

零基础入门ElasticSearch

当前操作系统环境的介绍

win7 + java1.8 + elasticSearch 6.8.6

一、相关软件的下载与安装

1、演示ElasticSearch

[下载地址](#)

Elasticsearch 6.8.6

WINDOWS sha asc
MACOS/LINUX sha asc
DEB sha asc
RPM sha asc
MSI (BETA) sha asc

[See issues on GitHub](#)

解压，切换到bin目录下，双击elasticsearch.bat启动ElasticSearch

```
2019-04-10T09:32:02.547[INFO] Iio.e.p.PluginsService I [w9SPrxN] loaded module [x-pack-monitoring]
2019-04-10T09:32:02.547[INFO] Iio.e.p.PluginsService I [w9SPrxN] loaded module [x-pack-rollup]
2019-04-10T09:32:02.548[INFO] Iio.e.p.PluginsService I [w9SPrxN] loaded module [x-pack-security]
2019-04-10T09:32:02.549[INFO] Iio.e.p.PluginsService I [w9SPrxN] loaded module [x-pack-sql]
2019-04-10T09:32:02.549[INFO] Iio.e.p.PluginsService I [w9SPrxN] loaded module [x-pack-upgrade]
2019-04-10T09:32:02.549[INFO] Iio.e.p.PluginsService I [w9SPrxN] loaded module [x-pack-watcher]
2019-04-10T09:32:02.551[INFO] Iio.e.p.PluginsService I [w9SPrxN] no plugins loaded
2019-04-10T09:32:13.758[INFO] Iio.e.x.s.a.s.FileRolesStore I [w9SPrxN] parsed [0] roles from file [C:\exp\elasticsearch-6.8.6\config\roles.yml]
2019-04-10T09:32:15.408[INFO] Iio.e.x.m.p.l.CppLogMessageHandler I [w9SPrxN] [controller/7168] [Main.cc@109] controller (64 bit): Version 6.8.6 (Build 73ed602c10c48e) Copyright (c) 2019 Elast
2019-04-10T09:32:15.980[DEBUG] Iio.e.a.ActionModule I [w9SPrxN] Using REST wrapper from plugin org.elasticsearch.xpack.security.Security
2019-04-10T09:32:16.485[INFO] Iio.e.d.DiscoveryModule I [w9SPrxN] using discovery type [zen] and host providers [settings]
2019-04-10T09:32:18.331[INFO] Iio.e.n.Node I [w9SPrxN] initialized
2019-04-10T09:32:18.332[INFO] Iio.e.n.Node I [w9SPrxN] starting ...
2019-04-10T09:32:21.509[INFO] Iio.e.t.TransportService I [w9SPrxN] publish_address [127.0.0.1:9300], bound_addresses [127.0.0.1:9300], ([::]:9300)
2019-04-10T09:32:24.629[INFO] Iio.e.c.s.MasterService I [w9SPrxN] zen-disco-elected-as-master ([0] nodes joined), reason: new_master ([w9SPrxN]([w9SPrxNnRzu0t1cPyh6gBQ])<H8RDR7vHRue_a3QNImlT
2019-04-10T09:32:24.634[INFO] Iio.e.c.s.ClusterApplierService I [w9SPrxN] new_master ([w9SPrxN]([w9SPrxNnRzu0t1cPyh6gBQ])<H8RDR7vHRue_a3QNImlT0Q)<127.0.0.1>([127.0.0.1:9300])<n1.machine_memory=826
2019-04-10T09:32:24.851[WARN] Iio.e.x.s.a.s.m.NativeRoleMappingStore I [w9SPrxN] Failed to clear cache for realms [{}]
2019-04-10T09:32:24.974[INFO] Iio.e.g.GatewayService I [w9SPrxN] recovered [0] indices into cluster state
2019-04-10T09:32:25.274[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [triggered_watches] for index patterns [triggered_watches*]
2019-04-10T09:32:25.383[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [watch-history-7] for index patterns [watcher-history-7*]
2019-04-10T09:32:25.443[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [watches] for index patterns [watches*]
2019-04-10T09:32:25.491[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [monitoring-logstash] for index patterns [monitoring-logstash-6-*]
2019-04-10T09:32:25.559[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [monitoring-es] for index patterns [monitoring-es-6-*]
2019-04-10T09:32:25.640[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [monitoring-beats] for index patterns [monitoring-beats-6-*]
2019-04-10T09:32:25.682[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [monitoring-alerts] for index patterns [monitoring-alerts-6]
2019-04-10T09:32:25.731[INFO] Iio.e.c.m.MetaDataIndexTemplateService I [w9SPrxN] adding template [monitoring-kibana] for index patterns [monitoring-kibana-6-*]
2019-04-10T09:32:25.878[INFO] Iio.e.l.LicenseService I [w9SPrxN] license [dc70aaf8-6635-4a3d-a536-0e9efd318b54] mode [basic] - valid
2019-04-10T09:32:27.588[INFO] Iio.e.h.n.Netty4HttpServerTransport I [w9SPrxN] publish_address [127.0.0.1:9200], bound_addresses [127.0.0.1:9200], ([::]:9200)
2019-04-10T09:32:27.589[INFO] Iio.e.n.Node I [w9SPrxN] started
```




启动完毕，浏览器地址栏输入：localhost:9200

```
localhost:9200
{
  name: "w9SPrxN",
  cluster_name: "elasticsearch",
  cluster_uuid: "a4Q901xGQu2FVIWY1rSp0Q",
  - version: {
    number: "6.8.6",
    build_flavor: "default",
    build_type: "zip",
    build_hash: "3d9f765",
    build_date: "2019-12-13T17:11:52.013738Z",
    build_snapshot: false,
    lucene_version: "7.7.2",
    minimum_wire_compatibility_version: "5.6.0",
    minimum_index_compatibility_version: "5.0.0"
  },
  tagline: "You Know, for Search"
}
```

2、Kibana下载与安装

[下载地址](#)

elastic.co/cn/downloads/past-releases#kibana		
Kibana 7.3.0	See Release Notes	Download
August 01, 2019		
Kibana 7.2.1	See Release Notes	Download
July 31, 2019		
Kibana 7.2.0	See Release Notes	Download
June 26, 2019		
Kibana 7.1.1	See Release Notes	Download
May 29, 2019		
Kibana 7.1.0	See Release Notes	Download
May 21, 2019		
Kibana 6.8.6	See Release Notes	Download
December 19, 2019		

共享 ▾ 新建文件夹					
名称	修改日期	类型	大小		
 kibana.bat	2019/12/13 17:46	Windows 批处理...	1 KB		
 kibana-keystore.bat	2019/12/13 17:46	Windows 批处理...	1 KB		
 kibana-plugin.bat	2019/12/13 17:46	Windows 批处理...	1 KB		

双击 kibana.bat 启动

地址栏输入：`http://localhost:5601/`

3、PostMan的准备

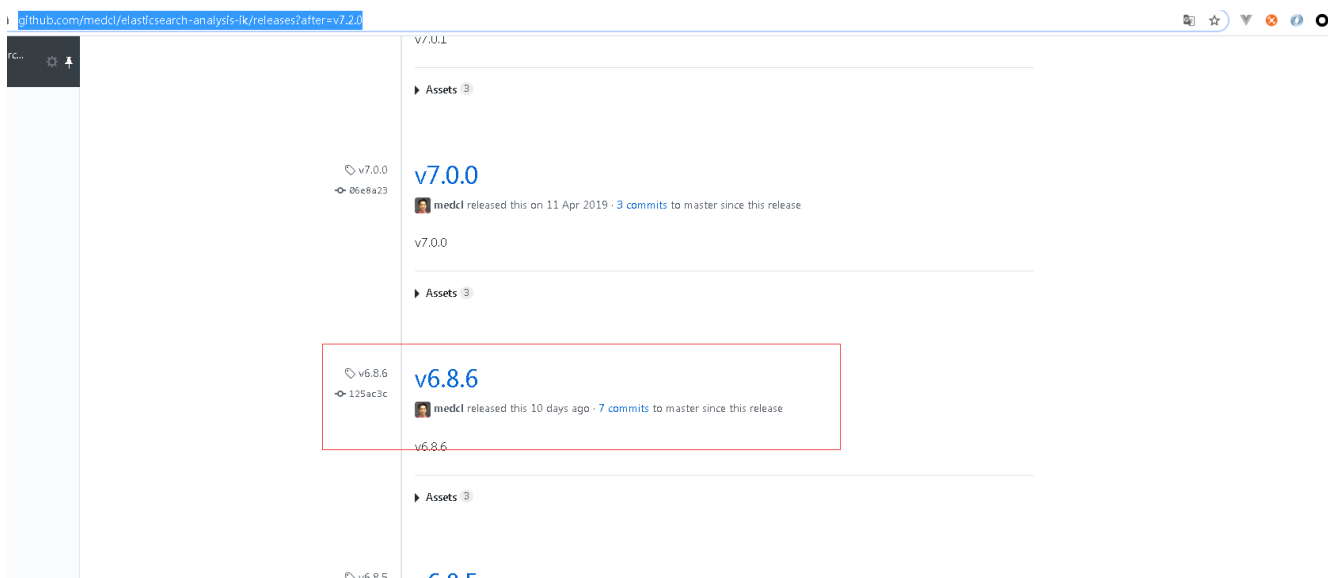
[配置标签下载地址](#)

导入

二、ElasticSearch实战

1、分词插件的下载安装与使用

[下载地址](#)



切换到安装目录的bin目录下，进行安装 `IK` 插件

```
C:\exp\elasticsearch-6.8.6\bin>elasticsearch-plugin install https://github.com/medcl/elasticsearch-analysis-ik/releases/download/v6.8.6/elasticsearch-analysis-ik-6.8.6.zip
-> Downloading https://github.com/medcl/elasticsearch-analysis-ik/releases/download/v6.8.6/elasticsearch-analysis-ik-6.8.6.zip
[=====>] 1 29%??
```

装完 IK 后，记得重启es

2、常用ElasticSearch的使用语法

```
# 建立索引
curl -H "Content-Type: application/json" -X PUT 'localhost:9200/accounts' -d '
{
  "mappings": {
    "person": {
      "properties": {
        "user": {
          "type": "text",
          "analyzer": "ik_max_word",
          "search_analyzer": "ik_max_word"
        },
        "title": {
          "type": "text",
          "analyzer": "ik_max_word",
          "search_analyzer": "ik_max_word"
        },
        "desc": {
          "type": "text",
          "analyzer": "ik_max_word",
          "search_analyzer": "ik_max_word"
        }
      }
    }
  }
}'

# 新增document
curl -H "Content-Type: application/json" -X PUT 'localhost:9200/accounts/person/1' -d '
{
  "user": "张三",
  "title": "工程师",
  "desc": "数据库管理"
}'

curl -H "Content-Type: application/json" -X POST 'localhost:9200/accounts/person' -d '
{
  "user": "李四",
  "title": "工程师",
  "desc": "系统管理"
}'

# 查询
curl 'localhost:9200/accounts/person/1?pretty=true'

# 删除
curl -X DELETE 'localhost:9200/accounts/person/1'

#修改
curl -H "Content-Type: application/json" -X PUT 'localhost:9200/accounts/person/1' -d '
{
  "user" : "张三",
  "title" : "工程师",
```

```
    "desc" : "数据库管理，软件开发"
  }'
#查询所有
curl 'localhost:9200/accounts/person/_search'
# 全文检索
curl -H "Content-Type: application/json" 'localhost:9200/accounts/person/_search' -d '
{
  "query" : { "match" : { "desc" : "软件" }}
}'
# -----
curl -H "Content-Type: application/json" 'localhost:9200/accounts/person/_search' -d '
{
  "query" : { "match" : { "desc" : "软件 系统" }}
}'
# -----
curl -H "Content-Type: application/json" 'localhost:9200/accounts/person/_search' -d '
{
  "query": {
    "bool": {
      "must": [
        { "match": { "desc": "软件" } },
        { "match": { "desc": "系统" } }
      ]
    }
  }
}'
```