

Ethan Anthony

Section 3

Get Going with Documents and Indices





In this Section, we are going to take a look at...

- Adding and deleting an index
- Adding and deleting a document
- Adding documents with Bulk API



1x



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Video 3.1

Adding and Deleting an Index



In this Video, we are going to take a look at...

- Adding an index
- Setting up mapping
- Deleting an index
- Implementation

Index

- Logical namespace which points to one or more shards in an ElasticSearch cluster and serves as the place to store related data
- Adding an index to ElasticSearch:
 - `curl -XPUT http://localhost:9200/INDEX_NAME`

Mapping

- The process of describing field properties of a document through the type
- Example: Document Fields
 - isbn → integer
 - name → string
 - date → date

Mapping

- Elasticsearch supports to following simple field
- Types:

ElasticSearch Types	JSON Types
String: string	String: Michael Simms
Whole number: byte, short, integer, and long	Whole number: 439
Floating-point: float, double	Floating point: 10.30
Boolean: boolean	Boolean: true or false
Date: date	String, valid date: 2012-08-01

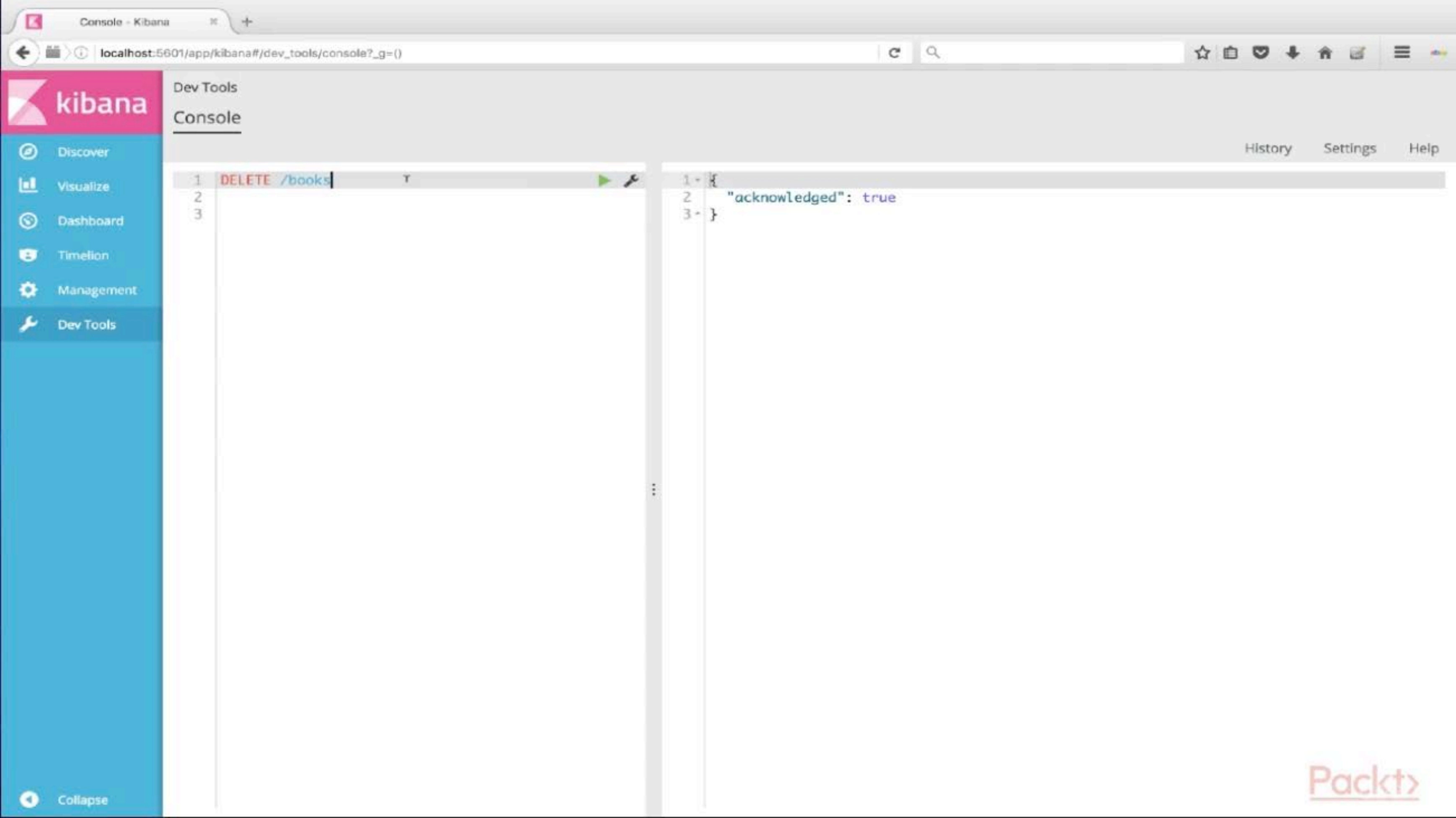
Deleting an Index

- `curl -XDELETE http://localhost:9200/INDEX_NAME`
- Deleting Multiple indices at one time
 - `curl -XDELETE http://localhost:9200/`
- Note: Deleting an index effectively removes all documents and types associated with that index


```
Ethans-MacBook-Pro-2:~ eaofxr$ curl -XPUT http://localhost:9200/books  
{"acknowledged":true,"shards_acknowledged":true}Ethans-MacBook-Pro-2:~ eaofxr$
```

```
Ethans-MacBook-Pro-2:~ eaofxr$ curl -XPUT http://localhost:9200/books  
{"acknowledged":true,"shards_acknowledged":true}Ethans-MacBook-Pro-2:~ eaofxr$ curl http://localhost:9200/books  
{"books":{"aliases":{},"mappings":{},"settings":{"index":{"creation_date":"1480106632732","number_of_shards":"5","number_of_replicas":"1","uuid":"UK9r-yXlRliT9GrNAZq0yQ","version":{"created":"5000026"}}}}}}Ethans-MacBook-Pro-2:~ eaofxr$
```

```
Ethans-MacBook-Pro-2:~ eaofxr$ curl -XPUT http://localhost:9200/books
{"acknowledged":true,"shards_acknowledged":true}Ethans-MacBook-Pro-2:~ eaofxr$ curl http://localhost:9200/books
{"books":{"aliases":{},"mappings":{},"settings":{"index":{"creation_date":"1480106632732","number_of_shards":"5","number_of_replicas":"1","uuid":"UK9r-yXlRliT9GrNAZq0yQ","version":{"created":"5000026"}}}}}Ethans-MacBook-Pro-2:~ eaofxr$ curl -XGET http://localhost:9200/_cluster/health?pretty
{
  "cluster_name" : "elasticsearch",
  "status" : "yellow",
  "timed_out" : false,
  "number_of_nodes" : 1,
  "number_of_data_nodes" : 1,
  "active_primary_shards" : 21,
  "active_shards" : 21,
  "relocating_shards" : 0,
  "initializing_shards" : 0,
  "unassigned_shards" : 21,
  "delayed_unassigned_shards" : 0,
  "number_of_pending_tasks" : 0,
  "number_of_in_flight_fetch" : 0,
  "task_max_waiting_in_queue_millis" : 0,
  "active_shards_percent_as_number" : 50.0
}
Ethans-MacBook-Pro-2:~ eaofxr$
```



Discover



Visualize



Dashboard



Timelion



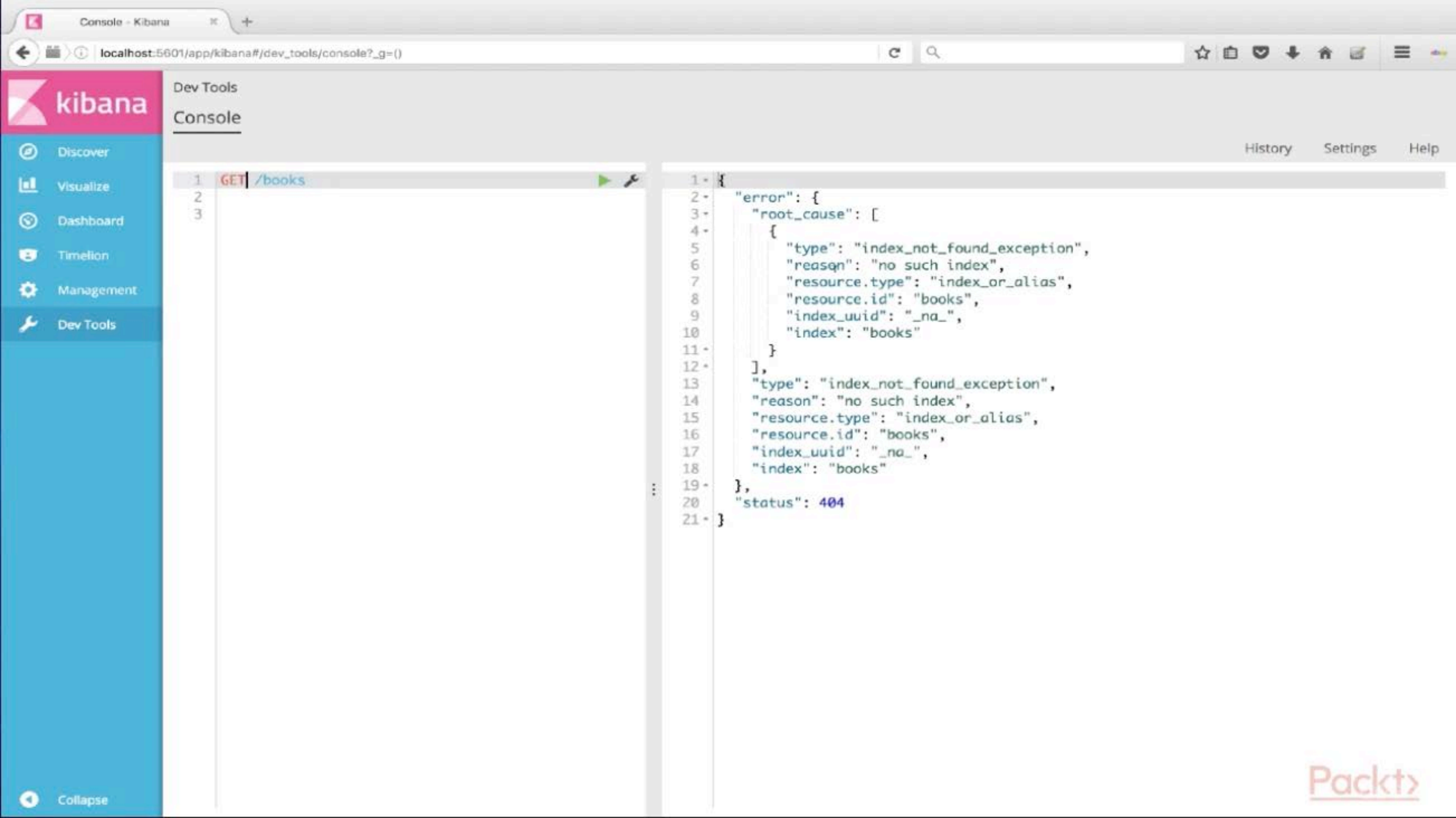
Management

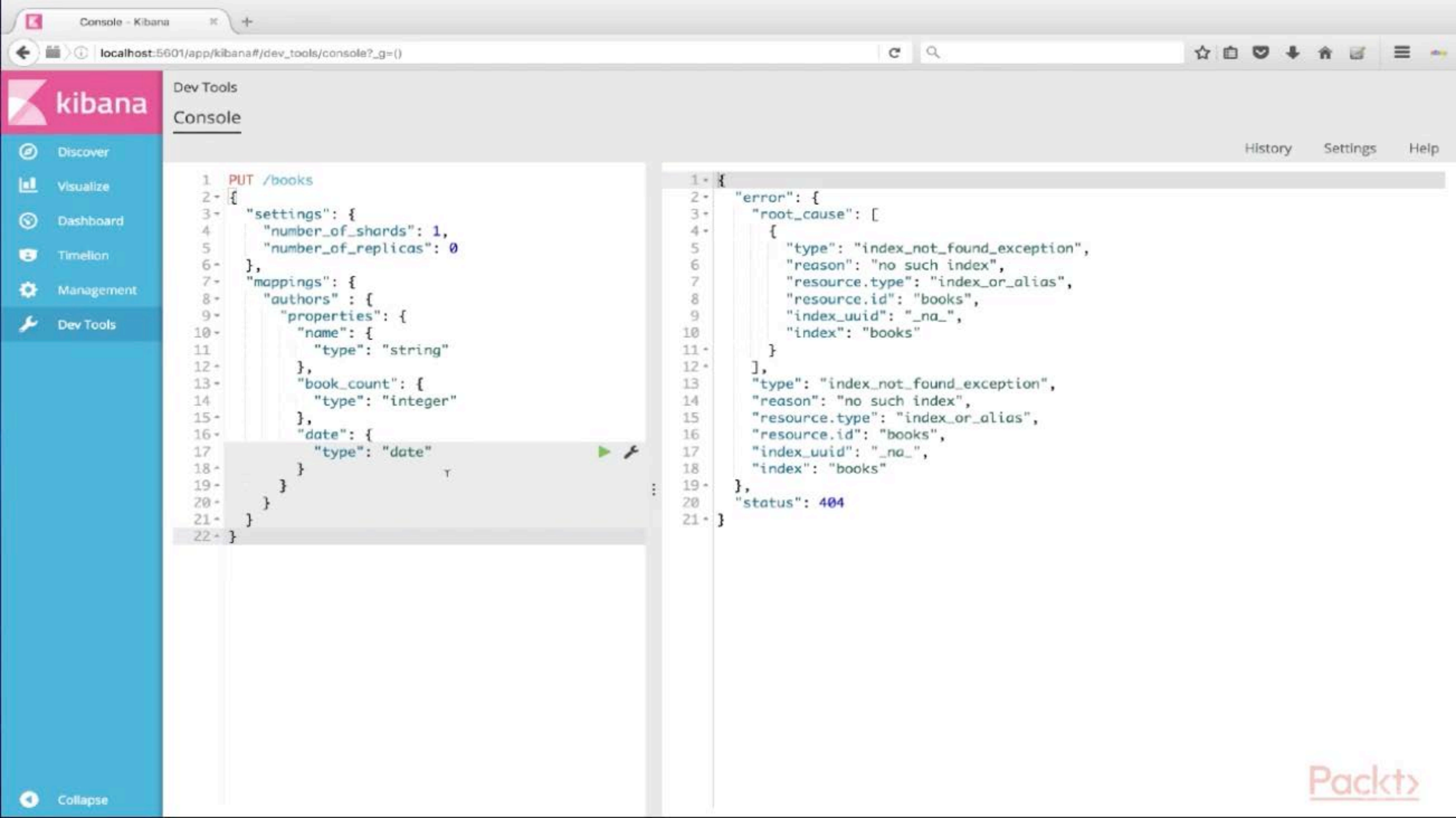


Dev Tools



Collapse





Dev Tools

Console

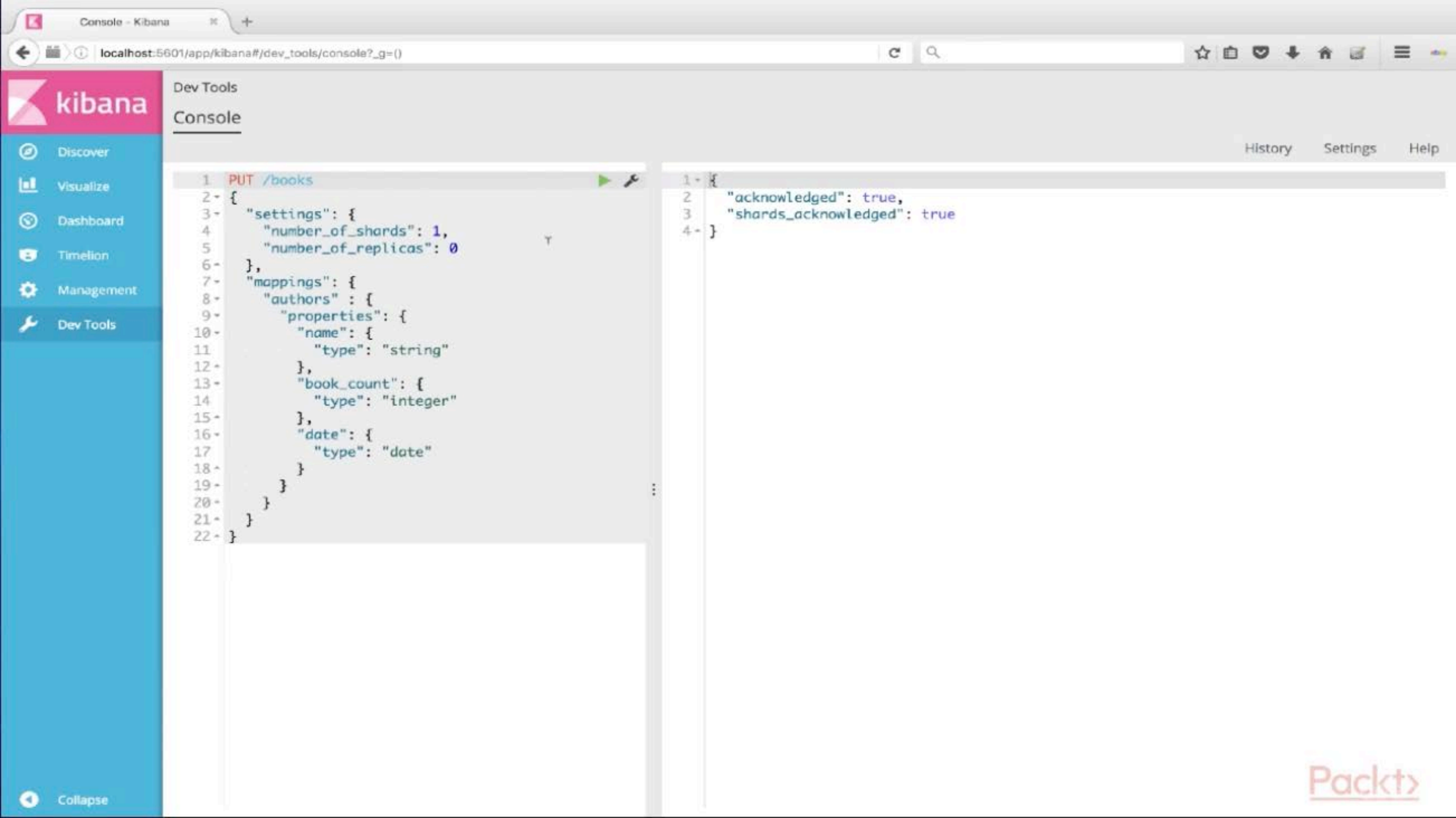
History

Settings

Help

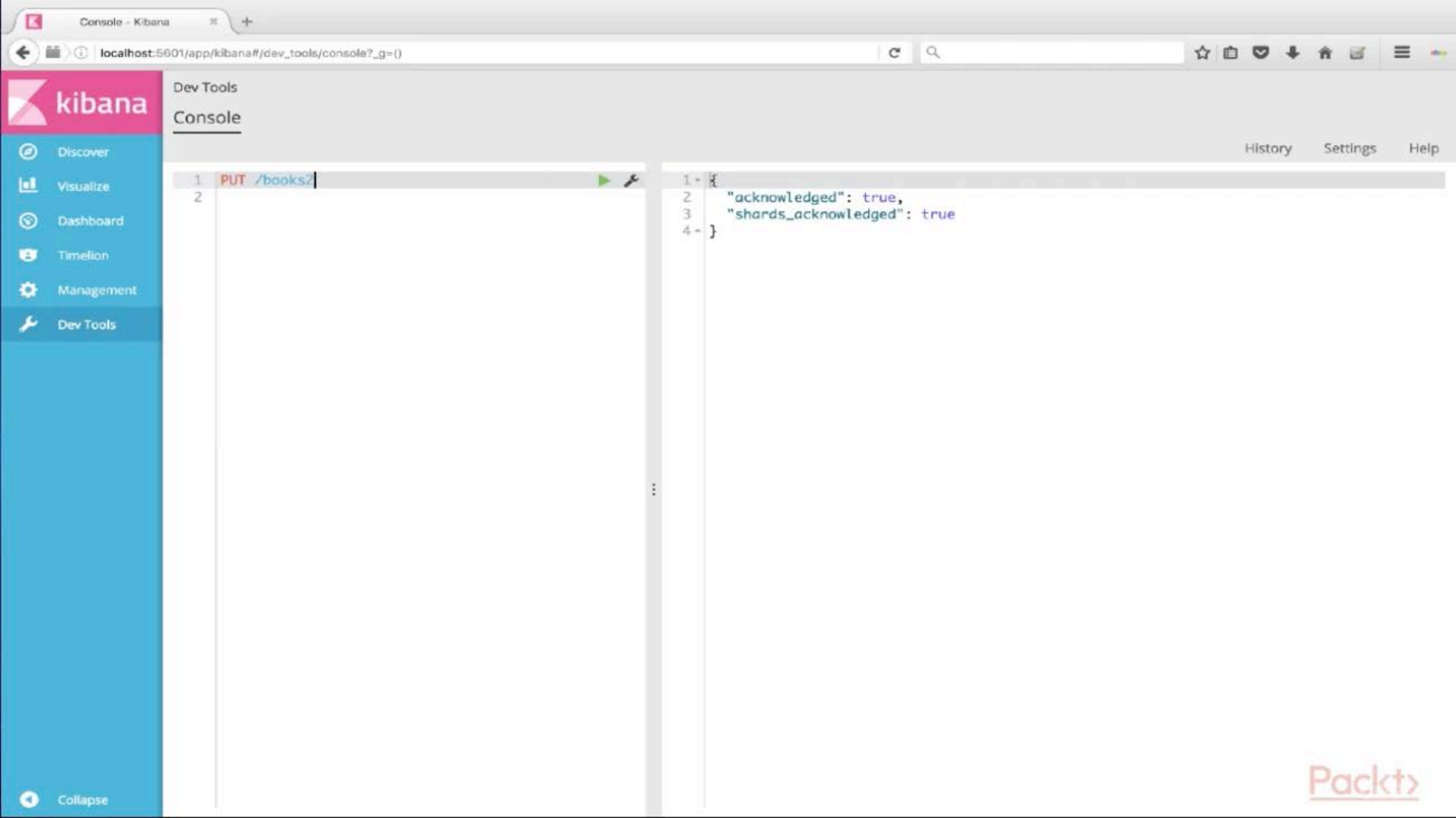
```
1 PUT /books
2 {
3   "settings": {
4     "number_of_shards": 1,
5     "number_of_replicas": 0
6   },
7   "mappings": {
8     "authors": {
9       "properties": {
10        "name": {
11          "type": "string"
12        },
13        "book_count": {
14          "type": "integer"
15        },
16        "date": {
17          "type": "date"
18        }
19      }
20    }
21  }
22 }
```

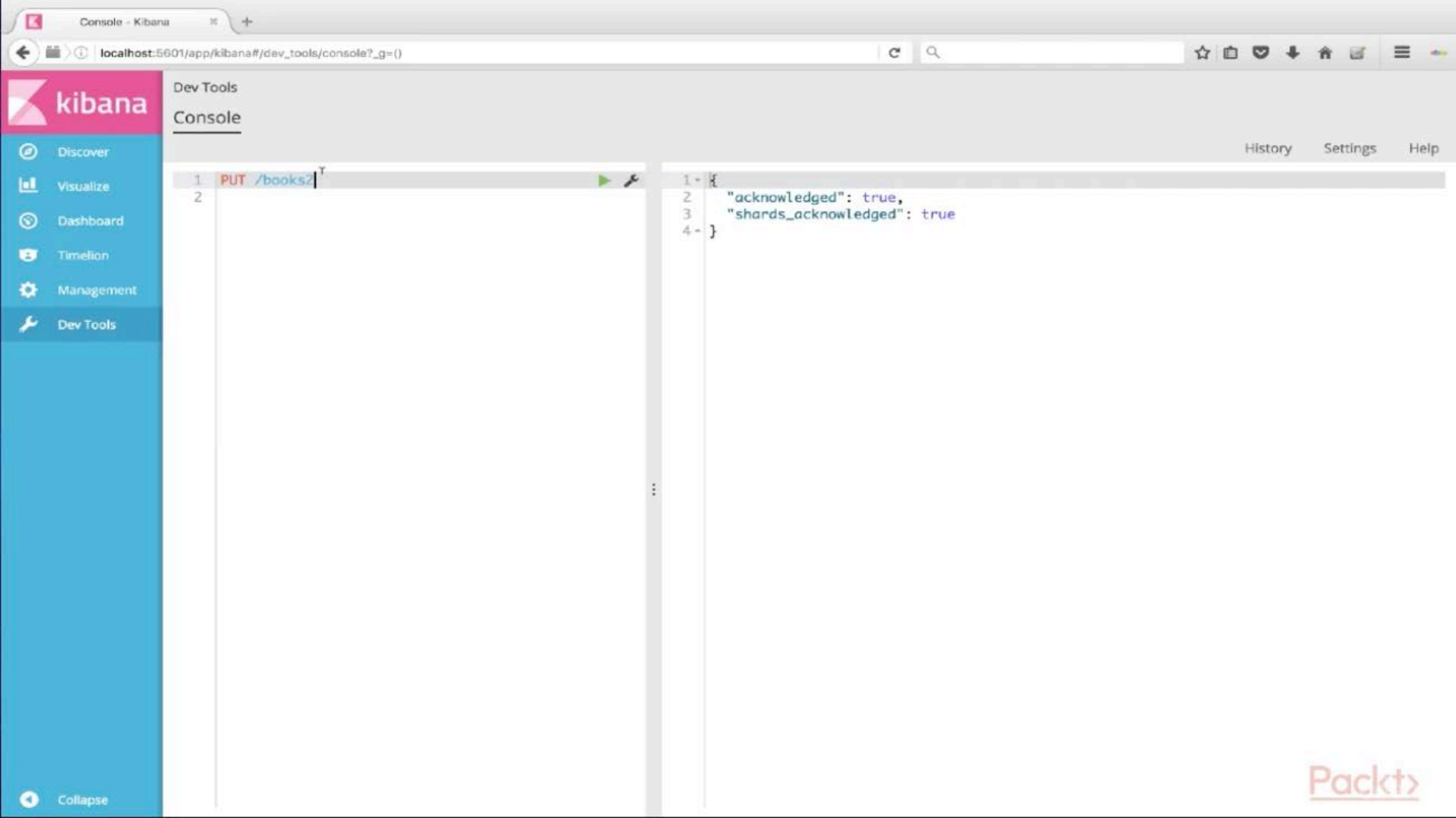
```
1 {
2   "error": {
3     "root_cause": [
4       {
5         "type": "index_not_found_exception",
6         "reason": "no such index",
7         "resource.type": "index_or_alias",
8         "resource.id": "books",
9         "index_uuid": "_na_",
10        "index": "books"
11      }
12    ],
13    "type": "index_not_found_exception",
14    "reason": "no such index",
15    "resource.type": "index_or_alias",
16    "resource.id": "books",
17    "index_uuid": "_na_",
18    "index": "books"
19  },
20  "status": 404
21 }
```

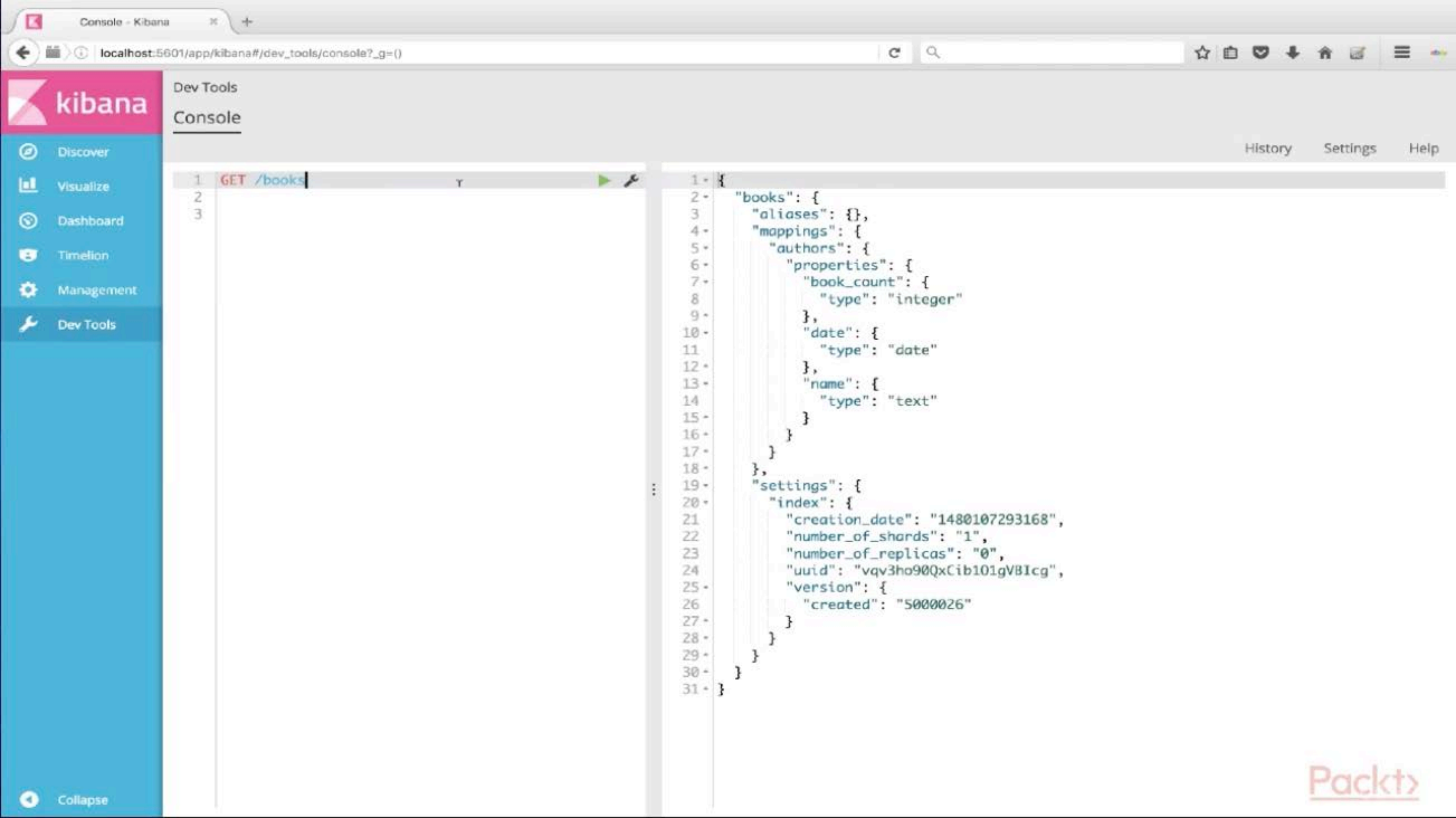


```
1 PUT /books
2 {
3   "settings": {
4     "number_of_shards": 1,
5     "number_of_replicas": 0
6   },
7   "mappings": {
8     "authors": {
9       "properties": {
10        "name": {
11          "type": "string"
12        },
13        "book_count": {
14          "type": "integer"
15        },
16        "date": {
17          "type": "date"
18        }
19      }
20    }
21  }
22 }
```

```
1 {
2   "acknowledged": true,
3   "shards_acknowledged": true
4 }
```







Dev Tools

Console

History

Settings

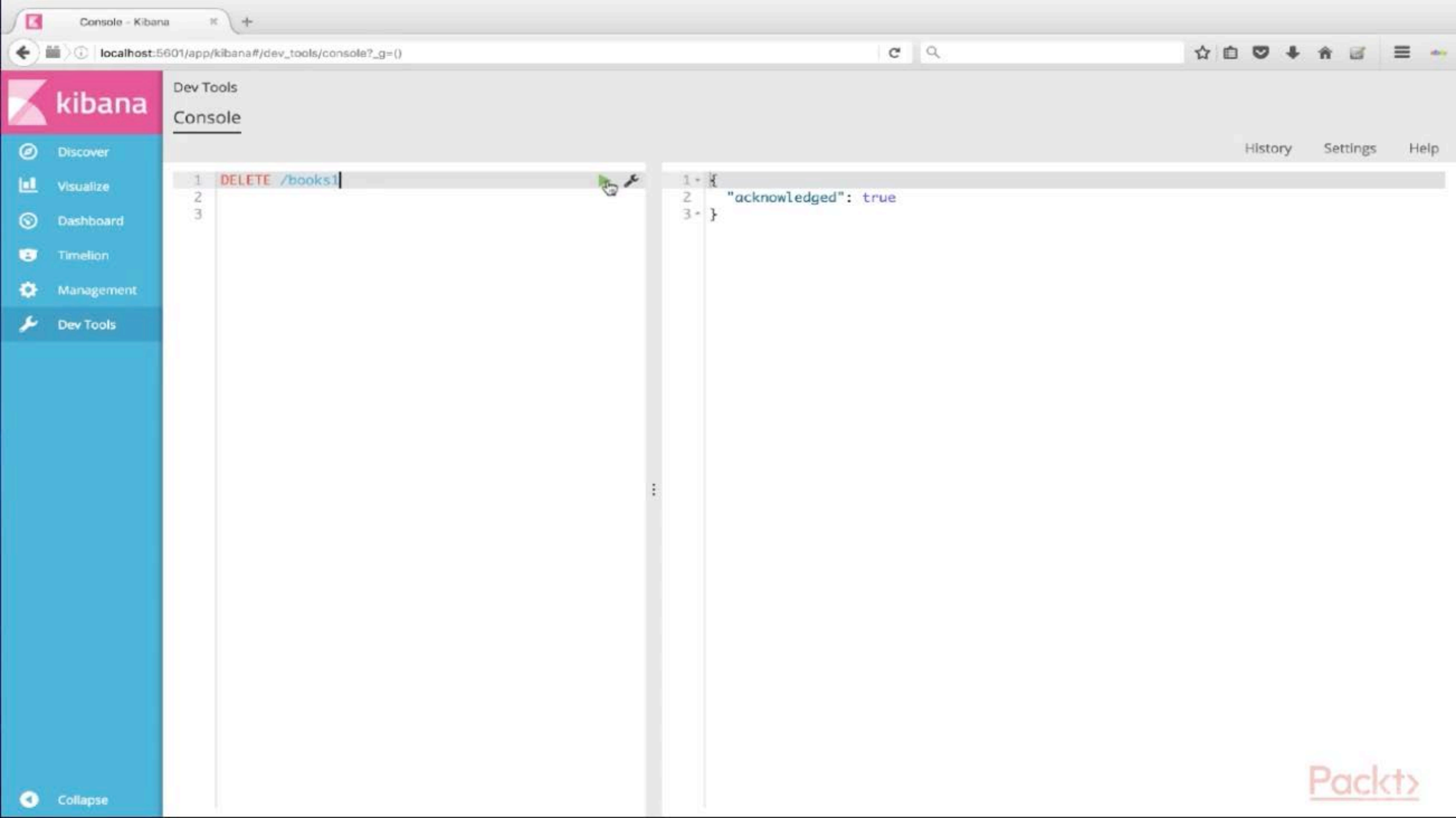
Help

1 GET /books

2

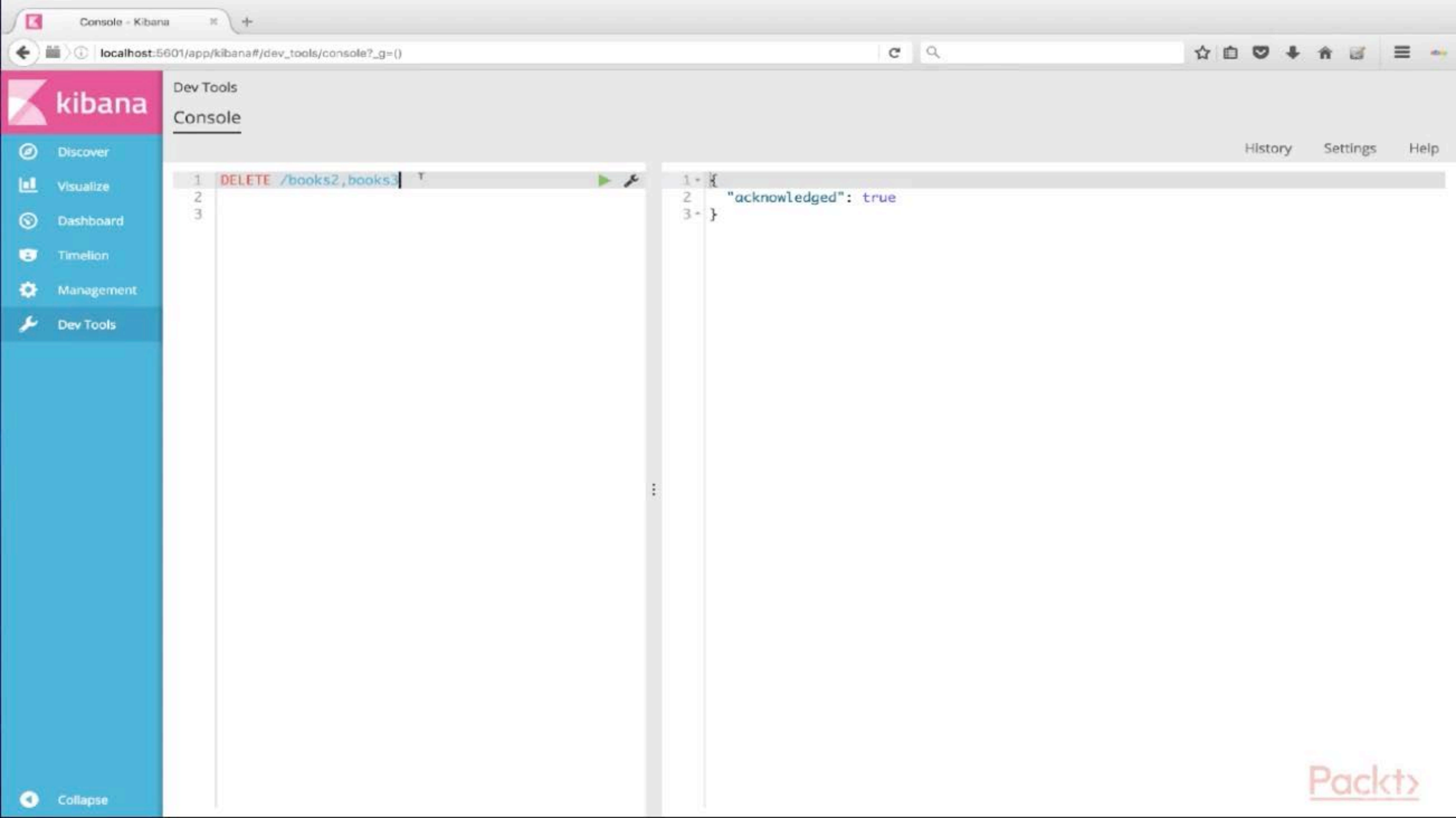
3

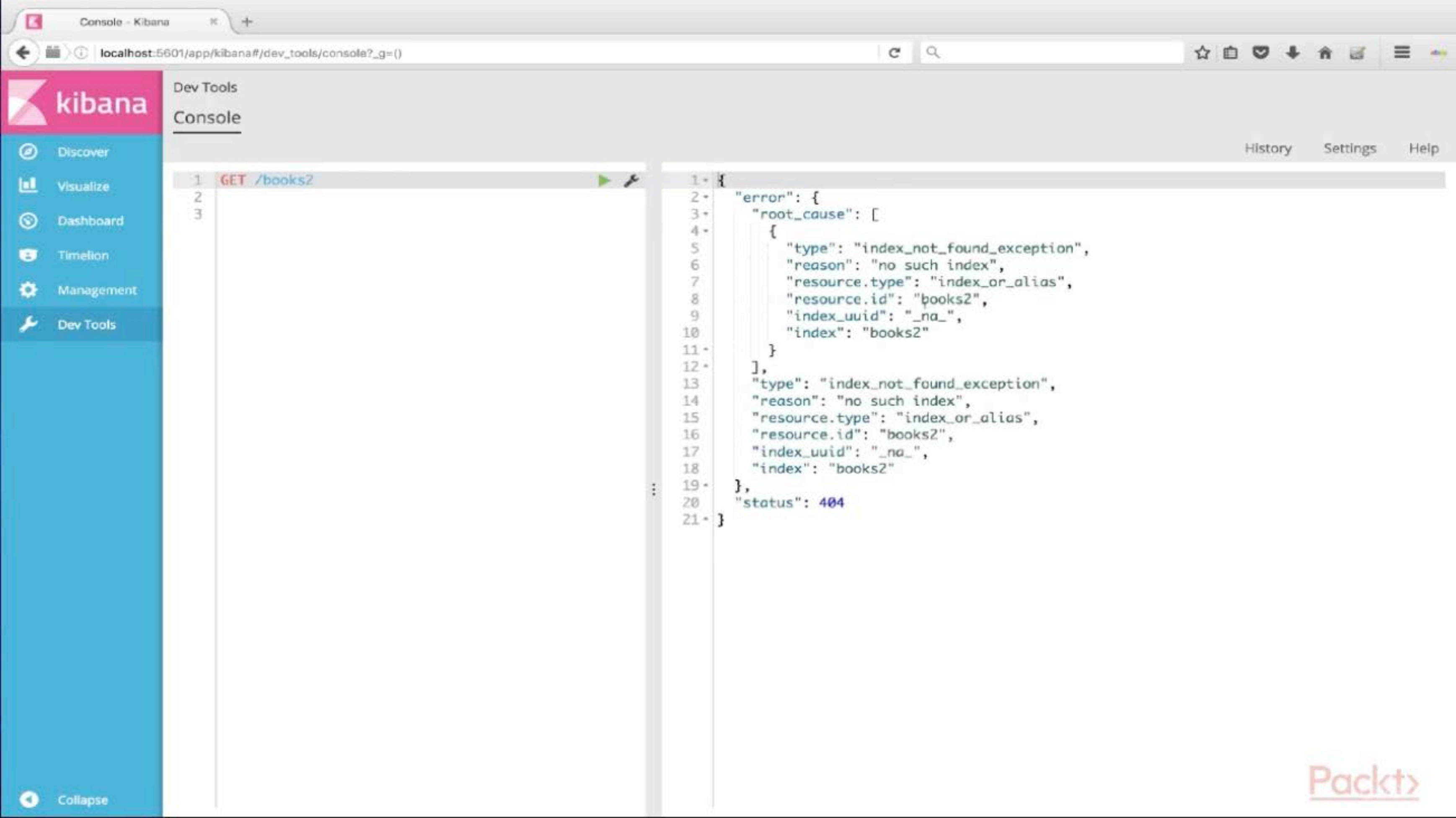
```
1 {
2   "books": {
3     "aliases": {},
4     "mappings": {
5       "authors": {
6         "properties": {
7           "book_count": {
8             "type": "integer"
9           },
10          "date": {
11            "type": "date"
12          },
13          "name": {
14            "type": "text"
15          }
16        }
17      }
18    },
19    "settings": {
20      "index": {
21        "creation_date": "1480107293168",
22        "number_of_shards": "1",
23        "number_of_replicas": "0",
24        "uuid": "vqv3ho90QxCib101gVB1cg",
25        "version": {
26          "created": "5000026"
27        }
28      }
29    }
30  }
31 }
```

- Discover
- Visualize
- Dashboard
- Timeline
- Management
- Dev Tools







Next Video

Adding and Deleting Documents