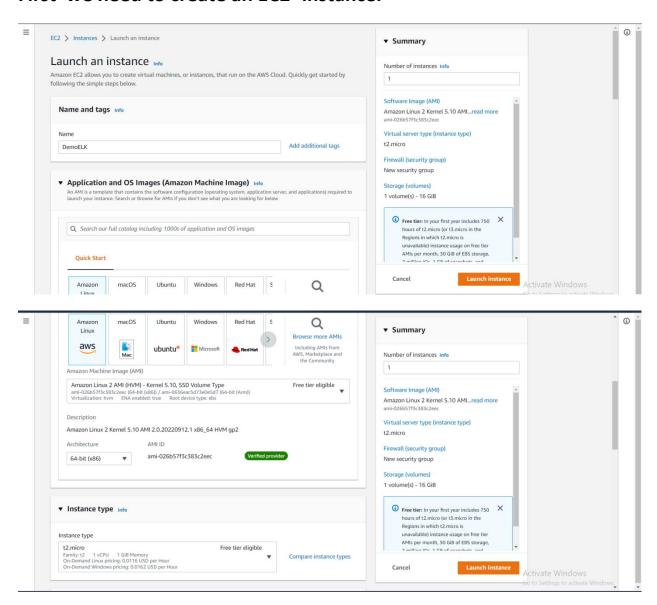
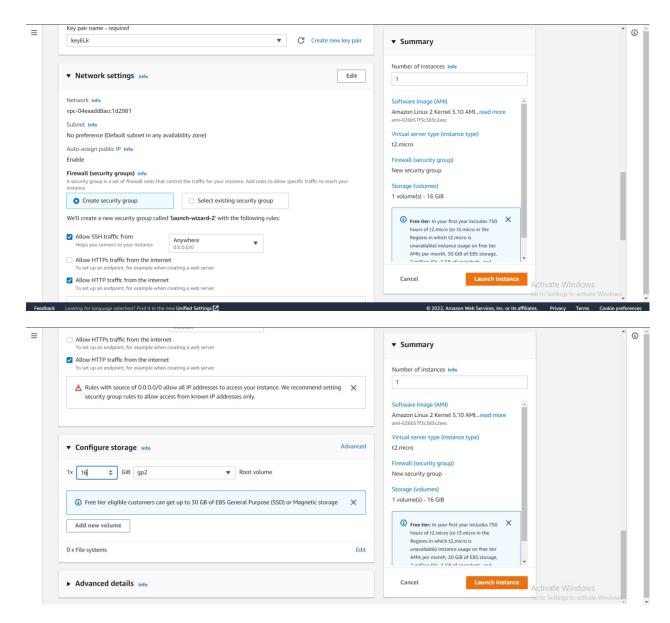
Output:

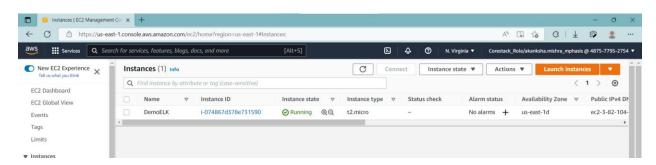
Deploying ELK Stack on Docker Container

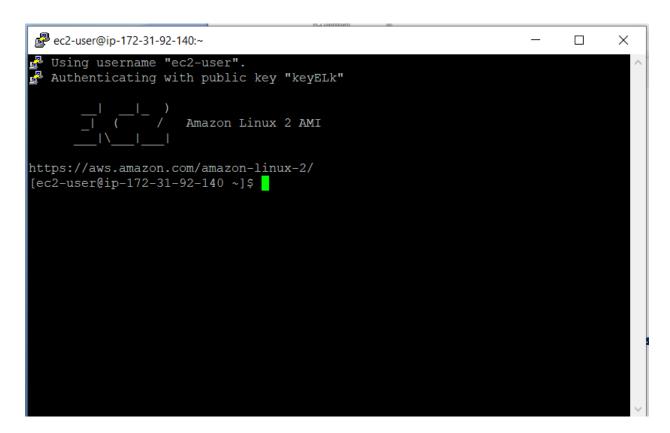
First we need to create an EC2- instance.





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
--> 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-Typel 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(ALS\overline{A} 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 \overline{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-openj
dk-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
  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 \overline{64} 0:18.3.4-5.amzn2.0.1
 mesa-libgbm.x86_64 0:18.3.4-5.amzn2.0.1
 mesa-libglapi.x_{86} 64 0:18.3.4-5.amzn2.0.1
 pango.x86_64 0:1.42.4-4.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
 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

```
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
Resolving download.elastic.co (download.elastic.co)... 34.120.127.130, 2600:1901
  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]
 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
 amzn2-core/2/x86_64
 Dependencies Resolved
 Package
                                           1.7.2-1 /elasticsearch-1.7.2.noarch
                                                                                                             30 M
 elasticsearch
```

```
@ root@ip-172-31-92-140:~
2022-10-09 13:39:03 (31.8 MB/s) - `elasticsearch-1.7.2.noarch.rpm' saved [273047
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
Dependencies Resolved
 Package
                                                Repository
                                               /elasticsearch-1.7.2.noarch
 elasticsearch
                                                                                     30 M
Transaction Summary
Total size: 30 M
Installed size: 30 M
Downloading packages:
Running transaction check
Running transaction test
Running transaction
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
 Complete!
[{\tt root@ip-172-31-92-140} \ {\tt \sim}] \ \# \ {\tt rm} \ -f \ elasticsearch-1.7.2.noarch.rpm
```

Step3: Start the Server

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

```
EC2 Management Console X 3.82.104.206.9200 X + - - X

C A Not secure | 3.82.104.206.9200 X + - - X

{
    "status" : 200,
    "name" : "Uatur,
    "cluster_name" : "elasticsearch",
    "version" : {
        "number" : "1.7.2",
        "build_hash" : "e43676b1385b8125d647f593f7202acbd816e8ec",
        "build_timestamp" : "2015-09-14T09:49:532",
        "build_snapshot" : false,
        "lucene_version" : "4.10.4"
    },
    "tagline" : "You Know, for 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
[root@ip-172-31-92-140 ~]#
 [root@ip-172-31-92-140 ~] # echo "network.host: 0.0.0.0" >> /etc/elasticsearch/el
 [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

