



使用filebeat收集java多行日志

收集java多行日志

```
vim /etc/filebeat/filebeat.yml
filebeat.inputs:
  - type: log
  enabled: true
```

```
paths:
    - /var/log/elasticsearch/elasticsearch.log

multiline.pattern: ^\[
multiline.negate: true
multiline.match: after

uoutput.elasticsearch:
hosts: ["10.0.0.51:9200"]
index: "es-%{[agent.version]}-%{+yyyy.MM}"

setup.ilm.enabled: false
setup.template.enabled: false
logging.level: info
logging.to_files: true
```

使用Redis作为EBK缓存

1.修改nginx修改为json格式

```
systemctl stop nginx

// var/log/nginx/access.log

// vim /etc/nginx/nginx.conf

// access_log /var/log/nginx/access.log json;

// systemctl restart nginx

// curl 127.0.0.1

// cat /var/log/nginx/access.log
```

2.安装部署redis 两台都装

```
1 yum install redis -y
2 sed -i 's#^bind 127.0.0.1#bind 127.0.0.1 10.0.0.51#'
/etc/redis.conf
```

```
3 systemctl restart redis
4 redis-cli -h 10.0.0.51
```

3.修改filebeat配置文件

```
1 cat > /etc/filebeat/filebeat.yml << 'EOF'</pre>
2 filebeat.inputs:
3 - type: log
  enabled: true
  paths:
6 - /var/log/nginx/access.log
  json.keys_under_root: true
8 json.overwrite_keys: true
9 tags: ["access"]
11 - type: log
12 enabled: true
   paths:
- /var/log/nginx/error.log
   tags: ["error"]
17 output.redis:
  hosts: ["10.0.0.51"]
   keys:
o - key: "nginx access"
21 when.contains:
tags: "access"
23 - key: "nginx_error"
  when.contains:
  tags: "error"
27 setup.ilm.enabled: false
28 setup.template.enabled: false
30 logging.level: info
31 logging.to_files: true
```

```
32 EOF
33 systemctl restart filebeat
```

4.生成测试数据

```
1 for i in {0..100};do curl -s 127.0.0.1;done
```

5.查看redis数据

#查看有多少KEY

```
1 10.0.0.51:6379> keys *
2 1) "nginx_error"
3 2) "nginx_access"
```

#查看数据类型

```
1 10.0.0.51:6379> TYPE nginx_access
2 list
```

#查看列表有多长

```
1 10.0.0.51:6379> LLEN nginx_access
2 (integer) 1001
```

#查看列表元素

```
1 10.0.0.51:6379> LRANGE nginx_access 0 10
```

6.安装logstash

把两个rpm、包拉进来

```
1 rpm -ivh jdk-8u181-linux-x64.rpm
2 rpm -ivh logstash-7.9.1.rpm
```

7.编写logstash配置文件

```
1 cat >/etc/logstash/conf.d/redis.conf << 'EOF'
2 input {
3 redis {</pre>
```

```
host => "10.0.0.51"
   port => "6379"
  db => "0"
  key => "nginx_access"
  data_type => "list"
  redis {
  host => "10.0.0.51"
   port => "6379"
13 db => "0"
  key => "nginx_error"
15 data_type => "list"
19 output {
  stdout {}
if "access" in [tags] {
22 elasticsearch {
23 hosts => "http://10.0.0.51:9200"
   manage_template => false
   index => "nginx_access-%{+yyyy.MM}"
  if "error" in [tags] {
   elasticsearch {
   hosts => "http://10.0.0.51:9200"
   manage_template => false
   index => "nginx_error-%{+yyyy.MM}"
34 }
35 }
36 EOF
```

1 /usr/share/logstash/bin/logstash -f /etc/logstash/conf.d/redis.c onf

9.测试成功后使用systemd启动

```
systemctl start logstash.service
systemctl status logstash.service
```

10.优化配置文件

#优化filebeat配置文件

```
1 cat > /etc/filebeat/filebeat.yml << 'EOF'</pre>
2 filebeat.inputs:
3 - type: log
4 enabled: true
5 paths:
6 - /var/log/nginx/access.log
  json.keys under root: true
8 json.overwrite keys: true
9 tags: ["access"]
11 - type: log
  enabled: true
paths:
  - /var/log/nginx/error.log
   tags: ["error"]
17 output.redis:
18 hosts: ["10.0.0.51"]
19 key: "nginx"
21 setup.ilm.enabled: false
22 setup.template.enabled: false
24 logging.level: info
25 logging.to_files: true
```

```
26 EOF
27 systemctl restart filebeat
```

#优化logstash配置文件

```
1 cat >/etc/logstash/conf.d/redis.conf << 'EOF'</pre>
2 input {
3 redis {
4 host => "10.0.0.51"
5 port => "6379"
6 db => "0"
7 key => "nginx"
8 data_type => "list"
12 output {
13 stdout {}
if "access" in [tags] {
15 elasticsearch {
hosts => "http://10.0.0.51:9200"
17 manage_template => false
index => "nginx_access-%{+yyyy.MM}"
if "error" in [tags] {
22 elasticsearch {
23 hosts => "http://10.0.0.51:9200"
24 manage_template => false
  index => "nginx_error-%{+yyyy.MM}"
29 EOF
```

11.多个redis备份

#filebeat读取多个redis

```
1 cat > /etc/filebeat/filebeat.yml << 'EOF'</pre>
2 filebeat.inputs:
3 - type: log
4 enabled: true
5 paths:
6 - /var/log/nginx/access.log
  json.keys under root: true
  json.overwrite_keys: true
9 tags: ["access"]
11 - type: log
12 enabled: true
13 paths:
- /var/log/nginx/error.log
   tags: ["error"]
17 output.redis:
  hosts: ["10.0.0.51","10.0.0.7"]
  key: "nginx"
21 setup.ilm.enabled: false
22 setup.template.enabled: false
24 logging.level: info
25 logging.to_files: true
26 EOF
```

#logstash读取多个redis

```
1 cat >/etc/logstash/conf.d/redis.conf << 'EOF'
2 input {
3  redis {
4  host => "10.0.0.51"
5  port => "6379"
```

```
db => "0"
  key => "nginx"
8 data_type => "list"
10 }
12 input {
  redis {
14 host => "10.0.0.7"
  port => "6379"
16 db => "0"
17 key => "nginx"
18 data_type => "list"
21 output {
   stdout {}
if "access" in [tags] {
24 elasticsearch {
25 hosts => "http://10.0.0.51:9200"
26 manage_template => false
   index => "nginx_access-%{+yyyy.MM}"
  if "error" in [tags] {
  elasticsearch {
  hosts => "http://10.0.0.51:9200"
manage_template => false
   index => "nginx_error-%{+yyyy.MM}"
36 }
37 }
38 EOF
```

使用kafka作为缓存

1.配置hosts和密钥 三台机子都操作

```
1 cat >/etc/hosts<<EOF
2 10.0.0.51 db-51
3 10.0.0.52 db-52
4 10.0.0.53 db-53
5 EOF
1 ssh-keygen
2 ssh-copy-id 10.0.0.52
3 ssh-copy-id 10.0.0.53</pre>
```

2.安装配置zookeeper

#db51操作

```
1 cd /data/soft
2 tar zxf zookeeper-3.4.11.tar.gz -C /opt/
3 ln -s /opt/zookeeper-3.4.11/ /opt/zookeeper
4 mkdir -p /data/zookeeper
5 cp /opt/zookeeper/conf/zoo sample.cfg /opt/zookeeper/conf/zoo.cf
6 cat >/opt/zookeeper/conf/zoo.cfg<<EOF</pre>
7 tickTime=2000
8 initLimit=10
9 syncLimit=5
10 dataDir=/data/zookeeper
11 clientPort=2181
12 server.1=10.0.0.51:2888:3888
13 server.2=10.0.0.52:2888:3888
14 server.3=10.0.0.53:2888:3888
15 EOF
1 echo "1" > /data/zookeeper/myid
2 cat /data/zookeeper/myid
scp -r /opt/zookeeper* 10.0.0.52:/opt/
4 scp -r /opt/zookeeper* 10.0.0.53:/opt/
```

#db52操作

```
1 mkdir -p /data/zookeeper
2 echo "2" > /data/zookeeper/myid
3 cat /data/zookeeper/myid
```

#db53操作

```
mkdir -p /data/zookeeper
echo "3" > /data/zookeeper/myid
cat /data/zookeeper/myid
```

3.所有节点启动zookeeper

1 /opt/zookeeper/bin/zkServer.sh start

4.每个节点都检查

1 /opt/zookeeper/bin/zkServer.sh status

5.测试zookeeper

在一个节点上执行,创建一个频道

```
1 /opt/zookeeper/bin/zkCli.sh -server 10.0.0.51:2181
2 create /test "hello"
```

在其他节点上看能否接收到

```
// /opt/zookeeper/bin/zkCli.sh -server 10.0.0.52:2181
// get /test
```

6.安装部署kafka

#db51操作

```
1 cd /data/soft/
2 tar zxf kafka_2.11-1.0.0.tgz -C /opt/
3 ln -s /opt/kafka_2.11-1.0.0/ /opt/kafka
4 mkdir /opt/kafka/logs
5 cat >/opt/kafka/config/server.properties<<EOF</pre>
```

```
6 broker.id=1
7 listeners=PLAINTEXT://10.0.0.51:9092
8 num.network.threads=3
9 num.io.threads=8
socket.send.buffer.bytes=102400
socket.receive.buffer.bytes=102400
socket.request.max.bytes=104857600
13 log.dirs=/opt/kafka/logs
14 num.partitions=1
15 num.recovery.threads.per.data.dir=1
16 offsets.topic.replication.factor=1
17 transaction.state.log.replication.factor=1
18 transaction.state.log.min.isr=1
19 log.retention.hours=24
20 log.segment.bytes=1073741824
21 log.retention.check.interval.ms=300000
zookeeper.connect=10.0.0.51:2181,10.0.0.52:2181,10.0.0.53:2181
23 zookeeper.connection.timeout.ms=6000
24 group.initial.rebalance.delay.ms=0
25 EOF
scp -r /opt/kafka* 10.0.0.52:/opt/
2 scp -r /opt/kafka* 10.0.0.53:/opt/
```

#db52操作

```
sed -i "s#10.0.0.51:9092#10.0.0.52:9092#g" /opt/kafka/config/ser
ver.properties
sed -i "s#broker.id=1#broker.id=2#g" /opt/kafka/config/server.pr
operties
```

#db53操作

```
sed -i "s#10.0.0.51:9092#10.0.0.53:9092#g" /opt/kafka/config/ser
ver.properties
sed -i "s#broker.id=1#broker.id=3#g" /opt/kafka/config/server.pr
operties
```

7.前台启动测试

1 /opt/kafka/bin/kafka-server-start.sh /opt/kafka/config/server.pr
operties

8.验证进程

1 jps

9.测试创建topic

```
// /opt/kafka/bin/kafka-topics.sh --create --zookeeper 10.0.0.51:21
81,10.0.0.52:2181,10.0.0.53:2181 --partitions 3 --replication-fact
or 3 --topic kafkatest
```

10.测试获取toppid

```
1 /opt/kafka/bin/kafka-topics.sh --describe --zookeeper
10.0.0.51:2181,10.0.0.52:2181,10.0.0.53:2181 --topic kafkatest
```

11.测试删除topic

```
1 /opt/kafka/bin/kafka-topics.sh --delete --zookeeper 10.0.0.51:21
81,10.0.0.52:2181,10.0.0.53:2181 --topic kafkatest
```

12.kafka测试命令发送消息

#1.创建命令

```
// /opt/kafka/bin/kafka-topics.sh --create --zookeeper 10.0.0.51:21
81,10.0.0.52:2181,10.0.0.53:2181 --partitions 3 --replication-fact
or 3 --topic messagetest
```

#2.测试发送消息

```
1 /opt/kafka/bin/kafka-console-producer.sh --broker-list
10.0.0.51:9092,10.0.0.52:9092,10.0.0.53:9092 --topic messagetest
```

#3.其他节点测试接收

```
1 /opt/kafka/bin/kafka-console-consumer.sh --zookeeper 10.0.0.51:2
181,10.0.0.52:2181,10.0.0.53:2181 --topic messagetest --from-beginning
```

#4.测试获取所有的频道

```
1 /opt/kafka/bin/kafka-topics.sh --list --zookeeper
10.0.0.51:2181,10.0.0.52:2181,10.0.0.53:2181
```

13.测试成功之后,可以放在后台启动

1 /opt/kafka/bin/kafka-server-start.sh -daemon /opt/kafka/config/s
erver.properties

14.修改filebeat配置文件

```
1 cat >/etc/filebeat/filebeat.yml << 'EOF'</pre>
2 filebeat.inputs:
3 - type: log
4 enabled: true
5 paths:
6 - /var/log/nginx/access.log
  tags: ["access"]
9 - type: log
   enabled: true
   paths:
  - /var/log/nginx/error.log
   tags: ["error"]
15 output.kafka:
  hosts: ["10.0.0.51:9092", "10.0.0.52:9092", "10.0.0.53:9092"]
  topic: 'filebeat'
19 setup.ilm.enabled: false
20 setup.template.enabled: false
21 EOF
```

15.修改logstash配置文件

```
cat >/etc/logstash/conf.d/kafka.conf <<EOF
input {
  kafka{</pre>
```

```
bootstrap servers=>["10.0.0.51:9092,10.0.0.52:9092,10.0.0.53:90
92"]
  topics=>["filebeat"]
  #group id=>"logstash"
  codec => "json"
11 output {
   stdout {}
   if "access" in [tags] {
   elasticsearch {
   hosts => "http://10.0.0.51:9200"
   manage_template => false
   index => "nginx_access-%{+yyyy.MM}"
  if "error" in [tags] {
   elasticsearch {
  hosts => "http://10.0.0.51:9200"
  manage_template => false
  index => "nginx error-%{+yyyy.MM}"
27 }
28 EOF
```

16.启动logstash并测试

#1.前台启动

```
1 /usr/share/logstash/bin/logstash -f /etc/logstash/conf.d/kafka.c
onf
```

#2.后台启动

```
1 systemctl start logstash
```