Installation of ELK (Elasticsearch, Logstash, Kibana)

```
Step1:
              sudo su
              apt-get install openjdk-8-jdk
                  wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo
apt-key add -
   Step3:
                apt-get install apt-transport-https
   Step4:
                echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" |
sudo tee -a /etc/apt/sources.list.d/elastic-7.x.list
                 apt-get update
   Step5:
              apt-get install elasticsearch
   Step6:
                apt-get install vim
                vim /etc/elasticsearch/elasticsearch.yml
                  Edit: Uncomment and put Ur private id:
                     network.host: private Ip (its Ur private Ip)
                     http.port: 9200
                     discovery.seed_hosts: private Ip (its Ur private IP)
                   By default Elasticsearch is only accessible on localhost. Set a different address here to expose this node on the network:
                   By default Elasticsearch listens for HTTP traffic on the first free port it finds starting at 9200. Set a specific HTTP port here:
                   Pass an initial list of hosts to perform discovery when this node is started: The default list of hosts is ["127.0.0.1", "[::1]"]
                   iscovery.seed_hosts: ["host1", "host2"]
                   Bootstrap the cluster using an initial set of master-eligible nodes:
                    luster.initial_master_nodes: ["node-1", "node-2"]
Single node Elastic stack:
scovery.type: single-node
For more information, consult the discovery and cluster formation module documentation.
                    ction.destructive_requires_name: true
                        ------ Security ------
                                                   *** WARNING ***
                   Elasticsearch security features are not enabled by default.
These features are free, but require configuration changes to enable them.
This means that users don't have to provide credentials and can get full access
to the cluster. Network connections are also not encrypted.
                   To protect your data, we strongly encourage you to enable the Elasticsearch security features.
Refer to the following documentation for instructions.
                   https://www.elastic.co/guide/en/elasticsearch/reference/7.16/configuring-stack-security.html
```

```
Step7: Go to
                                  vim /etc/elasticsearch/jvm.options(This is to give the size of JVM)
                                  edit:
                                  -Xms512m
                                  -Xmx512m
         ...
: ..............
        ## WARNING: DO NOT EDIT THIS FILE. If you want to override the
## JVM options in this file, or set any additional options, you
## should create one or more files in the jvm.options.d
## directory containing your adjustments.
         ## See https://www.elastic.co/guide/en/elasticsearch/reference/7.17/jvm-options.html
         ##
## The heap size is automatically configured by Elasticsearch
## based on the available memory in your system and the roles
## each node is configured to fulfill. If specifying heap is
## required, it should be done through a file in jvm.options.d,
## and the min and max should be set to the same value. For
## example, to set the heap to 4 GB, create a new file in the
## jvm.options.d directory containing these lines:
              -Xms4g
-Xmx4g
         ## See https://www.elastic.co/guide/en/elasticsearch/reference/7.17/heap-size.html
         ## Expert settings
## Expert settings
        ##
## All settings below here are considered expert settings. Do
## not adjust them unless you understand what you are doing. Do
## not edit them in this file; instead, create a new file in the
## jvm.options.d directory containing your adjustments.
Step8:
                                           systemctl start elasticsearch.service
                                          systemctl enable elasticsearch.service
    Step9:
                                          curl -X GET "172.31.34.157:9200"
                                           (or)
                                           ip:9200 (in web)
                → C ▲ Not secure | 18.181.163.107:92
                                                                                                                                                                                                                                                                                        E ☆ * □ ···· :
         "name": "ip-171-31-16-157",
"cluster_unde": "elasticisench",
"cluster_unde": "elasticisench",
"luster_unde": "elasticisench",
"number": "7.17.10",
"number": "1.11.10",
"number: "1.11.10",
"
           }, "tagline" : "You Know, for Search
```

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Installation of Kibana on Ubuntu:

Step1:

apt-get install kibana
vim /etc/kibana/kibana.yml

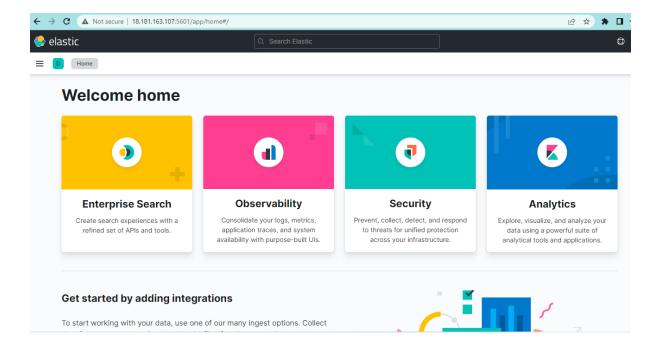
Step2:

Edit:
server.port: 5601
server.host: "private ip"
elasticsearch.hosts: ["http://privateip:9200"]

Step3:

systemctl start kibana
systemctl enable kibana

Step4:
allow traffic on port 5601 to access the Kibana dashboard.
ufw allow 5601/tcp



Installation of Logstash on Ubuntu:

Installation of Logstash on Ubuntu:

Step1:

```
apt-get install logstash
systemctl start logstash
systemctl enable logstash
systemctl status logstash
```

Step2:

Logstash is a highly customizable part of the ELK stack. Once installed, configure its INPUT, FILTERS, and OUTPUT pipelines according to your own individual use case.

 All logstash files will be stored in: /etc/logstash/conf.d/.

• Logstash Process:

input-->filter-->output

• apt-get install filebeat

Step3:

```
vim /etc/filebeat/filebeat.yml
Edit:
```

output.logstash

hosts: ["privateip:5044"]

Step4:

* What is Filebeat?

```
filebeat modules enable system
```

one cmd: [filebeat setup --index-management -E output.logstash.enabled=false $\,$

-E 'output.elasticsearch.hosts= ["172.31.34.157:9200"]']

systemctl start filebeat
systemctl enable filebeat

Step5:

curl -XGET http://172.31.34.157:9200/_cat/indices?v