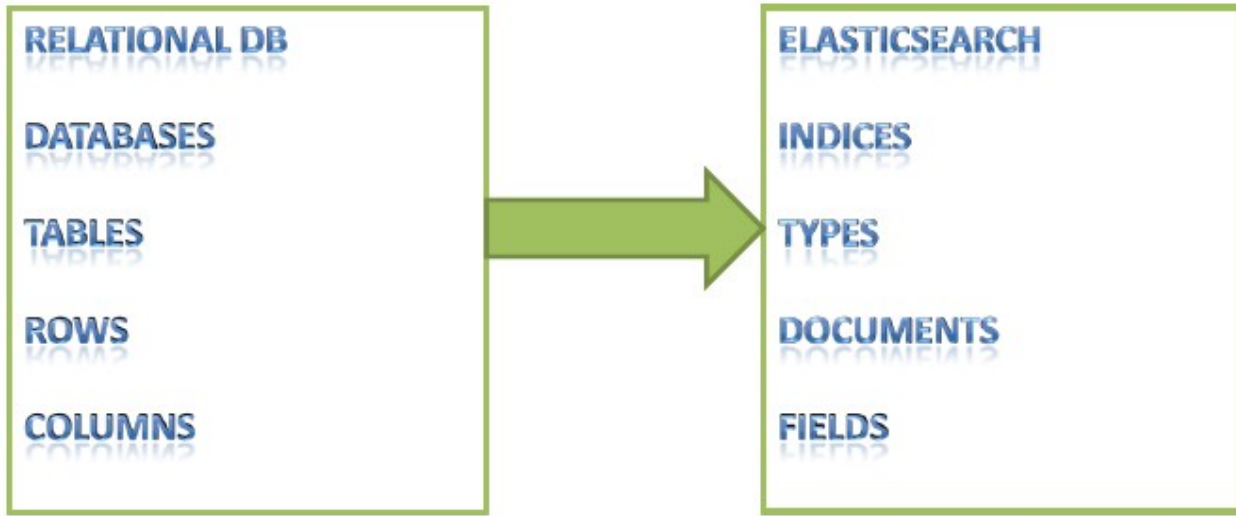


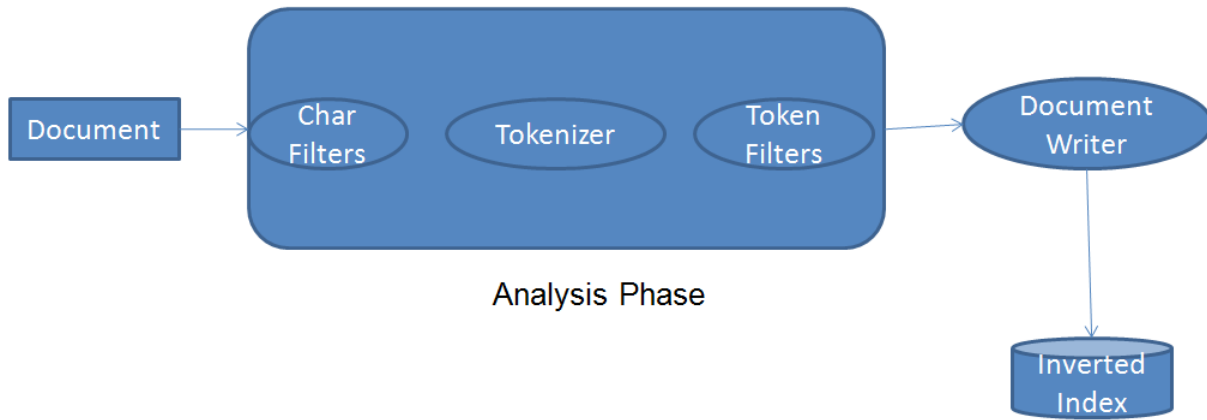
# Chapter 1



```
bharvi@grownout:~$ cd /usr/share/elasticsearch/plugins/
bharvi@grownout:~/usr/share/elasticsearch/plugins$ ls
carrot2 head marvel
bharvi@grownout:~/usr/share/elasticsearch/plugins$ cd carrot2/
bharvi@grownout:~/usr/share/elasticsearch/plugins/carrot2$ ls
attributes-binder-1.2.2.jar    guava-18.0.jar          jackson-databind-2.5.3.jar  _site
carrot2-mini-3.10.1.jar      hppc-0.7.1.jar          mahout-collections-1.0.jar  slf4j-api-1.7.12.jar
commons-lang-2.6.jar         jackson-annotations-2.5.3.jar  mahout-math-0.6.jar        slf4j-log4j12-1.7.12.jar
elasticsearch-carrot2-1.9.0.jar  jackson-core-2.5.3.jar    simple-xml-2.7.jar
```

The screenshot shows the Marvel Sense web interface in a browser. The URL is localhost:9200/plugin/marvel/sense/index.html. The server is identified as localhost:9200. A search query is entered: GET \_search with a match\_all query. Below this, the Elasticsearch cluster overview is shown for the 'books' index. The cluster health is yellow (5 of 10). The overview shows a single node 'node-1' with 5 shards (0-4) and an 'Unassigned' section with 5 shards (0-4).

## Chapter 2



i HATE when spiders sit on the wall and act like they pay 1000\$ rent

Standard Analyzers	Analyzed Text
standard	i 1 hate 2 when 3 spiders 4 sit 5 on 6 the 7 wall 8 and 9 act 10 like 11 they 12 pay 13 1000 14 rent 15
simple	i 1 hate 2 when 3 spiders 4 sit 5 on 6 the 7 wall 8 and 9 act 10 like 11 they 12 pay 13 rent 14
whitespace	i 1 HATE 2 when 3 spiders 4 sit 5 on 6 the 7 wall 8 and 9 act 10 like 11 they 12 pay 13 1000\$ 14 rent 15
stop	i 1 hate 2 when 3 spiders 4 sit 5 wall 8 act 10 like 11 pay 13 rent 14
keyword	i HATE when spiders sit on the wall and act like they pay 1000\$ rent 1

## Chapter 3

```

{
  "_type": "u'1'",
  "_source": {
    "category": [
      "u'Big Data'",
      "u'search engines'",
      "u'Analytics'"
    ],
    "name": "u'Elasticsearch Essentials'",
    "publishing_date": "u'2015-31-12'",
    "publication": "u'Packt-Pub'",
    "index": "u'1'",
    "version": 1,
    "found": true,
    "id": "u'1'"
  },
  "category": [
    "u'Big Data'",
    "u'search engines'",
    "u'Analytics'"
  ]
}
  
```

## Chapter 5

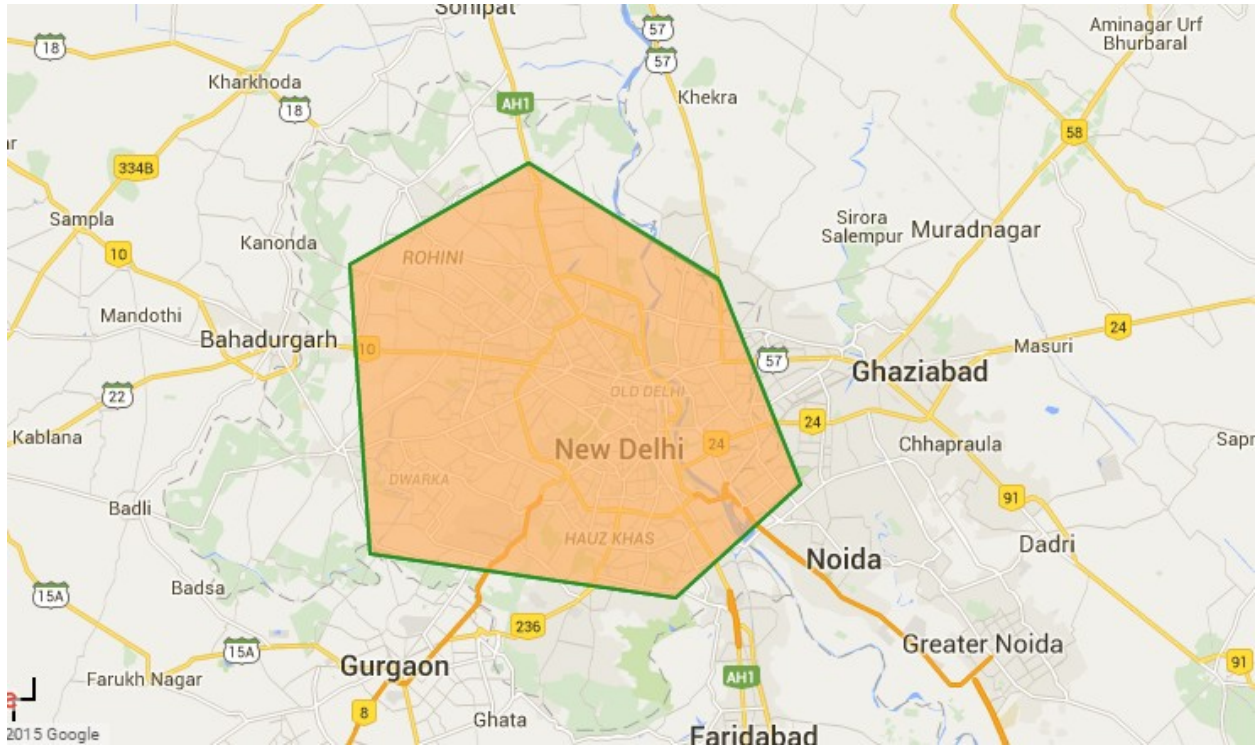
Search  Where am I?

**Export**

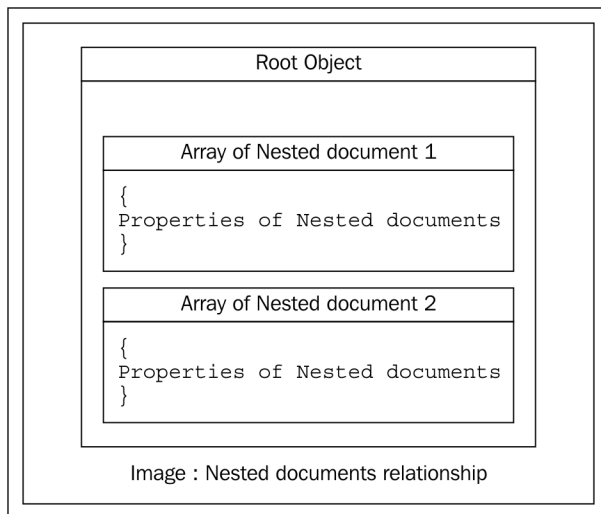
Licence

OpenStreetMap data is licensed under the [Open Data Commons Open Database License \(ODbL\)](#).

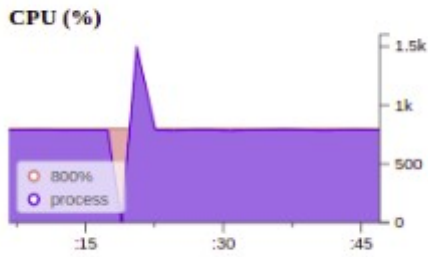




## Chapter 6







Total: 800%

## Chapter 10

```
bharvi@es-master-1:~$ df -h
Filesystem                Size      Used Avail Use% Mounted on
rootfs                    9.8G    1.4G    7.9G  16% /
udev                      10M         0    10M   0% /dev
tmpfs                     171M    148K    171M   1% /run
/dev/disk/by-uuid/906181f7-4e10-4a4e-8fd8-43b20ec980ff 9.8G    1.4G    7.9G  16% /
tmpfs                     5.0M         0    5.0M   0% /run/lock
tmpfs                     341M         0    341M   0% /run/shm
10.240.131.44:/mnt/shared-directory 9.8G    23M    9.2G   1% /mnt/nfs
```

```
New password:
Re-type new password:
Adding password for user username
```

```
conf.d      koi-utf  mime.types  naxsi.rules  nginx.conf  scgi_params  sites-enabled  win-utf
fastcgi_params  koi-win  naxsi_core.rules  naxsi-ui.conf.1.4.1  proxy_params  sites-available  uwsgi_params
```

```
server {
    listen 6200;
    server_name es.domainname.com;

    access_log /var/log/nginx/elastic_proxy/access.log;
    error_log /var/log/nginx/elastic_proxy/error.log;

    location / {
        auth_basic "Elasticsearch Authentication";
        auth_basic_user_file /etc/nginx/.htpasswd;

        proxy_pass http://localhost:9200;
        proxy_http_version 1.1;
        proxy_set_header    X-Real-IP    $remote_addr;
        proxy_set_header    X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header    Host $http_host;
    }
}
```

```
<html>
<head><title>401 Authorization Required</title></head>
<body bgcolor="white">
<center><h1>401 Authorization Required</h1></center>
<hr><center>nginx/1.9.2</center>
</body>
</html>
```

```
server {  
    listen 6200;  
    server_name es.domainname.com;  
  
    access_log /var/log/nginx/elastic_proxy/access.log;  
    error_log /var/log/nginx/elastic_proxy/error.log;  
  
    location / {  
        auth_basic "Elasticsearch Authentication";  
        auth_basic_user_file /etc/nginx/.htpasswd;  
  
        if ($request_method ~ "DELETE") {  
            return 403;  
            break;  
        }  
        if ($request_filename ~ _shutdown) {  
            return 403;  
            break;  
        }  
  
        proxy_pass http://localhost:9200;  
        proxy_http_version 1.1;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_set_header Host $http_host;  
    }  
}
```



```
upstream elasticsearch_servers {
    server 192.168.10.42:9200;
    server 192.168.10.43:9200;
    server 192.168.10.44:9200;
}
server {
    listen 6200;
    server_name es.domainname.com;

    access_log /var/log/nginx/elastic_proxy/access.log;
    error_log /var/log/nginx/elastic_proxy/error.log;

    location / {
        auth_basic "Elasticsearch Authentication";
        auth_basic_user_file /etc/nginx/.htpasswd;

        if ($request_method ~ "DELETE") {
            return 403;
            break;
        }
        if ($request_filename ~ _shutdown) {
            return 403;
            break;
        }

        proxy_pass http://elasticsearch_servers;
        proxy_http_version 1.1;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header Host $http_host;
    }
}
```