

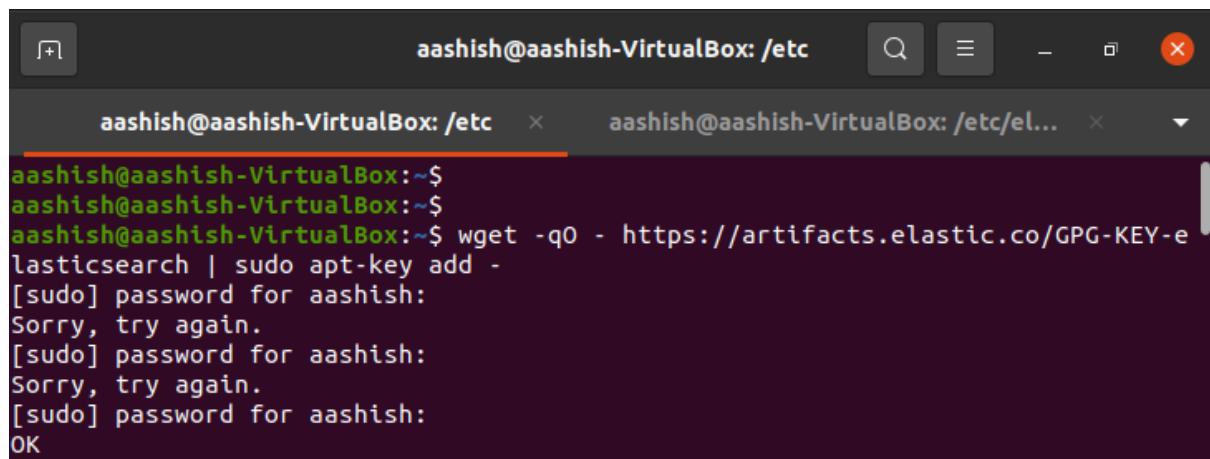
A.

Create two linux servers, server1 => install and configure kibana and elasticsearch with basic username and password authentication server2 => install and configure metricbeat.

Answer:

To install **ElasticSearch**, we first need to install the public signing key using the following commands;

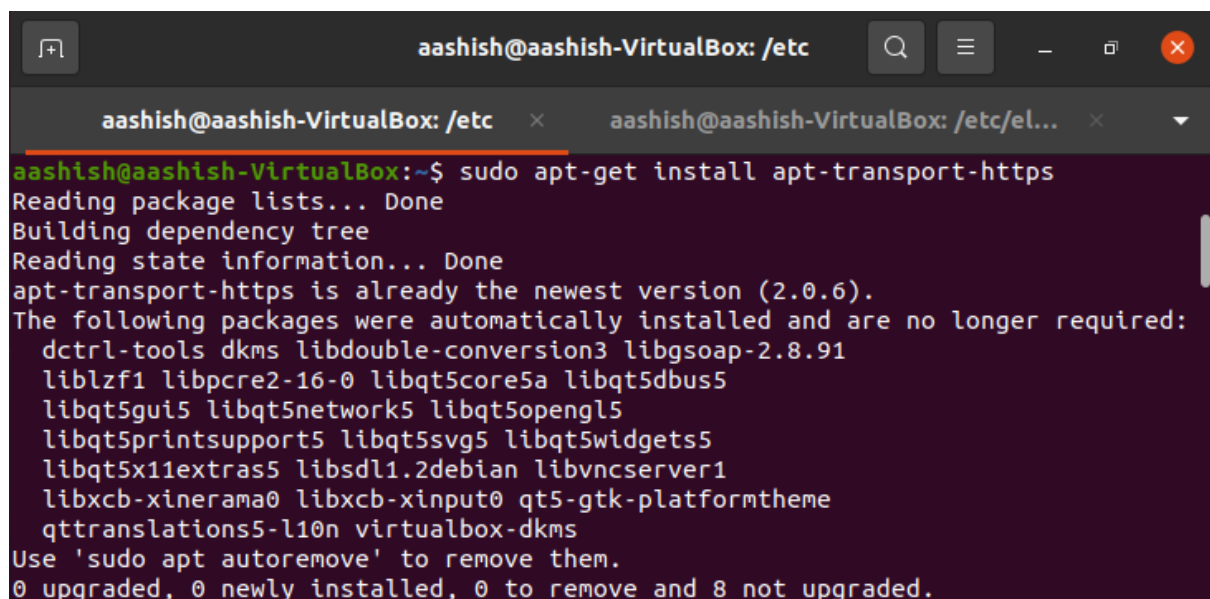
```
- wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -
```



```
aashish@aashish-VirtualBox: /etc
aashish@aashish-VirtualBox: /etc
aashish@aashish-VirtualBox:~$
aashish@aashish-VirtualBox:~$
aashish@aashish-VirtualBox:~$ wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -
[sudo] password for aashish:
Sorry, try again.
[sudo] password for aashish:
Sorry, try again.
[sudo] password for aashish:
OK
```

Next, we install apt-transport-https using the following command;

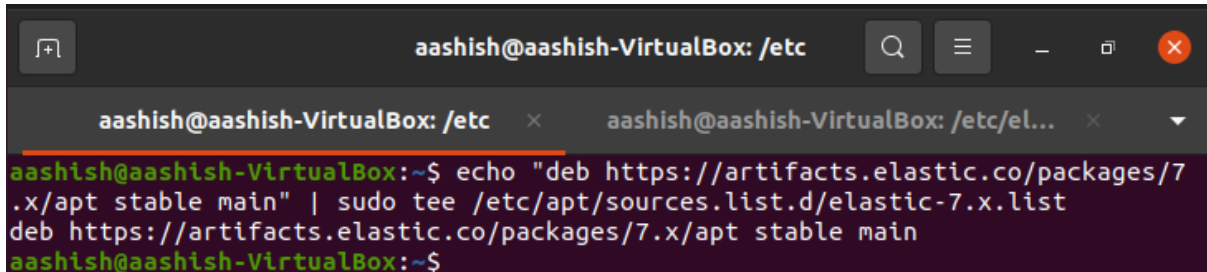
```
- sudo apt-get install apt-transport-https
```



```
aashish@aashish-VirtualBox: /etc
aashish@aashish-VirtualBox: /etc/el...
aashish@aashish-VirtualBox:~$ sudo apt-get install apt-transport-https
Reading package lists... Done
Building dependency tree
Reading state information... Done
apt-transport-https is already the newest version (2.0.6).
The following packages were automatically installed and are no longer required:
  dctrl-tools dkms libdouble-conversion3 libgsoap-2.8.91
  liblzf1 libpcres2-16-0 libqt5core5a libqt5dbus5
  libqt5gui5 libqt5network5 libqt5opengl5
  libqt5printsupport5 libqt5svg5 libqt5widgets5
  libqt5x11extras5 libstdl1.2debian libvncserver1
  libxcb-xinerama0 libxcb-xinput0 qt5-gtk-platformtheme
  qttranslations5-l10n virtualbox-dkms
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 8 not upgraded.
```

Next we save the repository definition using following command;

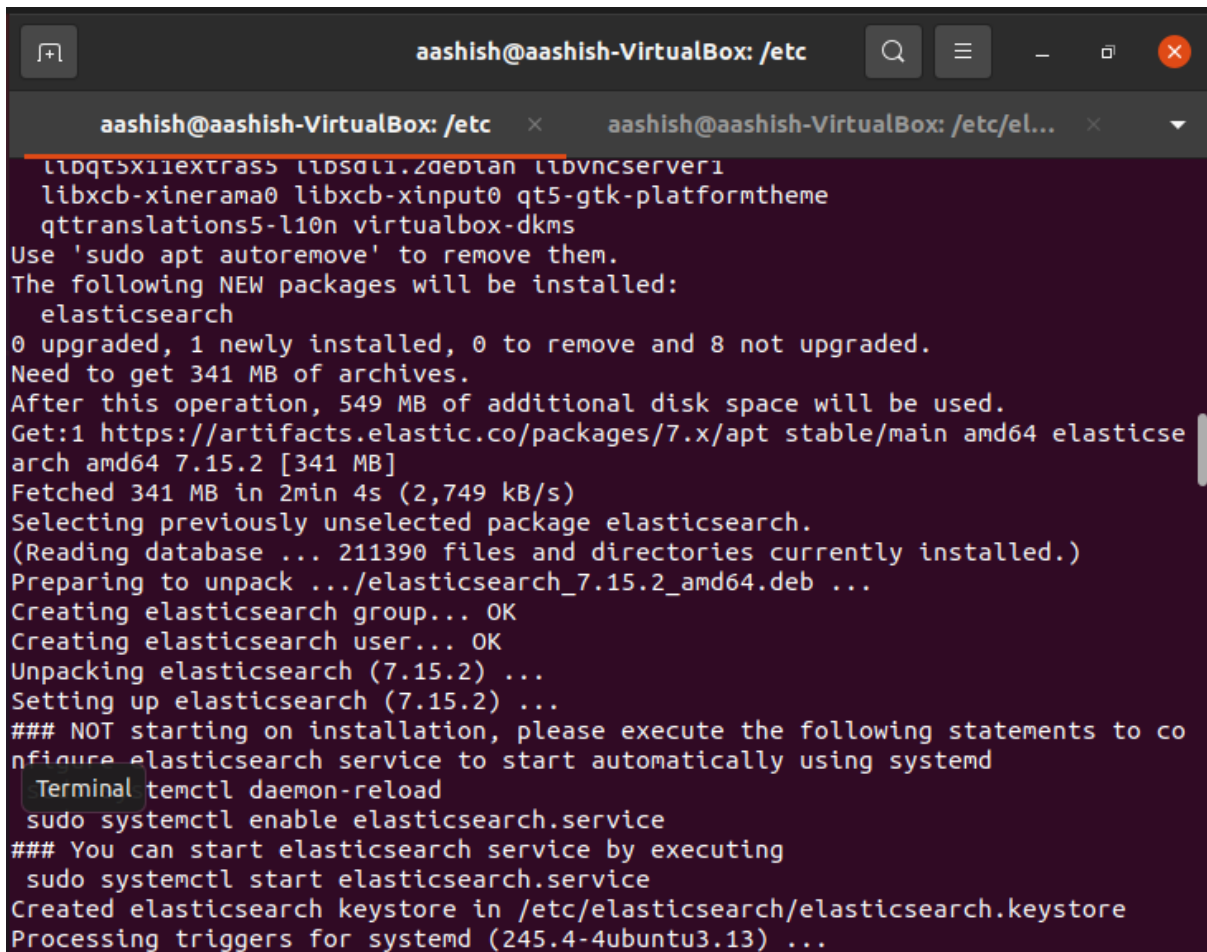
```
- echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee  
-a /etc/apt/sources.list.d/elastic-7.x.list
```



```
aashish@aashish-VirtualBox: /etc  
aashish@aashish-VirtualBox:~$ echo "deb https://artifacts.elastic.co/packages/7  
.x/apt stable main" | sudo tee /etc/apt/sources.list.d/elastic-7.x.list  
deb https://artifacts.elastic.co/packages/7.x/apt stable main  
aashish@aashish-VirtualBox:~$
```

Then, we install the ElasticSearch after updating the apt using following command;

```
- sudo apt-get update  
- sudo apt-get install elasticsearch
```

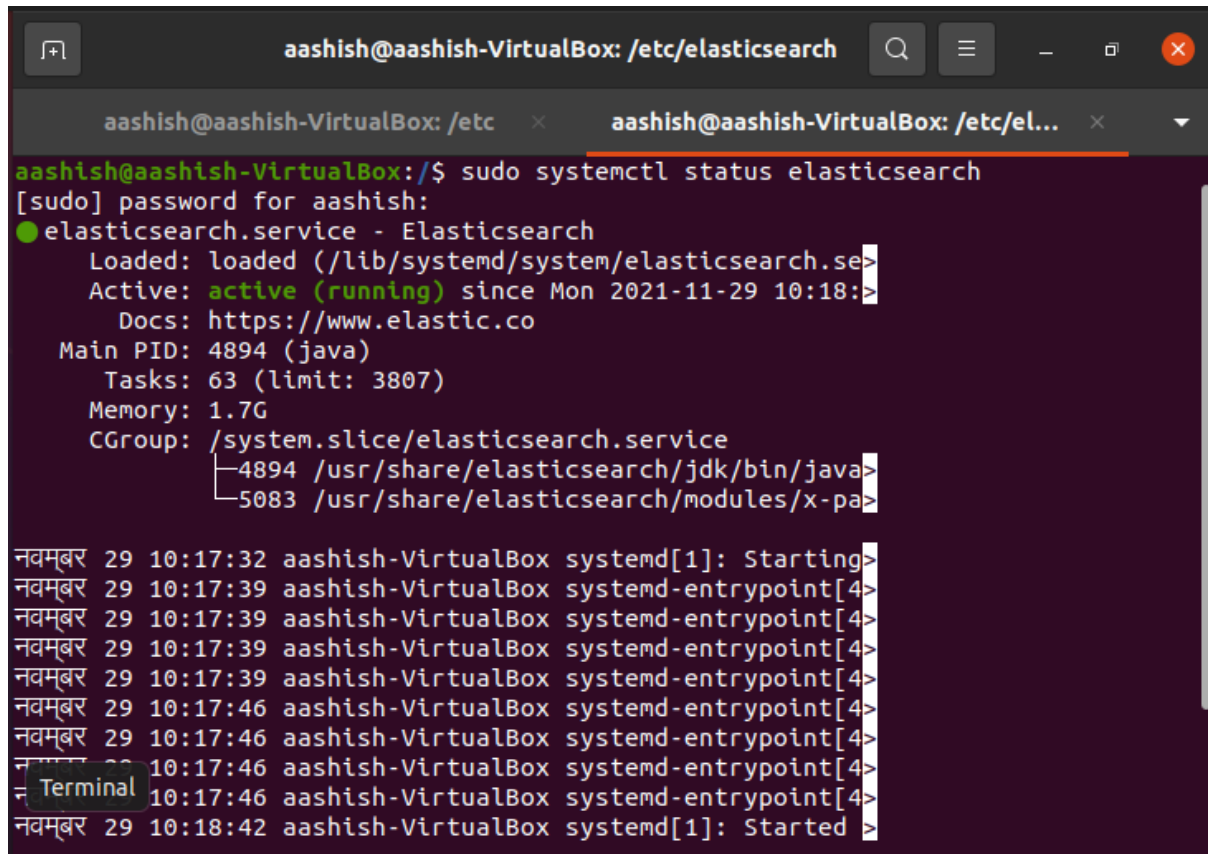


```
aashish@aashish-VirtualBox: /etc  
aashish@aashish-VirtualBox:~$ sudo apt-get update  
libqt5x11extras5 libssl1.2.0debian libvncserver1  
libxcb-xinerama0 libxcb-xinput0 qt5-gtk-platformtheme  
qttranslations5-l10n virtualbox-dkms  
Use 'sudo apt autoremove' to remove them.  
The following NEW packages will be installed:  
  elasticsearch  
0 upgraded, 1 newly installed, 0 to remove and 8 not upgraded.  
Need to get 341 MB of archives.  
After this operation, 549 MB of additional disk space will be used.  
Get:1 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 elasticsearch  
amd64 7.15.2 [341 MB]  
Fetched 341 MB in 2min 4s (2,749 kB/s)  
Selecting previously unselected package elasticsearch.  
(Reading database ... 211390 files and directories currently installed.)  
Preparing to unpack .../elasticsearch_7.15.2_amd64.deb ...  
Creating elasticsearch group... OK  
Creating elasticsearch user... OK  
Unpacking elasticsearch (7.15.2) ...  
Setting up elasticsearch (7.15.2) ...  
### NOT starting on installation, please execute the following statements to co  
nfigure elasticsearch service to start automatically using systemd  
Terminal temctl daemon-reload  
sudo systemctl enable elasticsearch.service  
### You can start elasticsearch service by executing  
sudo systemctl start elasticsearch.service  
Created elasticsearch keystore in /etc/elasticsearch/elasticsearch.keystore  
Processing triggers for systemd (245.4-4ubuntu3.13) ...
```

From the above figure, it is clear that elasticsearch has been installed successfully.

Now, to start, enable and verify the status of elasticsearch, we use following command;

- **sudo systemctl start elasticsearch**
- **sudo systemctl enable elasticsearch**
- **sudo systemctl status elasticsearch**

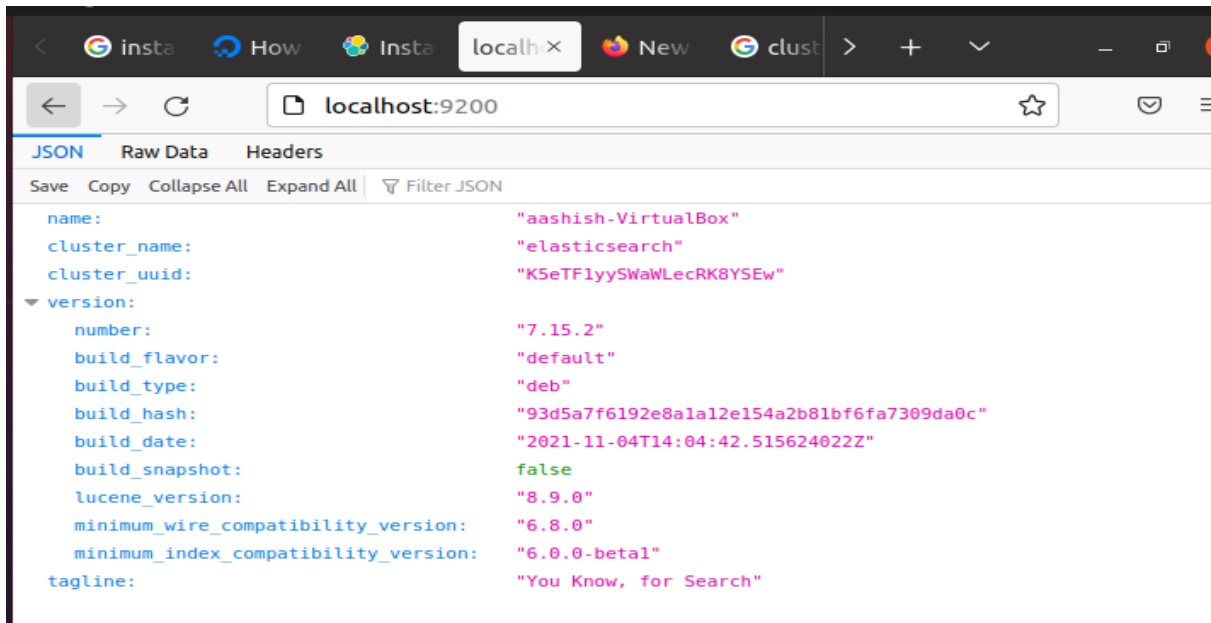


```
aashish@aashish-VirtualBox: /etc/elasticsearch
aashish@aashish-VirtualBox: /etc
aashish@aashish-VirtualBox:/$ sudo systemctl status elasticsearch
[sudo] password for aashish:
● elasticsearch.service - Elasticsearch
   Loaded: loaded (/lib/systemd/system/elasticsearch.service; vendor preset: enabled)
   Active: active (running) since Mon 2021-11-29 10:18:42; 1min 1s ago
     Docs: https://www.elastic.co
   Main PID: 4894 (java)
    Tasks: 63 (limit: 3807)
   Memory: 1.7G
    CGroup: /system.slice/elasticsearch.service
            └─4894 /usr/share/elasticsearch/jdk/bin/java
              5083 /usr/share/elasticsearch/modules/x-pack-core/x-pack-core.jar

novम्बर 29 10:17:32 aashish-VirtualBox systemd[1]: Starting Elasticsearch Service.
novम्बर 29 10:17:39 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:17:39 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:17:39 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:17:39 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:17:46 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:17:46 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:17:46 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:17:46 aashish-VirtualBox systemd-entrypoint[4]: Starting Elasticsearch Service.
novम्बर 29 10:18:42 aashish-VirtualBox systemd[1]: Started Elasticsearch Service.
```

We can verify the Elastic search via browser also using the url;

- **http://localhost:9200**

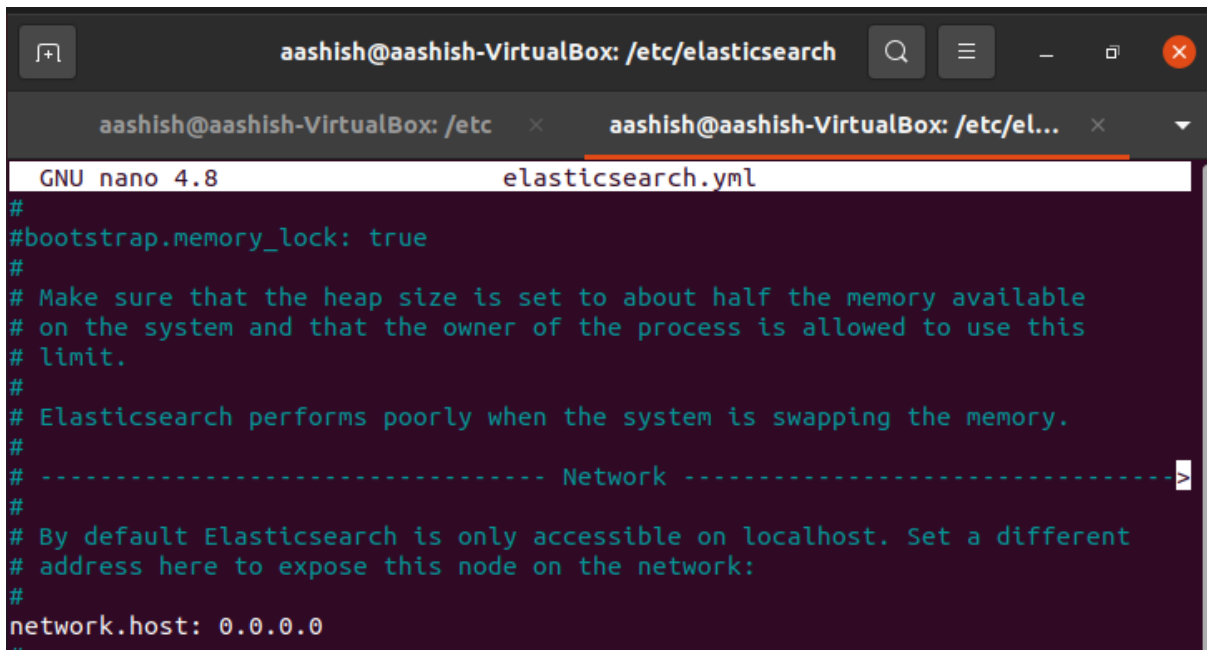


```
{
  "name": "aashish-VirtualBox",
  "cluster_name": "elasticsearch",
  "cluster_uuid": "K5eTFlyySwawLecRK8YSEw",
  "version": {
    "number": "7.15.2",
    "build_flavor": "default",
    "build_type": "deb",
    "build_hash": "93d5a7f6192e8a1a12e154a2b81bf6fa7309da0c",
    "build_date": "2021-11-04T14:04:42.515624022Z",
    "build_snapshot": false,
    "lucene_version": "8.9.0",
    "minimum_wire_compatibility_version": "6.8.0",
    "minimum_index_compatibility_version": "6.0.0-beta1"
  },
  "tagline": "You Know, for Search"
}
```

Next, we configure elasticsearch as follows;

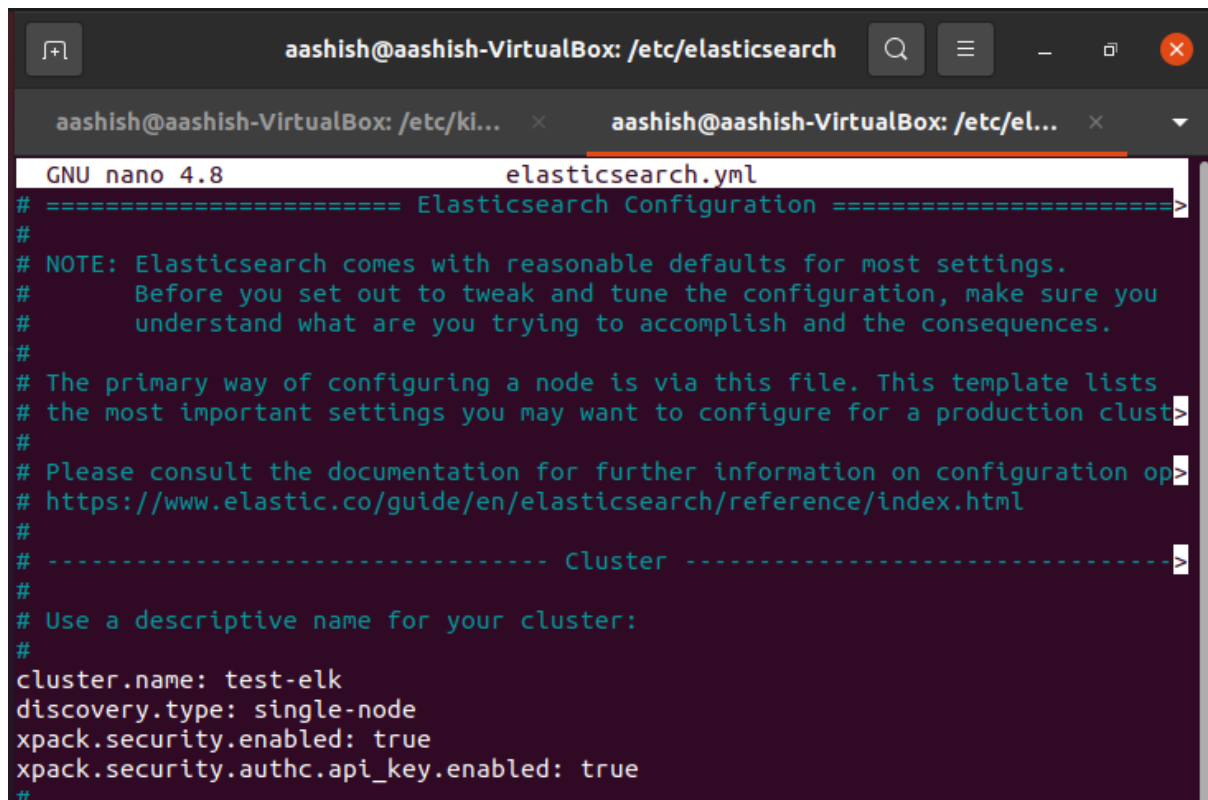
- **sudo nano /etc/elasticsearch/elasticsearch.yml**

Then, we change the network host from localhost to 0.0.0.0 to allow all the hosts in **elasticsearch.yml** file.



```
#
#bootstrap.memory_lock: true
#
# Make sure that the heap size is set to about half the memory available
# on the system and that the owner of the process is allowed to use this
# limit.
#
# Elasticsearch performs poorly when the system is swapping the memory.
#
# ----- Network -----
#
# By default Elasticsearch is only accessible on localhost. Set a different
# address here to expose this node on the network:
#
network.host: 0.0.0.0
#
```

Next, Security was enabled with minimal security as follows;



```
aashish@aashish-VirtualBox: /etc/elasticsearch
aashish@aashish-VirtualBox: /etc/ki... x aashish@aashish-VirtualBox: /etc/el... x
GNU nano 4.8 elasticsearch.yml
# ===== Elasticsearch Configuration =====>
#
# NOTE: Elasticsearch comes with reasonable defaults for most settings.
#       Before you set out to tweak and tune the configuration, make sure you
#       understand what are you trying to accomplish and the consequences.
#
# The primary way of configuring a node is via this file. This template lists
# the most important settings you may want to configure for a production clust>
#
# Please consult the documentation for further information on configuration op>
# https://www.elastic.co/guide/en/elasticsearch/reference/index.html
#
# ----- Cluster ----->
#
# Use a descriptive name for your cluster:
#
cluster.name: test-elk
discovery.type: single-node
xpack.security.enabled: true
xpack.security.authc.api_key.enabled: true
#
```

Then to setup the password for all system,we do following things;

- **sudo /usr/share/elasticsearch/bin/elasticsearch-setup-passwords interactive**

```
aashish@aashish-VirtualBox: /etc/elasticsearch
aashish@aashish-VirtualBox: /etc/ki... x aashish@aashish-VirtualBox: /etc/el... x
aashish@aashish-VirtualBox:/etc/elasticsearch$ sudo /usr/share/elasticsearch/bin/elasticsearch-setup-passwords interactive
Initiating the setup of passwords for reserved users elastic,apm_system,kibana,kibana_system,logstash_system,beats_system,remote_monitoring_user.
You will be prompted to enter passwords as the process progresses.
Please confirm that you would like to continue [y/N]y

Enter password for [elastic]:
passwords must be at least [6] characters long
Try again.
Enter password for [elastic]:
Reenter password for [elastic]:
Enter password for [apm_system]:
Reenter password for [apm_system]:
Enter password for [kibana_system]:
Reenter password for [kibana_system]:
Enter password for [logstash_system]:
Reenter password for [logstash_system]:
Enter password for [beats_system]:
Reenter password for [beats_system]:
Enter password for [remote_monitoring_user]:
Reenter password for [remote_monitoring_user]:
Changed password for user [apm_system]
Changed password for user [kibana_system]
Changed password for user [kibana]
Changed password for user [logstash system]
```

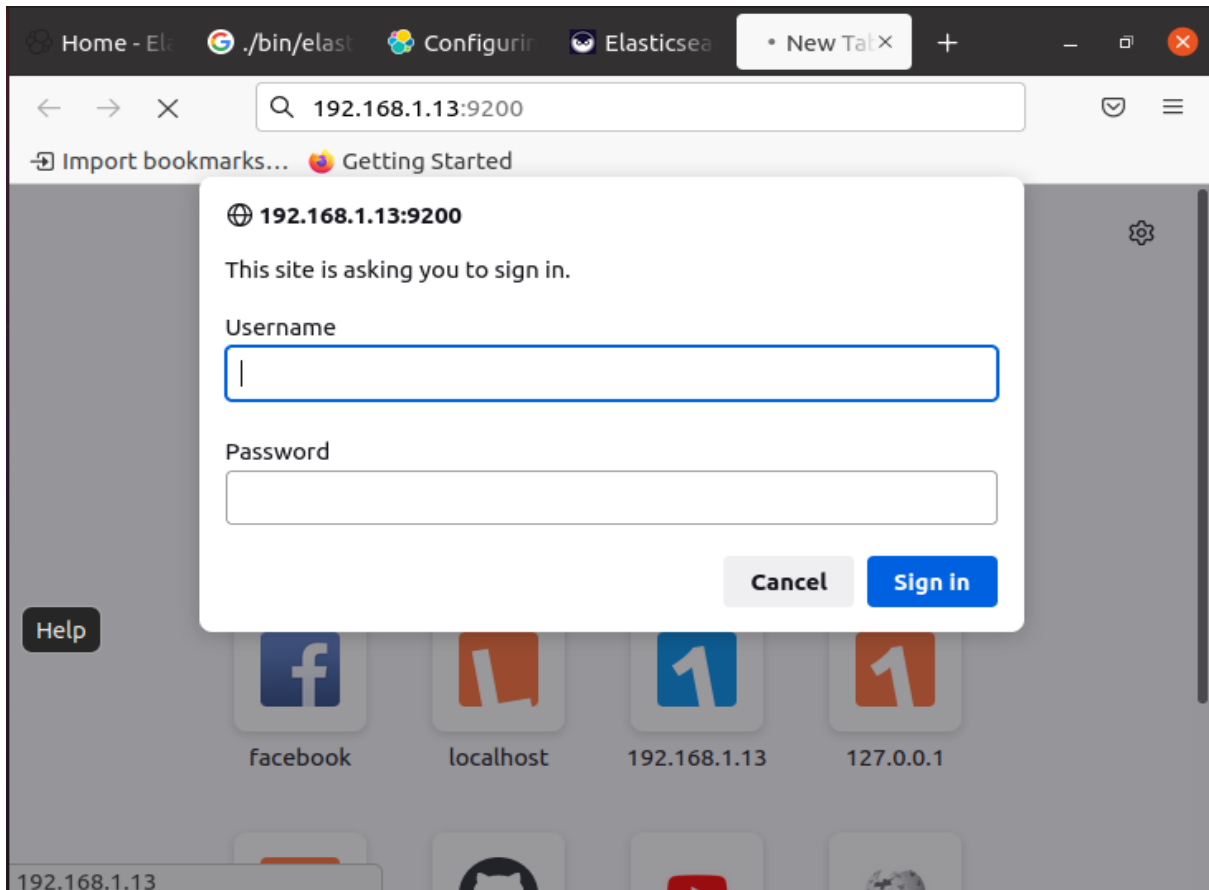
We save and exit. Then we restart the elasticsearch using command;

- sudo systemctl restart elasticsearch

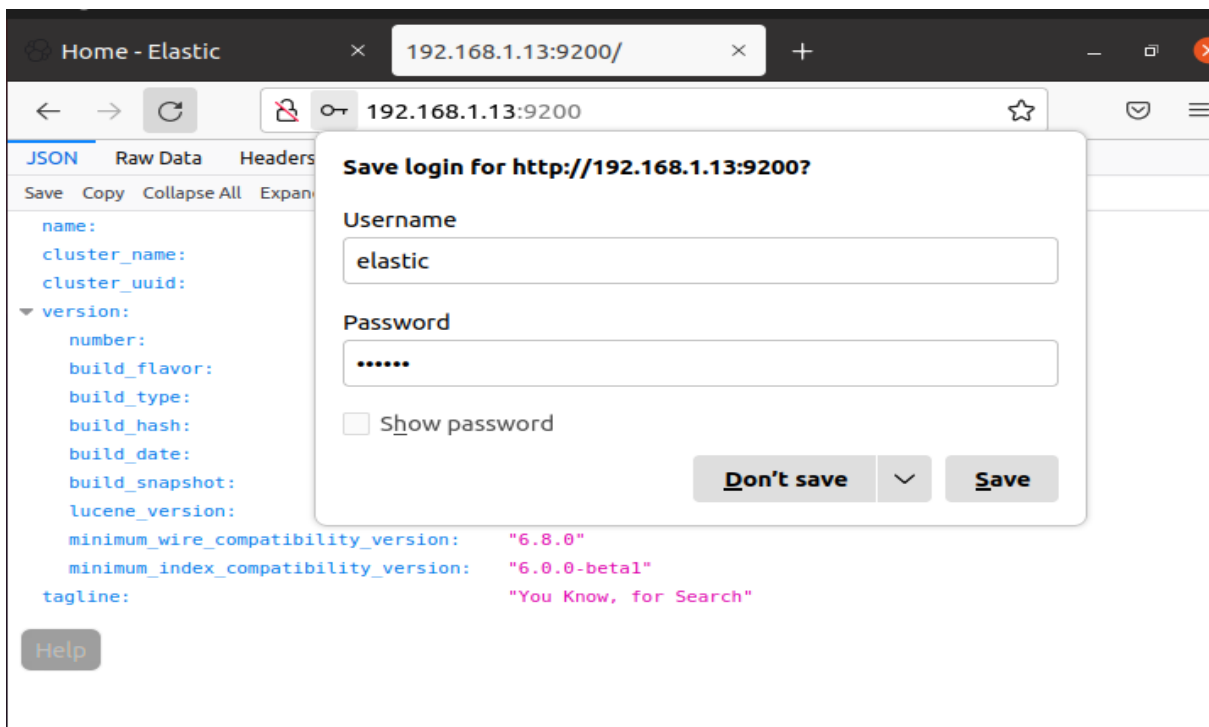
After configuring the elasticsearch, now we can easily access the elasticsearch using our host ip as follows;

```
192.168.1.13:9200
JSON Raw Data Headers
Save Copy Collapse All Expand All Filter JSON
{
  "name": "aashish-VirtualBox",
  "cluster_name": "elasticsearch",
  "cluster_uuid": "K5eTFlyySWaWLecRK8YSEw",
  "version": {
    "number": "7.15.2",
    "build_flavor": "default",
    "build_type": "deb",
    "build_hash": "93d5a7f6192e8a1a12e154a2b81bf6fa7309da0c",
    "build_date": "2021-11-04T14:04:42.515624022Z",
    "build_snapshot": false,
    "lucene_version": "8.9.0",
    "minimum_wire_compatibility_version": "6.8.0",
    "minimum_index_compatibility_version": "6.0.0-beta1",
    "tagline": "You Know, for Search"
  }
}
```

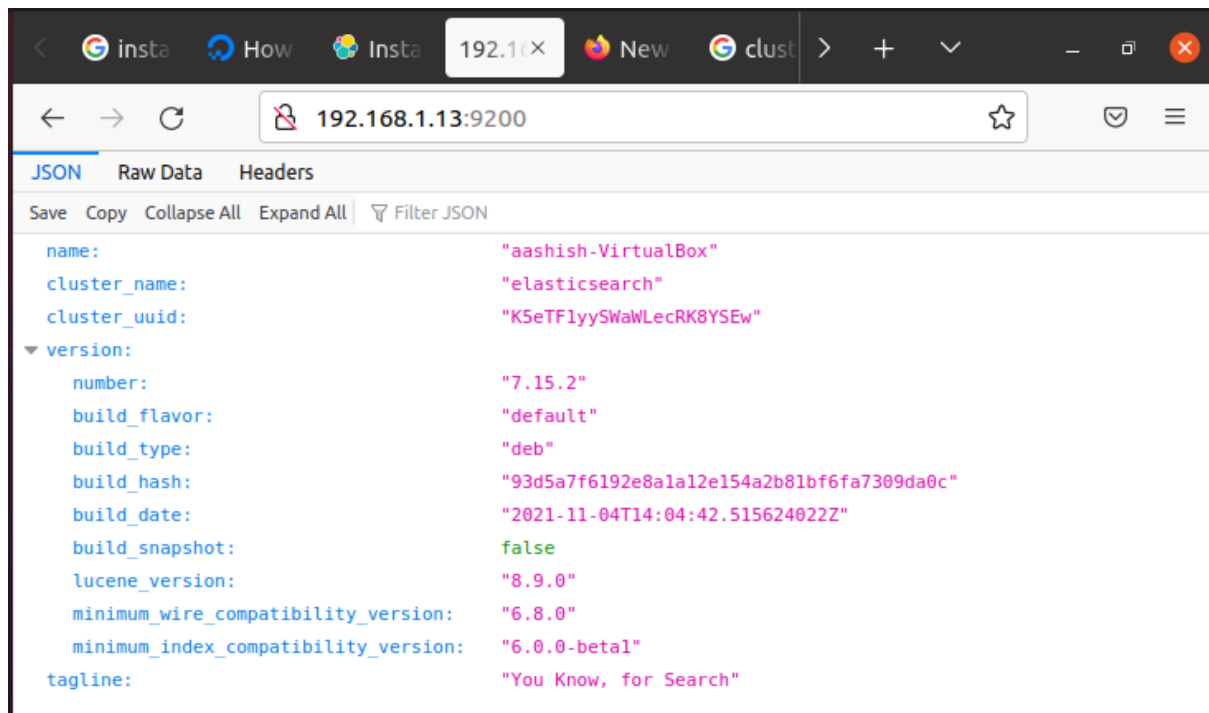
Now, to verify the security we browsing the url as follows;



We use username and password as follows to login to the elasticsearch.



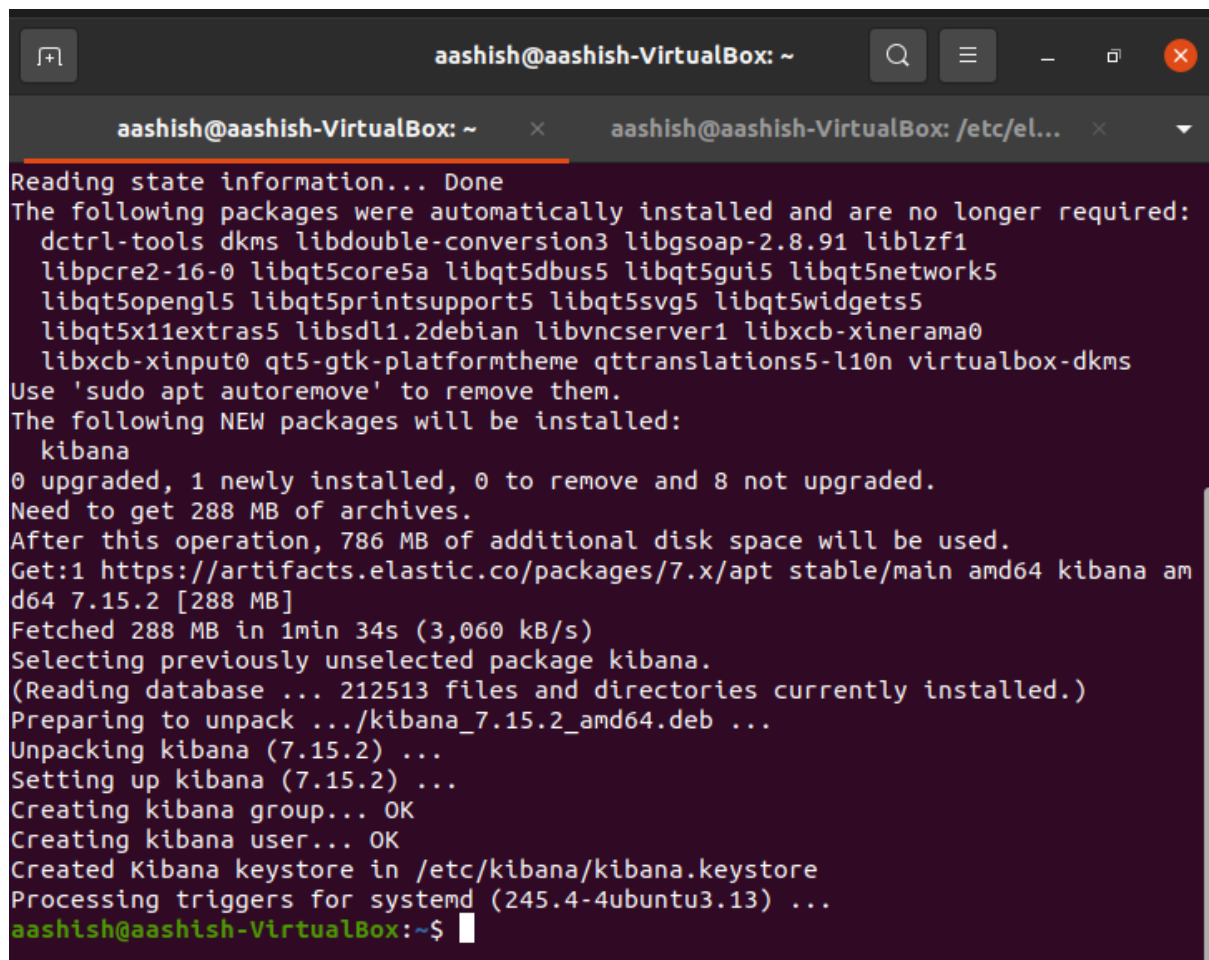
Hence, we are logged in to the elastic search successfully.



Next, we install **Kibana**.

To install kibana, we need the public signing key, apt-transport-https package and save the repo definition. Since we have already done it for elastic search, we don't need to do it again. We can simply run the command;

- **sudo apt-get update**
- **sudo apt-get install kibana**

A terminal window titled 'aashish@aashish-VirtualBox: ~' showing the output of 'sudo apt-get install kibana'. The terminal displays a list of packages to be removed, the new package 'kibana' to be installed, and the progress of downloading and installing the package from the Elastic repository. The installation is successful, and the prompt returns to the user.

```
aashish@aashish-VirtualBox: ~  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  dctrl-tools dkms libdouble-conversion3 libgsoap-2.8.91 liblzfl  
  libpcre2-16-0 libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5  
  libqt5opengl5 libqt5printsupport5 libqt5svg5 libqt5widgets5  
  libqt5x11extras5 libsdl1.2debian libvncserver1 libxcb-xinerama0  
  libxcb-xinput0 qt5-gtk-platformtheme qttranslations5-l10n virtualbox-dkms  
Use 'sudo apt autoremove' to remove them.  
The following NEW packages will be installed:  
  kibana  
0 upgraded, 1 newly installed, 0 to remove and 8 not upgraded.  
Need to get 288 MB of archives.  
After this operation, 786 MB of additional disk space will be used.  
Get:1 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 kibana am  
d64 7.15.2 [288 MB]  
Fetched 288 MB in 1min 34s (3,060 kB/s)  
Selecting previously unselected package kibana.  
(Reading database ... 212513 files and directories currently installed.)  
Preparing to unpack .../kibana_7.15.2_amd64.deb ...  
Unpacking kibana (7.15.2) ...  
Setting up kibana (7.15.2) ...  
Creating kibana group... OK  
Creating kibana user... OK  
Created Kibana keystore in /etc/kibana/kibana.keystore  
Processing triggers for systemd (245.4-4ubuntu3.13) ...  
aashish@aashish-VirtualBox:~$
```

Next, we check start, enable and check the status of kibana using the following commands;

- **sudo systemctl start kibana**
- **sudo systemctl enable kibana**
- **sudo systemctl status kibana**

```
aashish@aashish-VirtualBox: ~  
aashish@aashish-VirtualBox: /etc/ki... x aashish@aashish-VirtualBox: ~ x  
aashish@aashish-VirtualBox:~$ sudo systemctl start kibana  
[sudo] password for aashish:  
aashish@aashish-VirtualBox:~$ sudo systemctl status kibana  
● kibana.service - Kibana  
   Loaded: loaded (/etc/systemd/system/kibana.service; disabled; vendor preset: enabled)  
   Active: active (running) since Mon 2021-11-29 11:40:51 +0545; 6s ago  
     Docs: https://www.elastic.co  
   Main PID: 10527 (node)  
    Tasks: 11 (limit: 3807)  
   Memory: 96.0M  
   CGroup: /system.slice/kibana.service  
           └─10527 /usr/share/kibana/bin/./node/bin/node /usr/share/kibana/bin/./node/bin/node /usr/share/kibana/bin/./node/bin/node  
नवम्बर 29 11:40:51 aashish-VirtualBox systemd[1]: Started Kibana.  
lines 1-11/11 (END)
```

Next, we configure Kibana by editing the kibana.yml file as follows;

- **sudo nano /etc/kibana/kibana.yml**

```
aashish@aashish-VirtualBox: /etc/kibana  
aashish@aashish-VirtualBox: /etc/ki... x aashish@aashish-VirtualBox: ~ x  
GNU nano 4.8 kibana.yml  
# Kibana is served by a back end server. This setting specifies the port to use  
#server.port: 5601  
xpack.encryptedSavedObjects.encryptionKey: "asdfghjklpoiuytrewqazxcvbnm1234565  
# Specifies the address to which the Kibana server will bind. IP addresses and  
# The default is 'localhost', which usually means remote machines will not be  
# To allow connections from remote users, set this parameter to a non-loopback  
server.host: "0.0.0.0"
```

```
aashish@aashish-VirtualBox: /etc/kibana  
aashish@aashish-VirtualBox: /etc/ki... x aashish@aashish-VirtualBox: ~ x  
GNU nano 4.8 kibana.yml  
# If your Elasticsearch is protected with basic authentication, these settings  
# the username and password that the Kibana server uses to perform maintenance  
# index at startup. Your Kibana users still need to authenticate with Elastic  
# is proxied through the Kibana server.  
elasticsearch.username: "kibana_system"  
elasticsearch.password: "123456"
```

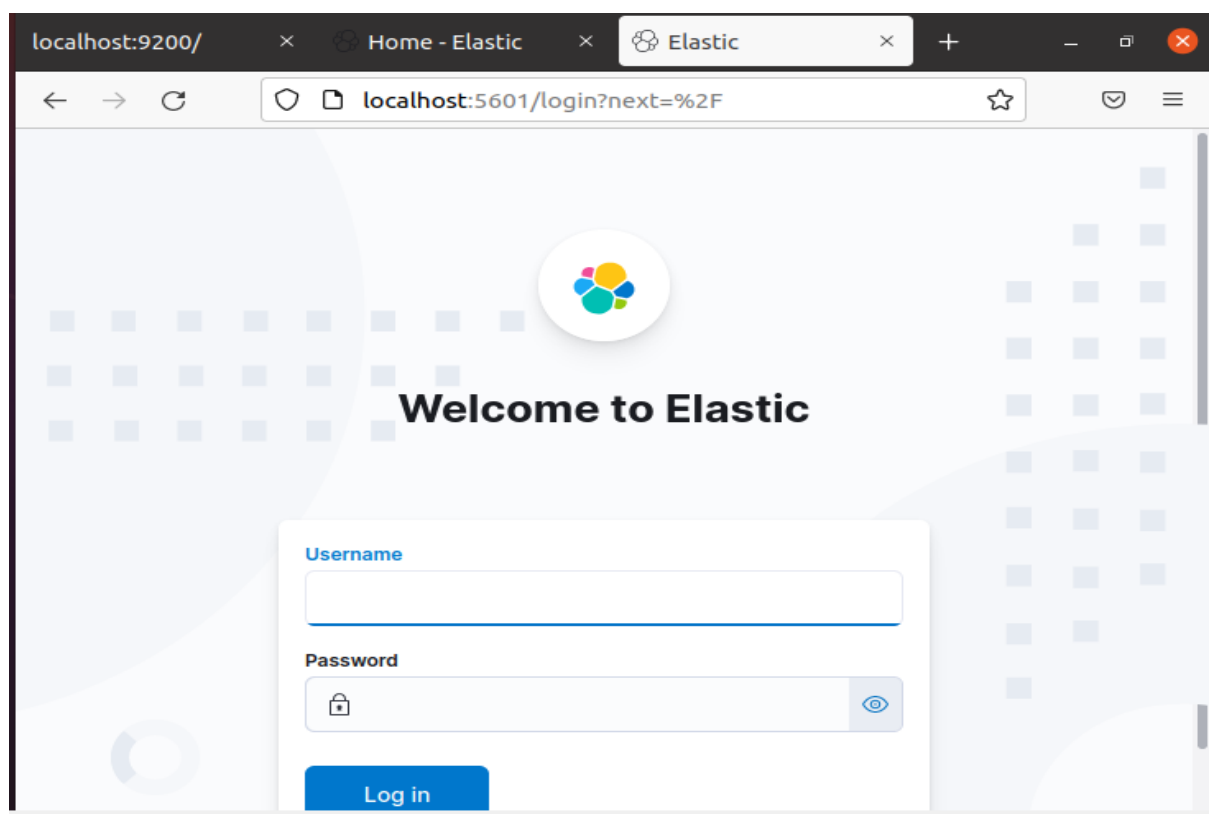
Then, we restart the kibana using;

- **sudo systemctl restart kibana**

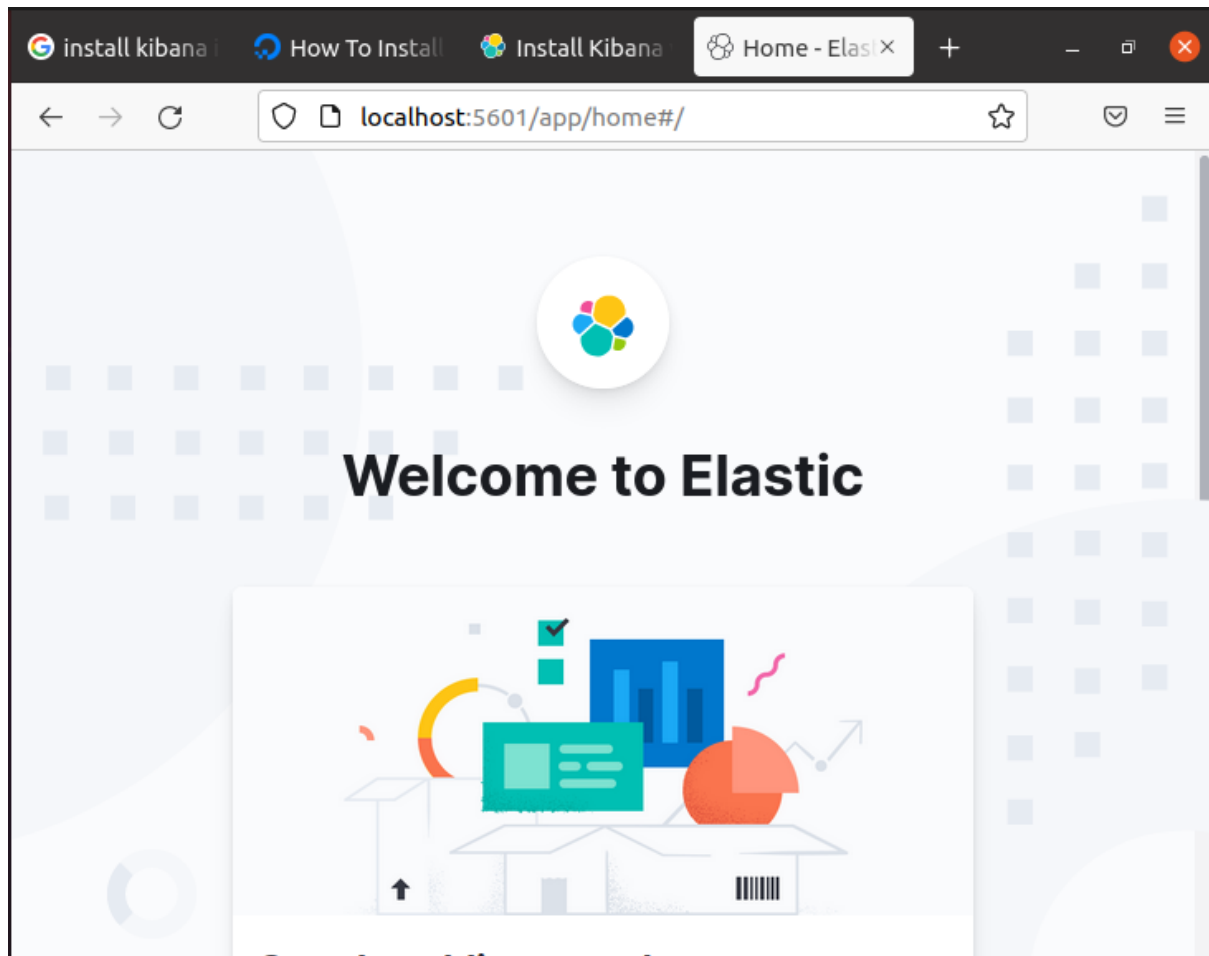
```
aashish@aashish-VirtualBox: ~  
aashish@aashish-VirtualBox: /etc/ki... x aashish@aashish-VirtualBox: ~ x  
aashish@aashish-VirtualBox:~$ sudo systemctl start kibana  
[sudo] password for aashish:  
aashish@aashish-VirtualBox:~$ sudo systemctl status kibana  
● kibana.service - Kibana  
   Loaded: loaded (/etc/systemd/system/kibana.service; disabled; vendor preset: enabled)  
   Active: active (running) since Mon 2021-11-29 11:40:51 +0545; 6s ago  
     Docs: https://www.elastic.co  
  Main PID: 10527 (node)  
    Tasks: 11 (limit: 3807)  
   Memory: 96.0M  
    CGroup: /system.slice/kibana.service  
            └─10527 /usr/share/kibana/bin/./node/bin/node /usr/share/kibana/bin/kibana  
नवम्बर 29 11:40:51 aashish-VirtualBox systemd[1]: Started Kibana.  
lines 1-11/11 (END)
```

Then, we verify the Kibana via our web browser with url;

- <http://192.168.1.13:5601> or,
- <http://localhost:5601>



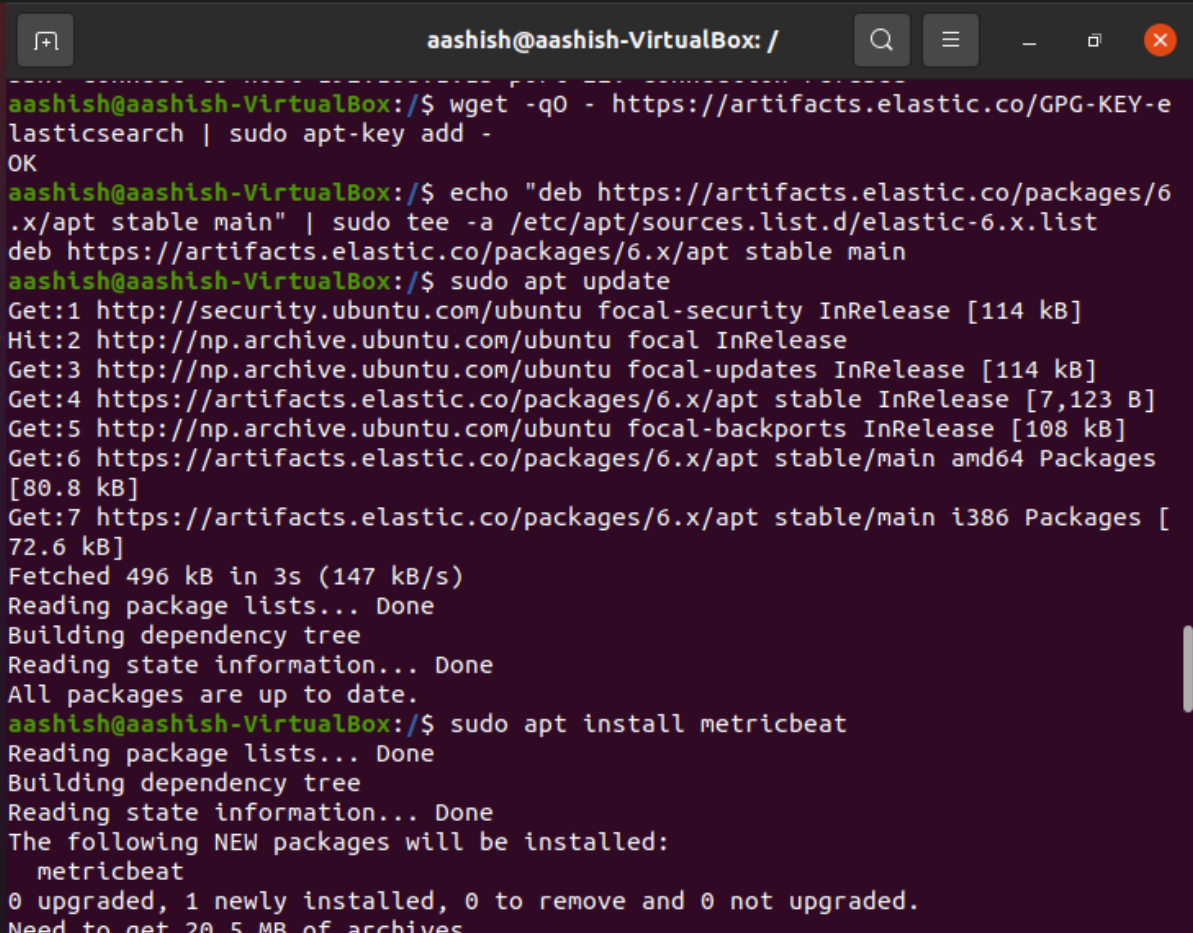
Next, we login to Kibana using the login credentials and get started with Kibana as follows;



Next, we install **Metricbeat**.

We have another server or vm to install the metricbeat. To install metricbeat, we need the public signing key, apt-transport-https package and save the repo definition using the following commands on server2 as follows;

- **wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -**
- **sudo apt-get install apt-transport-https**
- **echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee -a /etc/apt/sources.list.d/elastic-7.x.list**
- **sudo apt update**
- **sudo apt install metricbeat**



```
aashish@aashish-VirtualBox: /
aashish@aashish-VirtualBox:/$ wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -
OK
aashish@aashish-VirtualBox:/$ echo "deb https://artifacts.elastic.co/packages/6.x/apt stable main" | sudo tee -a /etc/apt/sources.list.d/elastic-6.x.list
deb https://artifacts.elastic.co/packages/6.x/apt stable main
aashish@aashish-VirtualBox:/$ sudo apt update
Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:2 http://np.archive.ubuntu.com/ubuntu focal InRelease
Get:3 http://np.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 https://artifacts.elastic.co/packages/6.x/apt stable InRelease [7,123 B]
Get:5 http://np.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:6 https://artifacts.elastic.co/packages/6.x/apt stable/main amd64 Packages [80.8 kB]
Get:7 https://artifacts.elastic.co/packages/6.x/apt stable/main i386 Packages [72.6 kB]
Fetched 496 kB in 3s (147 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
aashish@aashish-VirtualBox:/$ sudo apt install metricbeat
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  metricbeat
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 20.5 MB of archives.
```

Metricbeat was installed successfully.

```
aashish@aashish-VirtualBox: ~  
aashish@aashish-VirtualBox:~$ sudo apt install metricbeat  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
metricbeat is already the newest version (7.15.2).  
The following packages were automatically installed and are no longer required:  
  dctrl-tools dkms libdouble-conversion3 libgsoap-2.8.91 liblzfl  
  libpcre2-16-0 libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5  
  libqt5opengl5 libqt5printsupport5 libqt5svg5 libqt5widgets5  
  libqt5x11extras5 libsdl1.2debian libvncserver1 libxcb-xinerama0  
  libxcb-xinput0 qt5-gtk-platformtheme qttranslations5-l10n virtualbox-dkms  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

Then, metricbeat was started and enabled using the following command;

- **sudo systemctl start metricbeat**
- **sudo systemctl enable metricbeat**

```
aashish@aashish-VirtualBox: ~  
aashish@aashish-VirtualBox:~$ sudo systemctl start metricbeat  
aashish@aashish-VirtualBox:~$ sudo systemctl enable metricbeat  
Synchronizing state of metricbeat.service with SysV service script with /lib/sy  
stemd/systemd-sysv-install.  
Executing: /lib/systemd/systemd-sysv-install enable metricbeat  
Created symlink /etc/systemd/system/multi-user.target.wants/metricbeat.service  
→ /lib/systemd/system/metricbeat.service.
```

We used `sudo hostnamectl set-hostname server2` to change the hostname.

Next, we edit the **metricbeat.yml** file to configure metric beat as follows;

- **sudo nano /etc/metricbeat/metricbeat.yml**

```
index: memory-metrics  
# ----- Elasticsearch Output -----  
output.elasticsearch:  
  # Array of hosts to connect to.  
  hosts: ["192.168.1.13:9200"]  
  
setup.ilm.enabled: false  
setup.template.name: "test-template"  
setup.template.pattern: "test-temp-pattern"
```

Then, we add metrics as follows;

```
aashish@server2: /etc/metricbeat
GNU nano 4.8 metricbeat.yml Modified
#module
metricbeat.modules:
- module: system
  metricsets:
    - load
  enabled: true
  period: 10s
  index: "load-metrics"

metricbeat.modules:
- module: system
  metricsets:
    - fsstat
  enabled: true
  period: 10s
  index: "fsstat-metrics"

metricbeat.modules:
- module: system
  metricsets:
    - memory
  enabled: true
  period: 15s
  index: "memory-metrics"
# ----- Elasticsearch Output -----
```

We save and exit the file. Then we restart the metricbeat using command;

- **sudo systemctl restart metricbeat**
- **sudo systemctl enable metricbeat**
- **sudo systemctl status metricbeat**

```
aashish@aashish-VirtualBox: /
aashish@aashish-VirtualBox:/$ sudo nano /etc/metricbeat/modules.d/system.yml
aashish@aashish-VirtualBox:/$ sudo systemctl start metricbeat
aashish@aashish-VirtualBox:/$ sudo systemctl enable metricbeat
Synchronizing state of metricbeat.service with SysV service script with /lib/sy
stemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable metricbeat
Created symlink /etc/systemd/system/multi-user.target.wants/metricbeat.service
→ /lib/systemd/system/metricbeat.service.
```



```
aashish@server2: /etc/metricbeat/modules.d
aashish@server2:/etc/metricbeat/modules.d$ sudo systemctl status metricbeat
● metricbeat.service - Metricbeat is a lightweight shipper for metrics.
   Loaded: loaded (/lib/systemd/system/metricbeat.service; disabled; vendor
   Active: active (running) since Thu 2021-12-02 09:38:51 +0545; 2h 8min ago
     Docs: https://www.elastic.co/beats/metricbeat
   Main PID: 2779 (metricbeat)
      Tasks: 9 (limit: 5135)
     Memory: 96.0M
    CGroup: /system.slice/metricbeat.service
            └─2779 /usr/share/metricbeat/bin/metricbeat --environment systemd>

दि सम्बर 02 11:42:23 server2 metricbeat[2779]: 2021-12-02T11:42:23.729+0545
दि सम्बर 02 11:42:53 server2 metricbeat[2779]: 2021-12-02T11:42:53.728+0545
दि सम्बर 02 11:43:23 server2 metricbeat[2779]: 2021-12-02T11:43:23.729+0545
दि सम्बर 02 11:43:53 server2 metricbeat[2779]: 2021-12-02T11:43:53.730+0545
दि सम्बर 02 11:44:23 server2 metricbeat[2779]: 2021-12-02T11:44:23.728+0545
दि सम्बर 02 11:44:53 server2 metricbeat[2779]: 2021-12-02T11:44:53.727+0545
दि सम्बर 02 11:45:23 server2 metricbeat[2779]: 2021-12-02T11:45:23.727+0545
दि सम्बर 02 11:45:53 server2 metricbeat[2779]: 2021-12-02T11:45:53.731+0545
दि सम्बर 02 11:46:23 server2 metricbeat[2779]: 2021-12-02T11:46:23.729+0545
दि सम्बर 02 11:46:53 server2 metricbeat[2779]: 2021-12-02T11:46:53.726+0545

aashish@server2:/etc/metricbeat/modules.d$ ^C
aashish@server2:/etc/metricbeat/modules.d$
```

Hence, metricbeat is also installed successfully on the server 2.