Elasticsearch，分布式搜索引擎

牛客Java高级工程师 第六章
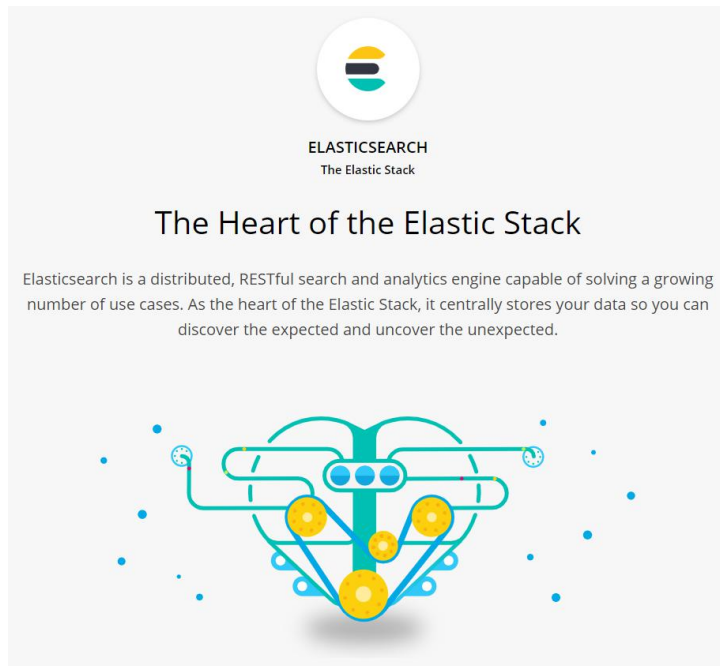
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1. Elasticsearch入门

- Elasticsearch简介
  - 一个分布式的、Restful风格的搜索引擎。
  - 支持对各种类型的数据的检索。
  - 搜索速度快，可以提供实时的搜索服务。
  - 便于水平扩展，每秒可以处理PB级海量数据。

- Elasticsearch术语
  - 索引、类型、文档、字段。
  - 集群、节点、分片、副本。

https://www.elastic.co
https://www.getpostman.com

ELASTICSEARCH
The Elastic Stack

The Heart of the Elastic Stack

Elasticsearch is a distributed, RESTful search and analytics engine capable of solving a growing number of use cases. As the heart of the Elastic Stack, it centrally stores your data so you can discover the expected and uncover the unexpected.

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▶ 2. Spring整合Elasticsearch

- 引入依赖
  - spring-boot-starter-data-elasticsearch
- 配置Elasticsearch
  - cluster-name、cluster-nodes
- Spring Data Elasticsearch
  - ElasticsearchTemplate
  - ElasticsearchRepository

Spring Data Elasticsearch `3.1.9`

👁 Overview　　**📄 Learn**

Spring Data for Elasticsearch is part of the umbrella Spring Data project which aims to provide a familiar and consistent Spring-based programming model for for new datastores while retaining store-specific features and capabilities.

The Spring Data Elasticsearch project provides integration with the Elasticsearch search engine. Key functional areas of Spring Data Elasticsearch are a POJO centric model for interacting with a Elastichsearch Documents and easily writing a Repository style data access layer.

Features

- Spring configuration support using Java based `@Configuration` classes or an XML namespace for a ES clients instances.
- `ElasticsearchTemplate` helper class that increases productivity performing common ES operations. Includes integrated object mapping between documents and POJOs.
- Feature Rich Object Mapping integrated with Spring's Conversion Service
- Annotation based mapping metadata but extensible to support other metadata formats
- Automatic implementation of `Repository` interfaces including support for custom finder methods.
- CDI support for repositories

Quick start

Bootstrap your application with Spring Initializr.

3. 开发社区搜索功能

- 搜索服务
  - 将帖子保存至Elasticsearch服务器。
  - 从Elasticsearch服务器删除帖子。
  - 从Elasticsearch服务器搜索帖子。
- 发布事件
  - 发布帖子时，将帖子异步的提交到Elasticsearch服务器。
  - 增加评论时，将帖子异步的提交到Elasticsearch服务器。
  - 在消费组件中增加一个方法，消费帖子发布事件。
- 显示结果
  - 在控制器中处理搜索请求，在HTML上显示搜索结果。

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