大数据平台ES集群开发文档

大数据平台目前采用ES 5.6.0版本。为保障数据安全和合理使用，大数据ES集群**仅开放rest端口**。本文档主要介绍如何使用ES REST Client 接入大数据ES集群。更加详细的文档关于如何使用Java REST Client可参考以下链接：

<https://www.elastic.co/guide/en/elasticsearch/client/java-rest/5.6/index.html>

# 项目构建

## Java Low Level REST Client

### Maven依赖

<dependency>

<groupId>org.elasticsearch.client</groupId>

<artifactId>elasticsearch-rest-client</artifactId>

<version>5.6.16</version>

</dependency>

### Gradle依赖

dependencies {

compile 'org.elasticsearch.client:elasticsearch-rest-client:5.6.16'

}

## Java High Level REST Client

### Maven依赖

<dependency>

<groupId>org.elasticsearch.client</groupId>

<artifactId>elasticsearch-rest-high-level-client</artifactId>

<version>5.6.16</version>

</dependency>

### Gradle依赖

dependencies {

compile 'org.elasticsearch.client:elasticsearch-rest-high-level-client:5.6.16'

}

# 代码样例

## Java Low Level REST Client

### 类引用：

import org.apache.http.Header;

import org.apache.http.HttpHost;

import org.apache.http.auth.AuthScope;

import org.apache.http.auth.UsernamePasswordCredentials;

import org.apache.http.client.CredentialsProvider;

import org.apache.http.impl.client.BasicCredentialsProvider;

import org.apache.http.impl.nio.client.HttpAsyncClientBuilder;

import org.apache.http.util.EntityUtils;

import org.elasticsearch.client.Response;

import org.elasticsearch.client.RestClient;

import org.elasticsearch.client.RestClientBuilder;

### 配置认证用户名密码

CredentialsProvider credentialsProvider = new BasicCredentialsProvider();

credentialsProvider.setCredentials(AuthScope.ANY, new UsernamePasswordCredentials("username","password"));//在此配置用户名密码

### 创建Client实例

RestClientBuilder builder = RestClient.builder(new HttpHost("localhost", 19211)).setHttpClientConfigCallback(

new RestClientBuilder.HttpClientConfigCallback() {

@Override

public HttpAsyncClientBuilder customizeHttpClient(HttpAsyncClientBuilder httpClientBuilder) {

return httpClientBuilder.setDefaultCredentialsProvider(credentialsProvider);

}

});

RestClient restClient = builder.build();

## Java High Level REST Client

Java High Level REST Client 的构建基于Java Low Level REST Client,只是在此基础之上做了一些常用查询的封装。

### 类引用：

import org.elasticsearch.client.RestHighLevelClient;

其他与Java Low Level REST Client相同

### 配置认证用户名密码

与Java Low Level REST Client相同

### 创建Client实例

RestHighLevelClient restHighLevelClient =

new RestHighLevelClient(restLowLevelClient);

其他与Java Low Level REST Client相同