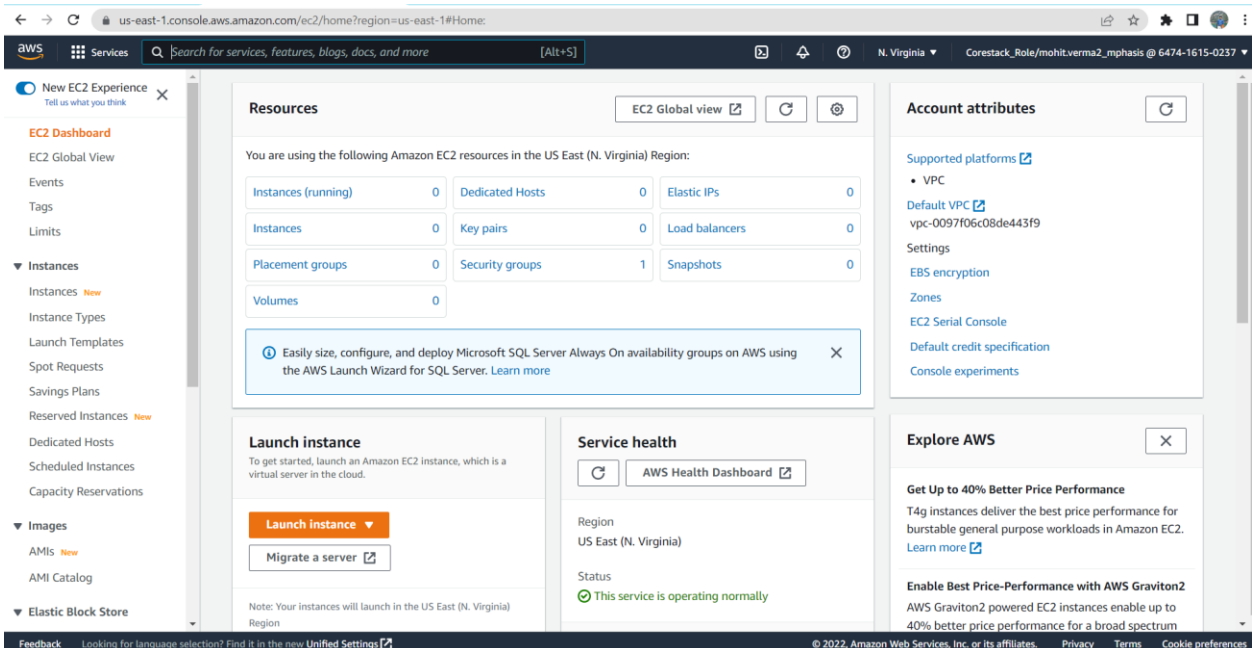
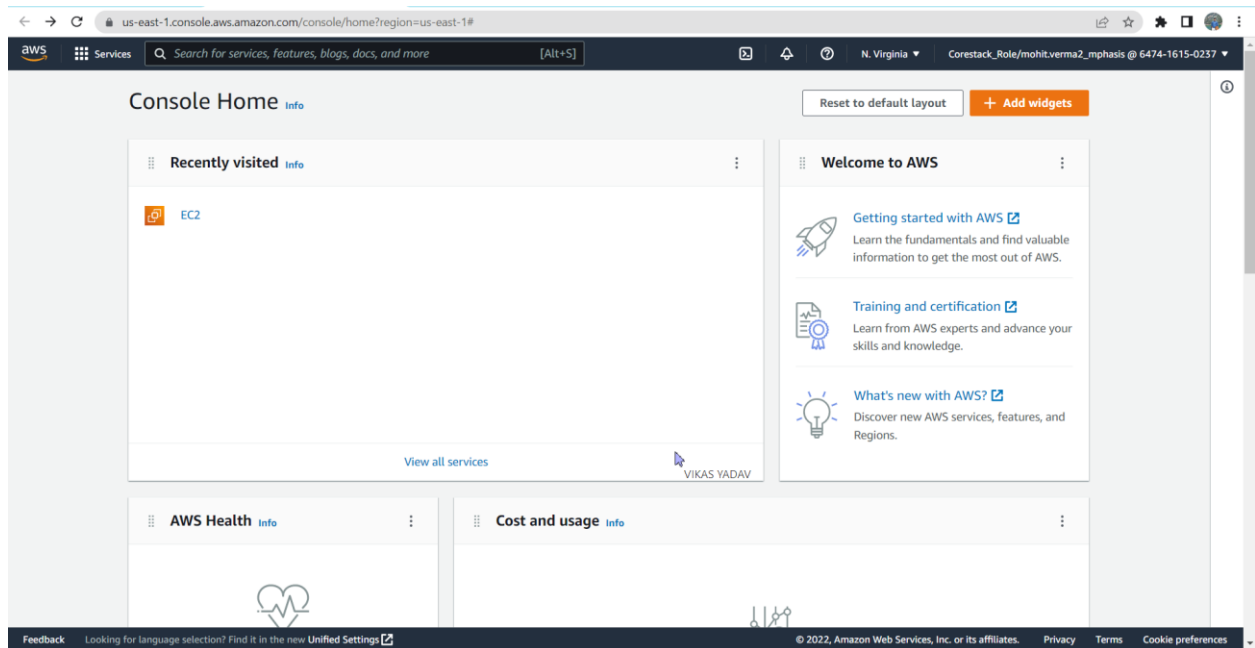


# ScreenShot

First we need to create an EC2- instance.



us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia Corestack\_Role/mohit.verma2\_mphasis @ 6474-1615-0237

## Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags**

Name: DemoELK Add additional tags

**Application and OS Images (Amazon Machine Image)**

Search our full catalog including 1000s of application and OS images

**Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat

**Summary**

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage.

Cancel Launch instance

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia Corestack\_Role/mohit.verma2\_mphasis @ 6474-1615-0237

## Create key pair

We noticed that you didn't select a key pair. If you want to be able to connect to your instance it is recommended that you create one.

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

☒ Create new key pair ☐ Proceed without key pair

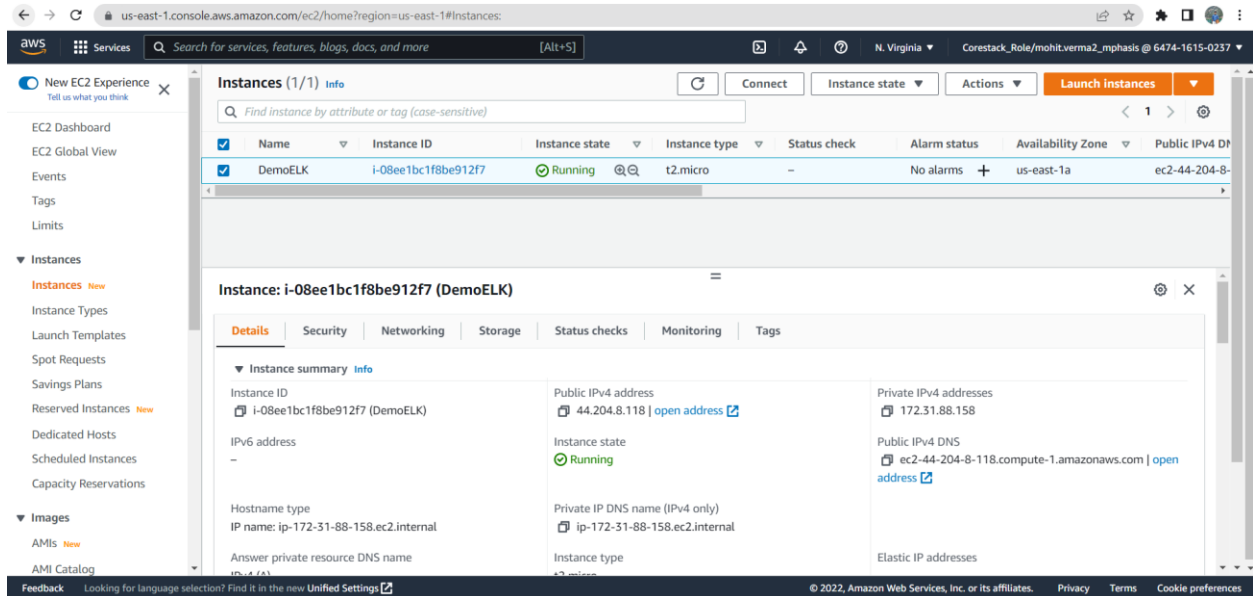
Key pair name: DemoELK

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

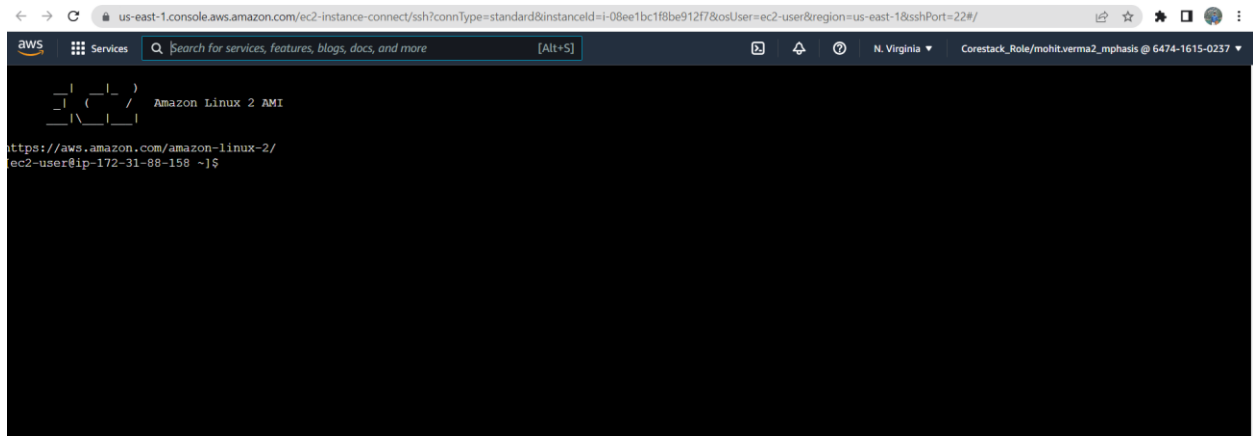
Key pair type: ☒ RSA RSA encrypted private and public key pair ☐ ED25519 ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format: ☒ .pem For use with OpenSSH ☐ .ppk

Now connect to the instance using putty



The screenshot shows the AWS Management Console interface. On the left, there's a navigation menu with options like 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Scheduled Instances', 'Capacity Reservations', 'Images', 'AMIs', and 'AMI Catalog'. The main area displays the 'Instances (1/1)' page. A table lists the instance 'DemoELK' with ID 'i-08ee1bc1f8be912f7', state 'Running', type 't2.micro', and public IP 'ec2-44-204-8-118.compute-1.amazonaws.com'. Below the table, the 'Details' tab is selected, showing a summary of the instance's configuration, including its public and private IP addresses, DNS names, and hostname type.



The screenshot shows a terminal window with a black background. At the top, there's a logo for 'Amazon Linux 2 AMI'. Below the logo, the text 'https://aws.amazon.com/amazon-linux-2/' is displayed. The terminal prompt is 'ec2-user@ip-172-31-88-158 ~\$'.

i-08ee1bc1f8be912f7 (DemoELK)  
PublicIPs: 44.204.8.118 PrivateIPs: 172.31.88.158

Feedback Looking for language selection? Find it in the new Unified Settings

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```
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
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

```

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/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
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... c
onnectd.
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 [273047
27/27304727]

[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 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

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



```
EC2 Management Console x 3.82.104.206:9200 x +
Not secure | 3.82.104.206:9200

{
  "status" : 200,
  "name" : "Uatu",
  "cluster_name" : "elasticsearch",
  "version" : {
    "number" : "1.7.2",
    "build_hash" : "e43676b1385b8125d647f593f7202acbd816e8ec",
    "build_timestamp" : "2015-09-14T09:49:53Z",
    "build_snapshot" : false,
    "lucene_version" : "4.10.4"
  },
  "tagline" : "You Know, for 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
amazon-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'

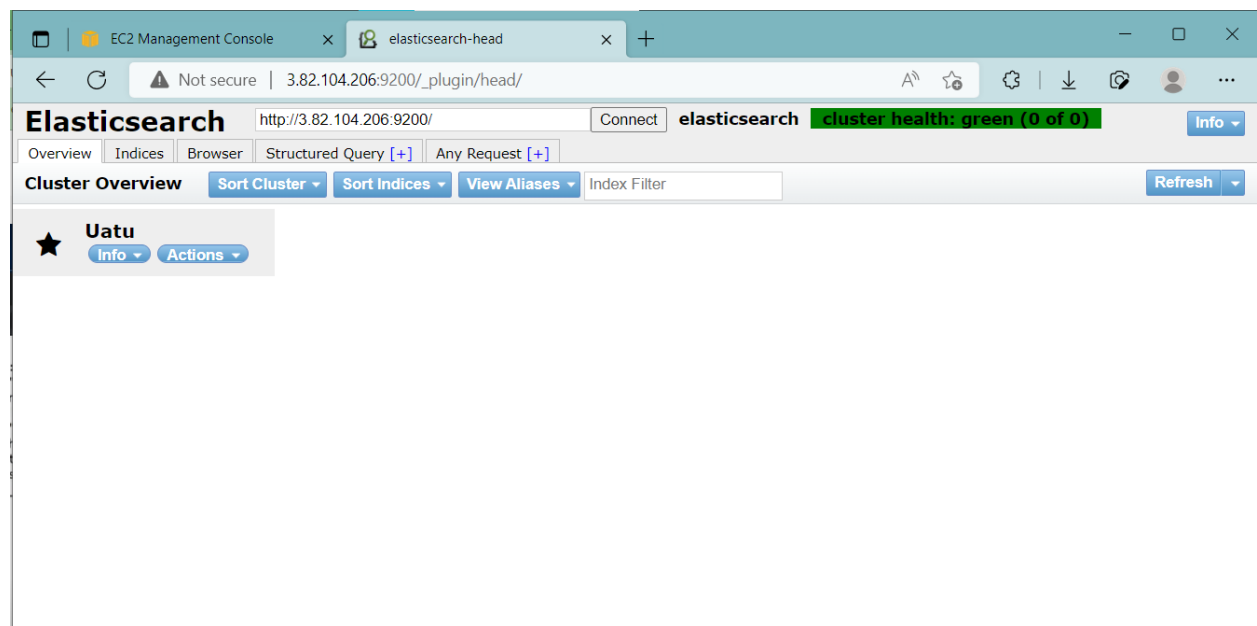
100%[=====] 11,787,239  9.50MB/s  in 1.2s

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 2 sec Keep 5 min history Disconnect

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

Cluster: elasticsearch  
Number of nodes: 1  
Status: green

Uatu

EC2 Management Console x Bigdesk x +

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

ES node REST endpoint  Refresh every 2 sec Keep 5 min history Disconnect

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

Cluster: elasticsearch  
Number of nodes: 1  
Status: green

Uatu

**Selected node:**

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

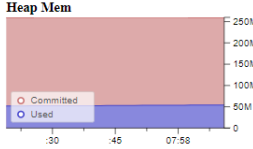
---

**JVM**

VM name: OpenJDK 64-Bit Server VM  
VM vendor: Red Hat, Inc.  
VM version: 25.342-b07

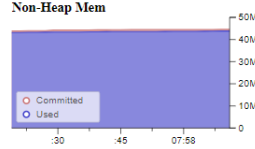
Uptime: 43m  
Java version: 1.8.0\_342  
PID: 13373

**Heap Mem**



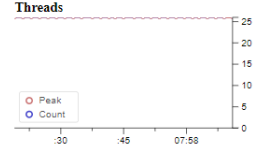
Committed: 247.6mb  
Used: 51.6mb

**Non-Heap Mem**



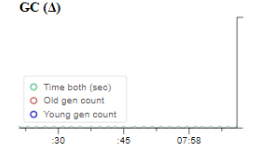
Committed: 42.5mb  
Used: 41.8mb

**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

