:client:jar:1.1.34-RELEASE
  - com.wfj.netty:servlet-monitor:jar:1.3.4-RELEASE
  - com.wfj.search-utils:\*:jar:1.0.37.RELEASE
- 2. ZooKeeper地址。此处使用192.168.20.101:2181(自建)。注意,请确保ZooKeeper版本为
- 3.4.6、其他版本可能不兼容!
- 3. 异常框架Kafka broker地址和logging topic名称,假设为1.2.3.4:9092和exception
- 4. 监控系统Kafka broker地址和SQL logging topic名称、假设为1.2.3.4:9092和sql-info
- 5. ES 2.3.4 版本已部署
- 6. MySQL库地址、用户名密码及search库。此处使用192.168.20.101:3306(自建), root用户
- 7. Redis集群地址及密码 此处使用192.168.20.101:6379,密码为空
- 8. PCM、供应商平台等提供RSA工具jar包生成的key pair中公钥。(不要以任何形式接触其私钥,更不要已方为其提供key pair,防止被诬陷已方伪造数据包)
- 9. PCM inner\_sdc 地址 假设为1.2.3.4

此专柜搜索部署示例操作环境位于192.168.20.101, root用户 检出专柜搜索代码

```
> cd ~/package/
```

> git clone git@10.6.3.213:RD/shoppe-searching.git

> cd shoppe-searching/

#### MySQL表及数据

如不存在表operator创建之

CREATE TABLE `operator` (

`operator` varchar(50) NOT NULL COMMENT '操作人',

`rsa\_key` varchar(4096) DEFAULT NULL COMMENT '操作人签名密钥',

PRIMARY KEY ('sid'),

UNIQUE KEY `unique\_operator` (`operator`)

) ENGINE=InnoDB AUTO\_INCREMENT=10 DEFAULT CHARSET=utf8 COMMENT='操作人表';

检查如下operator数据是否录入,如不存在,联系相关方生成公钥录入

SYS\_INDEX\_SERVICE 定时重建索引Operator,不需要公钥

OSP OPS调用Operator,通常由搜索方自己生成密钥对录入,私钥录入OPS部署

PCM PCM调用Operator, 由PCM方提供公钥

创建ES索引库

创建shoppe-search-base~1库

```
> curl -X PUT http://192.168.20.101:19200/shoppe-search-base~1 -d

{
    "settings":{
        "index":{
             "number_of_shards":"3",
             "number_of_replicas":"2"
```

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```
Type mappings
> curl -X PUT http://192.168.20.101:19200/shoppe-search-base~1/
mapping/brand --data-binary @es-mapping/es-shoppe-search-mapping-
brand.json
> curl -X PUT http://192.168.20.101:19200/shoppe-search-base~1/
mapping/category --data-binary @es-mapping/es-shoppe-search-
mapping-category.ison
设置alias
 curl -X POST http://192.168.20.101:19200/ aliases -d
  "actions":
      "add": {
       "index": "shoppe-search-base~1",
       "alias": "shoppe-search-base"
创建shope-search-erp-product~1库
 curl -XPUT http://192.168.20.101:19200/shoppe-search-erp-
product~1 -d '
  "settings": {
    "index": {
      "number_of_shards": "3",
      "number of replicas": "2'
    "analysis": {
      "filter": {
        "synonym": {
          "type": "synonym",
          "synonyms": [
           "nike,耐克",
            "macwish,麦科威诗,麦科威",
            "匡威,converse",
            "上装,上衣",
            "西服,西装",
            "衬衫,衬衣",
            "t-shirt,T恤,tshirt",
            "连裤袜,裤袜",
            "泳衣,泳装",
            "阿迪,阿迪达斯,adidas",
            "非类,FEELEI-KISS",
            "行李箱,拉杆箱",
```

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```
"ascis,asics,亚瑟士",
      "男士,男,男式",
      "胸罩,文胸",
      "女士,女,女式",
      "伯内谛,burnetie",
      "维界,watchjady",
      "爱步,ecco",
      "添柏岚,Timberland"
  "lowercase_english":
   "type": "lowercase"
  "stop_english": {
   "type": "stop",
"stopwords": "_english_"
 "stop_my": {
    "type": "stop",
    "stopwords": [
      "的",
      "和",
      "是"
      "得"
      "不"
      "否"
      "非",
      "呀"
      "吗",
      "款"
      "我"
  "word_delimiter": {
    "catenate_all": "true",
    "type": "word_delimiter",
    "catenate numbers": "true"
    "preserve original": "true"
"analyzer": {
  "dm_index_pinyin":
    "filter": [
      "word_delimiter",
      "stop my",
```

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```
"pinyin",
            "stop_english",
            "lowercase english"
          "char filter": [
            "sbc2dbc",
            "chinese-simplifying"
          "type": "custom",
          "position_increment_gap": "256",
          "tokenizer": "dm index"
        "dm_query_pinyin": {
          "filter": [
            "stop_my",
            "stop english",
            "synonym",
           "lowercase english"
          "char_filter": [
            "sbc2dbc",
           "chinese-simplifying"
          "type": "custom",
          "position_increment_gap": "256",
          "tokenizer": "dm query"
Type mappings
> curl -XPUT http://192.168.20.101:19200/shoppe-search-erp-
product~1/ mapping/erp-product --data-binary @es-mapping/es-
shoppe-search-mapping-erp-product.json
设置alias
 curl -X POST http://192.168.20.101:19200/ aliases -d '
  actions": [
       add": {
        "index": "shoppe-search-erp-product~1",
        "alias": "shoppe-search-erp-product"
创建shope-search-item~1库
 curl -XPUT http://192.168.20.101:19200/shoppe-search-item~1 -d '
  "settings": {
```

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```
"index": {
 "number_of_shards": "3",
 "number of replicas": "2"
"analysis":
 "filter": {
   "synonym": {
     "type": "synonym",
     "synonyms": [
       "nike,耐克",
       "macwish,麦科威诗,麦科威",
       "匡威, converse",
       "上装,上衣",
       "西服,西装",
       "衬衫,衬衣",
       "t-shirt,T恤,tshirt",
       "连裤袜,裤袜",
       "泳衣,泳装",
       "阿迪,阿迪达斯,adidas",
       "非类,FEELEI-KISS",
       "行李箱,拉杆箱",
       "ascis,asics,亚瑟士",
       "男士,男,男式",
       "胸罩,文胸",
       "女士,女,女式",
       "伯内谛,burnetie",
       "维界, watchjady",
       "爱步,ecco",
       "添柏岚,Timberland"
   "lowercase_english":
     "type": "lowercase'
   "stop_english": {
     "type": "stop",
     "stopwords": "_english_"
   "stop_my": {
     "type": "stop",
     "stopwords": [
       "的",
       "和",
       "是",
       "得"
       "不"
```

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```
"否",
      "非"
      "啊",
      "呀"
      "呢"
      "吗"
      "款"
      "我"
  "word delimiter": {
    "catenate_all": "true",
   "type": "word_delimiter",
    "catenate numbers": "true"
   "preserve original": "true"
"analyzer": {
  "dm_index_pinyin":
   "filter": [
      "word delimiter",
      "stop_my",
      "pinyin",
      "stop_english",
      "lowercase_english"
    "char_filter": [
     "sbc2dbc",
     "chinese-simplifying"
    "type": "custom",
    "position increment gap": "256",
    "tokenizer": "dm index"
 "dm_query_pinyin":
    "filter": [
     "stop_my",
      "stop english",
      "synonym",
      "lowercase english"
    "char_filter": [
      "sbc2dbc",
      "chinese-simplifying"
    "type": "custom",
    "position_increment_gap": "256",
    "tokenizer": "dm querv"
```

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```
Type mappings
> curl -XPUT http://192.168.20.101:19200/shoppe-search-item~1/
mapping/item --data-binary @es-mapping/es-shoppe-search-mapping-
item.json
设置alias
 curl -X POST http://192.168.20.101:19200/ aliases -d
   actions":
      "add": {
        "index": "shoppe-search-item~1",
        "alias": "shoppe-search-item"
创建shoppe-search-operation~1库
 curl -XPUT http://192.168.20.101:19200/shoppe-search-operation~1
· d '
  "settings":{
    "index":{
      "number of shards": "3".
      "number of replicas":"2"
Type mapping
> curl -X PUT http://192.168.20.101:19200/shoppe-search-
operation~1/ mapping/operation -d '
  "properties": {
    "instanceName": {
      "index": "not_analyzed",
     "type": "string"
    "appName": {
   "index": "not_analyzed",
      "type": "string"
    "messageId": {
      "index": "not_analyzed",
      "type": "string"
    "stamp": {
    "index": "not_analyzed",
      "type": "string"
```

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```
"sid": {
      "index": "not_analyzed",
      "type": "string"
    "caller": {
      "index": "not_analyzed",
"type": "string"
    "parameter": {
     "index": "no",
"type": "string"
    "comment": {
      "index": "no",
"type": "string"
    "startTime": {
      "format": "yyyy-MM-dd HH:mm:ss.SSS||yyyy-MM-dd HH:mm:ss",
     "type": "date"
    "endTime": {
      "format": "yyyy-MM-dd HH:mm:ss.SSS||yyyy-MM-dd HH:mm:ss",
      "type": "date"
    "operation": {
     "index": "not_analyzed",
"type": "string"
    "status": {
      "type": "integer"
    },
    "username": {
      "index": "not_analyzed",
      "type": "string"
设置alias
  curl -X POST http://192.168.20.101:19200/ aliases -d '
   actions": [
      "add": {
        "index": "shoppe-search-operation~1",
        "alias": "shoppe-search-operation"
```

创建新的部署Profile example

```
可选:创建qit分支
  > git checkout -b example
> vim pom.xml
在project -> profiles元素下加入如下片段
  cprofile>
      <id>example</id>
      cproperties>
          <resources.active>0-example</resources.active>
  </profile>
保存退出vim
创建Profile resource文件夹
index模块
> cp -r shoppe-index/src/main/resources-4-production shoppe-index/
src/main/resources-0-example
manage-console模块
> cp -r shoppe-manage-console/src/main/resources-4-production
shoppe-manage-console/src/main/resources-0-example
search模块
> cp -r shoppe-search/src/main/resources-4-production shoppe-
search/src/main/resources-0-example
profile配置文件
index模块
> vim shoppe-index/src/main/resources-0-example/es.properties
  es.transportAddressList=192.168.20.101:19300,192.168.20.102:1930
  0,192.168.20.103:19300
  es.clusterName=es1
  es.index.operation=shoppe-search-operation
  es.index.base=shoppe-search-base
  es.index.erpProduct=shoppe-search-erp-product
  es.index.item=shoppe-search-item
> vim shoppe-index/src/main/resources-0-example/mysql.properties
  mysql.address=jdbc:mysql://192.168.20.101:3306/search?
  characterEncoding=utf-8
  mvsql.username=root
  mysql.password=MyPass!new2017
  mysql.initialSize=1
  mysql.minIdle=1
  mysql.maxActive=20
> vim shoppe-index/src/main/resources-0-example/pcm.properties
  pcm.address=http://1.2.3.4/pcm-inner-sdc
  pcm.method.listAllStores=organization/selectShop.htm
  pcm.method.listShoppeItems=search/searchSpByStore.htm
  pcm.method.getSkuInfo=search/selectSearchSku.htm
  pcm.method.getProductInfo=search/selectSearchSpu.htm
  pcm.method.getCategoryInfo=categorycontroller/
  getCategoryInfo.htm
```

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```
pcm.method.getStoreBrandInfo=pcmInnerBrandSearch/
  searchBrandByParam.htm
  pcm.method.getItemInfo=search/searchSpByCode.htm
  pcm.method.listItemsByParams=search/searchSpByParam.htm
  pcm.method.listErpProduct=search/
  getErpProductInfoByStoreCodePage.htm
  注: pcm.address为PCM inner sdc 部署地址。其他项一般不需要修改
> vim shoppe-index/src/main/resources-0-example/redis.properties
  spring.redis.cluster.nodes=192.168.20.101:6379
  spring.redis.cluster.max-redirects=3
  spring.redis.cluster.password=
> vim shoppe-index/src/main/resources-0-example/wfj-
netty.properties
  system.setting.context-root=/shoppe-index
  system.setting.context-name=shoppe-index
  system.setting.context-code=27
  system.setting.context-desc='{'"version"\:"1.0",
  "name"\:"shoppe-index", "desc":"shoppe-index", "status"\:"{0}"}
  system.seeting.monitor.url=192.168.20.101:2181
  system.seeting.monitor.timeout=5000
  system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
> vim shoppe-index/src/main/resources-0-example/
zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  monitor.register.namespace=/com/wfj/management/monitor/register
  monitor.register.appName=shoppe-index
  coordinator.operation.namespace=/com/wfj/coordinator/operation
  discovery.basePath=/com/wfj/discovery
  operation.versionNoCounterPath=/com/wfj/counter/operation/
  shoppe-index/versionNoCounter
manage-console模块
> vim shoppe-manage-console/src/main/resources-0-example/
es.properties
  es.transportAddressList=192.168.20.101:19300,192.168.20.102:1930
  0,192.168.20.103:19300
  es.clusterName=es1
  es.index.operation=shoppe-search-operation
vim shoppe-manage-console/src/main/resources-0-example/
mysql.properties
  mysql.address=jdbc:mysql://192.168.20.101:3306/search?
  characterEncoding=utf-8
  mysql.username=root
  mvsql.password=MvPass!new2017
  mysql.initialSize=1
  mysql.minIdle=1
```

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```
mvsql.maxActive=20
 vim shoppe-manage-console/src/main/resources-0-example/
redis.properties
  spring.redis.cluster.nodes=192.168.20.101:6379
  spring.redis.cluster.max-redirects=3
  spring.redis.cluster.password=
vim shoppe-manage-console/src/main/resources-0-example/wfj-
netty.properties
  system.setting.context-root=/shoppe-manage-console
  system.setting.context-name=shoppe-manage-console
  system.setting.context-code=28
  system.setting.context-desc='{'"version"\:"1.0",
  "name"\:"shoppe-manage-console", "desc":"shoppe-manage-console",
  "status"\:"{0}"}
  system.seeting.monitor.url=192.168.20.101:2181
  system.seeting.monitor.timeout=5000
  system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
 vim shoppe-manage-console/src/main/resources-0-example/
zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  discovery.basePath=/com/wfj/discovery
  monitor.register.appName=shoppe-manage-console
  monitor.register.namespace=/com/wfj/management/monitor/register
  operation.versionNoCounterPath=/com/wfj/counter/operation/
  shoppe-index/versionNoCounter
> vim shoppe-search/src/main/resources-0-example/es.properties
  es.transportAddressList=192.168.20.101:19300,192.168.20.102:1930
  0,192.168.20.103:19300
  es.clusterName=es1
  es.index.item=shoppe-search-item
  es.index.base=shoppe-search-base
  es.index.erpProduct=shoppe-search-erp-product
vim shoppe-search/src/main/resources-0-example/mysql.properties
  mysql.address=jdbc:mysql://192.168.20.101:3306/search?
  characterEncoding=utf-8
  mysql.username=root
  mysql.password=MyPass@new2017
  mysql.initialSize=1
  mysql.minIdle=1
  mysql.maxActive=20
vim shoppe-search/src/main/resources-0-example/redis.properties
  spring.redis.cluster.nodes=192.168.20.101:6379
  spring.redis.cluster.max-redirects=3
  spring.redis.cluster.password=
```

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```
vim shoppe-search/src/main/resources-0-example/wfj-
netty.properties
  system.setting.context-root=/shoppe-search
  system.setting.context-name=shoppe-search
  system.setting.context-code=26
  system.setting.context-desc='{'"version"\:"1.0",
  "name"\:"shoppe-search", "desc":"shoppe-search",
  "status"\:"{0}"}
  system.seeting.monitor.url=192.168.20.101:2181
  system.seeting.monitor.timeout=5000
  system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
 vim shoppe-search/src/main/resources-0-example/
zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  monitor.register.namespace=/com/wfj/management/monitor/register
  monitor.register.appName=shoppe-search
  discovery.basePath=/com/wfj/discovery
打包
> mvn clean package -DskipTests=true -Pexample
复制war包到部署位置
 mkdir -p /data/shoppe-search/webapps
 cp ~/package/shoppe-searching/shoppe-index/target/shoppe-
index-1.0.36-SNAPSHOT.war /data/shoppe-search/webapps/
> cp ~/package/shoppe-searching/shoppe-manage-console/target/
shoppe-manage-console-1.0.36-SNAPSHOT.war /data/shoppe-search/
webapps/
> cp ~/package/shoppe-searching/shoppe-search/target/shoppe-
search-1.0.36-SNAPSHOT.war /data/shoppe-search/webapps/
准备Web容器、以tomcat为例
下载并解压
> curl -L http://mirrors.tuna.tsinghua.edu.cn/apache/tomcat/
tomcat-8/v8.5.14/bin/apache-tomcat-8.5.14.tar.gz -o /data/shoppe-
search/apache-tomcat-8.5.14.tar.gz
> tar xzvf /data/shoppe-search/apache-tomcat-8.5.14.tar.gz -C /
data/shoppe-search/
> rm -f /data/shoppe-search/apache-tomcat-8.5.14.tar.gz
修改server.xml修改端口号
> vim /data/shoppe-search/apache-tomcat-8.5.14/conf/server.xml
修改内容略,这里修改为3080、3005、3009等
注1: 此示例将会部署index、manage-console、search模块至同一容器下,均为单实例部署。如需
单独实例或集群部署可参考此示例,使用不同端口/机器/单独部署描述文件方式部署。
注2: 专柜搜索(shoppe-search)的index、manage-console、search模块运行需要配置环境变量
```

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SERVER\_HOSTNAME, 其值为当前机器地址,一般为IP, 此处为192.168.20.101

> echo "export SERVER\_HOSTNAME=192.168.20.101" >> ~/.bash\_profile source或重新登录生效

#### 创建部署描述文件

> mkdir -p /data/shoppe-search/apache-tomcat-8.5.14/conf/Catalina/ localhost

> vim /data/shoppe-search/apache-tomcat-8.5.14/conf/Catalina/ localhost/shoppe-index.xml

<Context docBase="/data/shoppe-search/webapps/shoppeindex-1.0.36-SNAPSHOT.war" path="/shoppe-index"
reloadable="false">
</Context>

> vim /data/shoppe-search/apache-tomcat-8.5.14/conf/Catalina/ localhost/shoppe-manage-console.xml

<Context docBase="/data/shoppe-search/webapps/shoppe-manageconsole-1.0.36-SNAPSHOT.war" path="/shoppe-manage-console" reloadable="false"> </Context>

> vim /data/shoppe-search/apache-tomcat-8.5.14/conf/Catalina/ localhost/shoppe-search.xml

<Context docBase="/data/shoppe-search/webapps/shoppe-search-1.0.36-SNAPSHOT.war" path="/shoppe-search"
reloadable="false">
</Context>

确认ZooKeeper chroot ZNode存在

> /data/zookeeper/zookeeper-3.4.6/bin/zkCli.sh

ls /

如有search, quit退出

**丕**IIII

create /search ""

启动并验证部署

> /data/shoppe-search/apache-tomcat-8.5.14/bin/startup.sh

数秒后在本地浏览器中查看:

http://192.168.20.101:3080/shoppe-index/status.json

http://192.168.20.101:3080/shoppe-manage-console/status.json

http://192.168.20.101:3080/shoppe-search/status.json

如有正常JSON响应则部署成功

# SolrCloud部署

如不使用root用户运行Solr,可能需要配置ulimit,配置方式参考ES部署部署前提

- 1. ZooKeeper已部署。此处使用192.168.20.101:2181(此处地址为自建,通常为多项目共用)。注意,请确保ZooKeeper版本为3.4.6,其他版本可能不兼容!
- 2. 以下依赖库已安装本地仓库或上传到内网私有仓库:

xyz.dowenwork.npl:dmseq-segment:jar:1.0.0-SNAPSHOT

com.wfj.search.base:segment-service:jar:1.0.2.RELEASE

xyz.dowenwork.lucene:scopeExpandTokenFilter:jar:1.1.0-SNAPSHOT

xyz.dowenwork.lucene:pinyinTokenFilter:jar:1.1.0-SNAPSHOT

在所有要部署Solr的机器上如下操作(此例中为所有机器)

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```
创建Solr目录
mkdir -p /data/solr/solr home
mkdir -p /data/solr/collection confs
在101机器上如下操作
下载并解压Solr(版本5.3.0)
curl -L http://archive.apache.org/dist/lucene/solr/5.3.0/
solr-5.3.0.tgz -o /data/solr/solr-5.3.0.tgz
tar xzvf /data/solr/solr-5.3.0.tgz -C /data/solr
配置solr_home
检出wfj-solr-home项目
> cd ~/package
> git clone git@10.6.3.213:RD/wfj-solr-home.git
打包生成solr-home
  cd ~/package/wfj-solr-home/
> mvn clean package -DskipTests
注:可能提示缺少artifact net.sf:pinyin4j:jar:2.5。使用maven install:install-file导入。jar包可在
https://sourceforge.net/projects/pinyin4j下载
   cd ~/package/
    curl -L https://sourceforge.net/projects/pinyin4j/files/
  pinyin4j-2.5.0/pinyin4j-2.5.0/pinyin4j-2.5.0.zip/download -o
  pinyin4j-2.5.0.zip
  > unzip pinyin4j-2.5.0.zip -d pinyin4j-2.5.0
  > mvn install:install-file -Dfile=pinyin4j-2.5.0/lib/
  pinyin4j-2.5.0.jar -DgroupId=net.sf -DartifactId=pinyin4j -
  Dversion=2.5 -Dpackaging=jar
部署SOLR HOME
 mkdir -p /data/solr/solr home
> cp ~/package/wfj-solr-home/solr-home/target/solr-home/WEB-INF/
solr.xml /data/solr/solr home/
> cp -r ~/package/wfj-solr-home/solr-home/target/solr-home/WEB-
INF/lib /data/solr/solr home/
创建Solr ZooKeeper chroot ZNode
> /data/solr/solr-5.3.0/server/scripts/cloud-scripts/zkcli.sh -
zkhost 192.168.20.101:2181 -cmd makepath /solr
将Solr home、solr分发到192.168.20.102、192.168.20.103
 for i in `seq 2 3`; do scp -Crp /data/solr/solr home
root@192.168.20.10$i:/data/solr/; scp -Crp /data/solr/solr-5.3.0
root@192.168.20.10$i:/data/solr/; done
注: 此处使用的是root用户,注意修改为实际环境使用的用户
在所有的机器上执行启动
  /data/solr/solr-5.3.0/bin/solr start -c -p 8983 -z
```

SolrCloud部署完成

192.168.20.101:2181/solr -m 512m -s /data/solr/solr home

### 电商搜索部署

#### 部署前提

- 1. ZooKeeper已部署。此处使用192.168.20.101:2181(此处地址为自建,通常为多项目共用)。注意、请确保ZooKeeper版本为3.4.6,其他版本可能不兼容!
- 2. 以下依赖库已安装本地仓库或上传到内网私有仓库:

xyz.dowenwork.npl:dmseg-segment:jar:1.0.0-SNAPSHOT

com.wfj.search.base:segment-service:jar:1.0.2.RELEASE

xyz.dowenwork.lucene:scopeExpandTokenFilter:jar:1.1.0-SNAPSHOT

xyz.dowenwork.lucene:pinyinTokenFilter:jar:1.1.0-SNAPSHOT

com.wfj.ea:client:jar:1.1.34-RELEASE

com.wfj.netty:servlet-monitor:jar:1.3.4-RELEASE

com.wfj.search-utils:\*:jar:1.0.37.RELEASE

com.wfj.search.base:traditional2simplified-chinese-char-filter:jar:1.0.2.RELEASE

- 3. 异常框架Kafka broker地址和logging topic名称,假设为1.2.3.4:9092和exception
- 4. 监控系统Kafka broker地址和SQL logging topic名称,假设为1.2.3.4:9092和sql-info
- 5. ES 2.2.2 版本已部署
- 6. MySQL库地址、用户名密码及search库。此处使用192.168.20.101:3306(自建), root用户
- 7. Redis集群地址及密码 此处使用192.168.20.101:6379,密码为空
- 8. PCM、OMS等提供RSA工具jar包生成的key pair中公钥。(不要以任何形式接触其私钥,更不要已方为其提供key pair,防止被诬陷已方伪造数据包)。
- 9. PCM inner sdc 地址 假设为1.2.3.4
- 10. member-sdk:1.2已部署到内网仓库或由member提供jar并安装到本地仓库。
- 11. 会员comment地址。假设为1.2.3.14
- 12. CMS admin地址。假设为1.2.3.24
- 13. 购物车地址。假设为1.2.3.34
- 14. memberSDK参数: domainName、url; memberSDK密钥对。由会员系统提供。这里domainName为search.wangfujing.com; url为http://10.6.3.171//member-core/interface/

#### MySQL表及数据

如不存在表operator创建之

CREATE TABLE `operator` (

`operator` varchar(50) NOT NULL COMMENT '操作人',

`rsa\_key` varchar(4096) DEFAULT NULL COMMENT '操作人签名密钥',

PRIMARY KEY ('sid'),

UNIQUE KEY `unique\_operator` (`operator`)

) ENGINE=InnoDB AUTO\_INCREMENT=10 DEFAULT CHARSET=utf8 COMMENT='操作人表'; 检查如下operator数据是否录入,如不存在,联系相关方生成公钥录入

SYS INDEX SERVICE 定时重建索引Operator,不需要公钥

OSP OPS调用Operator,通常由搜索方自己生成密钥对录入,私钥录入OPS部署

PCM PCM调用Operator, 由PCM方提供公钥

OMS OMS调用Operator,由OMS方提供公钥

comment 会员评论调用Operator, 由会员方提供公钥

online-manage-console online-manage-console模块调用Operator, 自主生成Key pair。

检出online-searching代码

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```
cd ~/package/
 git clone git@10.6.3.213:RD/online-searching.git
创建ES索引库
创建online-config库
  curl -XPUT http://192.168.20.101:9200/online-config -d '
  "settings":{
    "index":{
      "number of shards":"3",
      "number of replicas":"2"
Type mappings
> curl -X PUT http://192.168.20.101:9200/online-config/ mapping/gp
--data-binary "@es-mapping//es-online-config-mapping-gp.json"
创建online-search库
  curl -XPUT http://192.168.20.101:9200/online-search -d
  "settings":{
    "index":{
      "number of shards":"3",
      "number of replicas":"2"
Type mappings
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
activity --data-binary @es-mapping//es-online-search-mapping-
activity.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
brand --data-binary @es-mapping//es-online-search-mapping-
brand.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
category --data-binary @es-mapping//es-online-search-mapping-
category.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
clicks --data-binary @es-mapping//es-online-search-mapping-
clicks.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
color --data-binary @es-mapping//es-online-search-mapping-
color.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
comment --data-binary @es-mapping//es-online-search-mapping-
comment.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
item --data-binary @es-mapping//es-online-search-mapping-item.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
item-sales --data-binary @es-mapping//es-online-search-mapping-
item-sales.ison
```

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```
curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
property --data-binary @es-mapping//es-online-search-mapping-
property.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
property-value --data-binary @es-mapping//es-online-search-
mapping-property-value.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
search-query-record --data-binary @es-mapping//es-online-search-
mapping-search-query-record.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
sku --data-binary @es-mapping//es-online-search-mapping-sku.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
sku-sales --data-binary @es-mapping//es-online-search-mapping-sku-
sales.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
spu --data-binary @es-mapping//es-online-search-mapping-spu.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
spu-sales --data-binary @es-mapping//es-online-search-mapping-spu-
sales.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
standard --data-binary @es-mapping//es-online-search-mapping-
standard.json
> curl -X PUT http://192.168.20.101:9200/online-search/ mapping/
tag --data-binary @es-mapping//es-online-search-mapping-tag.json
创建online-operation库
  curl -XPUT http://192.168.20.101:9200/online-operation -d '
  "settings":{
    "index":{
      "number of shards":"3"
      "number of replicas":"2"
Type mappings
> curl -X PUT http://192.168.20.101:9200/online-operation/
mapping/operation -d '
  "properties": {
    "instanceName": {
      "index": "not analyzed",
     "type": "string"
    "appName": {
      "index": "not analyzed",
      "type": "string"
    "messageId": {
      "index": "not analyzed",
      "type": "string"
```

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```
"stamp": {
      "index": "not_analyzed",
      "type": "string"
    "sid": {
      "index": "not analyzed",
      "type": "string"
    "caller": {
      "index": "not analyzed",
      "type": "string"
    "parameter": {
      "index": "no",
      "type": "string"
    "comment": {
   "index": "no",
      "type": "string"
    "startTime": {
      "format": "yyyy-MM-dd HH:mm:ss.SSS||yyyy-MM-dd HH:mm:ss",
      "type": "date"
    "endTime": {
      "format": "yyyy-MM-dd HH:mm:ss.SSS||yyyy-MM-dd HH:mm:ss",
      "type": "date"
    },
    "operation": {
      "index": "not_analyzed",
      "type": "string"
    "status": {
    "type": "integer"
    "username": {
      "index": "not_analyzed",
"type": "string"
创建新的部署Profile example
  可选:创建git分支
  > git checkout -b example
> vim pom.xml
在project -> profiles元素下加入如下片段
  cprofile>
       <id>example</id>
       properties>
```

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```
<resources.active>0-example</resources.active>
       </properties>
  </profile>
保存退出vim
创建Profile resource文件夹
online-solr-collections/online-solr-collection-comment模块
 cp -r online-solr-collections/online-solr-collection-comment/
src/main/resources-4-production online-solr-collections/online-
solr-collection-comment/src/main/resources-0-example
online-solr-collections/online-solr-collection-item模块
> cp -r online-solr-collections/online-solr-collection-item/src/
main/resources-4-production online-solr-collections/online-solr-
collection-item/src/main/resources-0-example
online-index模块
  cp -r online-index/src/main/resources-4-production online-index/
src/main/resources-0-example
online-manage-console模块
> cp -r online-manage-console/src/main/resources-4-production
online-manage-console/src/main/resources-0-example
online-web/online-web-search模块
> cp -r online-web/online-web-search/src/main/resources-4-
production-pre online-web/online-web-search/src/main/resources-0-
example
profile配置文件
online-solr-collections/online-solr-collection-comment模块
> vim online-solr-collections/online-solr-collection-comment/src/
main/resources-0-example/index.zdp
  zkAddress=192.168.20.101:2181/solr
  dictPath=/com/wfj/search/segment/dicts
  extDicts=attribute.txt,brand.txt,category.txt
> vim online-solr-collections/online-solr-collection-comment/src/
main/resources-0-example/query.zdp
  zkAddress=192.168.20.101:2181/solr
  dictPath=/com/wfj/search/segment/dicts
  extDicts=attribute.txt,brand.txt,category.txt
online-solr-collections/online-solr-collection-item模块
> vim online-solr-collections/online-solr-collection-item/src/
main/resources-0-example/index.zdp
  zkAddress=192.168.20.101:2181/solr
  dictPath=/com/wfj/search/segment/dicts
  extDicts=attribute.txt,brand.txt,category.tx
vim online-solr-collections/online-solr-collection-item/src/
main/resources-0-example/query.zdp
  zkAddress=192.168.20.101:2181/solr
  dictPath=/com/wfj/search/segment/dicts
  extDicts=attribute.txt,brand.txt,category.txt
online-index模块
> vim online-index/src/main/resources-0-example/comment.properties
  comment.address=http://1.2.3.14/member-comment
```

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```
comment.uri.listCommentsByIds=/seek/getInCommentIds.do
注: comment.address 会员评论地址
> vim online-index/src/main/resources-0-example/es.properties
  es.index=online-search
  es.transportAddressList=192.168.20.101:9300,192.168.20.102:9300,
  192.168.20.103:9300
  es.clusterName=es
  es.operation.index=online-operation
> vim online-index/src/main/resources-0-example/mysql.properties
  mysql.address=jdbc:mysql://192.168.20.101:3306/search?
  characterEncoding=utf-8
  mysql.username=root
  mysql.password=MyPass!new2017
  mysql.initialSize=1
  mysql.minIdle=1
  mysql.maxActive=20
vim online-index/src/main/resources-0-example/pcm.properties
  pcm.address=http://1.2.3.4/pcm-inner-sdc
  pcm.uri.listItems=searchOnline/searchOnlinePageProInfo.htm
  pcm.uri.listItemsByItemId=searchOnline/
  searchOnlinePageProInfo.htm
  pcm.uri.getSkuInfo=searchOnline/searchOnlineSkuInfoByCode.htm
  pcm.uri.getSpuInfo=searchOnline/selectSpuByCode.htm
  pcm.uri.getBrandInfo=pcmInnerBrandSearch/
  searchOnlineBrandByCode.htm
  pcm.uri.getCategoryInfo=searchOnline/selectCategoryByCode.htm
  pcm.uri.listSkuIdBySpuId=searchOnline/searchSkuCodeBySpuCode.htm
  pcm.uri.listItemIdBySkuId=searchOnline/
  searchItemCodeBySkuCode.htm
  pcm.uri.listBrands=pcmInnerBrandSearch/searchOnlineAllBrand.htm
  pcm.uri.listSubCategories=searchOnline/
  selectCategoryByParent.htm
  pcm.uri.listSpuIdByBrandId=searchOnline/
  searchSpuCodeByBrandCode.htm
  pcm.uri.listSpuIdByCategoryId=searchOnline/
  selectSpuByCategory.htm
  pcm.uri.listItemPriceChanges=pcmprice/selectPriceByTimeFrame.htm
  pcm.uri.listItemOfActivity=searchOnline/selectProByActiveId.htm
  pcm.uri.listClosedActivities=pcmtag/getActiveByEndTimeFrame.htm
  pcm.uri.listActiveActivities=pcmtag/getActiveByTimePoint.htm
vim online-index/src/main/resources-0-example/redis.properties
  spring.redis.cluster.nodes=192.168.20.101:6379
  spring.redis.cluster.max-redirects=3
  spring.redis.cluster.password=
> vim online-index/src/main/resources-0-example/solr.properties
  solr.zkHost=192.168.20.101:2181/solr
 vim online-index/src/main/resources-0-example/wfj-
netty.properties
  system.setting.context-root=/online-index
  system.setting.context-name=online-index
```

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comment.uri.listCommentsWithPage=/seek/getCommentsAndPics.do

```
system.setting.context-code=40
  system.setting.context-desc='{'"version"\:"1.0",
  "name"\:"online-index", "desc":"online-index", "status"\:"{0}"}
  system.seeting.monitor.url=192.168.20.101:2181
  system.seeting.monitor.timeout=5000
  system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
> vim online-index/src/main/resources-0-example/
zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  monitor.register.namespace=/com/wfj/management/monitor/register
  monitor.register.appName=online-index
  coordinator.operation.namespace=/com/wfj/coordinator/operation
  discovery.basePath=/com/wfj/discovery
  operation.versionNoCounterPath=/com/wfj/counter/operation/
  online-index/versionNoCounter
online-manage-console模块
 vim online-manage-console/src/main/resources-0-example/
cms.properties
  cms.address=http://1.2.3.24/cms-admin
  cms.uri.getSiteList=/site/getSiteList.do
  cms.uri.getChannelListBySid=/channel/getChannelListBySid.do
注: cms.address CMS admin地址
> vim online-manage-console/src/main/resources-0-example/
es.properties
  es.index=online-search
  es.transportAddressList=192.168.20.101:9300,192.168.20.102:9300,
  192.168.20.103:9300
  es.clusterName=es
  es.operation.index=online-operation
  es.config.index=online-config
vim online-manage-console/src/main/resources-0-example/
mvsal.properties
  mysql.address=jdbc:mysql://192.168.20.101:3306/search?
  characterEncoding=utf-8
  mysql.username=root
  mysql.password=MyPass!new2017
  mysql.initialSize=1
  mysql.minIdle=1
  mvsql.maxActive=20
> vim online-manage-console/src/main/resources-0-example/online-
mc-rsaKey
  MIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwggSkAgEAAoIBAQCRB4B0N2yNdZt+
  5oTb8vB+S0BNTmSvCiU61ws33NhJZBimpJzzc9NHKvnmoN0n7N50eVvvOeH2s7AV
  MU+4bhS2b3R8iQiVIIi0oq7nmPkAnVmRzgRV51uVkzr7PyeW+dsY6YRzsbCET30c
```

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vnTs++E7Jgd0kv8bML6JSjRxzAL/

```
a7sYghDHj6OorQ4p+UJ4mb+R2SKJeJoEINI8ayhqaUVVuWno7/
  yNpKueXxohhjeCG9ZgTtu1KPe+2Ksn/zVCnzIlUUX9s//
  v9vAGqHWkBJnWHptzSm0ljlVQ2B3uEDMszDaG4tNQvadvMUiIj6o63665mNuEz9h
  jJkvtrstPK8p5AgMBAAECggEAdlJEfoxpR8/
  XmOTBKCFnNSCHvwpiJM8aKLMhN+Y5n0bGxc4vLoAksz+H49z6ucgKhcQtOTNkIz3
  ePgwIelN1GpI72w6Brgjo/
  1ZqlBC9tb6qQMZvyxYCJjoE0M8Boa8fDWgW47zoYknf7NWF14J38yXHl1gGQUy3Z
  pLfzge/
  GlqznkCfQkBMjl3G6pUhS2zK21OdgwdkDgXqKiEjGA6LZQxjS7Ly5bxbkg9nsO3M
  8rmapIdpr222myMjCWqip9xuocjWrc03mn0K59rYlkwUR8SJAiuFL0dW9n9oaYFU
  rf+DUysxr0RjUvODu7FlozNUaL2NHVEL8g62sOfKhP9PwQKBgQDH+3kJnO0mv1ni
  xmvEro95pwQVC/
  BvN3VcqjcLnXqvYpi98h5eCSKFVoEZqrUFs6BGCzujzCRUFwmzbPHA6wf4XdZbKO
  v2ELWXaswbgmeL/h8HMwSEc3QjGMrZT1dsST1xtmB1HmIxJKL/lsr06uQCwg/
  UQPUlEkAEgyOr5nWqJQKBgQC5p2ecWBVsMsxuebEYSGltPC00JRXWFcMcUwGpRaf
  1BToaf00De0MM82ADkKosdf0ZiLebAaGAKdb7WQHeDBls/
  87Cz42yKLLe0bnWjQ8NLJZWTTx4aFjNs8xjM2gjVktUXM0Jcs/
  Qpt9NfLVI6UmQNqM2Ng4FUxu/KDu97GOsxQKBgCpjN/
  V8qJuU5XV2vzLyGQEdEHVxkWXRaHPatE4m8/
  Emwd9I6XzfDM0cV8Lb9wCdYTRXfy2pwG1+cJTyW4+bgZX4Nc4er1z5j7PndBnNFa
  OLmoIJIOT7v7sMrzo+YfZW08o9cNaCOSfXbyEjkiM1gly/
  bUtc9VkFNEKAlVgDQh9tAoGBAKQ7cg29Yh4YBf6Iyl/
  31sOaIObos5tyHuqUh3ittPmsiQzbhAxOyVQwi7Q7qj6wjTE532pRFAQjfxlUULG
  UNH3XAZoWL3v2Qt2X2/
  TvTexSkB+CLcc6T6yQrHLpC+uOsA70DPAvT6V9qTaL5na8YKYhn1oakWamcXo15j
  uJvVcdAoGBAJmMMsfjOvFVn+TjFjhZK9rKkff+0iCICDgw3wgNTfj7ni4m8LRNMj
  EgBOCs/
  SAj1bdE2aB9YSqfDtzP+iipX0SnJQ6R7uDLS77gZT1Y6iBiXEvcEE76BdIpy7EmD
  pyuWHaBkh9DpdEeU5iDUJCNfnoxktG/JAa1Kb20090gATF+
注: 此内容应替换为为目标环境生成的online-manage-console operator RSK key pair 中的公钥内容
  vim online-manage-console/src/main/resources-0-example/
pcm.properties
  pcm.address=http://1.2.3.4/pcm-inner-sdc
  pcm.uri.listBrands=pcmInnerBrandSearch/searchOnlineAllBrand.htm
  pcm.uri.listCategoryByChannel=categorycontroller/
  getCateCodesByChannelCode.htm
  pcm.uri.listSubCategories=searchOnline/
  selectCategoryByParent.htm
  pcm.uri.getCategoryInfo=searchOnline/selectCategoryByCode.htm
  pcm.uri.listChannels=pcmChannelSearch/findListChannel.htm
  vim online-manage-console/src/main/resources-0-example/
redis.properties
  spring.redis.cluster.nodes=192.168.20.101:6379
  spring.redis.cluster.max-redirects=3
  spring.redis.cluster.password=
 vim online-manage-console/src/main/resources-0-example/wfj-
netty.propertie
  system.setting.context-root=/online-manage-console
  system.setting.context-name=online-manage-console
  system.setting.context-code=43
```

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```
system.setting.context-desc='{'"version"\:"1.0",
  "name"\:"online-manage-console", "desc":"online-manage-console",
  "status"\:"{0}"}
  system.seeting.monitor.url=192.168.20.101:2181
  system.seeting.monitor.timeout=5000
  system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
vim online-manage-console/src/main/resources-0-example/
zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  monitor.register.appName=online-manage-console
  monitor.register.namespace=/com/wfj/management/monitor/register
  discovery.basePath=/com/wfj/discovery
  operation.versionNoCounterPath=/com/wfj/counter/operation/
  online-index/versionNoCounter
  config.gp.sidGenPath=/com/wfj/counter/config/online-index/
  gpSidCounter
online-web/online-web-search模块
> vim online-web/online-web-search/src/main/resources-0-example/
cart.properties
  cart.getCartNumUrl=http://1.2.3.34/wfj-trade-service/shopCar/
  getCartNum/
  cart.cartPageUrl=http://cart.wangfujing.com/wfj-trade-web/
  cart.htm
注:cart.getCartNumUrl 获取购物车商品数接口地址;cart.cartPageUrl 网站访问者打开购物车页面
跳转的URL
vim online-web/online-web-search/src/main/resources-0-example/
cookie.properties
  cookie.domain=wangfujing.com
注: cookie使用的域名
> vim online-web/online-web-search/src/main/resources-0-example/
es.properties
  es.index=online-search
  es.transportAddressList=192.168.20.101:9300,192.168.20.102:9300,
  192.168.20.103:9300
  es.clusterName=es
  es.config.index=online-config
vim online-web/online-web-search/src/main/resources-0-example/
hosts.properties
  search.host.searchHost=search.wangfujing.com
  search.host.brandHost=brand.wangfujing.com
  search.host.listHost=list.wangfujing.com
注: 关键字搜索、品牌商品列表、分类商品列表域名
> vim online-web/online-web-search/src/main/resources-0-example/
member.properties
  member.location=https://member.wangfujing.com
```

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```
member.domainName=search.wangfujing.com
  member.url=http://10.6.3.171//member-core/interface/
  member.login=https://member.wangfujing.com/ssoLogin2.do
  member.logout=https://member.wangfujing.com/ssoLogout2.do
  member.register=https://member.wangfujing.com/ssoRegister2.do
  member.homeUrl=https://member.wangfujing.com/home
  concern.itemPageUrl=https://member.wangfujing.com/memberCollect/
  get/1?type=0
注:依次为会员中心前台地址、MemberSDK domainName、MemberSDK url、会员登录地址前
缀、会员退出登录地址前缀、会员注册地址前缀、会员中心地址、订单页面地址。修改后替换
member_privateKey.dat、member_publicKey.dat为会员为当前环境提供的密钥对
 vim online-web/online-web-search/src/main/resources-0-example/
mvsql.properties
  mysql.address=jdbc:mysql://192.168.20.101:3306/search?
  characterEncoding=utf-8
  mvsql.username=root
  mysql.password=MyPass!new2017
  mysql.initialSize=1
  mysql.minIdle=1
  mvsql.maxActive=20
> vim online-web/online-web-search/src/main/resources-0-example/
redis.properties
  spring.redis.cluster.nodes=192.168.20.101:6379
  spring.redis.cluster.max-redirects=3
  spring.redis.cluster.password=
vim online-web/online-web-search/src/main/resources-0-example/
search config.properties
  # 搜索前台缓存超时时间,单位ms
  search.config.defaultCacheExpiration=30000
  # 电商渠道号, 默认0, 无需修改
  search.config.channel=0
  # solr 查询参数 tie, 默认0.1 无需修改
  search.config.default.tie=0.1
  # solr 查询参数 qf
  search.config.default.qf=\
  colorName^0.5 \
  colorAlias^0.5 \
  standardName^0.5 \
  spuName^5 \
  title^5 \
  subTitle^5 \
  activeKeywords^5 \
  activeName^4 \
  model^5 \
  aliases^5 \
  brandName^10 \
  brandAliases^9 \
  allLevelCategoryNames {channel}^10 \
  tags^5 \
  propertyValues {channel}^1 \
```

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```
itemId^1 skuId^1 spuId^1
# solr查询参数 qs
search.config.default.qs=100
# solr查询参数 mm
search.config.default.mm=2<-25% 9<-3</pre>
# solr查询参数ba
#search.config.default.bq=activeId:* upTime:[NOW/DAY-1YEAR TO
NOW/DAY1
search.config.default.bq=activeId:*
# 搜索无结果各推荐结果下展示商品数量
search.config.default.simpleRows=4
# 搜索结果每页商品数
search.config.webRows=40
# www 地址
search.config.wwwLocation=http://www.wangfujing.com
# 关键字搜索域名
search.config.searchLocation=http://search.wangfujing.com
# 品牌商品列表域名
search.config.brandLocation=http://brand.wangfujing.com
# 分类商品列表域名
search.config.listLocation=http://list.wangfujing.com
# CSS主机列表
search.config.cssHosts=http://img.wfjimg.com,http://
img1.wfjimg.com,http://img2.wfjimg.com,http://img3.wfjimg.com
# CSS地址模板
search.config.cssLocationTemplate={host}/wfj ec2/data/s/css
# 图片主机列表
search.config.imageHosts=http://img.wfjimg.com,http://
img1.wfjimg.com,http://img2.wfjimg.com,http://img3.wfjimg.com
# 图片地址模板
search.config.imageLocationTemplate={host}
# JS主机列表
search.config.jsHosts=http://img.wfjimg.com,http://
img1.wfjimg.com,http://img2.wfjimg.com,http://img3.wfjimg.com
# JS模板列表
search.config.jsLocationTemplate={host}/wfj ec2/data/s/js
search.config.www.jsHosts=http://img.wfjimg.com,http://
img1.wfjimg.com,http://img2.wfjimg.com,http://img3.wfjimg.com
search.config.www.jsLocationTemplate={host}/wfj ec2/data/site/
www.wangfujing.com
# 分页页码条长度
search.pagination.num display entries=5
# CMS tbar html块 内网地址
search.config.htmlTbarUri=http://127.0.0.1:8080/tbar.html
# CMS header html块 内网地址
search.config.htmlHeaderUri=http://127.0.0.1:8080/header.html
# CMS 弹出展示分类 html块 地址
```

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```
search.config.htmlNavigationUri=http://www.wangfujing.com/
  navgation/getNavStream.jhtml?_site_id_param=2
  # 首页跳转地址
  search.config.htmlNavigationHeaderHost=www.wangfujing.com
  # CMS footer html块 内网地址
  search.config.htmlFooterUri=http://127.0.0.1:8080/footer.html
  # 商品跳转地址前缀
  search.config.itemUrlPrefix=http://www.wangfujing.com/item/
  # 商品跳转地址后缀
  search.config.itemUrlPostfix=.jhtml
  # 猜你喜欢 展示商品数
  search.config.mayLikeRows=10
  # www 站点ID
  search.config.web.default.site=141
  # 首页 频道ID
  search.config.web.default.channel=234
  # 最新上架列表页 上架时间限制 单位: 天
  search.config.new.products.date.from=100
vim online-web/online-web-search/src/main/resources-0-example/
solr.properties
  solr.zkHost=192.168.20.101:2181/solr
  segment.dictPath=/com/wfj/search/segment/dicts
 vim online-web/online-web-search/src/main/resources-0-example/
wfj-netty.properties
  system.setting.context-root=/online-web-search
  system.setting.context-name=online-web-search
  system.setting.context-code=42
  system.setting.context-desc='{'"version"\:"1.0",
  "name"\:"online-web-search", "desc":"online-web-search",
  "status"\:"{0}"}
  system.seeting.monitor.url=192.168.20.101:2181
  system.seeting.monitor.timeout=5000
  system.seeting.monitor.isDebug=false
  system.setting.interface.name=eth0
  system.setting.kafka.bootstrap.servers=1.2.3.4:9092
  system.setting.kafka.acks=1
  system.setting.kafka.retries=0
  system.setting.kafka.batch.size=16384
  system.setting.kafka.sql.topic=sql-info
 vim online-web/online-web-search/src/main/resources-0-example/
zookeeper.properties
  monitor.zkAddresses=192.168.20.101:2181/search
  monitor.register.namespace=/com/wfj/management/monitor/register
  monitor.register.appName=searchService
  discovery.basePath=/com/wfj/discovery
```

> mvn clean package -DskipTests=true -P example

创建Solr Colletions

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```
upconfig online-comment
 /data/solr/solr-5.3.0/server/scripts/cloud-scripts/zkcli.sh -
zkhost 192.168.20.101:2181/solr -cmd upconfig -d ~/package/online-
searching/online-solr-collections/online-solr-collection-comment/
target/conf -n online-comment
upconfig online-item
  /data/solr/solr-5.3.0/server/scripts/cloud-scripts/zkcli.sh -
zkhost 192.168.20.101:2181/solr -cmd upconfig -d ~/package/online-
searching/online-solr-collections/online-solr-collection-item/
target/conf -n online-item
upconfig online-suggestion
  /data/solr/solr-5.3.0/server/scripts/cloud-scripts/zkcli.sh -
zkhost 192.168.20.101:2181/solr -cmd upconfig -d ~/package/online-
searching/online-solr-collections/online-solr-collection-
suggestion/target/conf -n online-suggestion
create collection online-comment
 curl -X GET 'http://192.168.20.101:8983/solr/admin/collections?
action=CREATE&name=online-
comment&numShards=1&replicationFactor=1&maxShardsPerNode=1&createN
odeSet=192.168.20.101%3A8983 solr&collection.configName=online-
comment'
create collection online-item
  curl -X GET 'http://192.168.20.101:8983/solr/admin/collections?
action=CREATE&name=online-
item&numShards=1&replicationFactor=1&maxShardsPerNode=1&createNode
Set=192.168.20.101%3A8983 solr&collection.configName=online-item'
create collection online-suggestion
> curl -X GET 'http://192.168.20.101:8983/solr/admin/collections?
action=CREATE&name=online-
suggestion&numShards=1&replicationFactor=1&maxShardsPerNode=1&crea
teNodeSet=192.168.20.101%3A8983 solr&collection.configName=online-
suggestion'
复制war包到部署位置
> mkdir -p /data/online-search/webapps
> cp ~/package/online-searching/online-index/target/online-
index-1.0.37.RELEASE.war /data/online-search/webapps/
> cp ~/package/online-searching/online-manage-console/target/
online-manage-console-1.0.37.RELEASE.war /data/online-search/
webapps/
> cp ~/package/online-searching/online-web/online-web-search/
target/online-web-search-1.0.37.RELEASE.war /data/online-search/
webapps/
准备Web容器,以tomcat为例
下载并解压
> curl -L http://mirrors.tuna.tsinghua.edu.cn/apache/tomcat/
tomcat-8/v8.5.14/bin/apache-tomcat-8.5.14.tar.gz -o /data/online-
search/apache-tomcat-8.5.14.tar.gz
> tar xzvf /data/online-search/apache-tomcat-8.5.14.tar.gz -C /
data/online-search/
 rm -f /data/online-search/apache-tomcat-8.5.14.tar.gz
```

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修改server.xml修改端口号

> vim /data/online-search/apache-tomcat-8.5.14/conf/server.xml 修改内容略. 这里修改为4080、4005、4009等

注:此示例将会部署index、manage-console、search模块至同一容器下,均为单实例部署。如需单独实例或集群部署可参考此示例,使用不同端口/机器/单独部署描述文件方式部署。

#### 创建部署描述文件

type="java.lang.Integer" override="false"/>
</Context>

### > vim /data/online-search/apache-tomcat-8.5.14/conf/Catalina/ localhost/online-manage-console.xml

### > vim /data/online-search/apache-tomcat-8.5.14/conf/Catalina/ localhost/ROOT.xml

```
<Context docBase="/data/online-search/webapps/online-web-
search-1.0.37.RELEASE.war" path="" reloadable="false">
        <Environment name="service/host" value="192.168.20.101"
type="java.lang.String" override="false"/>
        <Environment name="service/port" value="4080"
type="java.lang.Integer" override="false"/>
    </Context>
```

#### 清空自带应用

```
> mv /data/online-search/apache-tomcat-8.5.14/webapps /data/
online-search/apache-tomcat-8.5.14/webapps.origin
> mkdir /data/online-search/apache-tomcat-8.5.14/webapps
```

#### 确认ZooKeeper chroot ZNode存在

# > /data/zookeeper/zookeeper-3.4.6/bin/zkCli.sh

u有search,quil退出 否则

create /search "

#### 启动并验证部署

### > /data/online-search/apache-tomcat-8.5.14/bin/startup.sh

数秒后在本地浏览器中查看:

http://192.168.20.101:4080/online-index/status.json

http://192.168.20.101:4080/online-manage-console/status.json

http://192.168.20.101:4080/status.json

如有正常JSON响应则部署成功

注:如日志中出现无法找到MySQL表的情况,查找~/package/online-searching/sql下的sql 文件,使用其中对应的建表语句创建之

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