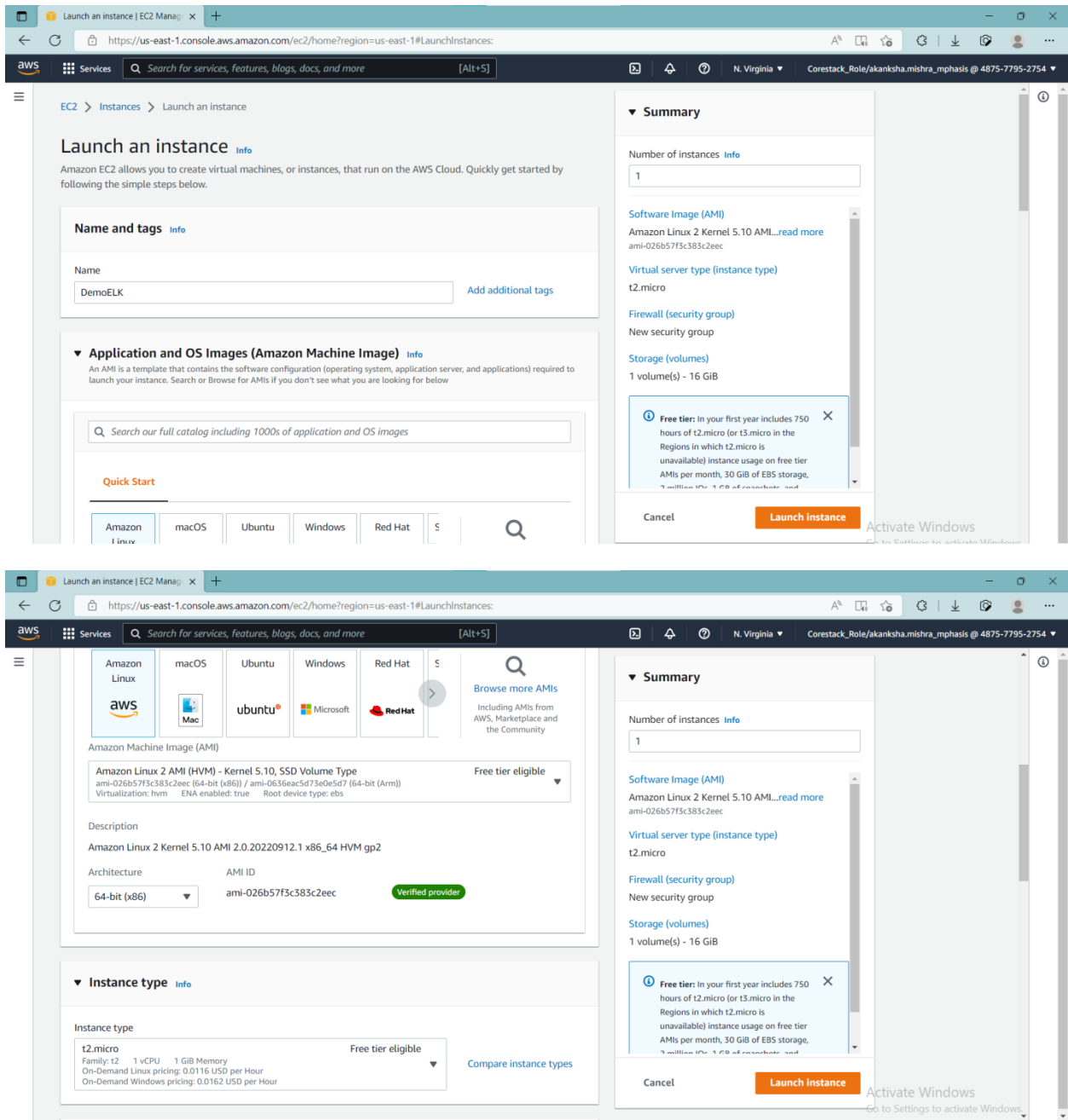
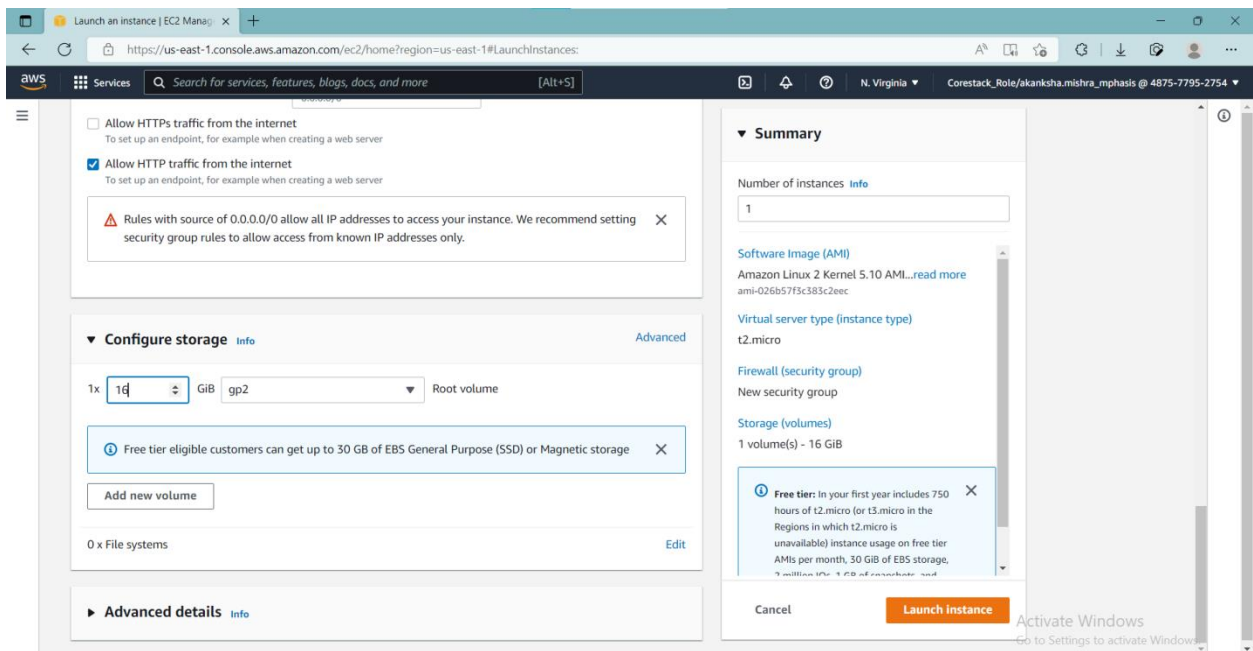
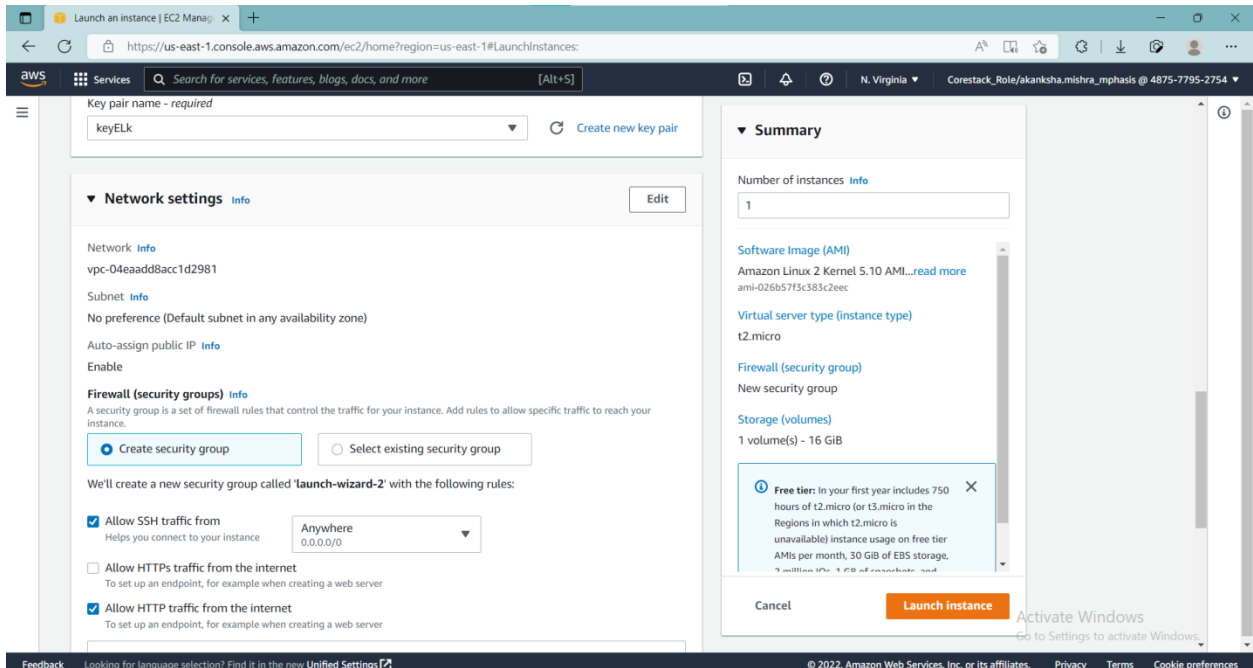


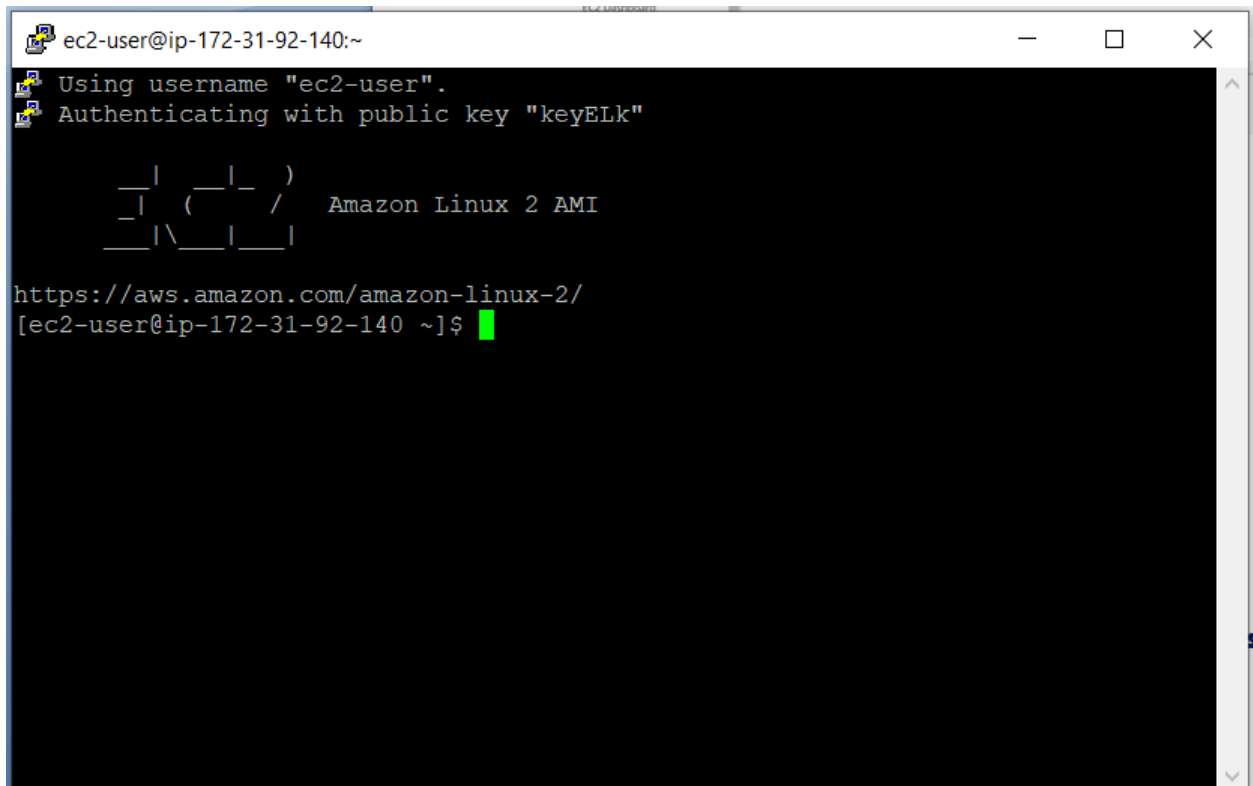
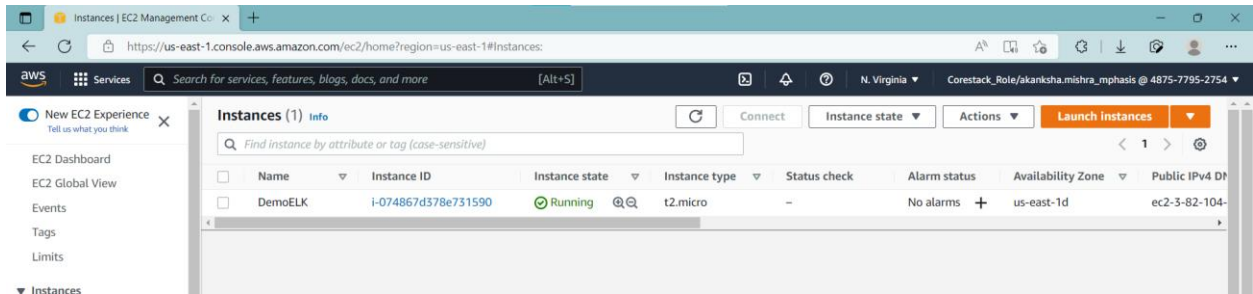
Deploying ELK Stack on Docker Container

First we need to create an EC2- instance.





Now connect to the instance using putty



Now follow the following step

Step1: Install java and its Dependencies

ec2-user@ip-172-31-92-140:~

Using username "ec2-user".

Authenticating with public key "keyELk"

```
  _ |   _ | _ )
 _ | (   _ /   Amazon Linux 2 AMI
__| \__|__|
```

<https://aws.amazon.com/amazon-linux-2/>

[ec2-user@ip-172-31-92-140 ~]\$ java -version

-bash: java: command not found

[ec2-user@ip-172-31-92-140 ~]\$ sudo yum -y install java-1.8.0-openjdk

Loaded plugins: extras_suggestions, langpacks, priorities, update-motd

amzn2-core | 3.7 kB 00:00

Resolving Dependencies

--> Running transaction check

---> Package java-1.8.0-openjdk.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 will be installed

--> Processing Dependency: java-1.8.0-openjdk-headless(x86-64) = 1:1.8.0.342.b07-1.amzn2.0.1 for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: xorg-x11-fonts-Type1 for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libjvm.so(SUNWprivate_1.1)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libjava.so(SUNWprivate_1.1)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libasound.so.2(ALSA_0.9.0rc4)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libasound.so.2(ALSA_0.9)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libXcomposite(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: gtk2(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: fontconfig(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libjvm.so()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libjava.so()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libgif.so.4()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libasound.so.2()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

--> Processing Dependency: libXtst.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64

```
libxshmfence.x86_64 0:1.2-1.amzn2.0.2
libxslt.x86_64 0:1.1.28-6.amzn2
lksctp-tools.x86_64 0:1.0.17-2.amzn2.0.2
log4j-cve-2021-44228-hotpatch.noarch 0:1.3-7.amzn2
mesa-libEGL.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libGL.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libgbm.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libglapi.x86_64 0:18.3.4-5.amzn2.0.1
pango.x86_64 0:1.42.4-4.amzn2
pccsc-lite-libs.x86_64 0:1.8.8-7.amzn2
pixman.x86_64 0:0.34.0-1.amzn2.0.2
python-javapackages.noarch 0:3.4.1-11.amzn2
python-lxml.x86_64 0:3.2.1-4.amzn2.0.3
ttmkfdir.x86_64 0:3.0.9-42.amzn2.0.2
tzdata-java.noarch 0:2022c-1.amzn2
xorg-x11-font-utils.x86_64 1:7.5-21.amzn2
xorg-x11-fonts-Type1.noarch 0:7.5-9.amzn2
```

Complete!

[ec2-user@ip-172-31-92-140 ~]\$

ec2-user@ip-172-31-92-140:~

```
[ec2-user@ip-172-31-92-140 ~]$ java -version
openjdk version "1.8.0_342"
OpenJDK Runtime Environment (build 1.8.0_342-b07)
OpenJDK 64-Bit Server VM (build 25.342-b07, mixed mode)
[ec2-user@ip-172-31-92-140 ~]$
```

Step2: Install Elastic search on AWS Server

root@ip-172-31-92-140:~

```
[ec2-user@ip-172-31-92-140 ~]$ sudo su
[root@ip-172-31-92-140 ec2-user]# yum install -y
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Error: Need to pass a list of pkgs to install
Mini usage:

install PACKAGE...

Install a package or packages on your system

aliases: install-n, install-na, install-nevra
[root@ip-172-31-92-140 ec2-user]# cd /root
[root@ip-172-31-92-140 ~]# wget https://download.elastic.co/elasticsearch/elasticsearch-1.7.2.noarch.rpm
--2022-10-09 13:39:01-- https://download.elastic.co/elasticsearch/elasticsearch-1.7.2.noarch.rpm
Resolving download.elastic.co (download.elastic.co)... 34.120.127.130, 2600:1901:0:1d7::
Connecting to download.elastic.co (download.elastic.co)|34.120.127.130|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 27304727 (26M) [binary/octet-stream]
Saving to: 'elasticsearch-1.7.2.noarch.rpm'

100%[=====>] 27,304,727 31.8MB/s in 0.8s

2022-10-09 13:39:03 (31.8 MB/s) - 'elasticsearch-1.7.2.noarch.rpm' saved [27304727/27304727]

[root@ip-172-31-92-140 ~]# yum install elasticsearch-1.7.2.noarch.rpm -y
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Examining elasticsearch-1.7.2.noarch.rpm: elasticsearch-1.7.2-1.noarch
Marking elasticsearch-1.7.2.noarch.rpm to be installed
Resolving Dependencies
--> Running transaction check
---> Package elasticsearch.noarch 0:1.7.2-1 will be installed
--> Finished Dependency Resolution
amzn2-core/2/x86_64 | 3.7 kB 00:00

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
elasticsearch noarch 1.7.2-1 /elasticsearch-1.7.2.noarch 30 M
Transaction Summary
=====
Install 1 Package
```

root@ip-172-31-92-140:~

2022-10-09 13:39:03 (31.8 MB/s) - 'elasticsearch-1.7.2.noarch.rpm' saved [27304727/27304727]

```
[root@ip-172-31-92-140 ~]# yum install elasticsearch-1.7.2.noarch.rpm -y
```

Loaded plugins: extras suggestions, langpacks, priorities, update-motd

Examining elasticsearch-1.7.2.noarch.rpm: elasticsearch-1.7.2-1.noarch

Marking elasticsearch-1.7.2.noarch.rpm to be installed

Resolving Dependencies

--> Running transaction check

---> Package elasticsearch.noarch 0:1.7.2-1 will be installed

--> Finished Dependency Resolution

amzn2-core/2/x86_64 | 3.7 kB 00:00

Dependencies Resolved

```
=====
Package           Arch      Version      Repository      Size
=====
Installing:
elasticsearch      noarch    1.7.2-1      /elasticsearch-1.7.2.noarch 30 M
=====
```

Transaction Summary

Install 1 Package

Total size: 30 M

Installed size: 30 M

Downloading packages:

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Creating elasticsearch group... OK

Creating elasticsearch user... OK

Installing : elasticsearch-1.7.2-1.noarch 1/1

NOT starting on installation, please execute the following statements to configure elasticsearch service to start automatically using systemd

sudo systemctl daemon-reload

sudo systemctl enable elasticsearch.service

You can start elasticsearch service by executing

sudo systemctl start elasticsearch.service

Verifying : elasticsearch-1.7.2-1.noarch 1/1

Installed:

elasticsearch.noarch 0:1.7.2-1

Complete!

```
[root@ip-172-31-92-140 ~]# rm -f elasticsearch-1.7.2.noarch.rpm
```

Step3: Start the Server

```
root@ip-172-31-92-140:~  
[root@ip-172-31-92-140 ~]# service elasticsearch start  
Starting elasticsearch (via systemctl): [ OK ]  
[root@ip-172-31-92-140 ~]#
```

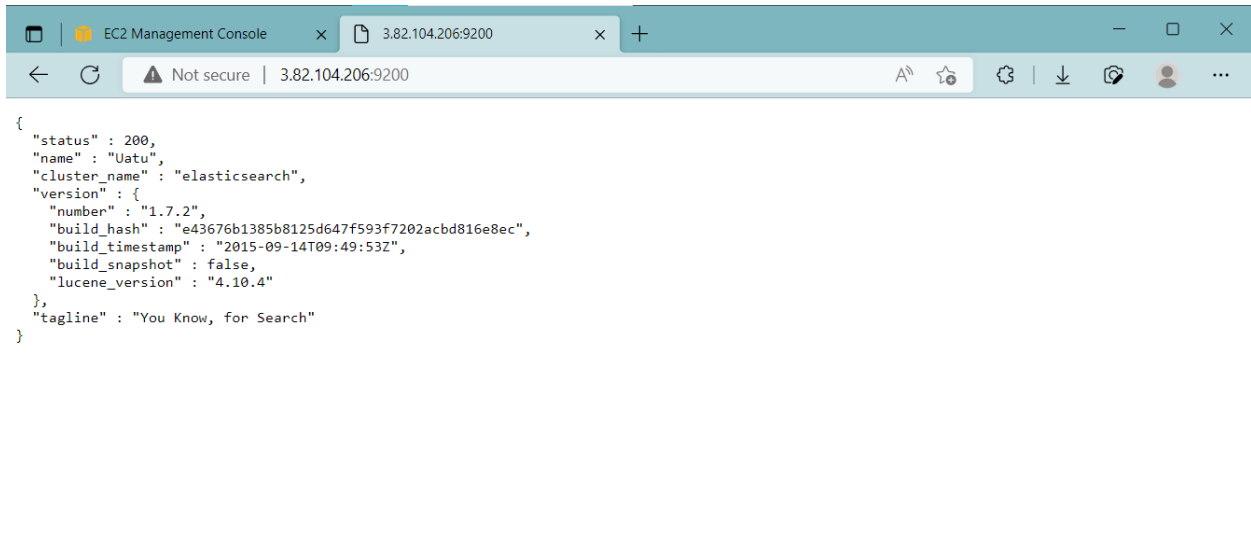
Step4: Automatically Boot u on start

```
root@ip-172-31-92-140:~  
[root@ip-172-31-92-140 ~]# service elasticsearch start  
Starting elasticsearch (via systemctl): [ OK ]  
[root@ip-172-31-92-140 ~]#  
[root@ip-172-31-92-140 ~]# sudo chkconfig --add elasticsearch  
[root@ip-172-31-92-140 ~]#
```

Step5:Configuring AWS IP so you can access using public IP

```
root@ip-172-31-92-140:~  
[root@ip-172-31-92-140 ~]# service elasticsearch start  
Starting elasticsearch (via systemctl): [ OK ]  
[root@ip-172-31-92-140 ~]#  
[root@ip-172-31-92-140 ~]# sudo chkconfig --add elasticsearch  
[root@ip-172-31-92-140 ~]#  
[root@ip-172-31-92-140 ~]# echo "network.host: 0.0.0.0" >> /etc/elasticsearch/elasticsearch.yml  
[root@ip-172-31-92-140 ~]#
```

Checking Elastic Search



Step6:Install Plugins

```
root@ip-172-31-92-140:/usr/share/elasticsearch
[root@ip-172-31-92-140 ~]# service elasticsearch start
Starting elasticsearch (via systemctl): [ OK ]
[root@ip-172-31-92-140 ~]#
[root@ip-172-31-92-140 ~]# sudo chkconfig --add elasticsearch
[root@ip-172-31-92-140 ~]#
[root@ip-172-31-92-140 ~]# echo "network.host: 0.0.0.0" >> /etc/elasticsearch/elasticsearch.yml
[root@ip-172-31-92-140 ~]# cd /usr/share/elasticsearch/
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin -install mobz/elasticsearch-head
-> Installing mobz/elasticsearch-head...
Trying https://github.com/mobz/elasticsearch-head/archive/master.zip...
Downloading .....
Installed mobz/elasticsearch-head into /usr/share/elasticsearch/plugins/head
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin -install lukas-vlcek/bigdesk
-> Installing lukas-vlcek/bigdesk...
Trying https://github.com/lukas-vlcek/bigdesk/archive/master.zip...
Downloading .....
Installed lukas-vlcek/bigdesk into /usr/share/elasticsearch/plugins/bigdesk
Identified as a site plugin, moving to _site structure ...
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin install elasticsearch/elasticsearch-cloud-aws/2.7.1
-> Installing elasticsearch/elasticsearch-cloud-aws/2.7.1...
Trying http://download.elasticsearch.org/elasticsearch/elasticsearch-cloud-aws/elasticsearch-cloud-aws-2.7.1.zip...
Downloading DONE
failed to extract plugin [/usr/share/elasticsearch/plugins/cloud-aws.zip]: ZipException[zip file is empty]
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin --install lmenezes/elasticsearch-kopf/1.5.7
-> Installing lmenezes/elasticsearch-kopf/1.5.7...
Trying http://download.elasticsearch.org/lmenezes/elasticsearch-kopf/elasticsearch-kopf-1.5.7.zip...
Downloading DONE
failed to extract plugin [/usr/share/elasticsearch/plugins/kopf.zip]: ZipException[zip file is empty]
[root@ip-172-31-92-140 elasticsearch]#
```

Step 7:Install Kibana


```
root@ip-172-31-92-140:~/kibana-4.1.2-linux-x64
[root@ip-172-31-92-140 elasticsearch]# sudo su
[root@ip-172-31-92-140 elasticsearch]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amazon2-core
No packages marked for update
[root@ip-172-31-92-140 elasticsearch]# cd /root
[root@ip-172-31-92-140 ~]# wget https://download.elastic.co/kibana/kibana/kibana-4.1.2-linux-x64.tar.gz
--2022-10-09 14:17:18-- https://download.elastic.co/kibana/kibana/kibana-4.1.2-linux-x64.tar.gz
Resolving download.elastic.co (download.elastic.co)... 34.120.127.130, 2600:1901:0:1d7::
Connecting to download.elastic.co (download.elastic.co)|34.120.127.130|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11787239 (11M) [binary/octet-stream]
Saving to: 'kibana-4.1.2-linux-x64.tar.gz'

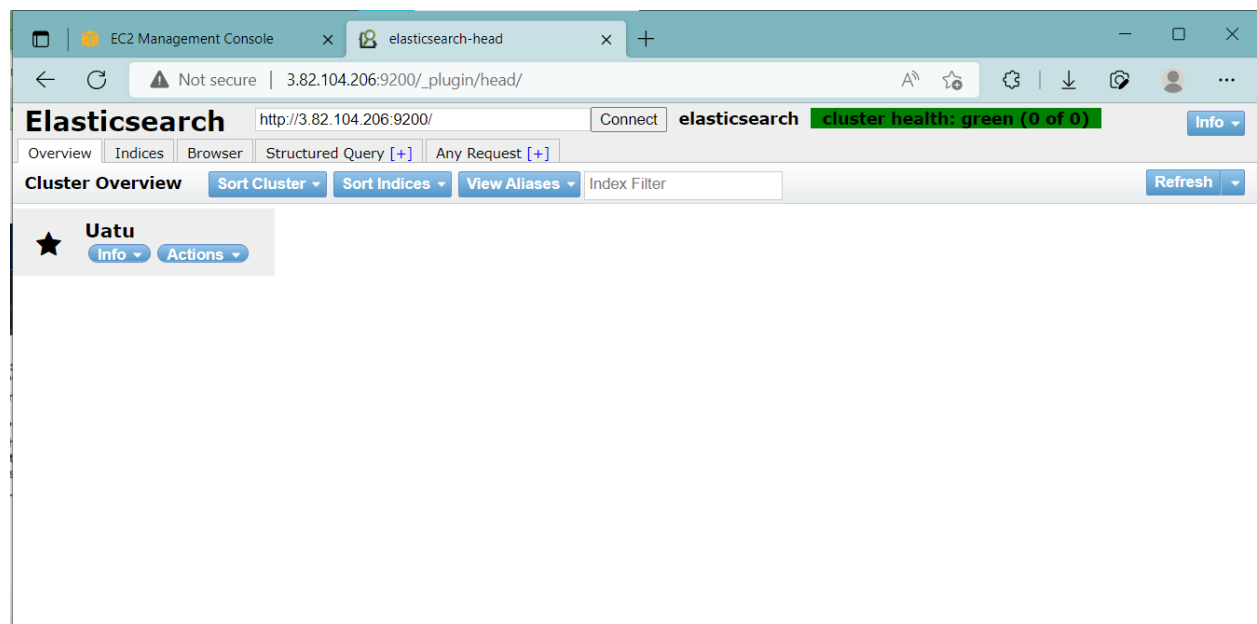
100%[=====] 11,787,239 9.50MB/s in 1.2s

2022-10-09 14:17:19 (9.50 MB/s) - 'kibana-4.1.2-linux-x64.tar.gz' saved [11787239/11787239]

[root@ip-172-31-92-140 ~]# tar xzf kibana-4.1.2-linux-x64.tar.gz
[root@ip-172-31-92-140 ~]# rm -f kibana-4.1.2-linux-x64.tar.gz
[root@ip-172-31-92-140 ~]# cd kibana-4.1.2-linux-x64
[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]# nano config/kibana.yml
[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]#
```

```
[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]# nohup ./bin/kibana &
[1] 1949
[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]# nohup: ignoring input and appending output to 'nohup.out'

[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]#
```




EC2 Management Console x Bigdesk x +

Not secure | 3.82.104.206:9200/_plugin/bigdesk/#nodes

ES node REST endpoint Refresh every Keep history Disconnect

[nodes](#) [cluster](#)

Cluster: elasticsearch 

Number of nodes: 1


Status: **green**

EC2 Management Console x Bigdesk x +

Not secure | 3.82.104.206:9200/_plugin/bigdesk/#nodes/I3KMFR7ITRWX6lpCsLfNsw

ES node REST endpoint Refresh every Keep history Disconnect

[nodes](#) [cluster](#)

Cluster: elasticsearch 

Number of nodes: 1

Status: **green**

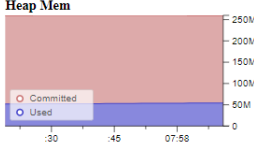
Selected node:

Name: Uatu
ID: I3KMFR7ITRWX6lpCsLfNsw
Hostname: ip-172-31-92-140.ec2.internal
Elasticsearch version: 1.7.2

JVM

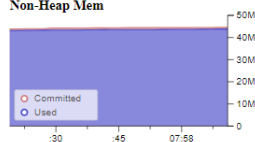
VM name: OpenJDK 64-Bit Server VM Uptime: 43m
VM vendor: Red Hat, Inc. Java version: 1.8.0_342
VM version: 25.342-b07 PID: 13373

Heap Mem



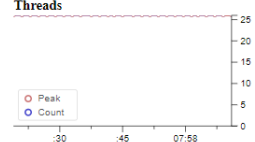
Committed: 247.6mb
Used: 51.6mb

Non-Heap Mem



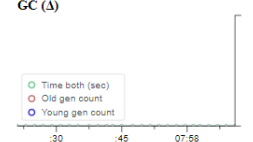
Committed: 42.5mb
Used: 41.8mb

Threads



Peak: 26
Count: 26

GC (Δ)



Total time (O/Y): 37ms / 93ms
Total count (O/Y): 1 / 2

Thread Pools

Search

Index

Bulk

Refresh

Activate Windows
Go to Settings to activate Windows

