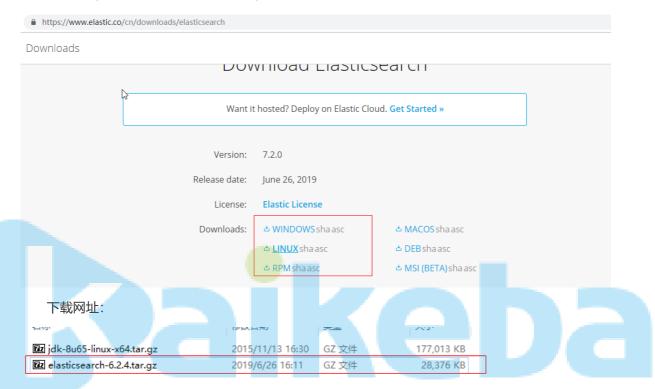
# 一、ES安装

# 1、下载ES

下载: (文件比较大,建议手动下载)



## 2、安装

### 解压:

tar -zxvf elasticsearch-6.2.4.tar.gz

注意:把elasticsearch软件必须放入/home/es (es是新建用户)的目录下,并把elasticsearch设置为es用户所属

创建日志、数据存储目录: (留作备用, 初次先创建)

mkdir -p /data/logs/es
mkdir -p /data/es/{data,work,plugins,scripts}

### 创建用户

useradd es -s /bin/bash #es不能在root用户下启动,必须创建新的用户,用来启动es

#### 启动: ./elasticsearch

```
[root@jackhu bin]# ./elasticsearch
[2019-06-26T16:14:40,309][WARN ][o.e.b.ElasticsearchUncaughtExceptionHandler] [] uncaught exception in thread [main]
brg.elasticsearch.bootstrap.StartupException: java.lang.RuntimeException: can not run elasticsearch as root
    at org.elasticsearch.bootstrap.Elasticsearch.init(Elasticsearch.java:125) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.bootstrap.Elasticsearch.execute(Elasticsearch.java:112) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.cli.EnvironmentAwareCommand.execute(EnvironmentAwareCommand.java:86) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.cli.Command.mainWithoutErrorHandling(Command.java:124) ~[elasticsearch-cli-6.2.4.jar:6.2.4]
    at org.elasticsearch.cli.Command.main(Command.java:90) ~[elasticsearch-cli-6.2.4.jar:6.2.4]
    at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:92) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:85) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.bootstrap.Bootstrap.initializeNatives(Bootstrap.java:105) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.bootstrap.Bootstrap.setup(Bootstrap.java:323) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.bootstrap.Bootstrap.init(Bootstrap.java:323) ~[elasticsearch-6.2.4.jar:6.2.4]
    at org.elasticsearch.bootstrap.Elasticsearch.init(Elasticsearch.java:321) ~[elasticsearch-6.2.4.jar:6.2.4]
```

注意: es不能在root用户下启动,必须创建新的用户,用来启动es

切换用户: su es

再次启动,发现还是报错,原因: 当前用户没有执行权限

```
[es@jackhu bin]$ ./elasticsearch

Exception in thread "main" java.nio.file.AccessDeniedException: /home/es/elasticsearch-6.2.4/config/jvm.option:
    at sun.nio.fs.UnixException.translateToIOException(UnixException.java:84)
    at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:102)
    at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:107)
    at sun.nio.fs.UnixEileSystemProvider.newByteChannel(UnixFileSystemProvider.java:214)
    at java.nio.file.Files.newByteChannel(Files.java:361)
    at java.nio.file.Files.newByteChannel(Files.java:407)
    at java.nio.file.spi.FileSystemProvider.newInputStream(FileSystemProvider.java:384)
    at java.nio.file.spi.FileSystemProvider.newInputStream(FileSystemProvider.java:384)
    at java.nio.file.Files.newInputStream(Files.java:152)
    at org.elasticsearch.tools.launchers.JvmOptionsParser.main(JvmOptionsParser.java:58)

[es@jackhu bin]$ cd ...
```

授权: chown -R es:es elasticsearch-6.2.4

```
[root@jackhu es]# su es

[es@jackhu ~]$ 11

总用量 28376
drwxr-xr-x. 8 es es 143 4月 13 2018 elasticsearch-6.2.4
-rw-r--r-- 1 root root 29056810 6月 26 16:11 elasticsearch-6.2.4.tar.gz

[es@jackhu ~]$ cd elasticsearch-6.2.4

[es@jackhu elasticsearch-6.2.4]$ 11

总用量 224
drwxr-xr-x. 2 es es 4096 6月 26 16:13 bin
```

授权成功,发现elasticsearch已经在es用户下面了,可以启动了,但是启动成功,浏览器不能访问,因此还需要做如下配置:

配置修改: \*\*

```
# Set the bind address to a specific IP (IPv4 or IPv6):
#
network.host: 0.0.0.0
#
# Set a custom port for HTTP:
#
```

再次启动: 报如下错误

```
[2019-06-26T16:40:34,368][INFO][o.e.n.Node ] [4fZjnig] starting ...
[2019-06-26T16:40:35,232][INFO][o.e.t.TransportService ] [4fZjnig] publish_address {192.168.66.66:9300},
[2019-06-26T16:40:35,249][INFO][o.e.b.BootstrapChecks ] [4fZjnig] bound or publishing to a non-loopback
[RROR: [3] bootstrap checks failed
[1]: max file descriptors [4096] for elasticsearch process is too low, increase to at least [65536]
[2]: max number of threads [3853] for user [es] is too low, increase to at least [4096]
[3]: max virtual memory areas vm.max_map_count [65530] is too low, increase to at least [262144]
[2019-06-26T16:40:35,273][INFO][o.e.n.Node ] [4fZjnig] stopping ...
[2019-06-26T16:40:35,300][INFO][o.e.n.Node ] [4fZjnig] stopped
```

1) max file descriptors [4096] for elasticsearch process is too low, increase to at least [65536]

ulimit -Hn ulimit -Sn

```
[es@jackhu bin]$ ulimit -Hn
4096
[es@jackhu bin]$ ulimit -Hs
unlimited
[es@jackhu bin]$ ulimit -Sn
1024
```

修改/etc/security/limits.conf文件,增加配置,用户退出后重新登录生效

```
[root@jackhu bin]# ulimit -Hn
65536
[root@jackhu bin]# ulimit -Sn
65536
```

2) max number of threads [3818] for user [es] is too low, increase to at least [4096]

可通过命令查看

ulimit -Hu ulimit -Su

[root@jackhu bin]# ulimit -Hu 3853 [root@jackhu bin]# ulimit -Su 3853 [root@jackhu bin]#

问题同上,最大线程个数太低。修改配置文件/etc/security/limits.conf,增加配置

```
[root@jackhu bin]# ulimit -Hu
4096
```

3) \ max virtual memory areas vm.max\_map\_count [65530] is too low, increase to at least [262144]

修改/etc/sysctl.conf文件

vi /etc/sysctl.conf sysctl -p #执行命令sysctl -p生效 #增加配置vm.max\_map\_count=262144

错误解决完毕: 重新启动

```
← → C ① 不安全 | 192.168.66.66:9200
```

```
"name": "4fTjnig",
"cluster_name": "elasticsearch",
"cluster_unid": "amdhilZaSm6tgynYGfLGdQ",
"version": {
    "number": "6.2.4",
    "build_hash": "cce39f",
    "build_date": "2018-04-12T20:37:28.497551Z",
    "build_snapshot": false,
    "lucene_version": "7.2.1",
    "minimum_wire_compatibility_version": "5.6.0",
    "minimum_index_compatibility_version": "5.0.0"
},
"tagline": "You Know, for Search"
```

后台启动:

./elasticsearch -d

## 3、容器安装

```
#搜索镜像
docker search elasticsearch
#拉取镜像
docker pull elasticsearch:6.2.4
#创建容器
docker create --name elasticsearch --net host -e "discovery.type=single-node" -e
"network.host=192.168.66.66" elasticsearch:6.2.4
#启动
docker start elasticsearch
#查看日志
docker logs elasticsearch
```

访问容器elasticsearch:

```
{
    "name" : "4fZjnig",
    "cluster_name" : "elasticsearch",
    "cluster_uuid" : "amdhilZaSm6tgynYGfLGdQ",
    "version" : {
        "number" : "6.2.4",
        "build_hash" : "ccec39f",
        "build_date" : "2018-04-12T20:37:28.497551Z",
        "build_snapshot" : false,
        "lucene_version" : "7.2.1",
        "minimum_wire_compatibility_version" : "5.6.0",
        "minimum_index_compatibility_version" : "5.0.0"
},
    "tagline" : "You Know, for Search"
}
```

后台

# 二、head插件安装

## 1、head插件主要用途

elasticsearch-head是一个用来浏览、与Elastic Search簇进行交互的web前端展示插件。elasticsearch-head是一个用来监控Elastic Search状态的客户端插件。

elasticsearch主要有以下三个主要操作—— 1) 簇浏览,显示簇的拓扑并允许你执行索引(index)和节点层面的操作。 2) 查询接口,允许你查询簇并以原始json格式或表格的形式显示检索结果。 3) 显示簇状态,有许多快速访问的tabs用来显示簇的状态。 4) 支持Restful API接口,包含了许多选项产生感兴趣的结果,包括: 第一,请求方式:get,put,post,delete; json请求数据,节点node, 路径 path。 第二,JSON验证器。 第三,定时请求的能力。 第四,用javascript表达式传输结果的能力。 第五,统计一段时间的结果或该段时间结果比对的能力。

第六,以简单图标的形式绘制传输结果

## 2、安装

### 安装步骤:

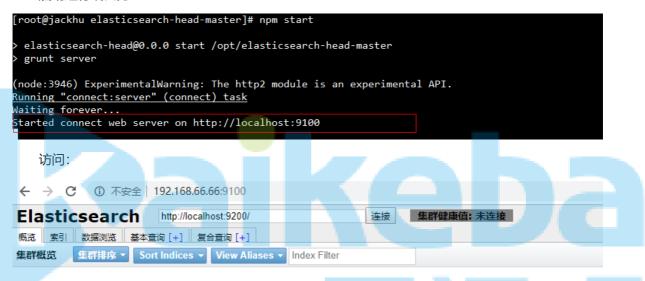
```
#下载nodejs,head插件运行依赖node
wget https://nodejs.org/dist/v9.9.0/node-v9.9.0-linux-x64.tar.xz
#解压
tar -xf node-v9.9.0-linux-x64.tar.xz
#重命名
mv node-v9.9.0-linux-x64 nodeJs
#配置文件
vim /etc/profile
#刷新配置
source /etc/profile
#查询node版本,同时查看是否安装成功
```

```
node -v
#下载head插件
wget https://github.com/mobz/elasticsearch-head/archive/master.zip
#解压
unzip master.zip
#使用淘宝的镜像库进行下载,速度很快
npm install -g cnpm --registry=https://registry.npm.taobao.org
#进入head插件解压目录,执行安装命令
cnpm install
```

### 3、运行

npm start #启动head插件

启动运行端口为:9100





此时未连接,需要配置才能连接:

修改 Gruntfile.js文件:

```
oot@jackhu elasticsearch-head-master]# 11
总用量 228
              1 root root
                              248 6月 25 21:18 Dockerfile
                             221 6月 25 21:18 Dockerfile-alpine
104 6月 25 21:18 elasticsearch-head.sublime-project
2171 6月 25 21:18 Gruntfile.js
             1 root root
             1 root root
             1 root root
                             3482 6月
                                      25 21:18 grunt_fileSets.js
              1 root root
                             1100 6月 25 21:18 index.html
             1 root root
                              559 6月
                                        25 21:18 LICENCE
              1 root root
                                        26 18:43 node_modules
                            12288 6月
     -xr-x. 376 root root
             1 root root
                              886 6月
                                       25 21:18 package.json
             1 root root 169953 6月
                                       26 18:40 package-lock.json
             1 root root
                              100 6月
                                        25 21:18 plugin-descriptor.properties
                                       25 21:18 proxy
             4 root root
                              53 6月
                                       25 21:18 README.textile
              1 root root
                             7034 6月
                             140 6月 25 21:18 _site
31 6月 25 21:18 src
             5 root root
rwxr-xr-x.
 wxr-xr-x.
             4 root root
rwxr-xr-x.
                               70 6月
                                       25 21:18 test
             4 root root
```

### 修改如下:

### 修改\_site/app.js

修改IP地址, 连接elasticsearch

#### 启用CORS:

当head插件访问es时,您必须在elasticsearch中启用CORS,否则您的浏览器将拒绝跨域。

在elasticsearch配置中:

```
http.cors.enabled: true
```

您还必须设置,http.cors.allow-origin因为默认情况下不允许跨域。http.cors.allow-origin: "\*" 是允许配置的,但由于这样配置的任何地方都可以访问,所以有安全风险。 我在集群安装的时候已经配好了、如果你刚配置、需要重启ElasticSearch服务

```
http.cors.enabled: true
http.cors.allow-origin: "*"
```

访问head插件



三、LogStash安装

# 1、LogStash插件介绍

Logstash是一个具有实时管道的开源数据收集引擎。可以动态地统一不同来源的数据,并将数据归到不同目的地。也是一个管理事件和日志工具。你可以用它来收集日志,分析它们,并将它们储存起来以供以后使用。

Logstash 通常都是和 Kibana 以及 Elasticsearch 一起使用。

# 2、logStash安装

```
#注意版本和elasticsearch,kibana 必须保持一致,es,kibana都是6.2.4版本
wget https://artifacts.elastic.co/downloads/logstash/logstash-6.2.4.tar.gz
#解压
tar -zxvf logstash-6.2.4.tar.gz
#启动 基本的 intput output
#stdin stdout 输入输出插件
./logstash -e 'input{ stdin{} } output{ stdout{} } '

# codec
./logstash -e 'input{ stdin{} } output{ stdout{ codec => json } }'

#日志内容写入elasticsearch
./logstash -e 'input{ stdin{} } output{ elasticsearch{hosts =>
["192.168.66.66:9200"]} }'

#日志内容写入elasticsearch, 同时输出
#注意elasticsearch插件的语法格式: hosts 对应数组
./logstash -e 'input{ stdin{} } output{ elasticsearch{hosts =>
["192.168.66.66:9200"]} stdout{} }'
```

# 3、logStash插件

## 3.1、input插件

# Input plugins



An input plugin enables a specific source of events to be read by Logstash.

The following input plugins are available below. For a list of Elastic supported plugins, please consult the Support Matrix.

stdin	Reads events from standard input	logstash-input-stdin	
file	Streams events from files	logstash-input-file	
http	Receives events over HTTP or HTTPS	logstash-input-http	
tcp	Reads events from a TCP socket	logstash-input-tcp	

输入比较常见的几个插件: stdin、file、http、tcp

## 3.2、output插件

## **Output plugins**



The following output plugins are available below. For a list of Elastic supported plugins, please consult the Support Matrix.

stdout	Prints events to the standard output logstash-output-stdout
file	Writes events to files on disk logstash-output-file
http	Sends events to a generic HTTP or HTTPS endpoint logstash-output-http
tcp	Writes events over a TCP socket logstash-output-top

### 把日志内容输出到elasticsearch插件:

elasticsearch	Stores logs in Elasticsearch	logstash-output- elasticsearch	+	

## 3.3、codec插件

Codec(Code Decode)Plugin作用于input和output plugin,负责将数据在原始与Logstash之间转换,常见的codec有: plain 读取原始内容 dots 将内容简化为点进行输出 rubydebug 将内容按照 ruby格式输出,方便调试 line 处理带有换行符的内容 json 处理json格式的内容 multiline 处理多行数据的内容

## 4、logStash配置

### 4.1、创建配置

### 4.2、配置语法

# **Configuring Logstash**





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To configure Logstash, you create a config file that specifies which plugins you want to use and settings for each plugin. You can reference event fields in a configuration and use conditionals to process events when they meet certain criteria. When you run logstash, you use the -f to specify your config file.

Let's step through creating a simple config file and using it to run Logstash. Create a file named "logstash-simple.conf" and save it in the same directory as Logstash.

```
input { stdin { } }
output {
  elasticsearch { hosts => ["localhost:9200"] }
  stdout { codec => rubydebug }
}
```

#### 开始配置:

```
input { stdin { } }
output {
  elasticsearch { hosts => ["192.168.66.66:9200"] }
  stdout { codec => rubydebug }
}
#启动命令
bin/logstash -f config/logstash.conf
```

## 5、file日志收集

```
#建立新的配置文件
mv logstash.conf file.conf
#详细配置如下
input {
    file{
        path => "/var/log/messages" #收集messages文件日志
        type => "system"
        start_position => "beginning" #记录上次收集的位置
```

```
}
output {
    elasticsearch {
        hosts => ["192.168.66.66:9200"] #写入elasticsearch的地址
        index => "system-%{+YYYY.MM.dd}" #定义索引的名称
        }
    stdout { codec => rubydebug }
}
#启动logstash,配置文件名字叫什么无所谓
bin/logstash -f config/file.conf
```

#### 收集效果如下所示:



# 6、Java日志收集

```
#在原来file文件的基础上进行编辑
input {
       file{
          path => "/var/log/messages"
          type => "system"
          start_position => "beginning"
       }
       #加一个file文件收集日志插件,收集elasticsearch日志、es就是java语言开发的。
       file{
          path => "/home/es/elasticsearch-6.2.4/logs/elasticsearch.log"
          type => "es-info"
          start_position => "beginning"
 }
output {
  if [type] == "system"{
  elasticsearch {
       hosts => ["192.168.66.66:9200"]
       index => "system-%{+YYYY.MM.dd}"
  }
  #判断,导入到不同的索引库,否则会放入同一个索引库中
  if [type] == "es-info"{
  elasticsearch {
       hosts => ["192.168.66.66:9200"]
       index => "es-info-%{+YYYY.MM.dd}"
        }
  }
```

```
stdout { codec => rubydebug }
}
```

### 导入效果:



问题:目前导入日志都是按照行导入的、但是有些日志多行是一句话,如果分开的话,就不太容查看日志的完整的意思了。

```
#下面日志是一个日志,如果按照行收集就不符合整个日志的日志,会把整体的日志给分开
Exception in thread "main"
org.springframework.jmx.access.InvalidInvocationException: bean:name=boy at
org.springframework.jmx.access.MBeanClientInterceptor.invoke(MBeanClientInterceptor.java:358) at
org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:171) at
org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy.java:204) at $Proxy0.sayHello(Unknown Source) at com.ebupt.jmxTest.Client.main(Client.java:13)
```

解决方案: 可以使用codec来进行解决, codec把多行日志

```
#在原来file文件的基础上进行编辑
input {
       file{
          path => "/var/log/messages"
          type => "system"
          start_position => "beginning"
       }
       #加一个file文件收集日志插件,收集elasticsearch日志、es就是java语言开发的。
       file{
          path => "/home/es/elasticsearch-6.2.4/logs/elasticsearch.log"
          type => "es-info"
          start_position => "beginning"
          #使用正则表达式,合并多行日志
          codec => multiline {
                 pattern => "^\[" #发现中括号,就合并日志
                 negate => true
                 what => "previous"
              }
       }
}
output {
```

```
if [type] == "system"{
    elasticsearch {
        hosts => ["192.168.66.66:9200"]
        index => "system-%{+YYYY.MM.dd}"
        }
}
#判断, 导入到不同的索引库, 否则会放入同一个索引库中
if [type] == "es-info"{
    elasticsearch {
        hosts => ["192.168.66.66:9200"]
        index => "es-info-%{+YYYY.MM.dd}"
        }
}
stdout { codec => rubydebug }
}
```

使用codec插件处理多行信息。把多行日志合并为一行,导入到es

# 四、Kibana安装

## 1、kibana 插件介绍

kibana 插件提供了Marvel监控的UI界面。 kibana是一个与elasticsearch一起工作的开源的分析和可视化的平台。使用kibana可以查询、查看并与存储在elasticsearch索引的数据进行交互操作。使用kibana能执行高级的数据分析,并能以图表、表格和地图的形式查看数据。 kibana使得理解大容量的数据变得非常容易。它非常简单,基于浏览器的接口使我们能够快速的创建和分享显示elasticsearch查询结果实时变化的仪表盘。

## 2、kibana下载

下载命令:

```
#kibana版本必须和es版本一致,否则监控不到eswget https://artifacts.elastic.co/downloads/kibana/kibana-6.2.4-linux-x86_64.tar.gz
#将shasum生产的SHA与已发布的SHA进行比较。
shasum -a 512 kibana-6.4.2-linux-x86_64.tar.gz
tar -xzf kibana-6.4.2-linux-x86_64.tar.gz
# 归档包解压的目录为$KIBANA_HOME
cd kibana-6.4.2-linux-x86_64/
```

## 3、环境配置

详细配置地址: https://www.elastic.co/guide/en/kibana/5.6/settings.html

# 将默认配置改成如下: server.port: 5601

server.host: "192.168.66.66"

#修改成自己集群的端口号及IP

elasticsearch.url: "http://192.168.66.66:9200"

kibana.index: ".kibana"

## 4、安装成功



可以看到这里有个红色的错误: "Unable to fetch mapping. Do you have indices matching the pattern?",这个是因为在elasticsearch中还没有任何有关logstash-\*格式相关的数据,所以这里才提示报错,可以暂时忽略。

初次使用我们可以进行一些简单的测试,比如查看elasticsearch集群的状态,在Kibana控制台中运行命令GET /\_cat/health?v,得到如下所示:



## 6、日志视图

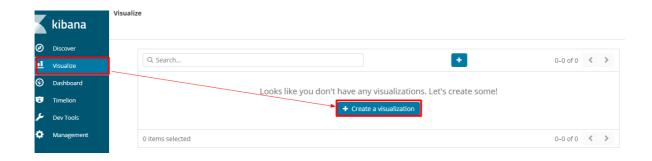
#### 1) 创建日志



# 7、可视化数据

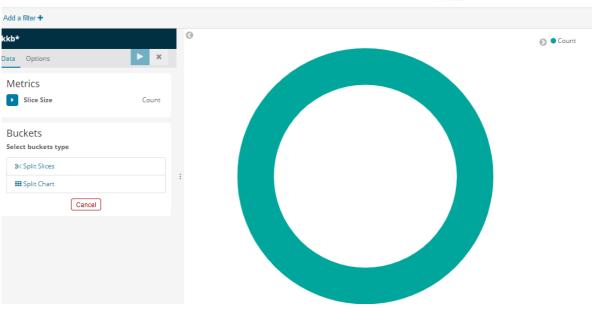
在Visualize应用程序中,你可以使用各种图表、表格和地图等来塑造数据,你将创建四个可视化效果:饼图、柱状图、坐标图和Markdown小部件。

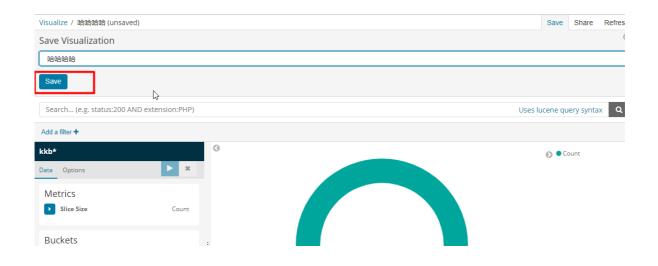
#### 1) 点击Visualize



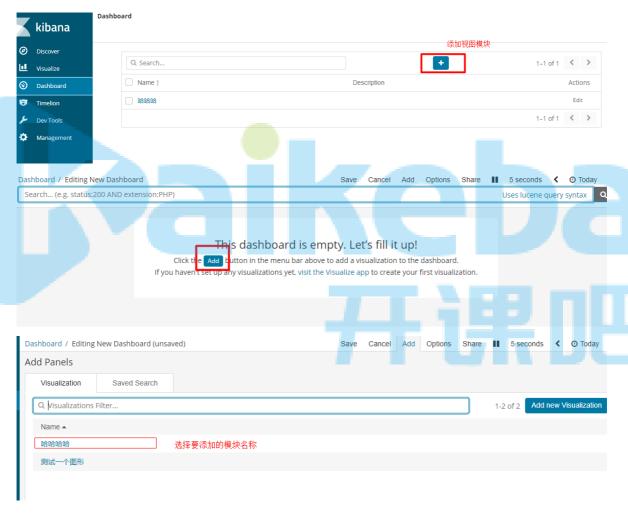
### 2) 点击相应图标







### 5) 添加视图模块



# 五、nginx日志

- 1、安装nginx (参考安装资料)
- 2、日志格式JSON

### 2.1、文本格式 (默认格式)

开启日志: 把日志写入到日志文件

日志内容如下所示:

```
-rw-r----. I root root 2810 10/3 12 15:15 host.access.log
[root@jackhu logs]# cat host.access.log
192.168.66.1 - - [12/Oct/2019:15:12:07 +0800] "GET / HTTP/1.1" 304 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, lik Gecko) Chrome/77.0.3865.90 Safari/537.36"
192.168.66.1 - - [12/Oct/2019:15:12:07 +0800] "GET / HTTP/1.1" 304 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, lik Gecko) Chrome/77.0.3865.90 Safari/537.36"
192.168.66.1 - [12/Oct/2019:15:12:08 +0800] "GET / HTTP/1.1" 304 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, lik Gecko) Chrome/77.0.3865.90 Safari/537.36"
192.168.66.1 - [12/Oct/2019:15:12:08 +0800] "GET / HTTP/1.1" 304 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, lik Gecko) Chrome/77.0.3865.90 Safari/537.36"
192.168.66.1 - [12/Oct/2019:15:12:08 +0800] "GET / HTTP/1.1" 304 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, lik Gecko) Chrome/77.0.3865.90 Safari/537.36"
```

发现日志都是一行普通文本格式的日志。这样不利于logstash收集整理,是否能把这些日志直接变成json格式呢。当然是可以的。

### 2.2、JSON格式

日志格式转换配置如下所示:

```
log_format log_json
'{ "@timestamp": "$time_local", '
'"remote_addr": "$remote_addr", '
'"referer": "$http_referer", '
'"request": "$request", '
'"status": $status, '
'"bytes": $body_bytes_sent, '
'"agent": "$http_user_agent", '
'"x_forwarded": "$http_x_forwarded_for", '
"up_addr": "$upstream_addr", '
"up_host": "$upstream_http_host", '
"up_resp_time": "$upstream_response_time", '
"request_time": "$request_time"'
' }';
```

输出日志引用此格式输出日志:

```
server {
    listen 80;
    server_name localhost;

#charset koi8-r;

access_log logs/host.access.log log_json;

location / {
    root html;
```

日志输出效果如下所示:

发现日志已经完成变成json格式了。此处有掌声......

# 3、logstash收集

### 3.1、配置文件

```
#把日志文件日志以json格式输入
input {
    file{
        path => "/usr/local/src/logs/host.access.log"
        codec => json
    }

#在logstash 控制台看一下输出日志的格式
output {
    stdout { codec => rubydebug }
}
```

## 3.2、导入到es

```
#输入插件
input {
        file{
           path => "/var/log/messages"
           type => "system"
           start_position => "beginning"
        }
        file{
           path => "/home/es/elasticsearch-6.2.4/logs/elasticsearch.log"
           type => "es-info"
           start_position => "beginning"
        }
        #收集nginx日志
        file{
           path => "/usr/local/src/logs/host.access.log"
           type => "nginx-log"
           start_position => "beginning"
           codec => json
        }
}
```

```
#输出插件
output {
  if [type] == "system"{
  elasticsearch {
        hosts => ["192.168.66.66:9200"]
        index => "system-%{+YYYY.MM.dd}"
  }
 if [type] == "es-info"{
  elasticsearch {
        hosts => ["192.168.66.66:9200"]
       index => "es-info-%{+YYYY.MM.dd}"
 }
 #添加nginx日志
 if [type] == "nginx-log"{
  elasticsearch {
        hosts => ["192.168.66.66:9200"]
       index => "nginx-log-%{+YYYY.MM.dd}"
        }
  }
  #同时在控制台输出
  stdout { codec => rubydebug }
}
```

# 六、项目日志