

报错:

```
to connect to Elasticsearch. Error: [resource_already_exists_exception] index [.kibana_1/Bgdqs6n0TM2B6SR0ximnxg] already exists, with { index_uuid=\"Bgdqs6n0TM2B6SR0ximnxg\" & index=\".kibana_1\" }"}
Jul 15 10:56:46 db-51 kibana[1307]: {"type": "log", "@timestamp": "2021-07-15T02:56:46Z", "tags": ["warning", "savedobjects-service"], "pid": 1307, "message": "Another Kibana instance appears to be migrating the index. Waiting for that migration to complete. If no other Kibana instance is attempting migrations, you can get past this message by deleting index .kibana_1 and restarting Kibana."}
[root@db-51 ~]#
```

登录kibana页面一直显示

← → ↻ ⚠ 不安全 | 10.0.0.51:5601

Kibana server is not ready yet

不小心删除了kibana页面的所有索引，然后登录不进去

解决：删掉之前的elasticsearch目录和kibana目录，重新生成日志

```
1 systemctl stop elasticsearch.service
2 rm -rf /var/lib/elasticsearch/*
3 systemctl restart elasticsearch.service
4 systemctl stop kibana.service
5 rm -rf /var/lib/kibana/*
6 systemctl start kibana
```

再重新登录kibana页面就好了

使用filebeat区分不同日志索引

目前还不太完善的地方

1. 访问日志和错误日志混在一起了
2. 访问日志的格式和错误日志也不一样

我们期望的结果:

nginx-access-7.9.1-2021.07

nginx-error-7.9.1-2021.07

filebeat配置文件:

```
1 vim /etc/filebeat/filebeat.yml
2 filebeat.inputs:
3 - type: log
4   enabled: true
5   paths:
6 - /var/log/nginx/access.log
```

```

7  json.keys_under_root: true
8  json.override_keys: true
9
10 - type: log
11   enabled: true
12   paths:
13     - /var/log/nginx/error.log
14
15 output.elasticsearch:
16   hosts: ["10.0.0.51:9200"]
17   indices:
18     - index: "nginx-access-%[agent.version]}-%{+yyyy.MM}"
19     when.contains:
20       log.file.path: "/var/log/nginx/access.log"
21     - index: "nginx-error-%[agent.version]}-%{+yyyy.MM}"
22     when.contains:
23       log.file.path: "/var/log/nginx/error.log"
24
25 setup.ilm.enabled: false
26 setup.template.enabled: false
27
28 logging.level: info
29 logging.to_files: true
30 logging.files:
31   path: /var/log/filebeat
32   name: filebeat
33   keepfiles: 7
34   permissions: 0644

```

使用ES-pipeline转换Nginx普通日志

0.grok转换语法:

```

1  127.0.0.1 ==> %{IP:clientip}
2  - ==> -

```

```

3 - ==> -
4 [08/Oct/2020:16:34:40 +0800] ==> \[%
  {HTTPDATE:nginx.access.time}\%
5 "GET / HTTP/1.1" ==> "%{DATA:nginx.access.info}"
6 200 ==> %{NUMBER:http.response.status_code:long}
7 5 ==> %{NUMBER:http.response.body.bytes:long}
8 "-" ==> "(-|{%{DATA:http.request.referrer}})"
9 "curl/7.29.0" ==> "(-|{%{DATA:user_agent.original}})"
10 "-" ==> "(-|{%{IP:clientip}})"

```

1.修改nginx日志为普通格式

```

1 systemctl stop filebeat
2 > /var/log/nginx/access.log
3 vim /etc/nginx/nginx.conf
4 systemctl restart nginx
5 curl 127.0.0.1
6 cat /var/log/nginx/access.log

```

2.创建ES的pipeline

```

1 GET _ingest/pipeline
2 PUT _ingest/pipeline/pipeline-nginx-access
3 {
4   "description" : "nginx access log",
5   "processors": [
6     {
7       "grok": {
8         "field": "message",
9         "patterns": ["%{IP:clientip} - - \[%{HTTPDATE:nginx.access.time}\% \[%{DATA:nginx.access.info}\%\" %{NUMBER:http.response.status_code:long} %{NUMBER:http.response.body.bytes:long} \"(-|{%{DATA:http.request.referrer}})\%\" \"(-|{%{DATA:user_agent.original}})\%\""]
10      }
11    },{
12      "remove": {
13        "field": "message"

```

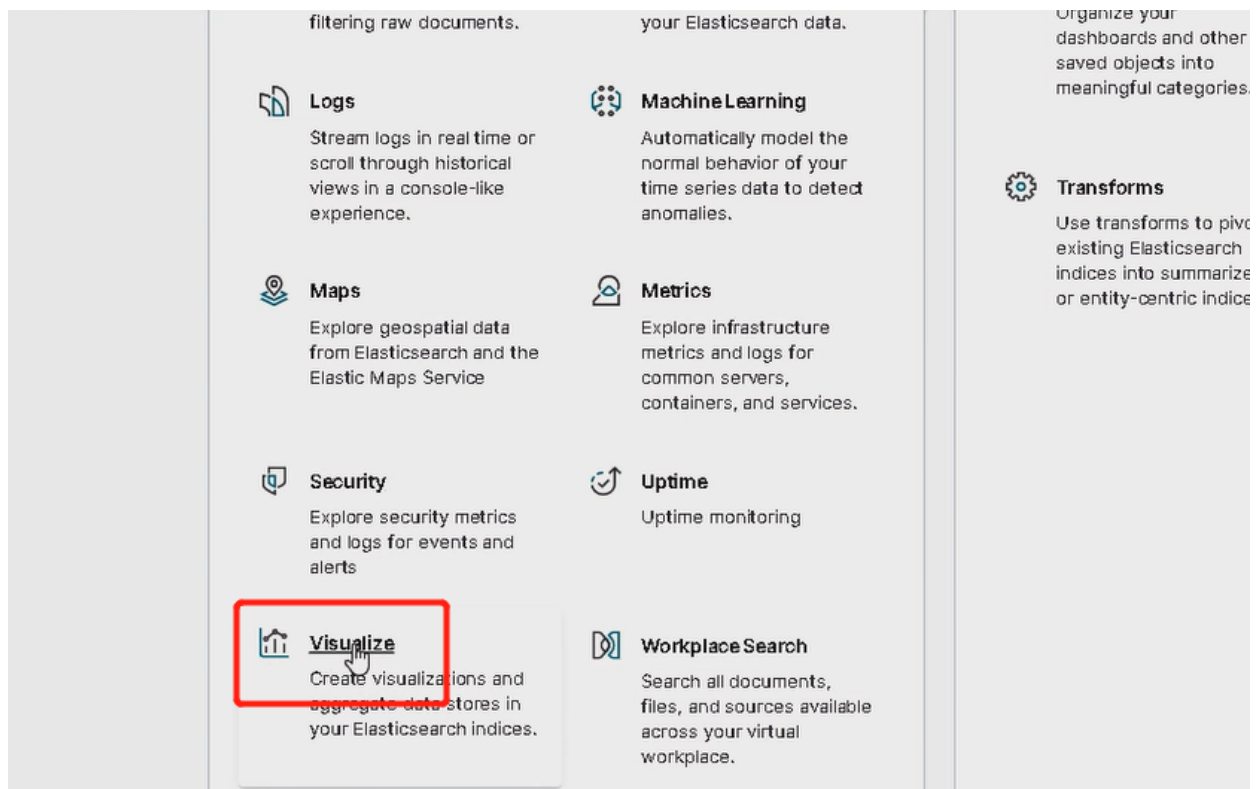
```
14  }
15  }
16  ]
17  }
```

3.修改filebeat配置文件

```
1 vim /etc/filebeat/filebeat.yml
2 filebeat.inputs:
3   - type: log
4     enabled: true
5     paths:
6       - /var/log/nginx/access.log
7     tags: ["access"]
8
9   - type: log
10     enabled: true
11     paths:
12       - /var/log/nginx/error.log
13     tags: ["error"]
14
15 processors:
16   - drop_fields:
17     fields: ["ecs","log"]
18
19 output.elasticsearch:
20   hosts: ["10.0.0.51:9200"]
21
22 pipelines:
23   - pipeline: "pipeline-nginx-access"
24     when.contains:
25       tags: "access"
26
27   indices:
28     - index: "nginx-access-%[agent.version]}-%{+yyyy.MM}"
29     when.contains:
```

```
30 tags: "access"
31
32 - index: "nginx-error-%[agent.version]}-%{+yyyy.MM}"
33 when.contains:
34 tags: "error"
35
36 setup.ilm.enabled: false
37 setup.template.enabled: false
38
39 logging.level: info
40 logging.to_files: true
```

使用kibana绘制日志面板



Visualizations

+ Create visualization

Search...

<input type="checkbox"/>	Title	Type	Description	Actions
<input type="checkbox"/>	[Flights] Airline Carrier	Pie		
<input type="checkbox"/>	[Flights] Airport Connections (Hover Over Airport)	Vega		
<input type="checkbox"/>	[Flights] Average Ticket Price	Metric		

New Horizontal Bar / Choose a source

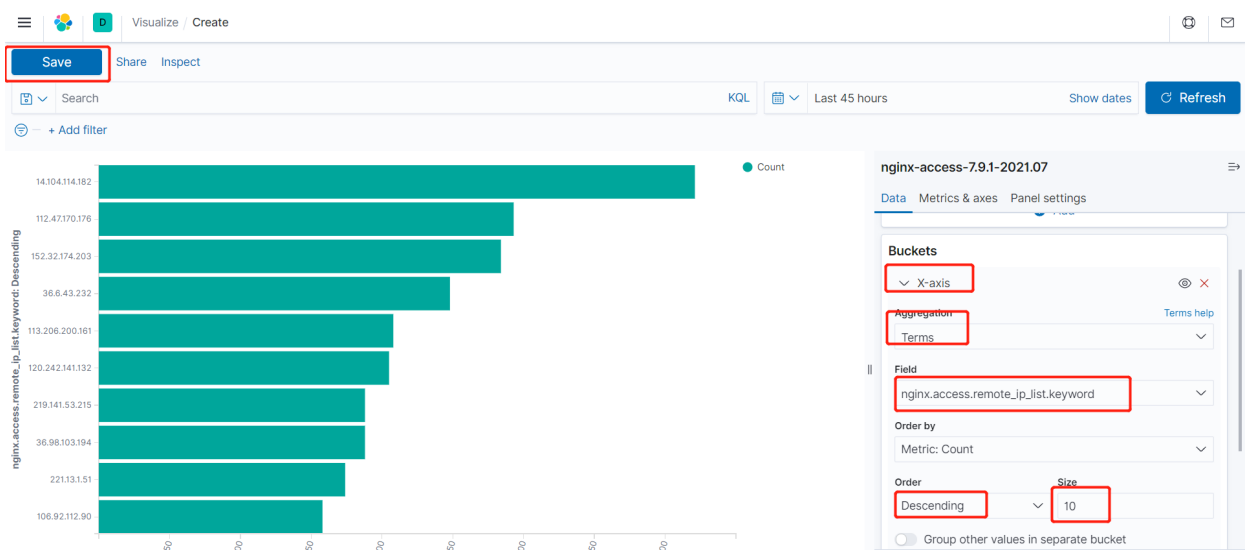
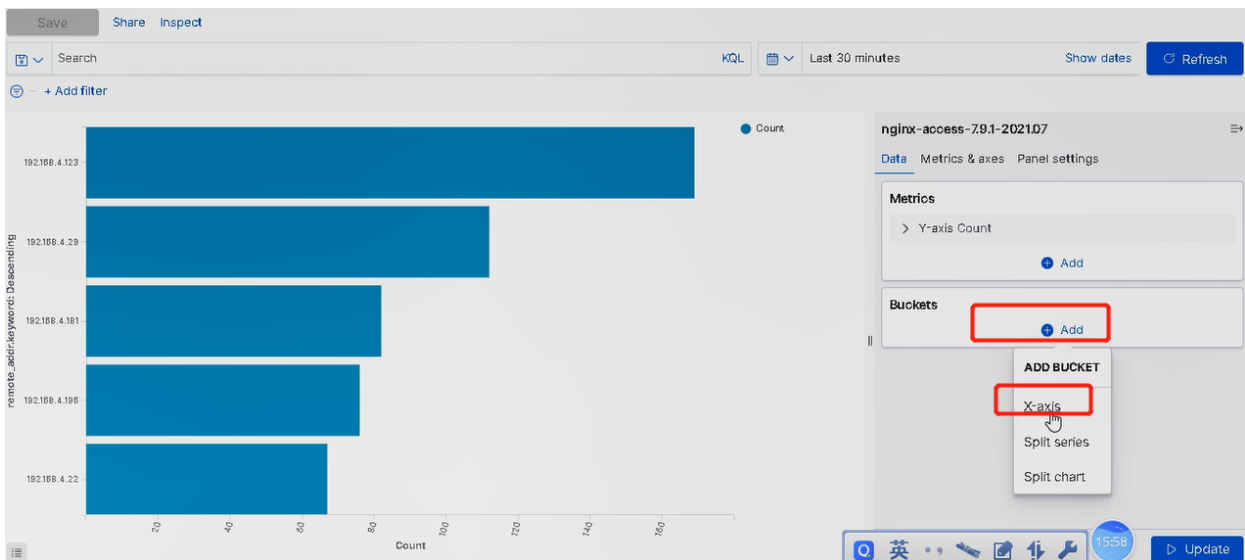
Search...

Sort

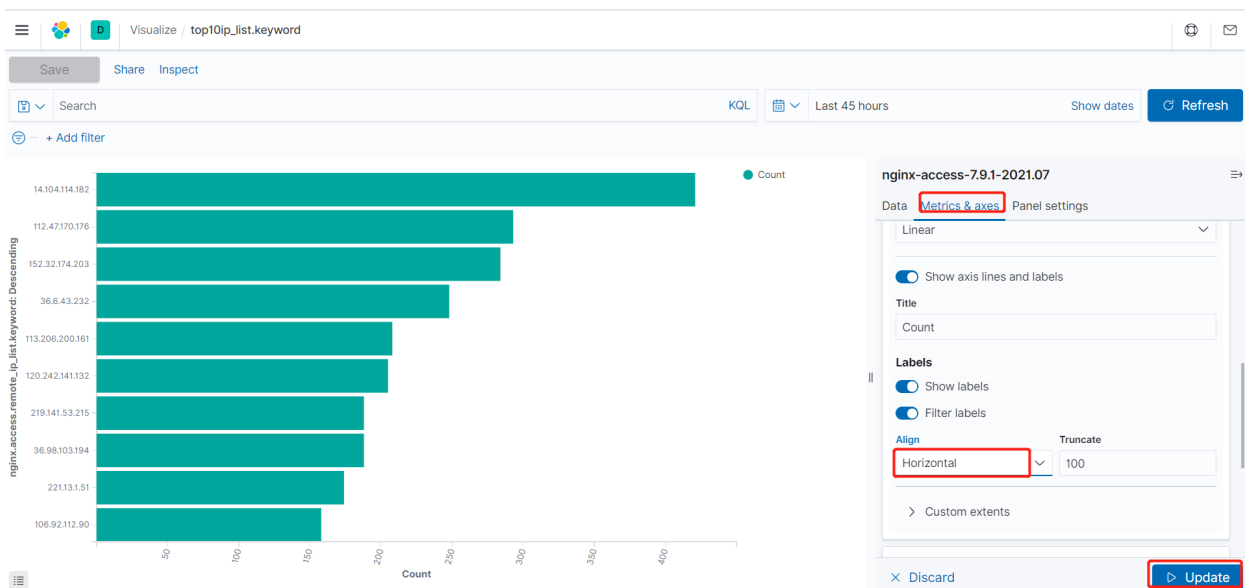
Types

2

nginx-access-7.9.1-2021.07



调整y轴数字



Visualizations

Create visualization

Search...

<input type="checkbox"/>	Title	Type	Description	Actions
<input type="checkbox"/>	top10ip_list.keyword	Vertical Bar		

Rows per page: 20

<

1

>

New Visualization

Filter

B

Lens

Area

E

Controls

Data Table

Gauge

Goal

Heat Map

Horizontal Bar

Line

Maps

Markdown

Metric

Pie

TSVB

Tag Cloud

Timelion

Data Table

Display values in a table

New Data Table / Choose a source

Q Search...

Sort ▾

Types 2 ▾

Q [Flights] Flight Log

 kibana_sample_data_flights

 nginx-access-7.9.1-2021.07

Visualize / Create

Save Share Inspect

Search KQL Last 45 hours Show dates Refresh

+ Add filter

http.request.referrer.keyword: Descending ▾	Count ▾
http://wap.fjkankan.com/helptext?id=191	4,240
http://wap.3yakj.com/recovergift?runmethod=usealpha_hidetopbar	3,753
http://w.res.ipad123.cn/weather/information/html/formal/az/1626248000_qd.html	3,288
wap.3yakj.com/	3,285
http://wap.3yakj.com/zxb	2,118
http://w.res.ipad123.cn/	1,719
http://wap.3yakj.com/guochao	1,378
http://wap.fjkankan.com/	1,359
http://wap.3yakj.com/recovergift?runmethod=usealpha_hidetopbar_popdirectionfrombottomtotop	645
https://wap.3yakj.com/zxb	601

Export: Raw Formatted

1 2 »

nginx-access-7.9.1-2021.07

Data Options

Bucket

☒ Split rows

Aggregation Terms help

Terms

Field

http.request.referrer.keyword

Order by

Metric: Count

Order Descending Size 20

☐ Group other values in separate bucket

继续选择添加不一样的图

Visualizations

[+ Create visualization](#)

Search...

<input type="checkbox"/> Title	Type	Description	Actions
<input type="checkbox"/> city%	Pie		
<input type="checkbox"/> ref	Area		
<input type="checkbox"/> top10.remote_ip	Data Table		
<input type="checkbox"/> top10ip_list.keyword	Vertical Bar		
<input type="checkbox"/> top20request	Data Table		
<input type="checkbox"/> 我	Markdown		

Rows per page: 20

< 1 >

把刚刚画的放到一起

Home

Add sample data
Load a data set and a Kibana dashboard

Upload data from log file
Import a CSV, NDJSON, or log file

Use Elasticsearch data
Connect to your Elasticsearch index

Visualize and Explore Data

APM
Automatically collect in-depth performance metrics and errors from inside your applications.

Canvas
Showcase your data in a pixel-perfect way.

Discover
Interactively explore your data by querying and filtering raw documents.

App Search
Leverage dashboards, analytics, and APIs for advanced application search made simple.

Dashboard
Display and share a collection of visualizations and saved searches.

Graph
Surface and analyze relevant relationships in your Elasticsearch data.

Manage and Administer the Elastic Stack

Console
Skip cURL and use this JSON interface to work with your data directly.

Saved Objects
Import, export, and manage your saved searches, visualizations, and dashboards.

Spaces
Organize your dashboards and other saved objects

Rollups
Summarize and store historical data in a smaller index for future analysis.

Security Settings
Protect your data and easily manage who has access to what with users and roles.

Stack Monitoring
Track the real-time health and performance of your

Dashboards

Dashboards

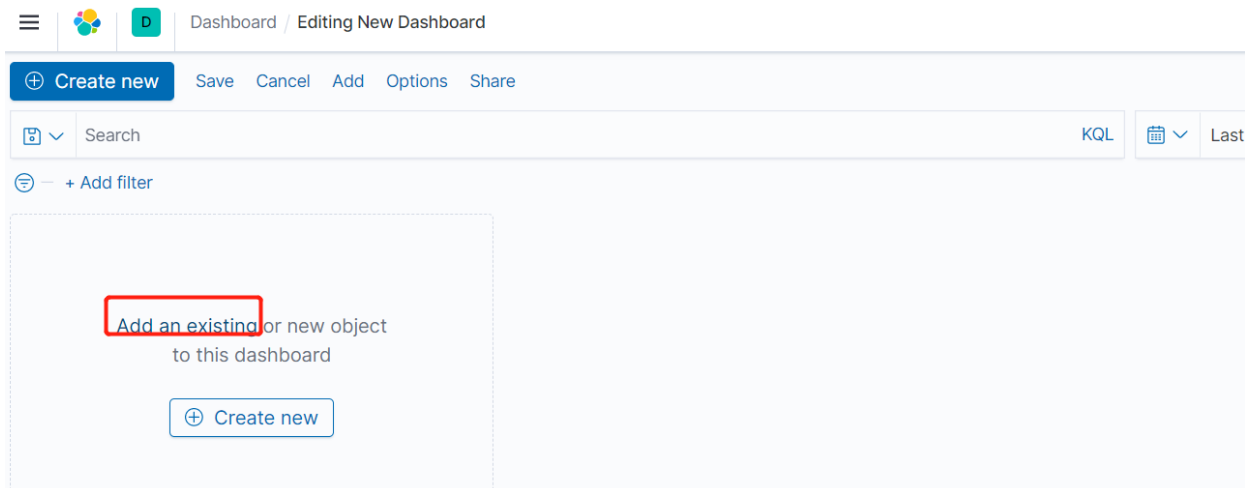
[+ Create dashboard](#)

Search...

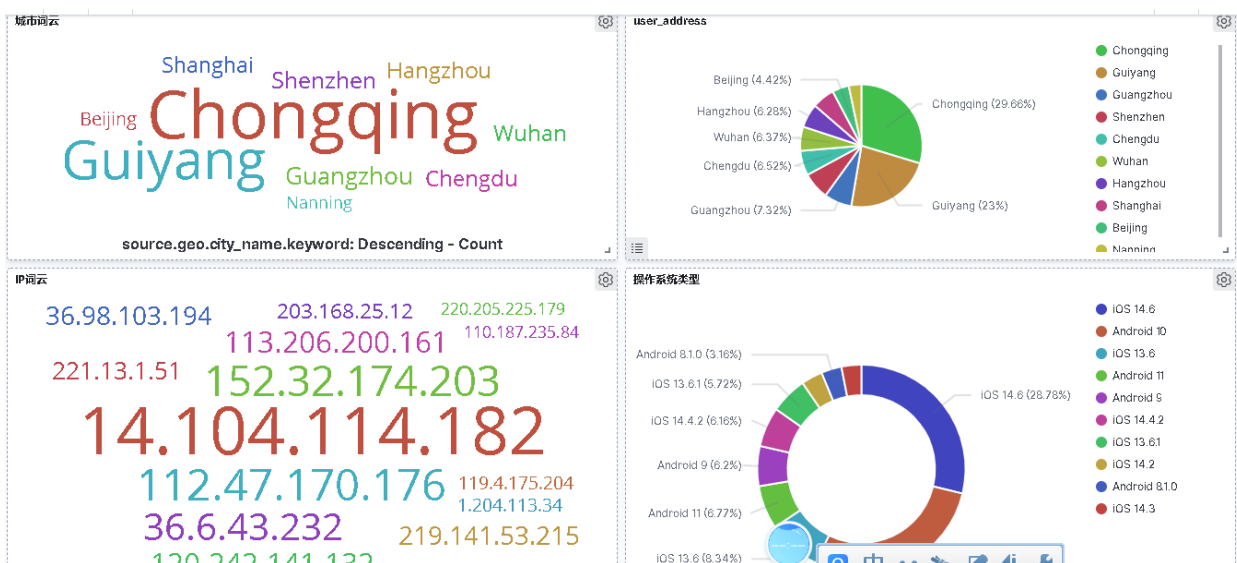
<input type="checkbox"/> Title	Description	Actions
<input type="checkbox"/> [Flights] Global Flight Dashboard	Analyze mock flight data for ES-Air, Logstash Airways, Kibana Airlines and JetBeats	

Rows per page: 20

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根据自己调整大小方向



使用filebeat模块将nginx普通日志转换成json格式

0.把nginx修改为普通格式日志

```
1 systemctl stop nginx
2 > /var/log/nginx/access.log
3 vim /etc/nginx/nginx.conf
4 access_log /var/log/nginx/access.log main;
5 -----
6 systemctl restart nginx
7 curl 127.0.0.1
8 tail -f /var/log/nginx/access.log
```

1.配置filebeat

```
1 cat > /etc/filebeat/filebeat.yml << 'EOF'
2 filebeat.config.modules:
3   path: ${path.config}/modules.d/*.yml
4   reload.enabled: true
5
6 output.elasticsearch:
7   hosts: ["10.0.0.51:9200"]
8   indices:
9     - index: "nginx-access-%{[agent.version]}-%{+yyyy.MM}"
10     when.contains:
11       log.file.path: "/var/log/nginx/access.log"
12
13     - index: "nginx-error-%{[agent.version]}-%{+yyyy.MM}"
14     when.contains:
15       log.file.path: "/var/log/nginx/error.log"
16
17 setup.ilm.enabled: false
18 setup.template.enabled: false
19
20 logging.level: info
21 logging.to_files: true
22 EOF
```

2.激活模块

```
1 filebeat modules list
2 filebeat modules enable nginx
3 filebeat modules list
```

3.配置日志路径

```
1 cat > /etc/filebeat/modules.d/nginx.yml << 'EOF'
2 - module: nginx
3   access:
```

```
4  enabled: true
5  var.paths: ["/var/log/nginx/access.log"]
6  error:
7  enabled: true
8  var.paths: ["/var/log/nginx/error.log"]
9  ingress_controller:
10 enabled: false
11 EOF
```

4.重启filebeat

```
1 systemctl restart filebeat
```

5.访问测试

使用filebeat模块收集MySQL慢日志

0.清空ES以前的索引

1.MySQL安装

```
1 yum install -y libaio-devel
2 rpm -qa|grep mariadb
3 yum remove mariadb-libs -y
4 rm -rf /etc/my.cnf
5 tar zxf mysql-5.7.28-linux-glibc2.12-x86_64.tar.gz -C /opt/
6 mv /opt/mysql-5.7.28-linux-glibc2.12-x86_64 /opt/mysql-5.7.28
7 ln -s /opt/mysql-5.7.28 /opt/mysql
8 echo 'export PATH=$PATH:/opt/mysql/bin' >>/etc/profile
9 source /etc/profile
10 mysql -V
11 useradd -s /sbin/nologin -M mysql
```

```
12 mkdir -p /data/mysql_3306/
13 chown -R mysql:mysql /data/
14 chown -R mysql:mysql /opt/mysql*
15 mysqld --initialize-insecure --user=mysql --basedir=/opt/mysql
  --datadir=/data/mysql_3306/

1 cat> /etc/my.cnf <<EOF
2 [mysqld]
3 port=3306
4 user=mysql
5 basedir=/opt/mysql
6 datadir=/data/mysql_3306
7 socket=/tmp/mysql.sock
8 slow_query_log=ON
9 slow_query_log_file=/data/mysql_3306/slow.log
10 long_query_time=1
11
12 [mysql]
13 socket=/tmp/mysql.sock
14 EOF

1 cp /opt/mysql/support-files/mysql.server /etc/init.d/mysqld
2 chkconfig --add mysqld
3 systemctl start mysqld
4 netstat -lntup|grep 3306
```

2.生成慢日志

```
1 mysql
2 select sleep(2) user from mysql.user;
3 select sleep(2) user,host from mysql.user;
```

3.filebeat激活mysql模块

```
1 filebeat modules list
2 filebeat modules enable mysql
3 filebeat modules list
```

4.配置filebeat模块文件

```
1 cat > /etc/filebeat/modules.d/mysql.yml << 'EOF'
2 - module: mysql
3   error:
4     enabled: true
5   var.paths: ["/data/mysql_3306/web-7.err"]
6   slowlog:
7     enabled: true
8   var.paths: ["/data/mysql_3306/slow.log"]
9 EOF
```

5.配置filebeat配置文件

```
1 cat > /etc/filebeat/filebeat.yml << 'EOF'
2 filebeat.config.modules:
3   path: ${path.config}/modules.d/*.yml
4   reload.enabled: true
5
6 output.elasticsearch:
7   hosts: ["10.0.0.51:9200"]
8   indices:
9     - index: "nginx-access-%{[agent.version]}-%{+yyyy.MM}"
10     when.contains:
11       log.file.path: "/var/log/nginx/access.log"
12
13     - index: "nginx-error-%{[agent.version]}-%{+yyyy.MM}"
14     when.contains:
15       log.file.path: "/var/log/nginx/error.log"
16
17     - index: "mysql-error-%{[agent.version]}-%{+yyyy.MM}"
18     when.contains:
19       log.file.path: "/data/mysql_3306/web-7.err"
20
21     - index: "mysql-slow-%{[agent.version]}-%{+yyyy.MM}"
22     when.contains:
```

```
23 log.file.path: "/data/mysql_3306/slow.log"
24
25 setup.ilm.enabled: false
26 setup.template.enabled: false
27
28 logging.level: info
29 logging.to_files: true
30 EOF
```

6.重启filebeat

```
1 systemctl restart filebeat
```

使用filebeat收集tomcat的json日志

1.安装tomcat

```
1 tar zxf apache-tomcat-8.0.27.tar.gz -C /opt/
2 tar zxf apache-tomcat-8.5.53.tar.gz -C /opt/
3 cd /opt
4 ln -s apache-tomcat-8.5.53 tomcat
5 /opt/tomcat/bin/startup.sh
6 netstat -lntup|grep 8080
7 ps -ef|grep tomcat
8 curl -I 127.0.0.1:8080
```

2.修改tomcat配置文件

```
1 [root@web-7 ~]# sed -n '137p' /opt/tomcat/conf/server.xml
2 pattern="{\"clientip\":\"%h\",\"ClientUser\":\"%l\",\"authenticated\":\"%u\", \"AccessTime\":\"%t\", \"method\":\"%r\", \"status\":\"%s\", \"SendBytes\":\"%b\", \"Query?string\":\"%q\", \"partner\":\"%{Referer}i\", \"AgentVersion\":\"%{User-Agent}i\"}"/>
```


3.重启tomcat

```
1 /opt/tomcat/bin/shutdown.sh
2 /opt/tomcat/bin/startup.sh
```

4.访问并查看日志是否为json格式

```
1 cat /opt/tomcat/logs/localhost_access_log.2021-07-15.txt
```

5.配置filebeat文件

```
1 cat > /etc/filebeat/filebeat.yml << 'EOF'
2 filebeat.inputs:
3   - type: log
4     enabled: true
5     paths:
6       - /opt/tomcat/logs/localhost_access_log.*.txt
7     json.keys_under_root: true
8     json.overwrite_keys: true
9     tags: ["tomcat"]
10
11 filebeat.config.modules:
12   path: ${path.config}/modules.d/*.yaml
13   reload.enabled: true
14
15 output.elasticsearch:
16   hosts: ["10.0.0.51:9200"]
17   indices:
18     - index: "nginx-access-%{[agent.version]}-%{+yyyy.MM}"
19     when.contains:
20       log.file.path: "/var/log/nginx/access.log"
21
22     - index: "nginx-error-%{[agent.version]}-%{+yyyy.MM}"
23     when.contains:
24       log.file.path: "/var/log/nginx/error.log"
25
26     - index: "mysql-error-%{[agent.version]}-%{+yyyy.MM}"
```

```
27  when.contains:
28  log.file.path: "/data/mysql_3306/web-7.err"
29
30  - index: "mysql-slow-%{[agent.version]}-%{+yyyy.MM}"
31  when.contains:
32  log.file.path: "/data/mysql_3306/slow.log"
33
34  - index: "tomcat-access-%{[agent.version]}-%{+yyyy.MM}"
35  when.contains:
36  tags: "tomcat"
37
38  setup.ilm.enabled: false
39  setup.template.enabled: false
40
41  logging.level: info
42  logging.to_files: true
43  EOF
```

6.重启filebeat

```
1 systemctl restart filebeat
```

7.访问测试