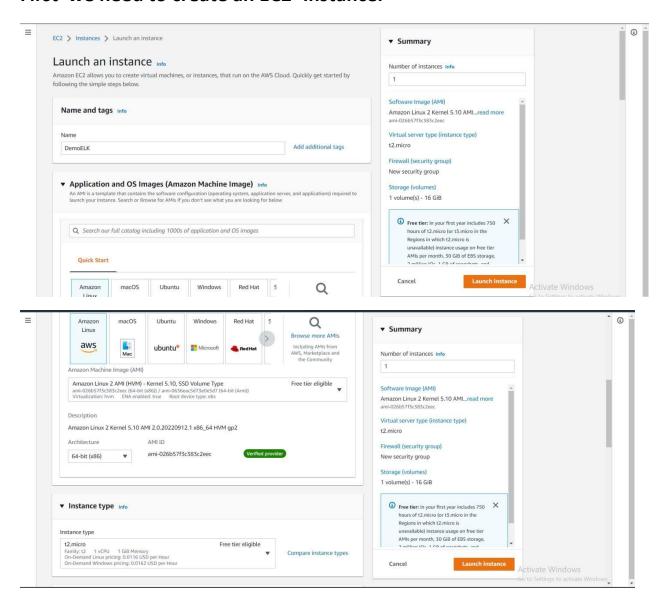
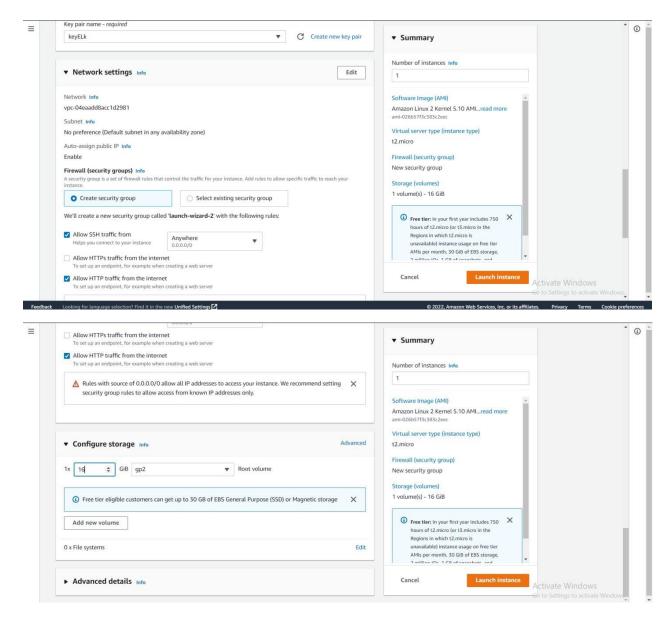
Output:

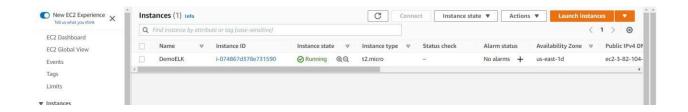
Deploying ELK Stack on Docker Container

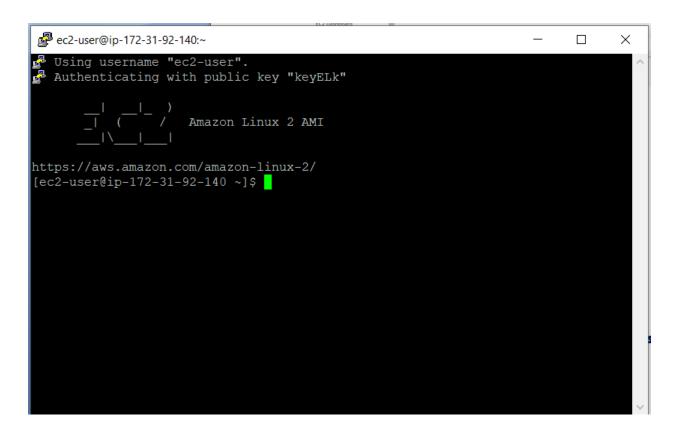
First we need to create an EC2- instance.





Now connect to the instance using putty





Now follow the following step

Step1: Install java and its Dependencies

```
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
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 insta
lled
--> 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-openjd
k-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:jav
a-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:j
ava-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-openjd
k-1.8.0.342.b07-1.amzn2.0.1.x86 64
--> Processing Dependency: libasound.so.2()(64bit) for package: 1:java-1.8.0-ope
njdk-1.8.0.342.b07-1.amzn2.0.1.x86 64
--> Processing Dependency: libXtst.so.6()(64bit) for package: 1:java-1.8.0-openj
dk-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-libGD.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libglm.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 0:1.4.2.4-4.amzn2
pcsc-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
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

```
Proot@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
 [root@ip-172-31-92-140 ec2-user]# cd /root
 [root@ip-172-31-92-140 ecz-user]# cd /root

[root@ip-172-31-92-140 ~]# wget https://download.elastic.co/elasticsearch/elast

icsearch/elasticsearch-1.7.2.noarch.rpm

--2022-10-09 13:39:01-- https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.2.noarch.rpm
  Connecting to download.elastic.co (download.elastic.co)|34.120.127.130|:443... c
 HTTP request sent, awaiting response... 200 OK
Length: 27304727 (26M) [binary/octet-stream]
 Saving to: 'elasticsearch-1.7.2.noarch.rpm'
 2022-10-09 13:39:03 (31.8 MB/s) - 'elasticsearch-1.7.2.noarch.rpm' saved [273047
[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
                                                                                                         | 3.7 kB 00:00
 Dependencies Resolved
 Installing:
 elasticsearch
                                                                                                                                           30 M
```

```
root@ip-172-31-92-140:~
2022-10-09 13:39:03 (31.8 MB/s) - 'elasticsearch-1.7.2.noarch.rpm' saved [273047
[{\tt root@ip-172-31-92-140~~}] \  \, \texttt{# 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
 Dependencies Resolved
 Package
                       Arch
                                      Version
                                                                                                 Size
 Installing:
 elasticsearch
                                                      /elasticsearch-1.7.2.noarch
                                                                                                 30 M
Transaction Summary
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
\#\#\# NOT starting on installation, please execute the following statements to con
figure elasticsearch service to start automatically using systemd
 sudo systemctl daemon-reload
 sudo systemctl enable elasticsearch.service
### You can start elasticsearch service by executing
  elasticsearch.noarch 0:1.7.2-1
```

Step3: Start the Server

Complete!

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

Checking Elastic Search

Step6:Install Plugins

```
Proot@ip-172-31-92-140:/usr/share/elasticsearch
[root@ip-172-31-92-140 ~]# service elasticsearch start
Starting elasticsearch (via systemctl):
[root@ip-172-31-92-140 ~]#
[root@ip-172-31-92-140 ~]# sudo chkconfig --add elasticsearch
-> Installing mobz/elasticsearch-head...
Trying https://github.com/mobz/elasticsearch-head/archive/master.zip...
Trying https://github.com/lukas-vlcek/bigdesk/archive/master.zip...
Downloading .....
......DONE
Installed lukas-vlcek/bigdesk into /usr/share/elasticsearch/plugins/bigdesk
-> 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...
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



