


# Elasticsearch

My book 101


book\_01.txt

# Requirement


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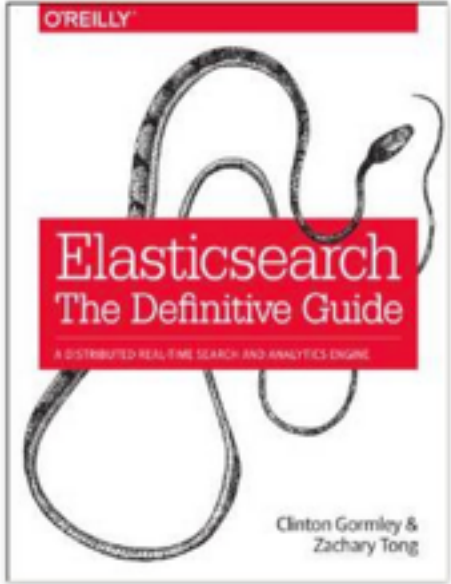
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**Elasticsearch: The Definitive Guide** Paperback – February 7, 2015  
by [Clinton Gormley](#) (Author), [Zachary Tong](#) (Author)  
ISBN-13: 978-1449358549 ISBN-10: 1449358543 Edition: 1<sup>st</sup>


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Learn how to use Elasticsearch, an open source, distributed, RESTful search engine built on top of Apache Lucene. Each chapter in this book tackles a particular facet of Elasticsearch with separate sections for beginners more advanced programmers. If you're a beginner, advanced techniques are not required reading, but you can revisit them once you have a solid understanding of the basics.

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# Requirement

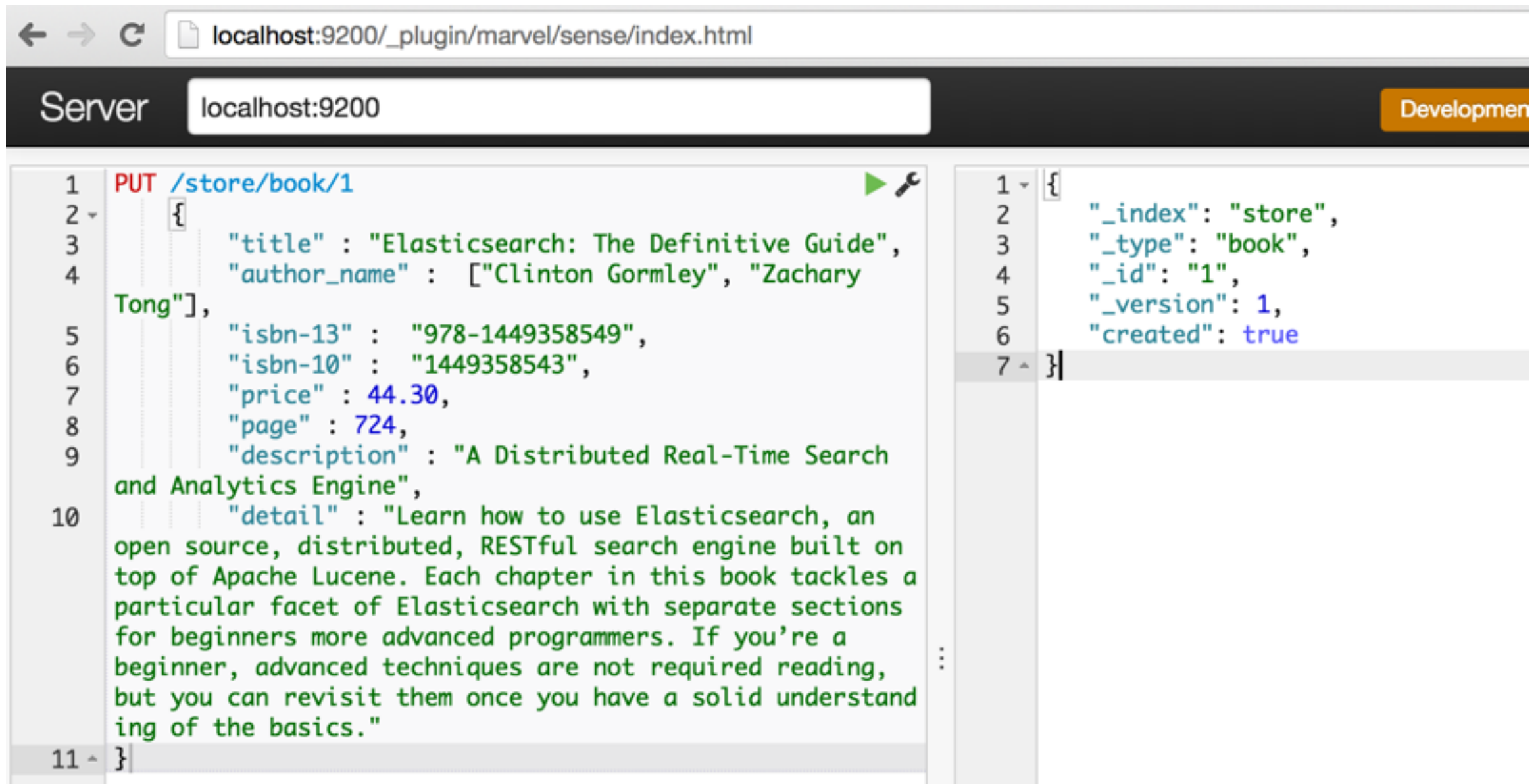
- เก็บข้อมูลหนังสือ ต้องมี tags ด้วย
- ดึงข้อมูลหนังสือ
- ค้นหาข้อมูลหนังสือด้วย field ต่างๆ
- ค้นหาข้อมูลหนังสือตามประโยคที่ต้องการ
- ค้นหาข้อมูลหนังสือที่มีจำนวนหน้ามากกว่า 500 หน้า
- ทำการ highlight ผลการค้นหา
- ทำการสรุปข้อมูลต่างๆ เช่น จำนวนหนังสือในแต่ละ tag

# My Book

Name	Type	Value
Id	Number	1
Title	String	Elasticsearch
Author_Name	String	["A", "B"]
Tag	String	["A", "B"]
Isbn_13	String	978-1449358549
Isbn_10	String	1449358543
Price	Double	44.30
Page	Number	724
Description	String	
Detail	String	

# Create my book

book\_01.txt



```
1 PUT /store/book/1
2 {
3   "title" : "Elasticsearch: The Definitive Guide",
4   "author_name" : ["Clinton Gormley", "Zachary
5   Tong"],
6   "isbn-13" : "978-1449358549",
7   "isbn-10" : "1449358543",
8   "price" : 44.30,
9   "page" : 724,
10  "description" : "A Distributed Real-Time Search
11  and Analytics Engine",
12  "detail" : "Learn how to use Elasticsearch, an
13  open source, distributed, RESTful search engine built on
14  top of Apache Lucene. Each chapter in this book tackles a
15  particular facet of Elasticsearch with separate sections
16  for beginners more advanced programmers. If you're a
17  beginner, advanced techniques are not required reading,
18  but you can revisit them once you have a solid understand
19  ing of the basics."
20 }
```

```
1 {
2   "_index": "store",
3   "_type": "book",
4   "_id": "1",
5   "_version": 1,
6   "created": true
7 }
```

# Index Mapping

GET /store/\_mappings

```
{
  "store": {
    "mappings": {
      "book": {
        "properties": {
          "author_name": {
            "type": "string"
          },
          "description": {
            "type": "string"
          },
          "detail": {
            "type": "string"
          },
          "isbn-10": {
            "type": "string"
          },
          "isbn-13": {
            "type": "string"
          },
          "page": {
            "type": "long"
          },
          "price": {
            "type": "double"
          },
          "title": {
            "type": "string"
          }
        }
      }
    }
  }
}
```

# Retrieve data

GET /store/book/1

```
{
  "_index": "store",
  "_type": "book",
  "_id": "1",
  "_version": 1,
  "found": true,
  "_source": {
    "title": "Elasticsearch: The Definitive Guide",
    "author_name": [
      "Clinton Gormley",
      "Zachary Tong"
    ],
    "isbn-13": "978-1449358549",
    "isbn-10": "1449358543",
    "price": 44.3,
    "page": 724,
    "description": "A Distributed Real-Time Search and Analytics Engine",
    "detail": "Learn how to use Elasticsearch, an open source, distributed, RESTful search engine built on top of Apache Lucene. Each chapter in this book tackles a particular facet of Elasticsearch with separate sections for beginners more advanced programmers. If you're a beginner, advanced techniques are not required reading, but you can revisit them once you have a solid understanding of the basics."
  }
}
```

# Search data

GET /store/book/\_search

```
{
  "took": 83,
  "timed_out": false,
  "_shards": {
    "total": 5,
    "successful": 5,
    "failed": 0
  },
  "hits": {
    "total": 2,
    "max_score": 1,
    "hits": [
      {
        "_index": "store",
        "_type": "book",
        "_id": "1",
        "_score": 1,
        "_source": {
          "title": "Elasticsearch: The Definitive Guide",
          "author_name": [
            "Clinton Gormley",
            "Zachary Tong"
          ],
          "isbn-13": "978-1449358549",
          "isbn-10": "1449358543",
          "price": 44.3,
          "page": 724,
          "description": "A Distributed Real-Time Search and Analytics Engine",

```

# of document

detail



# Search with title

GET /store/book/\_search?q=title:Elasticsearch

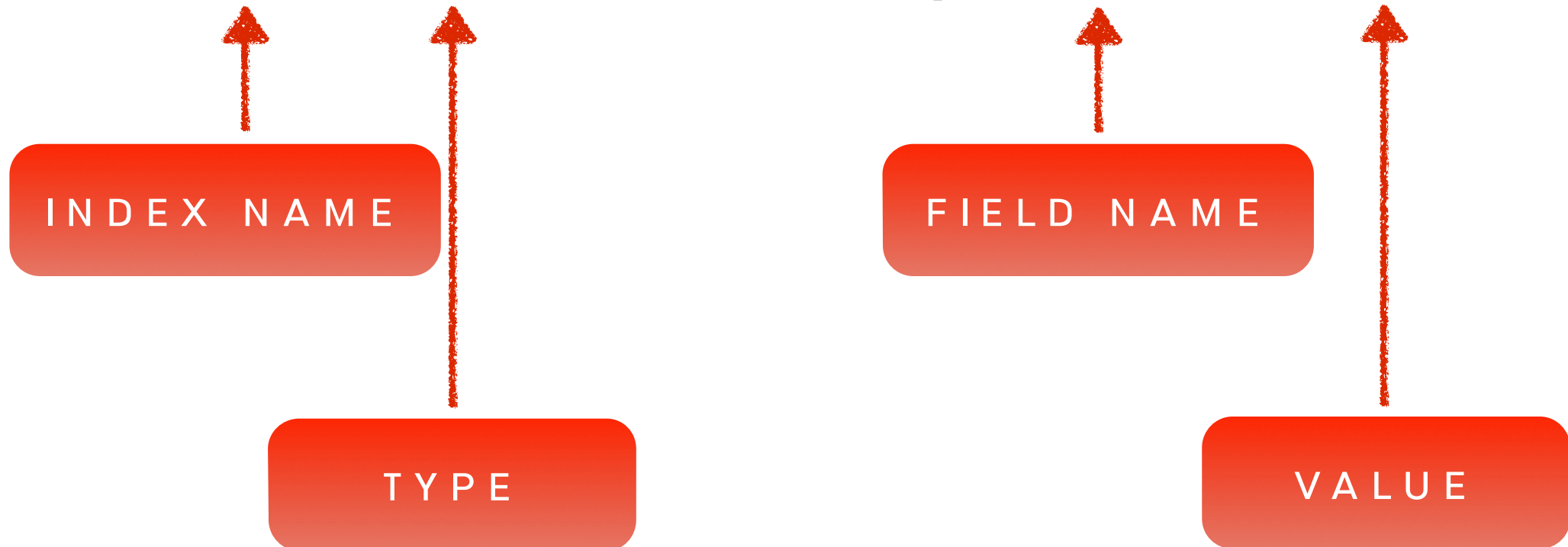
```
{
  "took": 2,
  "timed_out": false,
  "_shards": {
    "total": 5,
    "successful": 5,
    "failed": 0
  },
  "hits": {
    "total": 1,
    "max_score": 0.15342641,
    "hits": [
      {
        "_index": "store",
        "_type": "book",
        "_id": "1",
        "_score": 0.15342641,
        "_source": {
          "title": "Elasticsearch: The Definitive Guide",
          "author_name": [
            "Clinton Gormley",
            "Zachary Tong"
          ],
          "isbn-13": "978-1449358549",
          "isbn-10": "1449358543",
          "price": 44.3,
          "page": 724,
          "description": "A Distributed Real-Time Search and Analytics Engine",
          "detail": "Learn how to use Elasticsearch, an open source, distributed,
```

# of document

detail

# Search with other field

GET /store/book/\_search?q=<field>:<value>



# Search with DSL

GET /store/book/\_search

```
{  
  "query" : {  
    "match" : {  
      "title" : "Elasticsearch"  
    }  
  }  
}
```

# Search with DSL

GET /store/book/\_search

```
{  
  "query" : {  
    "match" : {  
      "_all" : "Elasticsearch"  
    }  
  }  
}
```

# Search with DSL

GET /store/book/\_search

```
{
  "query" : {
    "filtered" : {
      "filter" : {
        "range" : {
          "page":{"gt":100}
        }
      },
      "query" : {
        "match" : {
          "title" : "Elasticsearch"
        }
      }
    }
  }
}
```

# Phrase search

GET /store/book/\_search

```
{  
  "query" : {  
    "match_phrase" : {  
      "_all" : "open source"  
    }  
  }  
}
```

# Highlight search

GET /store/book/\_search

```
{
  "query" : {
    "match_phrase" : {
      "_all" : "clean"
    }
  },
  "highlight" : {
    "fields" : {
      "detail" : {},
      "title" : {}
    }
  }
}
```

# Analytic [Group by]

GET /store/book/\_search

```
{  
  "aggs": {  
    "all_tags": {  
      "terms": {  
        "field": "tag"  
      }  
    }  
  }  
}
```



# Analytic [Group by]

```
{,
  "aggregations": {
    "all_tags": {
      "doc_count_error_upper_bound": 0,
      "sum_other_doc_count": 0,
      "buckets": [
        {
          "key": "computer",
          "doc_count": 2
        },
        {
          "key": "development",
          "doc_count": 1
        },
        {
          "key": "search",
          "doc_count": 1
        }
      ]
    }
  }
}
```