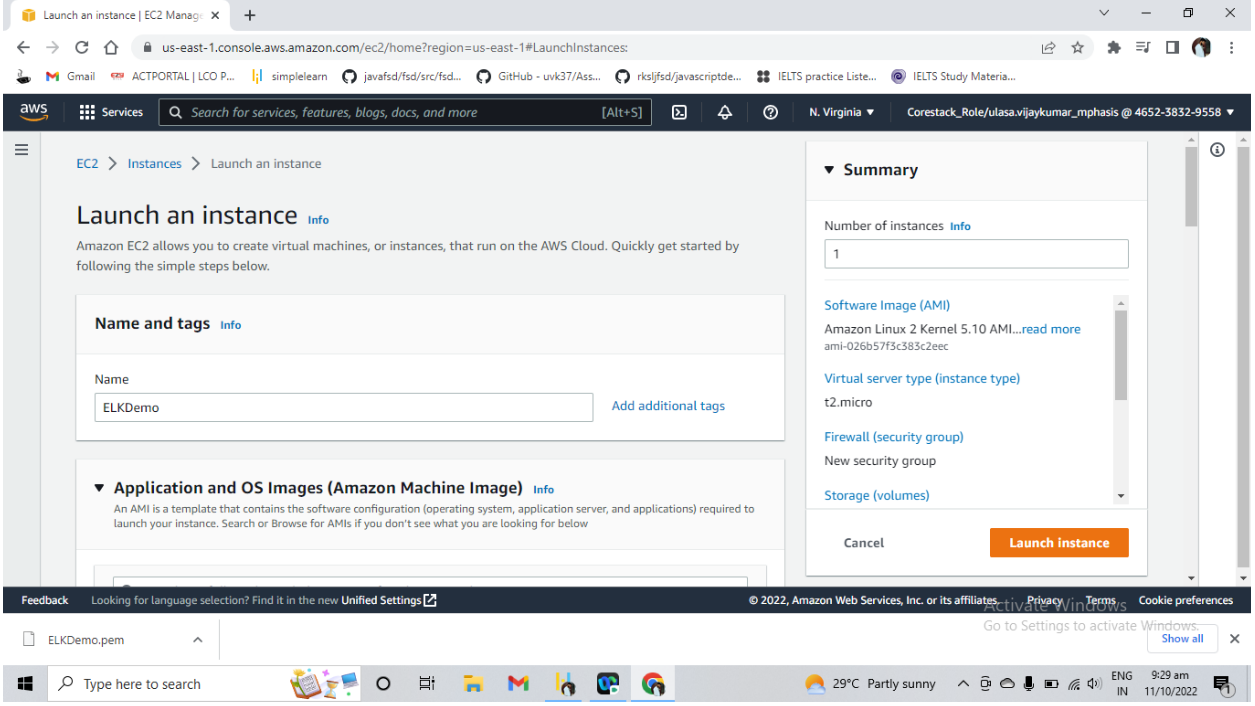
Deploying ELK Stack on Docker Container

Screen Shots



Launch an instance | EC2 Manag
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Gmail
ACTPORTAL | LCO P...
simplelearn
javafsd/fsd/src/fsd...
GitHub - uvk37/Ass...
rksljfsd/javascriptde...
IELTS practice Liste...
IELTS Study Materia...
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Services
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[Alt+S]
N. Virginia
Corestack_Role/ulasa.vijaykumar_mphasis @ 4652-3832-9558
EC2 > Instances > Launch an instance

Launch an instance Info

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 Info

Name: ELKDemo

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Summary

Number of instances Info: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI...read more
ami-026b57f3c383c2eec

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes)

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Launch instance
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ELKDemo.pem
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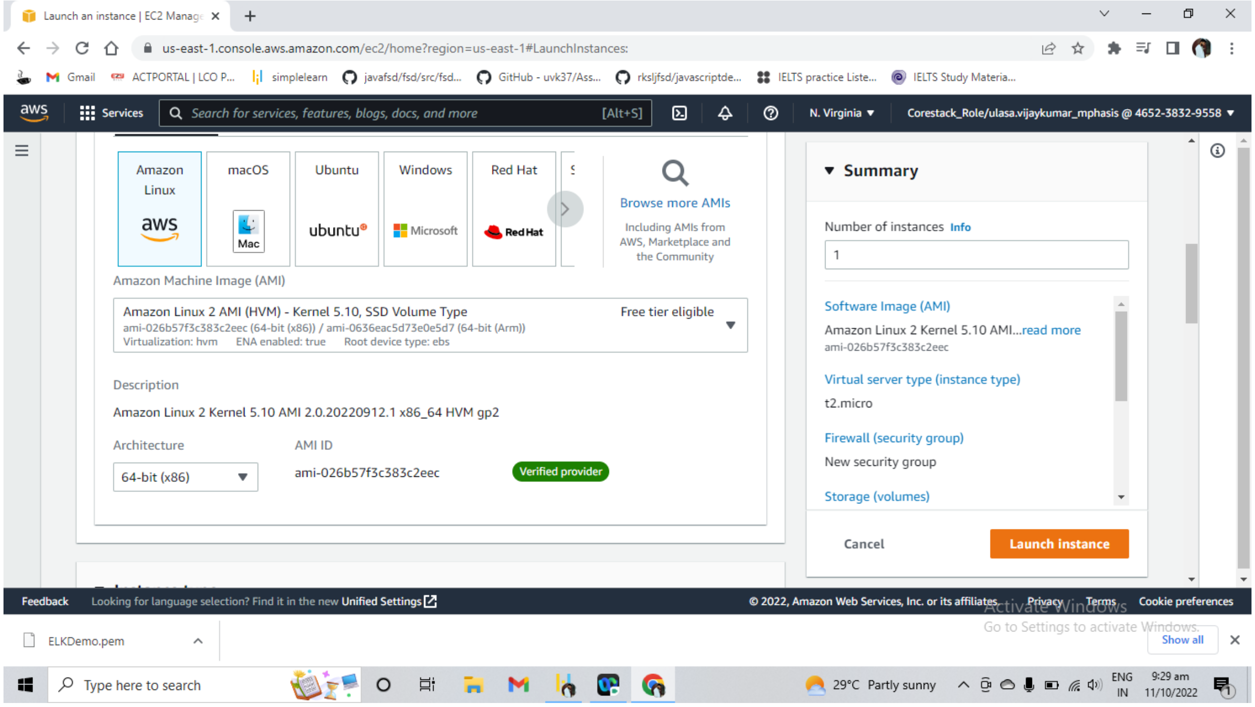
Type here to search
29°C Partly sunny
ENG IN
9:29 am
11/10/2022



Launch an instance | EC2 Manag
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
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Amazon Linux
aws
macOS
Mac
Ubuntu
ubuntu
Windows
Microsoft
Red Hat
Red Hat
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type — Free tier eligible
ami-026b57f3c383c2eec (64-bit (x86)) / ami-0636eac5d73e0e5d7 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description: Amazon Linux 2 Kernel 5.10 AMI 2.0.20220912.1 x86_64 HVM gp2

Architecture: 64-bit (x86)

AMI ID: ami-026b57f3c383c2eec — Verified provider

Summary

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ami-026b57f3c383c2eec

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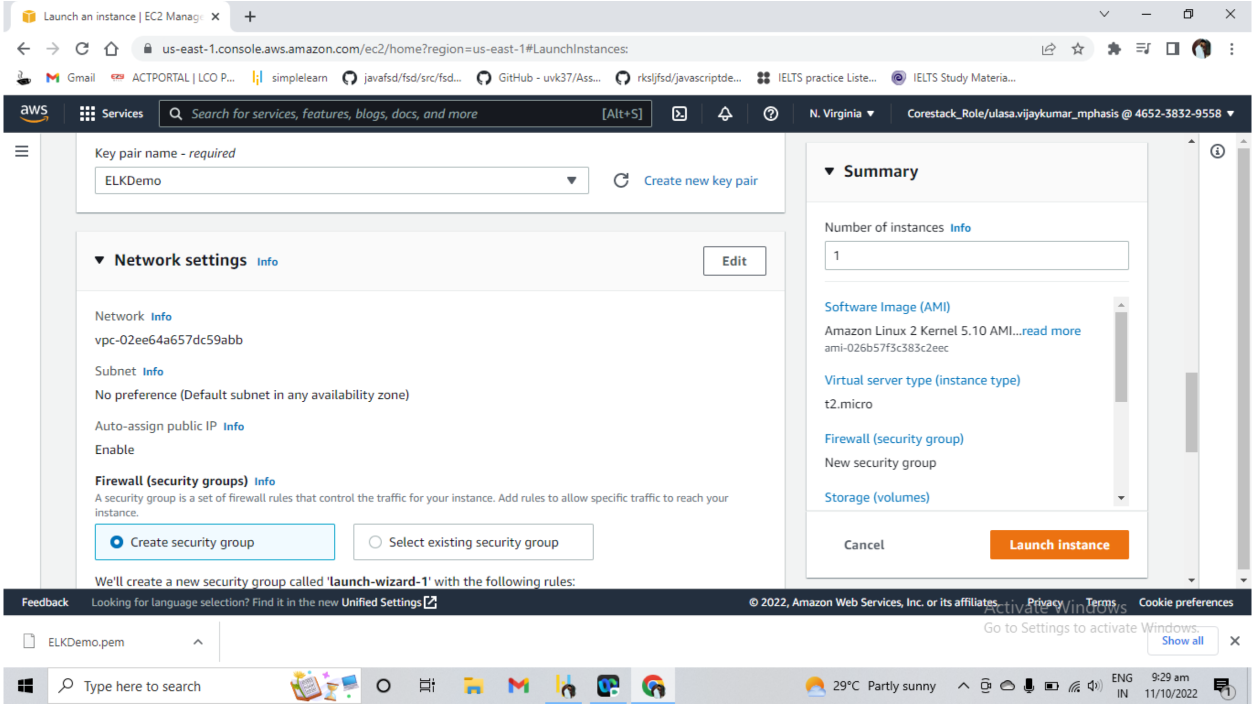
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ACTPORTAL | LCO P...
simplelearn
javafsd/fsd/src/fsd...
GitHub - uvk37/Ass...
rksljfsd/javascriptde...
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Key pair name - *required*

ELKDemo

Create new key pair

Network settings Info

Edit

Network Info

vpc-02ee64a657dc59abb

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

● Create security group ○ Select existing security group

We'll create a new security group called '**launch-wizard-1**' with the following rules:

Summary

Number of instances Info

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Amazon Linux 2 Kernel 5.10 AMI...read more

ami-026b57f3c383c2eec

Virtual server type (instance type)

t2.micro

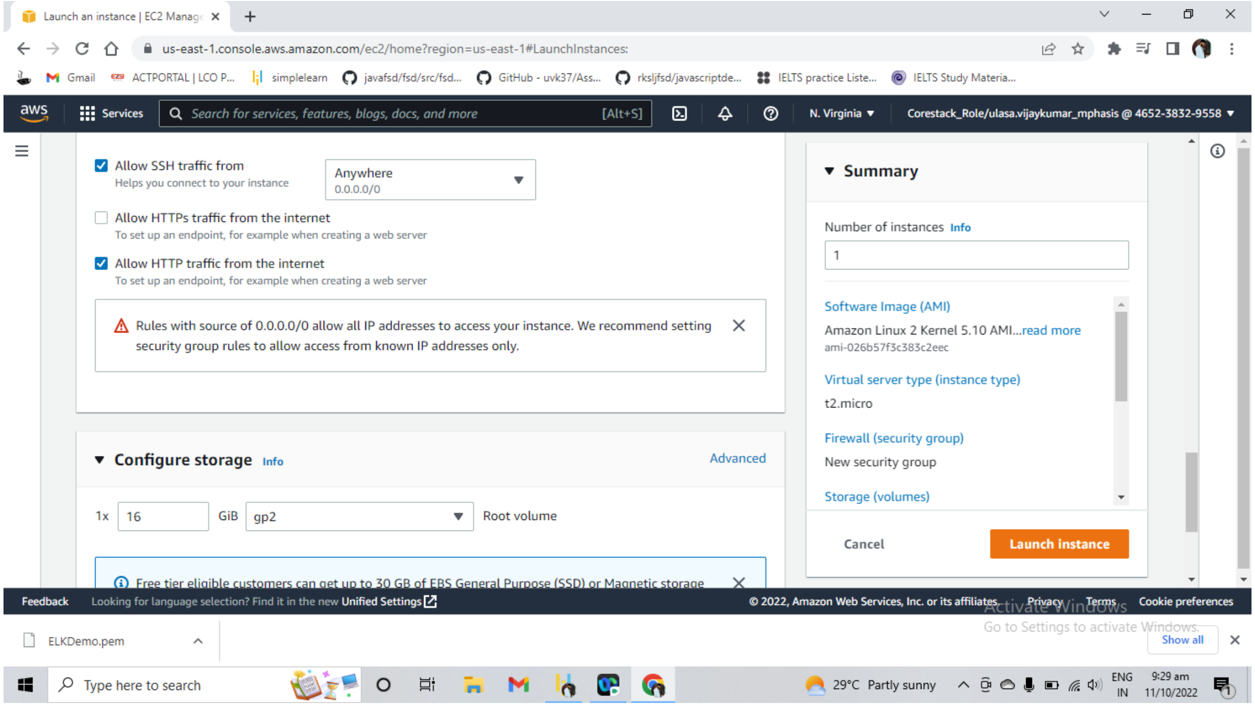
Firewall (security group)

New security group

Storage (volumes)

Cancel

Launch instance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simplelearn
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☑ Allow SSH traffic from
Helps you connect to your instance

Anywhere
0.0.0.0/0

☐ Allow HTTPs traffic from the internet
To set up an endpoint, for example when creating a web server

☑ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage Info

Advanced

1x 16 GiB gp2 Root volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Summary

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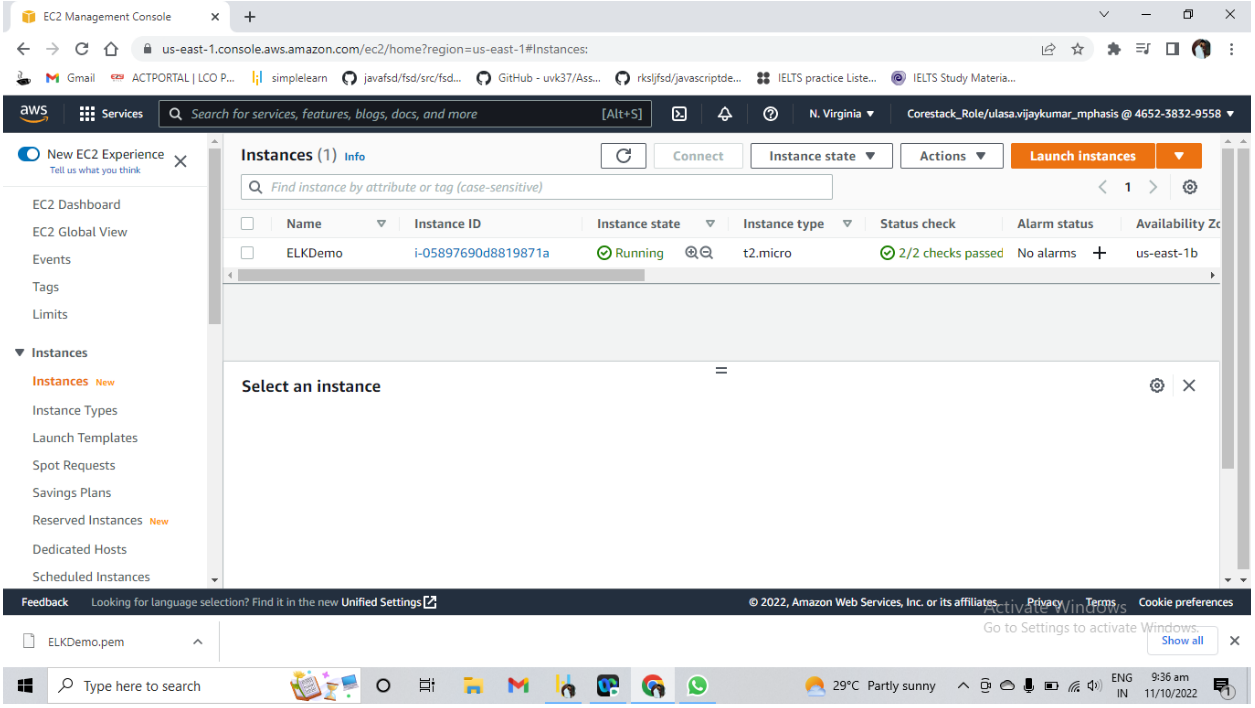
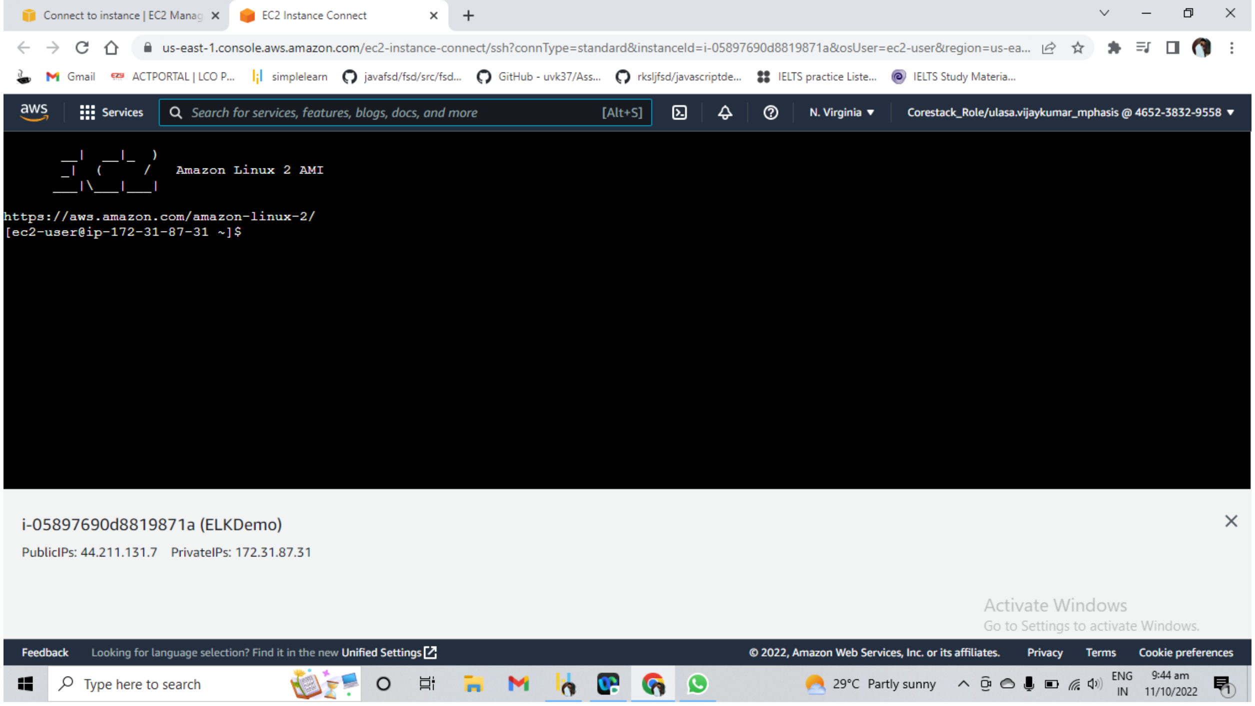
Launch instance



	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zc
□	ELKDemo	i-05897690d8819871a	✓ Running	t2.micro	✓ 2/2 checks passed	No alarms	us-east-1b


Connect to instance | EC2 Manag
EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05897690d8819871a&osUser=ec2-user&region=us-ea...
Gmail
ACTPORTAL | LCO P...
simplelearn
javafsd/fsd/src/fsd...
GitHub - uvk37/Ass...
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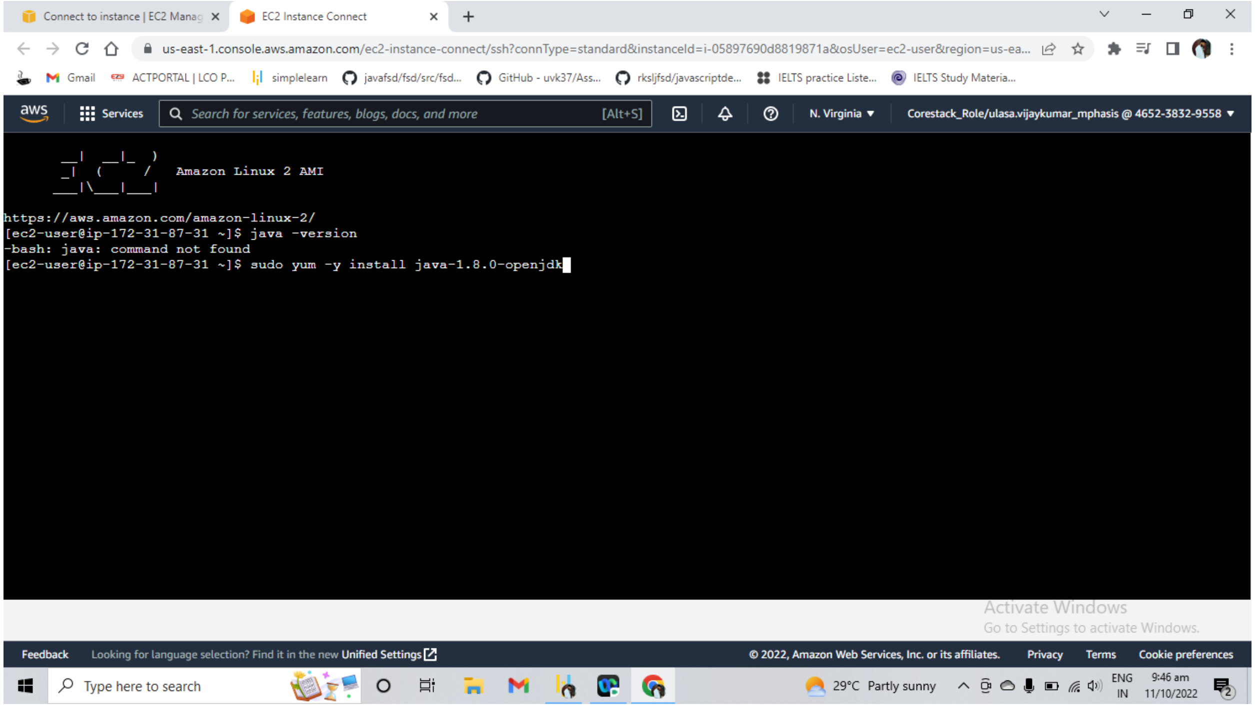
```
       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-87-31 ~]$
```

i-05897690d8819871a (ELKDemo)

PublicIPs: 44.211.131.7 PrivateIPs: 172.31.87.31



Connect to instance | EC2 Manag
EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05897690d8819871a&osUser=ec2-user&region=us-ea...
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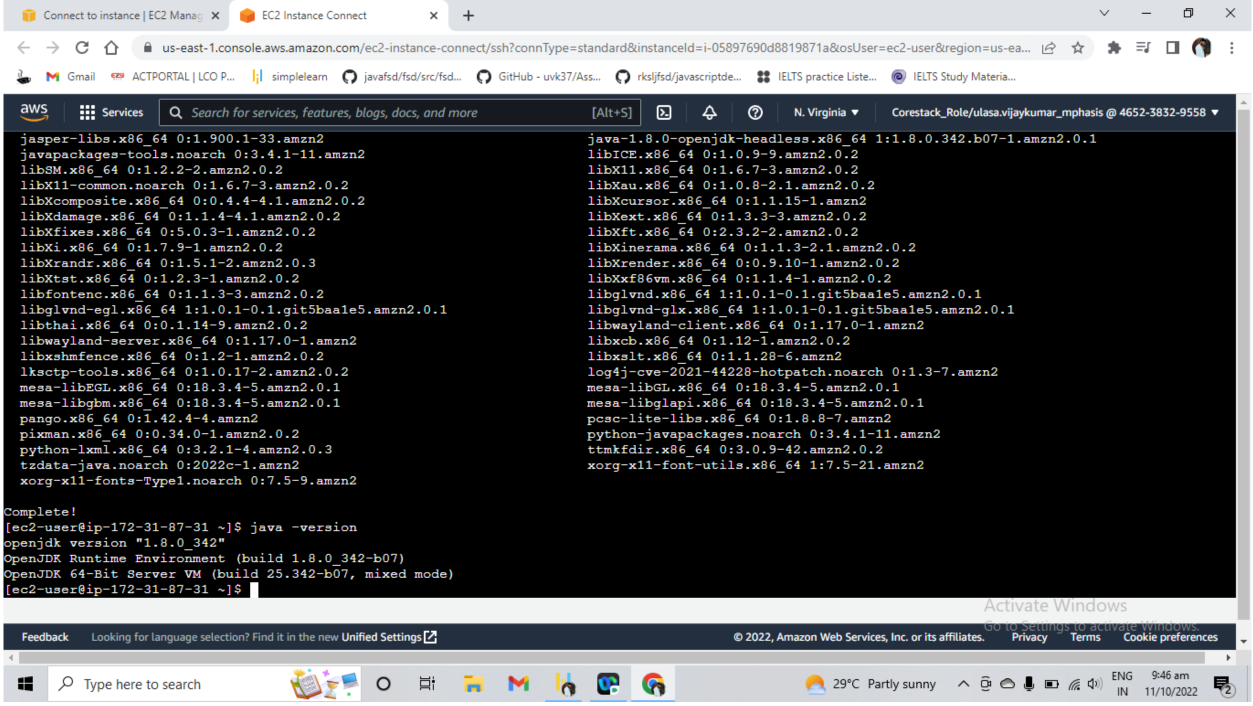
```
       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-87-31 ~]$ java -version
-bash: java: command not found
[ec2-user@ip-172-31-87-31 ~]$ sudo yum -y install java-1.8.0-openjdk
```



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EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05897690d8819871a&osUser=ec2-user&region=us-ea...
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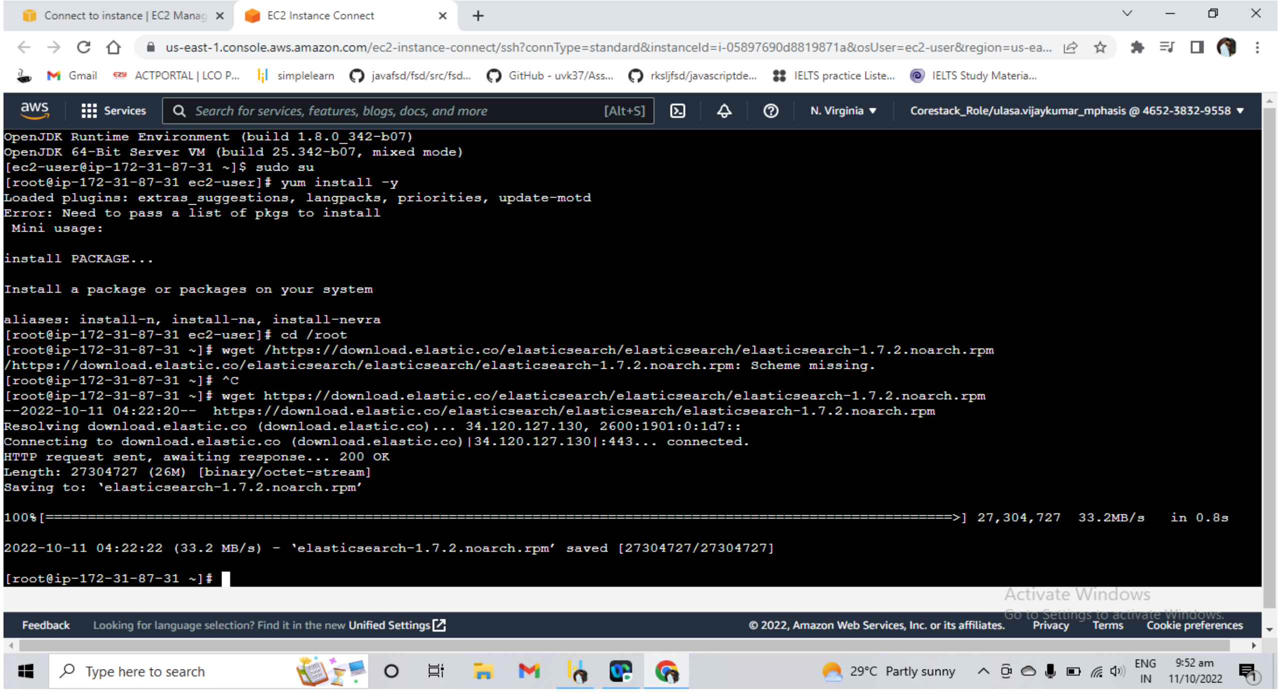
```
  jasper-libs.x86_64 0:1.900.1-33.amzn2                               java-1.8.0-openjdk-headless.x86_64 1:1.8.0.342.b07-1.amzn2.0.1
  javapackages-tools.noarch 0:3.4.1-11.amzn2                          libICE.x86_64 0:1.0.9-9.amzn2.0.2
  libSM.x86_64 0:1.2.2-2.amzn2.0.2                                    libX11.x86_64 0:1.6.7-3.amzn2.0.2
  libX11-common.noarch 0:1.6.7-3.amzn2.0.2                            libXau.x86_64 0:1.0.8-2.1.amzn2.0.2
  libXcomposite.x86_64 0:0.4.4-4.1.amzn2.0.2                          libXcursor.x86_64 0:1.1.15-1.amzn2
  libXdamage.x86_64 0:1.1.4-4.1.amzn2.0.2                             libXext.x86_64 0:1.3.3-3.amzn2.0.2
  libXfixes.x86_64 0:5.0.3-1.amzn2.0.2                                libXft.x86_64 0:2.3.2-2.amzn2.0.2
  libXi.x86_64 0:1.7.9-1.amzn2.0.2                                    libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2
  libXrandr.x86_64 0:1.5.1-2.amzn2.0.3                                libXrender.x86_64 0:0.9.10-1.amzn2.0.2
  libXtst.x86_64 0:1.2.3-1.amzn2.0.2                                  libXxf86vm.x86_64 0:1.1.4-1.amzn2.0.2
  libfontenc.x86_64 0:1.1.3-3.amzn2.0.2                               libglvnd.x86_64 1:1.0.1-0.1.git5baa1e5.amzn2.0.1
  libglvnd-egl.x86_64 1:1.0.1-0.1.git5baa1e5.amzn2.0.1                libglvnd-glx.x86_64 1:1.0.1-0.1.git5baa1e5.amzn2.0.1
  libthai.x86_64 0:0.1.14-9.amzn2.0.2                                 libwayland-client.x86_64 0:1.17.0-1.amzn2
  libwayland-server.x86_64 0:1.17.0-1.amzn2                           libxcb.x86_64 0:1.12-1.amzn2.0.2
  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-172-31-87-31 ~]$ 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-172-31-87-31 ~]$
```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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05897690d8819871a&osUser=ec2-user&region=us-ea...
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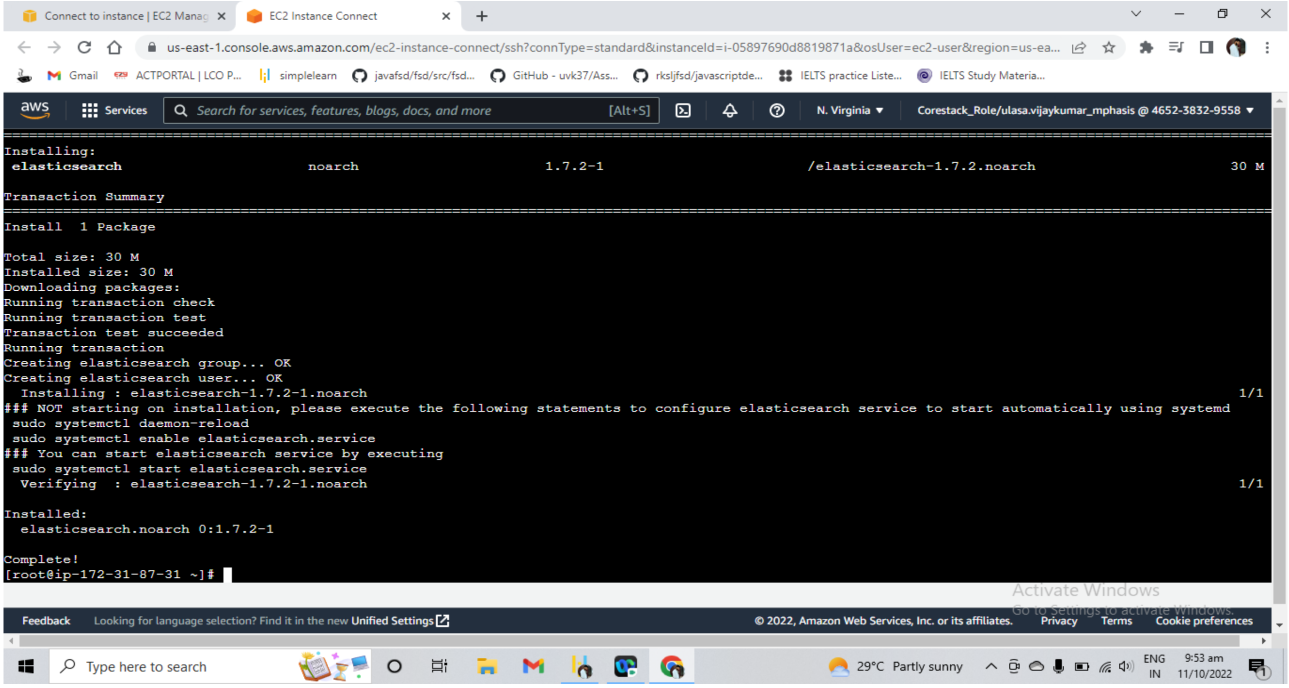
```
OpenJDK Runtime Environment (build 1.8.0_342-b07)
OpenJDK 64-Bit Server VM (build 25.342-b07, mixed mode)
[ec2-user@ip-172-31-87-31 ~]$ sudo su
[root@ip-172-31-87-31 ec2-user]# yum install -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Error: Need to pass a list of pkgs to install
 Mini usage:

install PACKAGE...

Install a package or packages on your system

aliases: install-n, install-na, install-nevra
[root@ip-172-31-87-31 ec2-user]# cd /root
[root@ip-172-31-87-31 ~]# wget /https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.2.noarch.rpm
/https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.2.noarch.rpm: Scheme missing.
[root@ip-172-31-87-31 ~]# ^C
[root@ip-172-31-87-31 ~]# wget https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.2.noarch.rpm
--2022-10-11 04:22:20--  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... 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  33.2MB/s   in 0.8s

2022-10-11 04:22:22 (33.2 MB/s) - ‘elasticsearch-1.7.2.noarch.rpm’ saved [27304727/27304727]

[root@ip-172-31-87-31 ~]#
```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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05897690d8819871a&osUser=ec2-user&region=us-ea...
Gmail
ACTPORTAL | LCO P...
simplelearn
javafsd/fsd/src/fsd...
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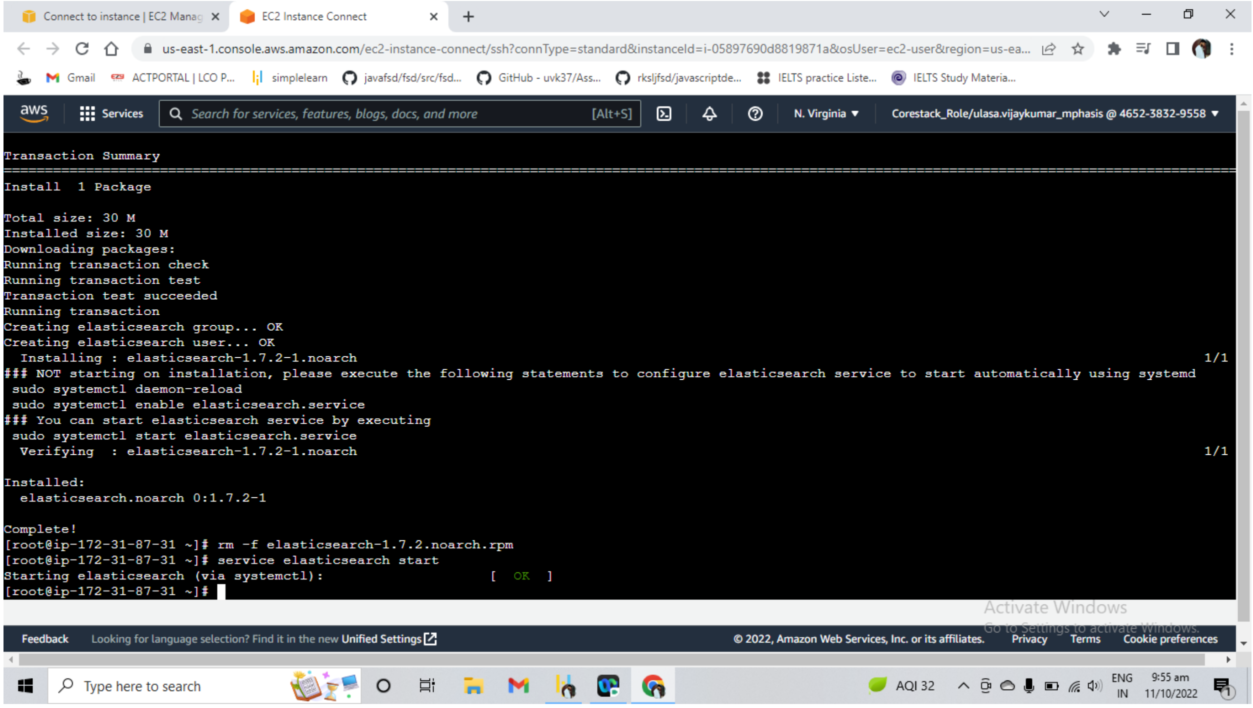
```
==========================================================================================================================================
Installing:
 elasticsearch                    noarch                    1.7.2-1                         /elasticsearch-1.7.2.noarch                  30 M

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-172-31-87-31 ~]#
```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EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05897690d8819871a&osUser=ec2-user&region=us-ea...
Gmail
ACTPORTAL | LCO P...
simplelearn
javafsd/fsd/src/fsd...
GitHub - uvk37/Ass...
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AQI 32
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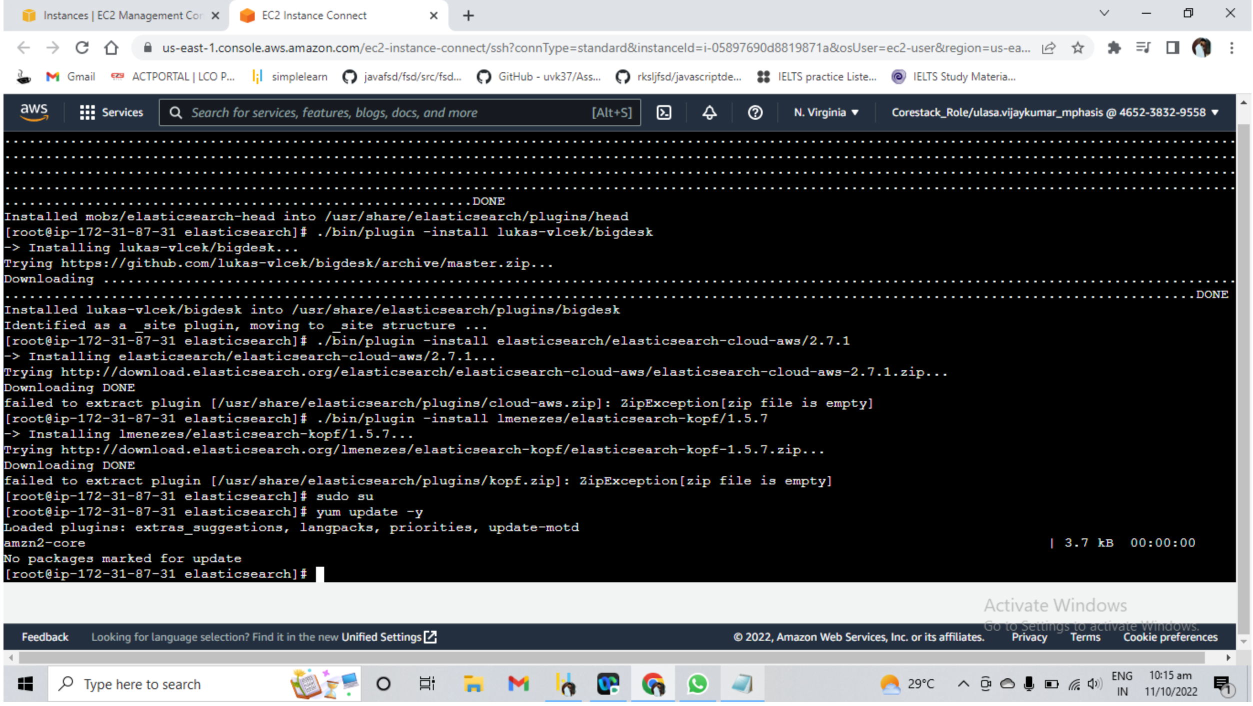
```
Transaction Summary
================================================================================================================================================================
Install  1 Package

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-172-31-87-31 ~]# rm -f elasticsearch-1.7.2.noarch.rpm
[root@ip-172-31-87-31 ~]# service elasticsearch start
Starting elasticsearch (via systemctl):                    [  OK  ]
[root@ip-172-31-87-31 ~]#
```


Instances | EC2 Management Con
EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05897690d8819871a&osUser=ec2-user&region=us-ea...
Gmail
ACTPORTAL | LCO P...
simplelearn
javafsd/fsd/src/fsd...
GitHub - uvk37/Ass...
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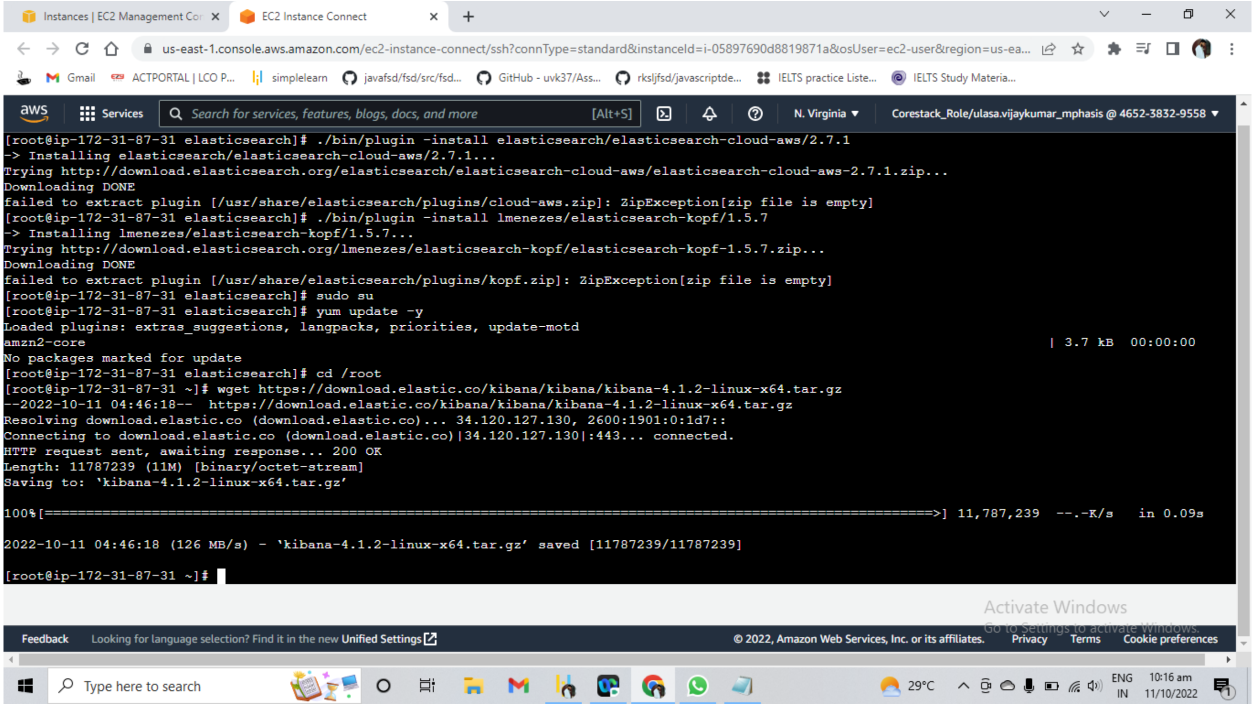
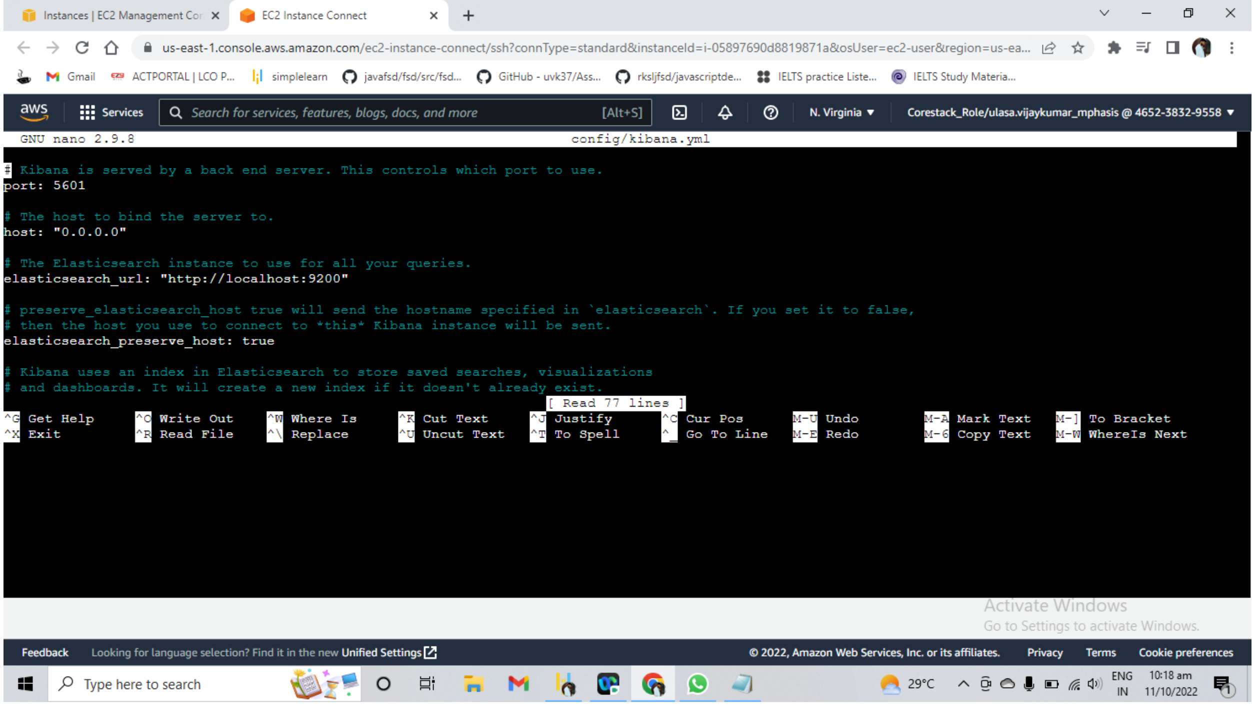
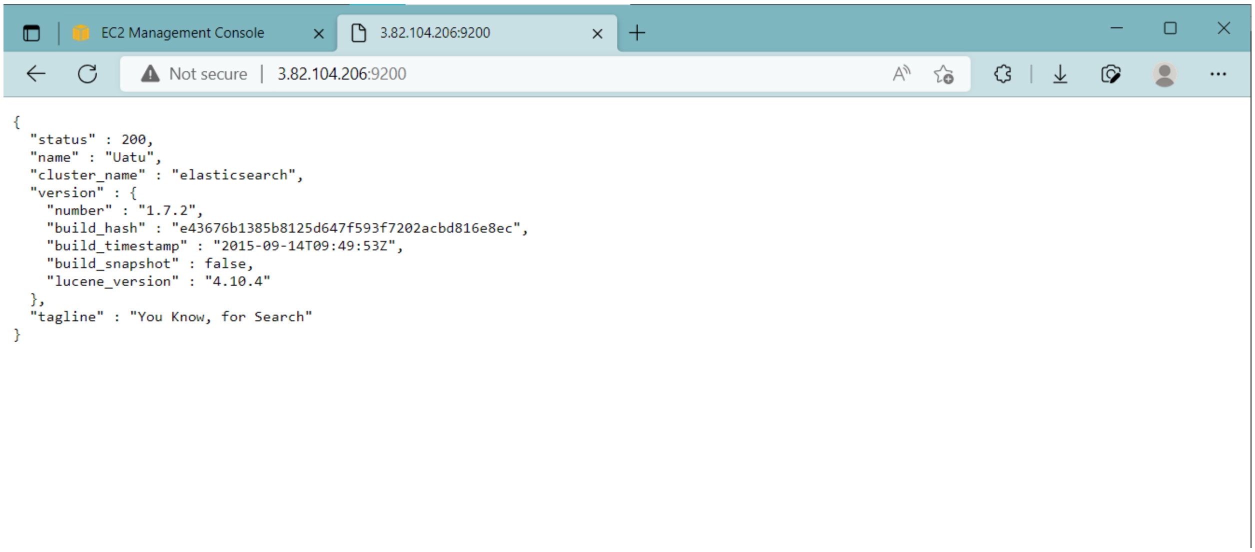
```
................................................................................................................................................................
................................................................................................................................................................
................................................................................................................................................................
................................................................................................................................................................
...........................................................DONE
Installed mobz/elasticsearch-head into /usr/share/elasticsearch/plugins/head
[root@ip-172-31-87-31 elasticsearch]# ./bin/plugin -install lukas-vlcek/bigdesk
-> Installing lukas-vlcek/bigdesk...
Trying https://github.com/lukas-vlcek/bigdesk/archive/master.zip...
Downloading ....................................................................................................................................................
.........................................................................................................................................................DONE
Installed lukas-vlcek/bigdesk into /usr/share/elasticsearch/plugins/bigdesk
Identified as a _site plugin, moving to _site structure ...
[root@ip-172-31-87-31 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-172-31-87-31 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-172-31-87-31 elasticsearch]# sudo su
[root@ip-172-31-87-31 elasticsearch]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                                                                                           | 3.7 kB  00:00:00
No packages marked for update
[root@ip-172-31-87-31 elasticsearch]#
```



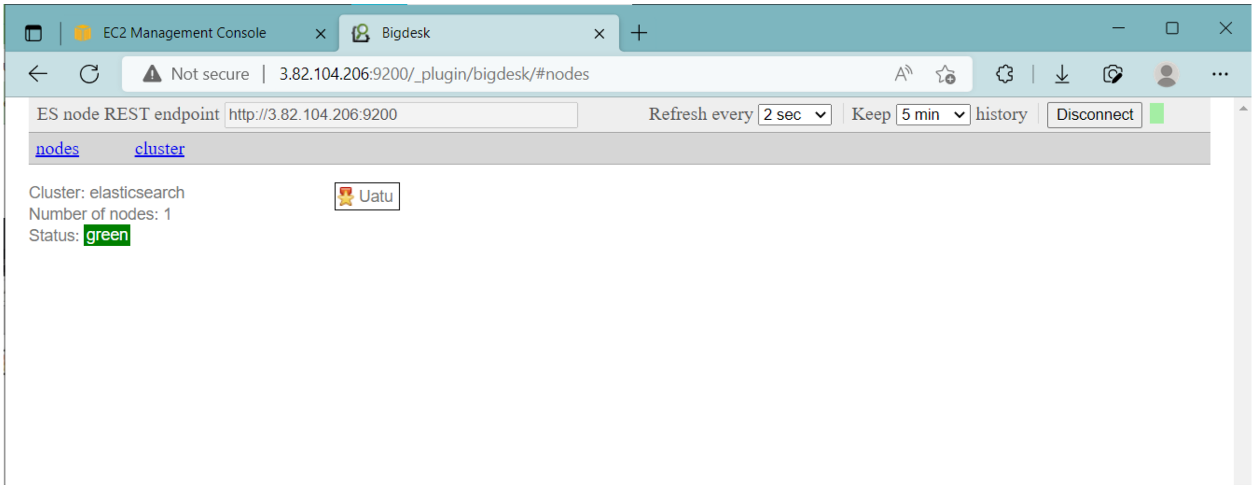
```
[root@ip-172-31-87-31 elasticsearch]# ./bin/plugin -install elasticsearch/elasticsearch-cloud-aws/2.7.1
-> Installing elasticsearch/elasticsearch-cloud-aws/2.7.1...
Trying http://download.elasticsearch.org/elasticsearch/elasticsearch-cloud-aws/elasticsearch-cloud-aws-2.7.1.zip...
Downloading DONE
failed to extract plugin [/usr/share/elasticsearch/plugins/cloud-aws.zip]: ZipException[zip file is empty]
[root@ip-172-31-87-31 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-172-31-87-31 elasticsearch]# sudo su
[root@ip-172-31-87-31 elasticsearch]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                                                          | 3.7 kB  00:00:00
No packages marked for update
[root@ip-172-31-87-31 elasticsearch]# cd /root
[root@ip-172-31-87-31 ~]# wget https://download.elastic.co/kibana/kibana/kibana-4.1.2-linux-x64.tar.gz
--2022-10-11 04:46:18--  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  --.-K/s   in 0.09s

2022-10-11 04:46:18 (126 MB/s) - 'kibana-4.1.2-linux-x64.tar.gz' saved [11787239/11787239]

[root@ip-172-31-87-31 ~]#
```



```
  GNU nano 2.9.8                                        config/kibana.yml

# Kibana is served by a back end server. This controls which port to use.
port: 5601

# The host to bind the server to.
host: "0.0.0.0"

# The Elasticsearch instance to use for all your queries.
elasticsearch_url: "http://localhost:9200"

# preserve_elasticsearch_host true will send the hostname specified in `elasticsearch`. If you set it to false,
# then the host you use to connect to *this* Kibana instance will be sent.
elasticsearch_preserve_host: true

# Kibana uses an index in Elasticsearch to store saved searches, visualizations
# and dashboards. It will create a new index if it doesn't already exist.
                                  [ Read 77 lines ]
^G Get Help     ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify      ^C Cur Pos      M-U Undo        M-A Mark Text   M-] To Bracket
^X Exit         ^R Read File    ^\ Replace      ^U Uncut Text   ^T To Spell     ^_ Go To Line   M-E Redo        M-6 Copy Text   M-W WhereIs Next
```

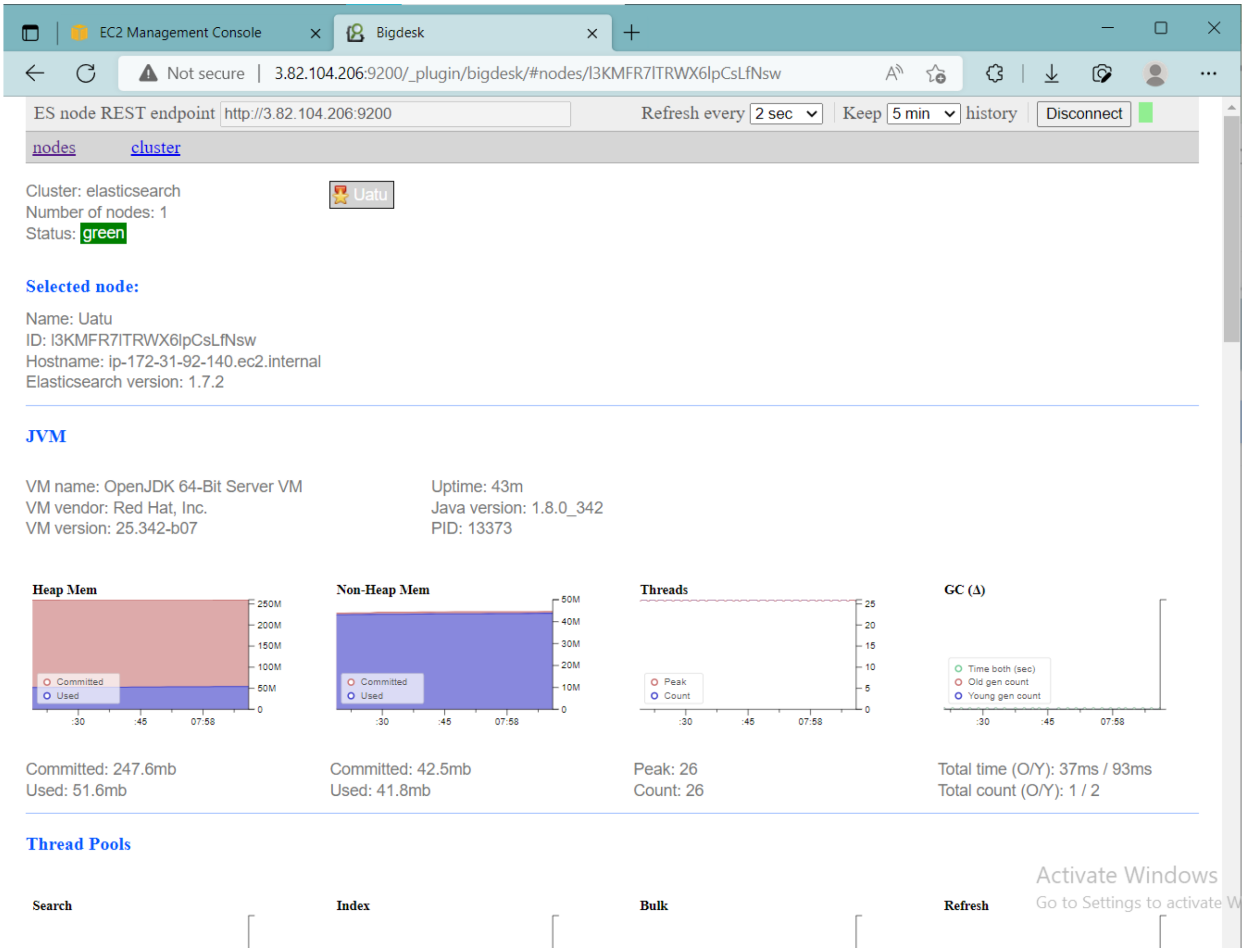


```
{
  "status" : 200,
  "name" : "Uatu",
  "cluster_name" : "elasticsearch",
  "version" : {
    "number" : "1.7.2",
    "build_hash" : "e43676b1385b8125d647f593f7202acbd816e8ec",
    "build_timestamp" : "2015-09-14T09:49:53Z",
    "build_snapshot" : false,
    "lucene_version" : "4.10.4"
  },
  "tagline"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



ES node REST endpoint http://3.82.104.206:9200 Refresh every 2 sec Keep 5 min history

Cluster: elasticsearch
Number of nodes: 1
Status: green



ES node REST endpoint http://3.82.104.206:9200 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

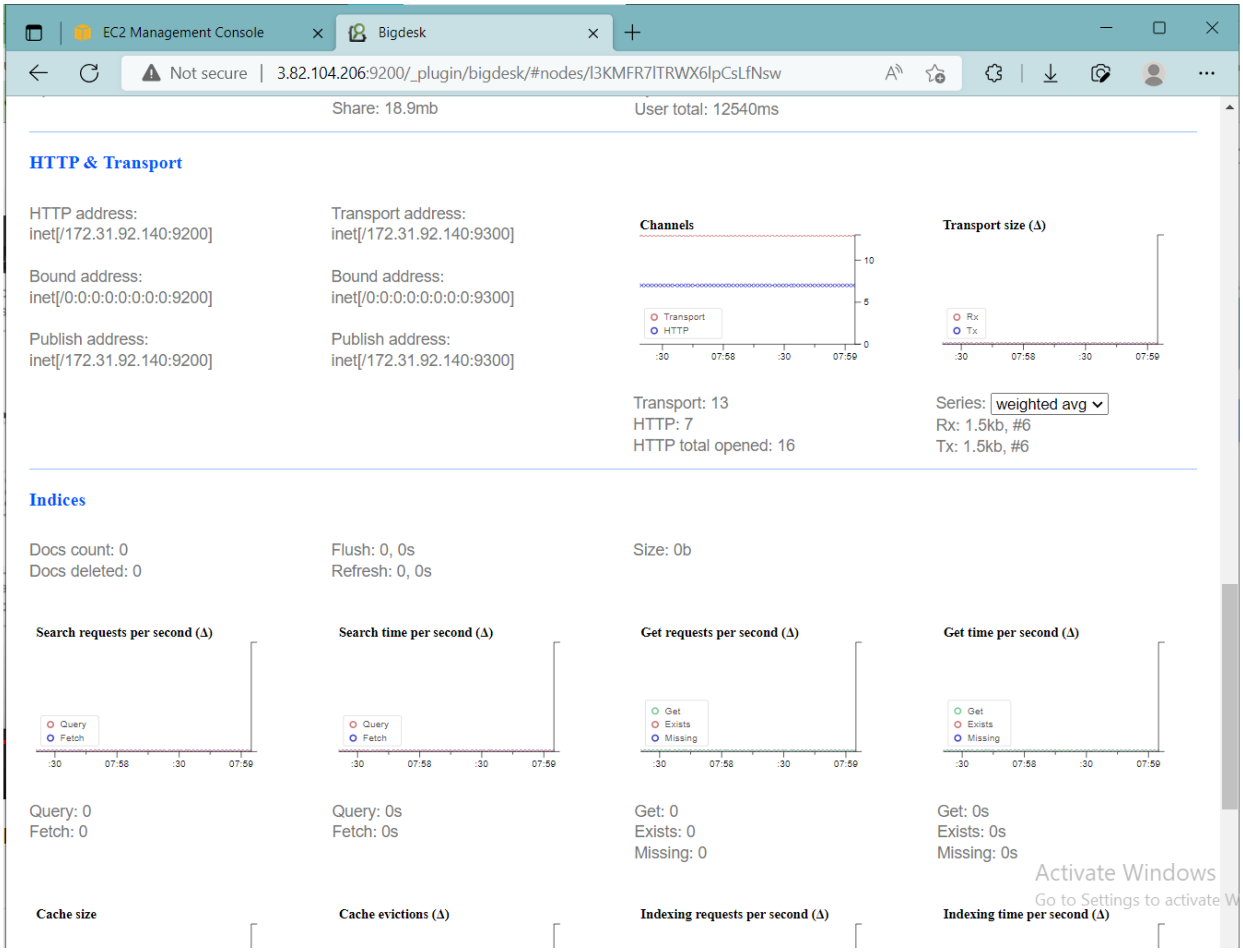
Thread Pools

Search

Index

Bulk

Refresh


EC2 Management Console
Bigdesk
Not secure
3.82.104.206:9200/_plugin/bigdesk/#nodes/l3KMFR7lTRWX6lpCsLfNsw
Channels
Transport
HTTP
10
5
0
:30
07:58
:30
07:59
Transport size (Δ)
Rx
Tx
Search requests per second (Δ)
Query
Fetch
Search time per second (Δ)
Get requests per second (Δ)
Get
Exists
Missing
Get time per second (Δ)
Cache size
Cache evictions (Δ)
Indexing requests per second (Δ)
Indexing time per second (Δ)
Activate Windows
Go to Settings to activate W

Share: 18.9mb

User total: 12540ms

HTTP & Transport

HTTP address:
inet[/172.31.92.140:9200]

Bound address:
inet[/0:0:0:0:0:0:0:0:9200]

Publish address:
inet[/172.31.92.140:9200]

Transport address:
inet[/172.31.92.140:9300]

Bound address:
inet[/0:0:0:0:0:0:0:0:9300]

Publish address:
inet[/172.31.92.140:9300]

Transport: 13
HTTP: 7
HTTP total opened: 16

Series: weighted avg
Rx: 1.5kb, #6
Tx: 1.5kb, #6

Indices

Docs count: 0
Docs deleted: 0

Flush: 0, 0s
Refresh: 0, 0s

Size: 0b

Query: 0
Fetch: 0

Query: 0s
Fetch: 0s

Get: 0
Exists: 0
Missing: 0

Get: 0s
Exists: 0s
Missing: 0s