Pages / ... / elasticsearch

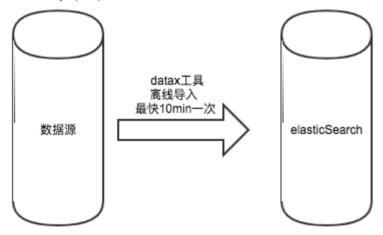
4-es在ether的架构和接入

Created by 杨超, last modified on 2018 Sep 29

- 1 db数据导入
- 2 监控系统
- 3 导入脚本
- 4 具体使用
 - 1 composer
 - 2 config
 - 3 es的ActiveRecord使用
 - 简单用法
 - 高级用法
 - 测试代码1
 - 测试代码2
 - 测试代码3
- 5 todo

1 db数据导入

支持多种 mysql/odps/file



如图所示, es可以看做一个db,数据源可以来自mysql/odps等各种,一般来说使用datax工具写一些脚本来进行导入,目前最快支持10min一次的数据导入 说明两点 1 因为华北1区 阿里云没有资源,所以目前线下的es搭建在newdev上

2 监控系统

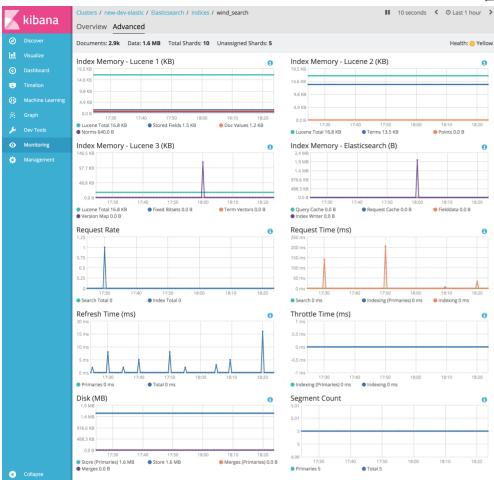
es有配套的kibana监控系统,如图所示可以监控目前的索引表数量,耗时等指标

因为kibana权限较高,有需要的同学请找我要账号密码

dev: http://kibana.newdev.ethercap.com/app/monitoring#/overview?_g=(cluster_uuid:LQP8GoZ9T_iQ5Q3RsWRBsg)

stage/prod: https://es-cn-v0h0q2d7l0001spov.kibana.elasticsearch.aliyuncs.com:5601/app/monitoring#/overview?_g=(cluster_uuid:RaWLNsUfTLa5eaqrTVZUsg)

Indices	Filter Indices	2 of 2 Show syste	m indices			
Name	Status ↓ <u>≟</u>	Document Count	Data	Index Rate	Search Rate	Un
wind_searc	• Yellow	2.9k	1.6 MB	0 /s	0 /s	
twitter	Yellow	3	14.2 KB	0 /s	0 /s	



3导入脚本

主要是datax的数据导入脚本,比较简单,仿照 数据集成-elastic_search/wind_search 编写即可sample

```
"configuration": {
    "reader": {
        "plugin": "mysql",
        "parameter": {
```

```
"datasource": "rds social",
   "column": [
     "uid",
     "uid",
     "content",
     "attr"
   ],
   "where": "",
   "splitPk": "",
   "table": "wind search"
},
"writer": {
 "plugin": "elasticsearch",
 "parameter": {
   "accessId": "elastic",
   "endpoint": "http://newdev.ethercap.com:9200",
   "indexType": "default",
   "accessKey": "//问我啊",
   "cleanup": true,
   "discovery": false,
   "column": [
       "name": "id",
       "type": "id"
      },
       "name": "uid",
       "type": "keyword"
       "analyzer": "ik max word",
       "name": "content",
        "type": "text"
     },
```

```
"name": "attr",
          "type": "keyword"
     ],
     "index": "wind search",
     "batchSize": 1000,
      "splitter": ","
  "setting": {
    "errorLimit": {
     "record": "0"
    },
    "speed": {
     "throttle": false,
     "concurrent": 1,
     "mbps": "1",
     "dmu": 1
"type": "job",
"version": "1.0"
```

4 具体使用

如果数据已经导入es之后

es有直接的yii2-sdk,但是因为我们现在的es版本是5.3,这个yii2的分支还在开发中,所以需要工程支持dev的composer

1 composer

```
"minimum-stability": "dev",
"yiisoft/yii2-elasticsearch": "~2.1.0"
```

2 config

注意dev和stage/prod不同,因为阿里云的es是不允许直连nodes

dev配置

stage/prod配置

```
],
```

3 es的ActiveRecord使用

走到这里,就可以直接用yii2-es-sdk了es有对应的ActiveRecord和ActiveQuery, 然后基本的使用和普通的ActiveQuery没有太大区别,高阶的用法需要对es有相当的了解简单使用参考这个: https://github.com/yiisoft/yii2-elasticsearch/blob/master/docs/guide/README.md

简单用法

先写出 WindSearch Model, 查询之后返回的结果就是es的ActiveRecord 支持各种event/behavior,使用起来相当方便(比如attrBehavior等)

```
<?php
namespace common\es;
class WindSearch extends \yii\elasticsearch\ActiveRecord
    public static function index()
        return 'wind search';
    public static function type()
        return 'default';
     * @return array the list of attributes for this record
    public function attributes()
```

测试代码, 搜索content字段 和 '好'有相似的models, 并且高亮content字段

结果:

```
array(2) {
  [0] =>
  array(6) {
    ["_index"] =>
    string(11) "wind_search"
    ["_type"] =>
    string(7) "default"
    ["_id"] =>
    string(12) "14af4ffc49b9"
```

```
[" score"]=>
  float(1)
  [" source"]=>
  array(3) {
   ["uid"]=>
    string(12) "14af4ffc49b9"
   ["attr"]=>
   string(98) "39693615e74f28c069e8564e238cdfa31b4d7f5a07956050b1eaa6a9e29e6589c8d9050eaccc82bf42c20a4c6ee47caf49"
    ["content"]=>
    string(9) "大家好"
  ["highlight"]=>
  array(1) {
   ["content"]=>
   array(1) {
     [0]=>
      string(18) "大家<em>好</em>"
[1]=>
array(6) {
  [" index"]=>
  string(11) "wind search"
 [" type"]=>
  string(7) "default"
  [" id"]=>
  string(12) "dfe48797d930"
  [" score"]=>
  float(1)
  [" source"]=>
  array(3) {
   ["uid"]=>
   string(12) "dfe48797d930"
   ["attr"]=>
    string(96) "697e1c33a06a4d609278e25837c8fe419ca8047b5c29ac90dc2371056ecf7571b6b1237ea817e1f44c5574667f517238"
```

```
["content"]=>
string(56) "裤腿来lol考虑图实际KKK咯哦下午兔兔里Hi好"
}
["highlight"]=>
array(1) {
    ["content"]=>
    array(1) {
        [0]=>
        string(65) "裤腿来lol考虑图实际KKK咯哦下午兔兔里Hi<em>好</em>"
    }
}
}
```

高级用法

这个需要对es语法有相当了解,普通使用者直接问我吧

FaasRecScoreInvestorTag Model

```
class FaasRecScoreInvestorTagQuery extends \yii\elasticsearch\ActiveQuery
{
    // ?tagIds=116&type=3&searchType=2&page=1&tagInnerJoinType=1&ts=1
    public static function type($type)
    {
        return ['match' => ['type' => $type]];
    }

    public static function ts($ts)
    {
        return ['match' => ['ts' => $ts]];
    }
}
```

```
public static function tagId($tagId)
{
    return ['match' => ['array_tagids' => $tagId]];
}

public static function tagIds($tagIds)
{
    return ['terms' => ['array_tagids' => $tagIds]];
}
```

测试代码1

1 这个表示, 查出ts=1 and type=3 and tagld in (116,8546) and tagld != 117

测试代码2

根据id来获取单个或者批量的数据,很像findOne和findAll

```
$customer = FaasRecScoreInvestorTag::get('21071_3_3'); // get a record by pk
```

```
$customers = FaasRecScoreInvestorTag::mget(['21071_3_3', '21071_3_5']); // get multiple records by pk
```

测试代码3

查出name字段和 '我有一匹马' 模糊匹配的字段

5 todo

es的语法和用途还有很多,有待大家去发现

https://www.elastic.co/guide/index.html

Like Be the first to like this No labels

地址:北京市朝阳区建国路86号佳兆业广场北塔6层梦想加空间601室

以太资本由艾普拉斯投资顾问(北京)有限公司运营,提供早期互联网项目的投融资对接服务

©2014-2017 以太资本 京ICP备14028208号