

beyond search...

Honza Král  
@honzakral

REST HTTP JSON distributed  
search analytics real-time  
scalable open-source  
Lucene ...

# Documents

```
# curl -XPUT localhost:9200/stack/question/42 -d '{  
  "some": "json"  
}'
```

```
# curl -XGET localhost:9200/stack/question/42
```

```
# curl -XDELETE localhost:9200/stack/question/42
```

# search

```
# curl -XGET localhost:9200/_search?q=conference
```

```
# curl -XGET localhost:9200/_search -d '{  
  "query": {  
    "query_string": {  
      "query": "conference AND title:python"  
    }  
  }  
}'
```

# queries & filters

```
# curl -XGET localhost:9200/stack/_search -d '{
  "query": {
    "filtered": {
      "query": {
        "bool": {
          "must": [
            {"multi_match": {
              "fields": ["title^10", "body"]
              "query": "python"
            }},
          ],
          "must_not": [
            {"match": {"title": "php"}}
          ]
        }
      },
      "filter": {
        "range": {"creation_date": {"from": "2012-01-01"}}
      }
    }
  }
}'
```

Let us pray to the demo gods!

# parent → child

```
# curl -XPUT localhost:9200/stack/answer/_mapping  
-d '{  
  "_parent": {  
    "type": "question"  
  }  
}'
```

```
# curl -XPUT localhost:9200/stack/answer/1?parent=42 -d '{  
  "some": "json"  
}'
```

# has\_parent

```
# curl -XGET localhost:9200/stack/answer/_search -d
'{
  "query": {
    "filtered": {
      "query": {
        "has_parent": {
          "parent_type": "question",
          "query": {"match": {"body": "python"}}
        }
      },
      "filter": {
        "range": {
          "creation_date": {"from": "2012-01-01"}
        }
      }
    }
  }
}'
```



# nested

```
# curl -XGET localhost:9200/stack/_search -d '{
  "query": {
    "nested": {
      "path": "comments",
      "query": {
        "bool": {
          "must": [
            {"match":
              {"comments.text": "python"}},
            {"match":
              {"comments.owner.location": "italy"}}
          ]
        }
      }
    }
  }
}'
```

# percolator

```
# curl -XPUT localhost:9200/_percolator/stack/conf -d '{  
  "query" : {  
    "term" : {  
      "tile" : "conference"  
    }  
  }  
}'
```

```
# curl -XPUT localhost:9200/stack/question/_percolate -d '{  
  "doc": {  
    "title": "EuroPython conference"  
  }  
}'
```

Is it web scale?

YES!

# distributed model

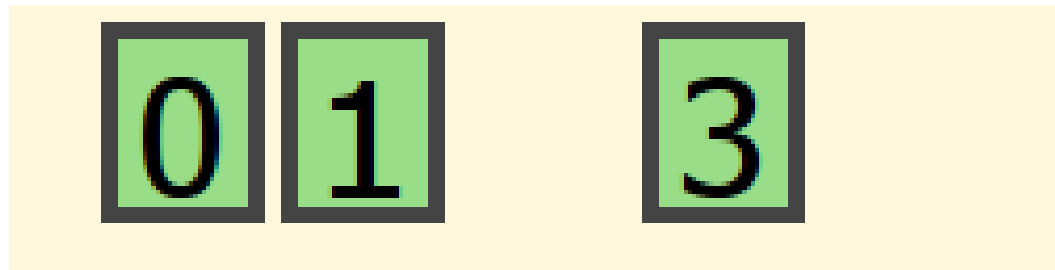
## dba-stack

size: 94.5mb (189mb)

docs: 115992 (115992)

Info ▾

Actions ▾



Thanks!