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Elastic Search, Kibana Installation & Workouts:

1) Goto the below path

```
cd /home/hduser/install/
```

2) Extract the tarfile,

```
tar xvf elasticsearch-2.4.1.tar.gz  
tar xvf kibana-4.6.1-linux-x86_64.tar.gz
```

3) Rename and move the below folder,

```
sudo mv elasticsearch-2.4.1 /usr/local/elasticsearch  
sudo mv kibana-4.6.1-linux-x86_64 /usr/local/kibana
```

4) Start Elastic search & Kibana

```
nohup /usr/local/elasticsearch/bin/elasticsearch &  
nohup /usr/local/kibana/bin/kibana &
```

Elastic Search Workouts:

ES URL:

<http://localhost:9200/>

ES Index creation:

```
curl -XPUT 'http://localhost:9200/empinfo' -d '{
  "mappings": {
    "emp": {
      "properties": {
        "id": {
          "type": "string"
        },
        "name": {
          "type": "string",
          "index": "not_analyzed", "store": "yes"
        },
        "city": {
          "type": "string",
          "index": "not_analyzed"
        }
      }
    }
  }
}'
```

Load ES Index

```
curl -XPOST 'http://localhost:9200/empinfo/emp/1' -d { "name" : "Karthik", "city" : "Bangalore" }
curl -XPOST 'http://localhost:9200/empinfo/emp/2' -d { "name" : "varun", "city" : "Bangalore" }
curl -XPOST 'http://localhost:9200/empinfo/emp/3' -d { "name" : "bala", "city" : "Bangalore" }
curl -XPOST 'http://localhost:9200/empinfo/emp/4' -d { "name" : "vikas", "city" : "Chennai" }
curl -XPOST 'http://localhost:9200/empinfo/emp/5' -d { "name" : "arun", "city" : "Chennai" }
curl -XPOST 'http://localhost:9200/empinfo/emp/6' -d { "name" : "raju", "city" : "Bangalore" }
```

```
curl -XPOST 'http://localhost:9200/empinfo/emp/7' -d' {"name" : "tom", "city" : "Chennai" }'  
curl -XPOST 'http://localhost:9200/empinfo/emp/8' -d' {"name" : "naveen", "city" :  
"Chennai" }'  
curl -XPOST 'http://localhost:9200/empinfo/emp/9' -d' {"name" : "raju", "city" : "Bangalore"  
}'  
curl -XPOST 'http://localhost:9200/empinfo/emp/10' -d' {"name" : "imran", "city" :  
"Chennai" }'  
curl -XPOST 'http://localhost:9200/empinfo/emp/11' -d' {"name" : "balu", "city" : "Chennai"  
}'
```

Open Chrome/Firefox:

To get all the indices:

http://localhost:9200/_cat/indices

To get schema of the indices:

<http://localhost:9200/empinfo?pretty>

To get data of the indices:

http://localhost:9200/empinfo/_search?pretty

To query data of the indices:

http://localhost:9200/empinfo/_search?q=bangalore&pretty

Create another index:

```
curl -XPUT 'http://localhost:9200/empinfo1' -d '  
{  
  "mappings": {  
    "emp": {  
      "properties": {  
        "id": {  
          "type": "string"  
        },  
        "name": {  
          "type": "string",  
          "index": "not_analyzed", "store": "yes"  
        },  
        "city": {  
          "type": "string",
```

```
    "index": "not_analyzed"
  }
}
}
}
```

```
curl -XPOST 'http://localhost:9200/empinfo1/emp/1' -d' {"name": "Karthik", "city": "Bangalore" }'
```

```
curl -XPOST 'http://localhost:9200/empinfo1/emp/2' -d' {"name": "varun", "city": "Bangalore" }'
```

Delete a row in an Index

```
curl -XDELETE 'http://localhost:9200/empinfo1/emp/2'
```

Delete an Index

```
curl -XDELETE 'http://localhost:9200/empinfo1'
```

Hive Elasticsearch Integration:

```
service mysqld start
```

```
hive --service metastore
```

```
hive
```

```
create table txnrecord(txnno int,txndate string,custno int,amount double,category string,product string,city string,state string,spendby string) row format delimited fields terminated by ',';
```

```
load data local inpath '/home/hduser/hive/data/txns' into table txnrecord;
```

```
add jar /home/hduser/install/elasticsearch-hadoop-hive-2.4.1.jar;
```

```
create table txnrecord_es(txnno int,txndate string,custno int,amount double,category string,product string,city string,state string,spendby string) stored by 'org.elasticsearch.hadoop.hive.EsStorageHandler' tblproperties('es.resource'='trans/docs');
```

```
insert into table txnrecord_es select * from txnrecord limit 10;
```

Create Additional ES index to enable id into txnno:

```
curl -XPUT 'http://localhost:9200/transid' -d '{
  "settings": {
    "index": {
      "number_of_shards": 3,
      "number_of_replicas": 1
    }
  },
  "mappings": {
    "transactions": {
      "properties": {
        "id": {
          "type": "long"
        },
        "amount": {
          "type": "float"
        },
        "category": {
          "type": "string",
          "index": "not_analyzed", "store": "yes"
        },
        "state": {
          "type": "string",
          "index": "not_analyzed"
        },
        "spendby": {
          "type": "string"
        }
      }
    }
  }
}'
```

```
add jar /home/hduser/install/elasticsearch-hadoop-hive-2.4.1.jar;
```

```
create table txnrecord_es_id(id int,amount double,category string,state string,spendby
string)
stored by 'org.elasticsearch.hadoop.hive.EsStorageHandler'
tblproperties('es.resource'='transid/transactions','es.mapping.id'='id','es.mapping.exclude'='i
d');
```

```
insert into table txnrecord_es_id select txnno,amount,category,state,spendby from  
retail.txnrecords limit 100;
```

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