Elasticsearch Installation

Distribution: Elastic

Version: 5.6.2

1) Copy the **ELK** directory from pendrive to home directory (/home/jpasolutions)

2) Open the terminal (Ctrl+Alt+t)

3) Change the directory to ELK

```
~$ cd ~/ELK
```

4) Extract the Elasticsearch(ES) tar file under home directory (/home/jpasolutions)

```
~$ tar -xzvf elasticsearch-5.6.2.tar.gz -C $HOME
```

5) Set up the environment variables in ~/.bashrc file

```
export ES_HOME=/home/jpasolutions/elasticsearch-5.6.2
export PATH=$PATH:$ES_HOME/bin
```

6) Environment variables to reflect on the current shell, source the file.

```
~$ source ~/.bashrc
```

7) Check the changes applied properly

```
~$ echo $ES_HOME
~$ which elasticsearch
```

8) Start Elasticsearch service

```
~$ elasticsearch -d
```

Note: This will start the elasticsearch in background.

9) Check if Elasticsearch is up and running

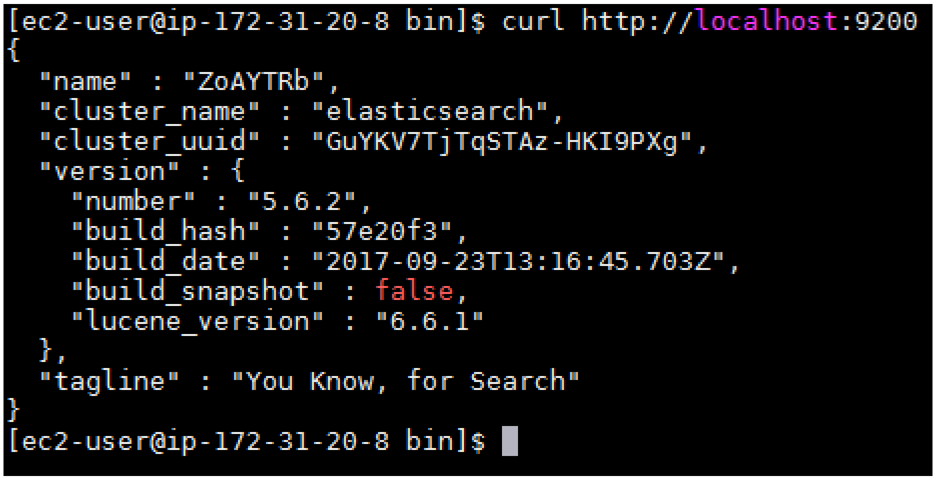
```
~$ jps
```

Note: You should be able to see Elasticsearch

10) Verify the ES installation

```
~$ curl http://localhost:9200
```

Sample screenshot is given below



```
[ec2-user@ip-172-31-20-8 bin]$ curl http://localhost:9200
{
  "name" : "ZoAYTRb",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "GuYKV7TjTqSTAz-HKI9PXg",
  "version" : {
    "number" : "5.6.2",
    "build_hash" : "57e20f3",
    "build_date" : "2017-09-23T13:16:45.703Z",
    "build_snapshot" : false,
    "lucene_version" : "6.6.1"
  },
  "tagline" : "You Know, for Search"
}
[ec2-user@ip-172-31-20-8 bin]$ 
```

Logstash Installation

Distribution: Elastic

Version: 5.6.2

1) Copy the **ELK** directory from pendrive to home directory (/home/jpasolutions)

   Note: Ignore this step if you are already done this on Elasticsearch installation

2) Open the terminal (Ctrl+Alt+t)

3) Change the directory to ELK

   ~$ cd ~/ELK

4) Extract the Logstash(LS) tar file under home directory (/home/jpasolutions)

   ~$ tar -xzvf logstash-5.6.2.tar.gz -C $HOME

5) Set up the environment variables in ~/.bashrc file

   export LS_HOME=/home/jpasolutions/logstash-5.6.2

   export PATH=$PATH:$LS_HOME/bin

6) Environment variables to reflect on the current shell, source the file.

   ~$ source ~/.bashrc

7) Check the changes applied properly

   ~$ echo $LS_HOME

   ~$ which logstash

8) Start Logstash service

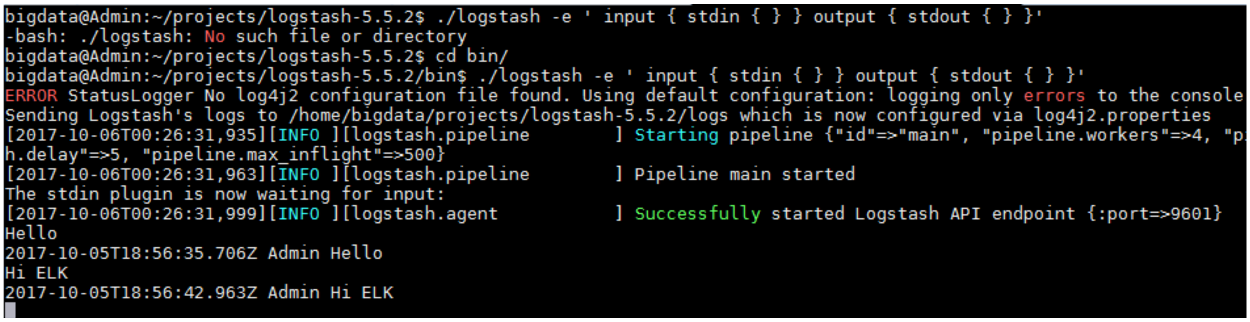
There is no service required to start.

9) Verify the LS installation

~$ logstash -e ' input { stdin { } } output { stdout { } }'

Note:

- Wait for the line "Successfully started Logstash API endpoint {:port=>9601}"
- This will start the logstash service which will accept the input from console and output the same on the console with Date, Time and Hostname
- Sample Screenshot is given below



```
bigdata@Admin:~/projects/logstash-5.5.2$ ./logstash -e ' input { stdin { } } output { stdout { } }'
-bash: ./logstash: No such file or directory
bigdata@Admin:~/projects/logstash-5.5.2$ cd bin/
bigdata@Admin:~/projects/logstash-5.5.2/bin$ ./logstash -e ' input { stdin { } } output { stdout { } }'
ERROR StatusLogger No log4j2 configuration file found. Using default configuration: logging only errors to the console
Sending Logstash's logs to /home/bigdata/projects/logstash-5.5.2/logs which is now configured via log4j2.properties
[2017-10-06T00:26:31,935][INFO ][logstash.pipeline        ] Starting pipeline {"id"=>"main", "pipeline.workers"=>4, "p
h.delay"=>5, "pipeline.max_inflight"=>500}
[2017-10-06T00:26:31,963][INFO ][logstash.pipeline        ] Pipeline main started
The stdin plugin is now waiting for input:
[2017-10-06T00:26:31,999][INFO ][logstash.agent           ] Successfully started Logstash API endpoint {:port=>9601}
Hello
2017-10-05T18:56:35.706Z Admin Hello
Hi ELK
2017-10-05T18:56:42.963Z Admin Hi ELK
```

Kibana Installation

Distribution: Elastic

Version: 5.6.2

1) Copy the **ELK** directory from pendrive to home directory (/home/jpasolutions)

2) Open the terminal (Ctrl+Alt+t)

3) Change the directory to ELK

~$ cd ~/ELK

4) Extract the Kibana tar file under home directory (/home/jpasolutions)

~$ tar -xzvf kibana-5.6.2.tar.gz -C $HOME

5) Set up the environment variables in ~/.bashrc file

export KIBANA_HOME=/home/jpasolutions/kibana-5.6.2

export PATH=$PATH:$KIBANA_HOME/bin

6) Environment variables to reflect on the current shell, source the file.

~$ source ~/.bashrc

7) Check the changes applied properly

```
~$ echo $KIBANA_HOME
```

```
~$ which kibana
```

8) Start Kibana Service

```
~$ kibana
```

Note: This will start the kibana in foreground. Open new window for other tasks

9) Verify the Kibana installation

Open the browser and hit the URL "http://localhost:5601"