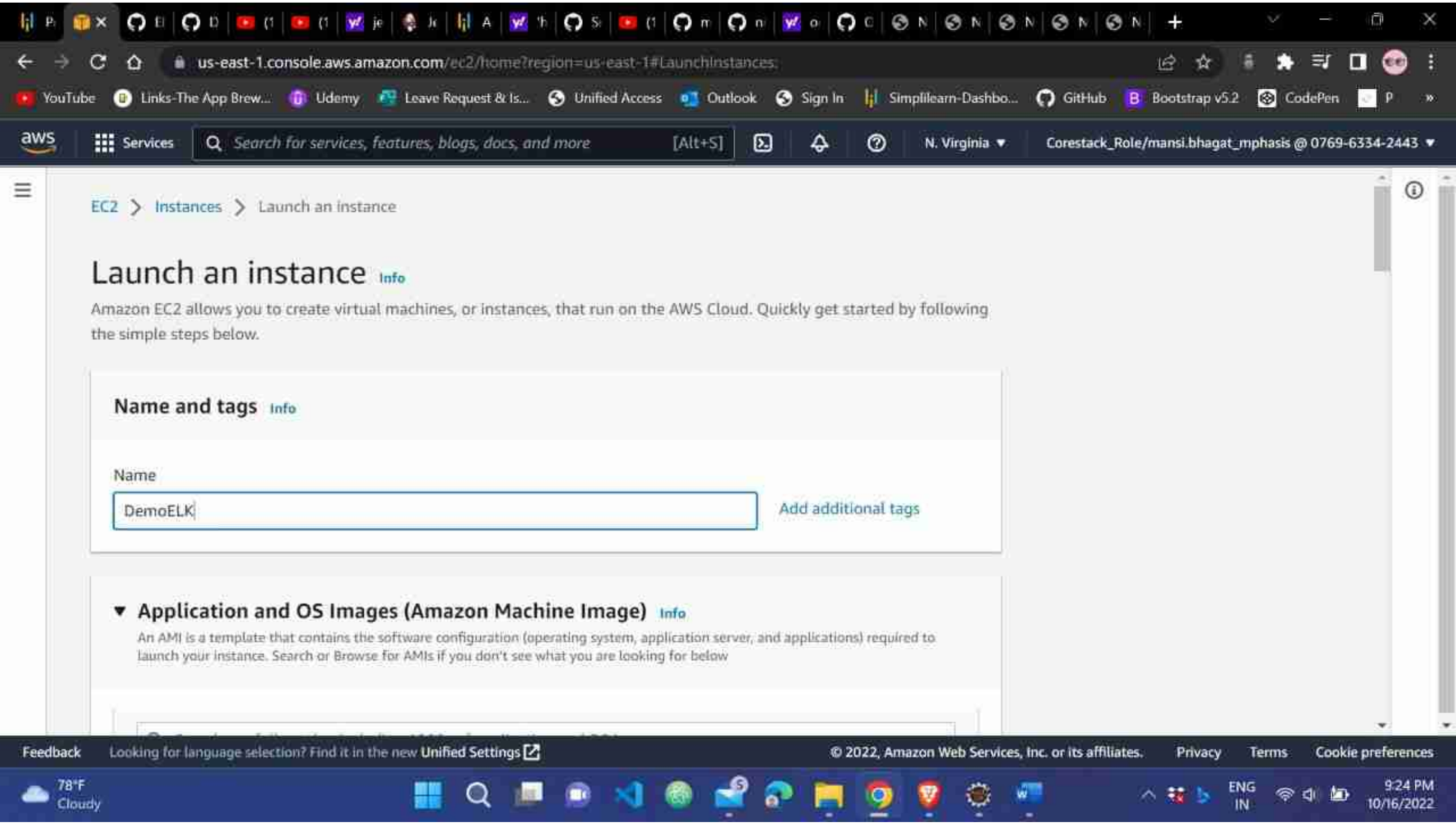
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
YouTube
Links-The App Brew...
Udemy
Leave Request & Is...
Unified Access
Outlook
Sign In
Simplilearn-Dashbo...
GitHub
Bootstrap v5.2
CodePen
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/mansi.bhagat_mphasis @ 0769-6334-2443
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
DemoELK
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
Feedback
Looking for language selection? Find it in the new Unified Settings
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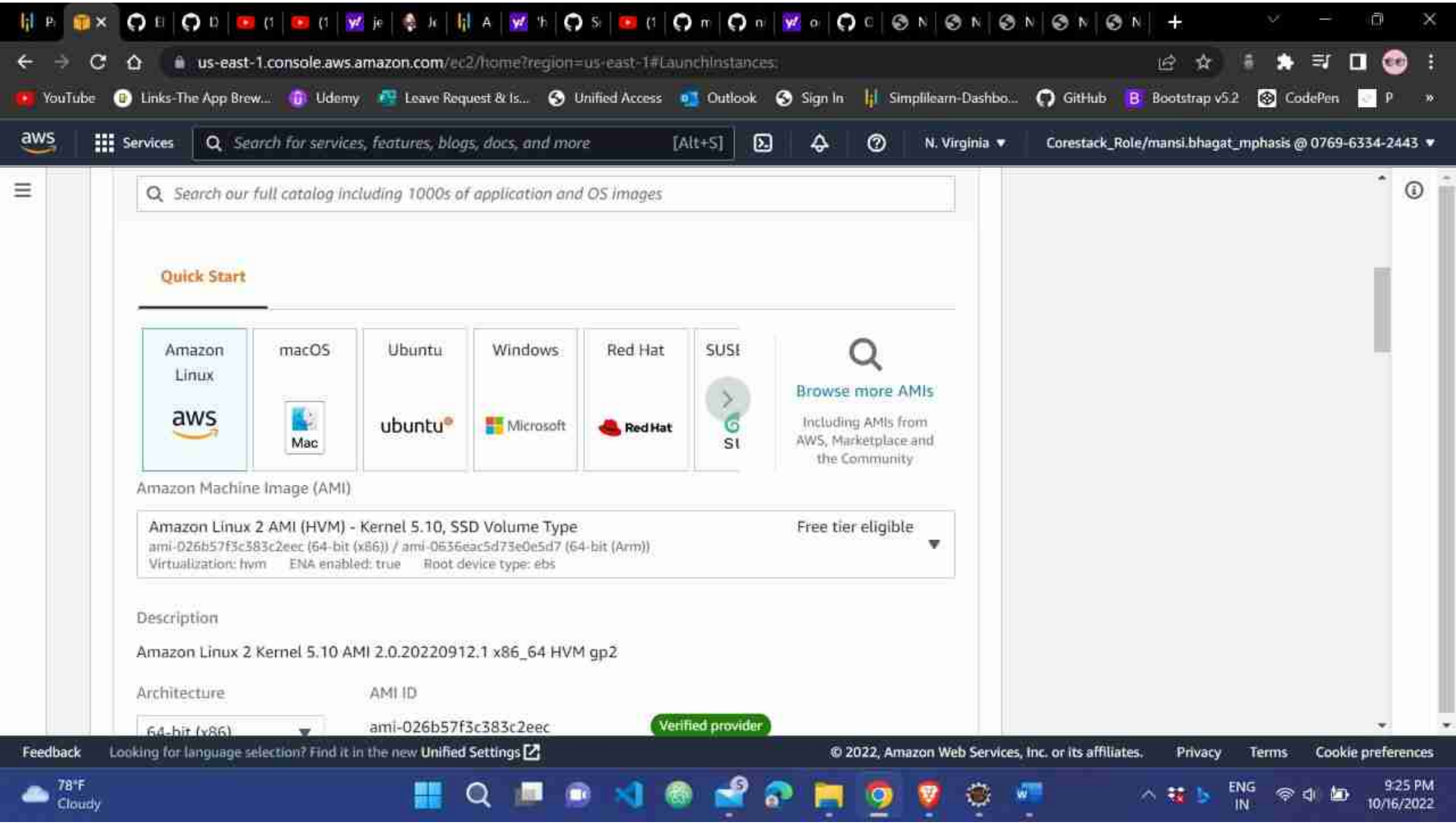
Cloudy
ENG
IN
9:24 PM
10/16/2022


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
YouTube
Links-The App Brew...
Udemy
Leave Request & Is...
Unified Access
Outlook
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Search our full catalog including 1000s of application and OS images
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE
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
ami-026b57f3c383c2eec (64-bit (x86)) / ami-0636eac5d73e0e5d7 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Free tier eligible
Description
Amazon Linux 2 Kernel 5.10 AMI 2.0.20220912.1 x86_64 HVM gp2
Architecture
AMI ID
64-bit (x86)
ami-026b57f3c383c2eec
Verified provider
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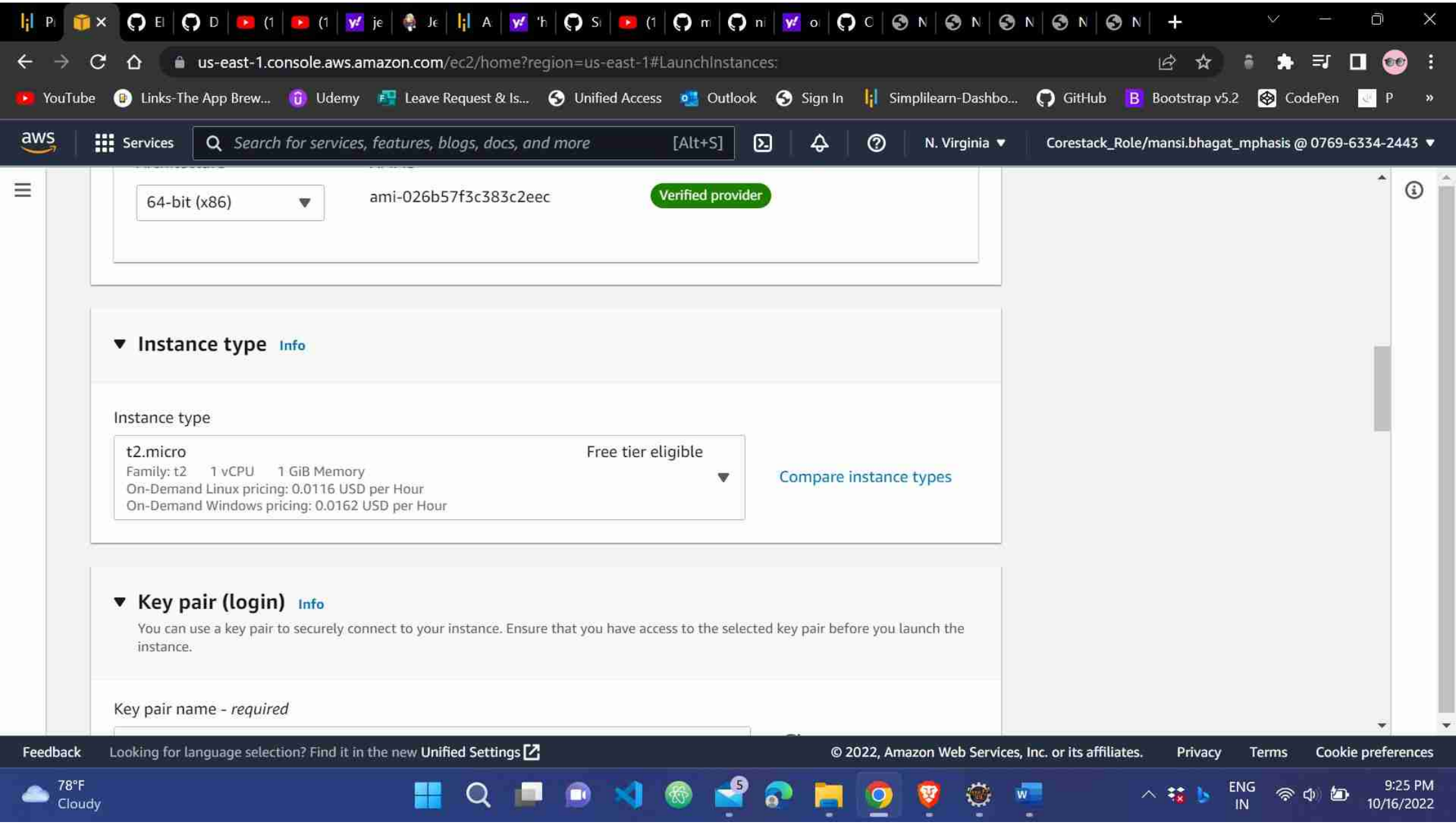
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
YouTube
Links-The App Brew...
Udemy
Leave Request & Is...
Unified Access
Outlook
Sign In
Simplilearn-Dashbo...
GitHub
Bootstrap v5.2
CodePen
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/mansi.bhagat_mphasis @ 0769-6334-2443
64-bit (x86)
ami-026b57f3c383c2eec
Verified provider
Instance type Info
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour
Compare instance types
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
Feedback
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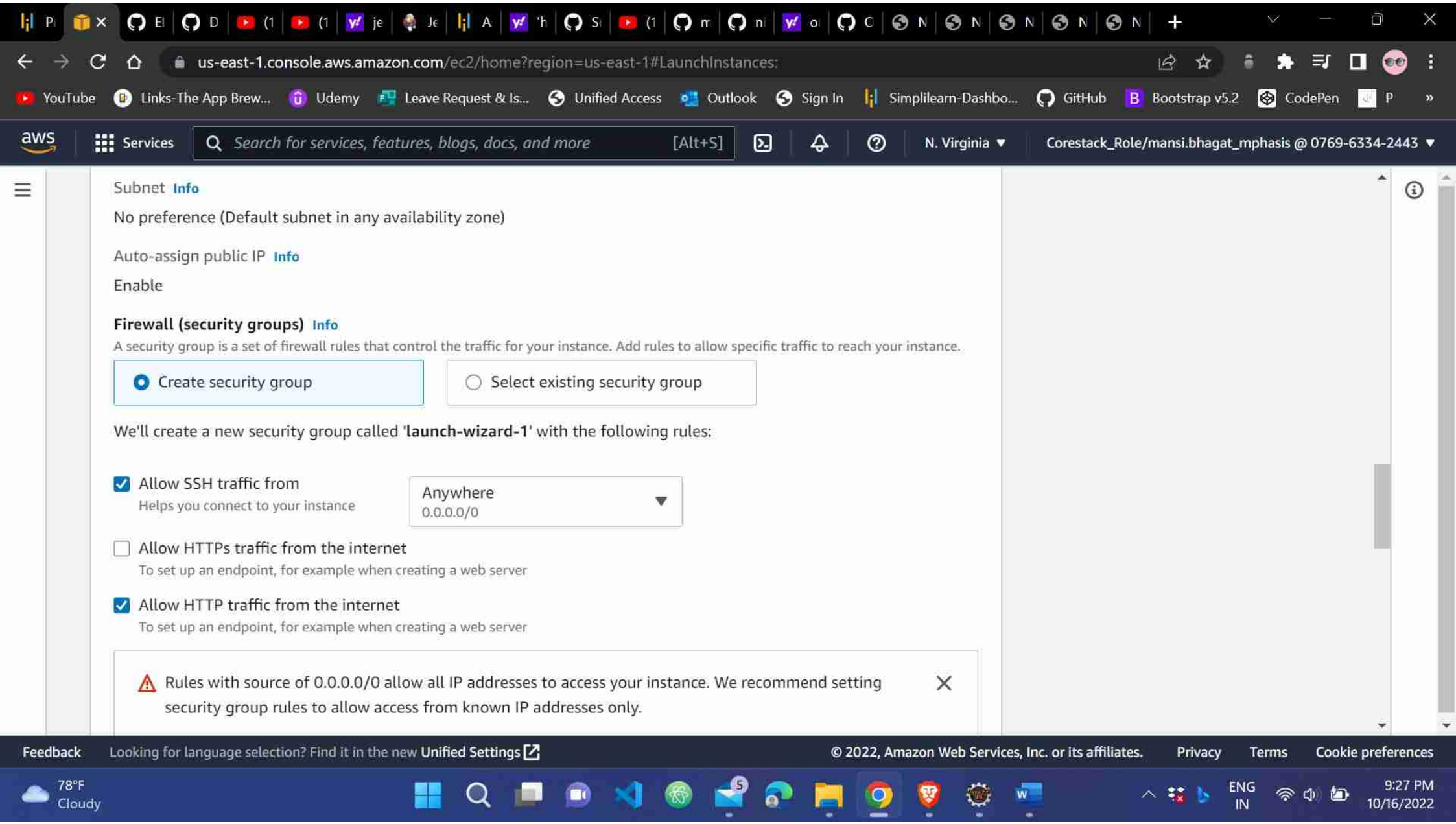
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
YouTube
Links-The App Brew...
Udemy
Leave Request & Is...
Unified Access
Outlook
Sign In
Simplilearn-Dashbo...
GitHub
Bootstrap v5.2
CodePen
aws
Services
Search for services, features, blogs, docs, and more [Alt+S]
N. Virginia
Corestack_Role/mansi.bhagat_mphasis @ 0769-6334-2443
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:
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.
Feedback
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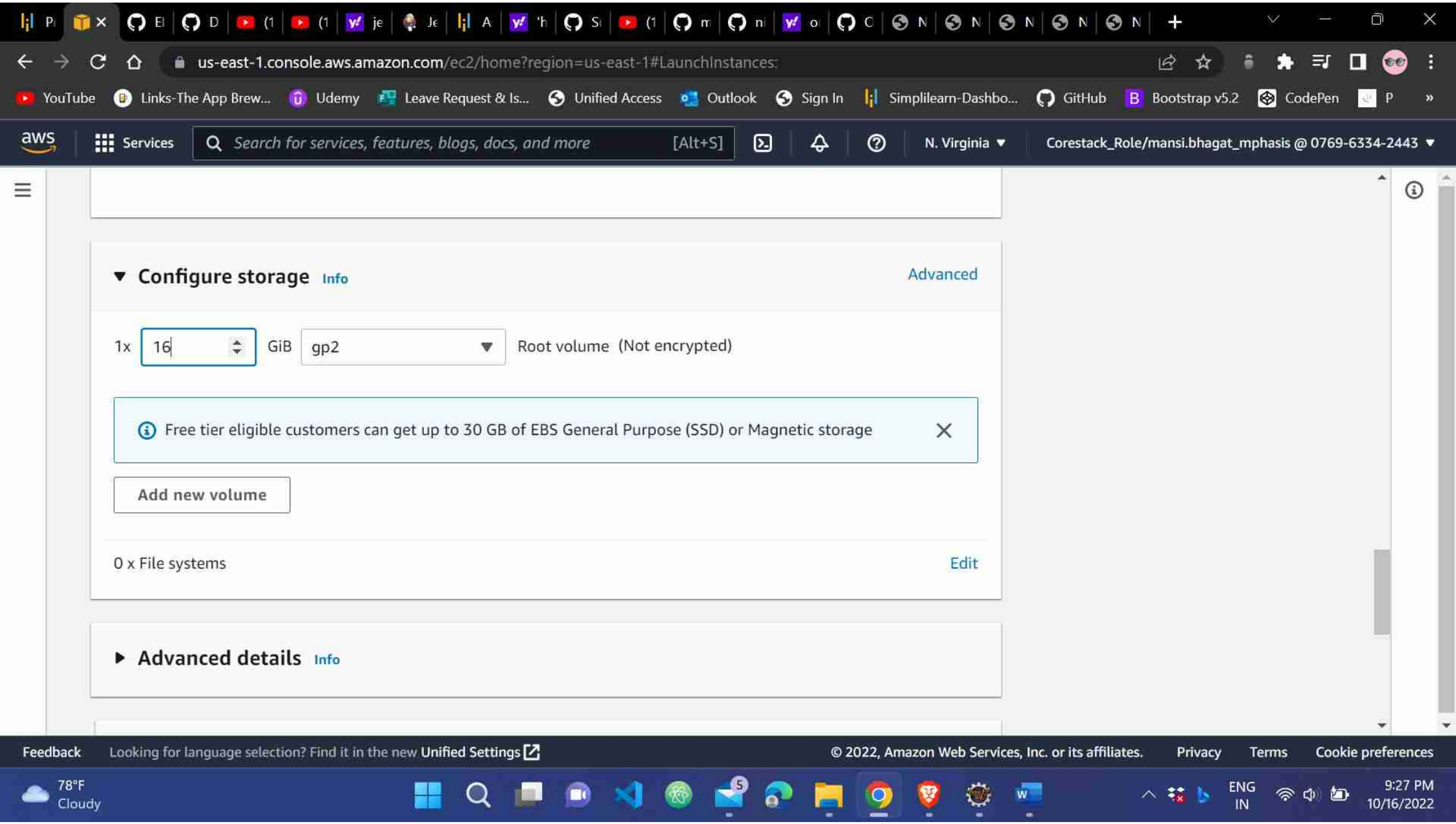
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
YouTube
Links-The App Brew...
Udemy
Leave Request & Is...
Unified Access
Outlook
Sign In
Simplilearn-Dashbo...
GitHub
Bootstrap v5.2
CodePen
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
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Corestack_Role/mansi.bhagat_mphasis @ 0769-6334-2443
Configure storage Info
Advanced
1x
16
GiB
gp2
Root volume (Not encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
0 x File systems
Edit
Advanced details Info
Feedback
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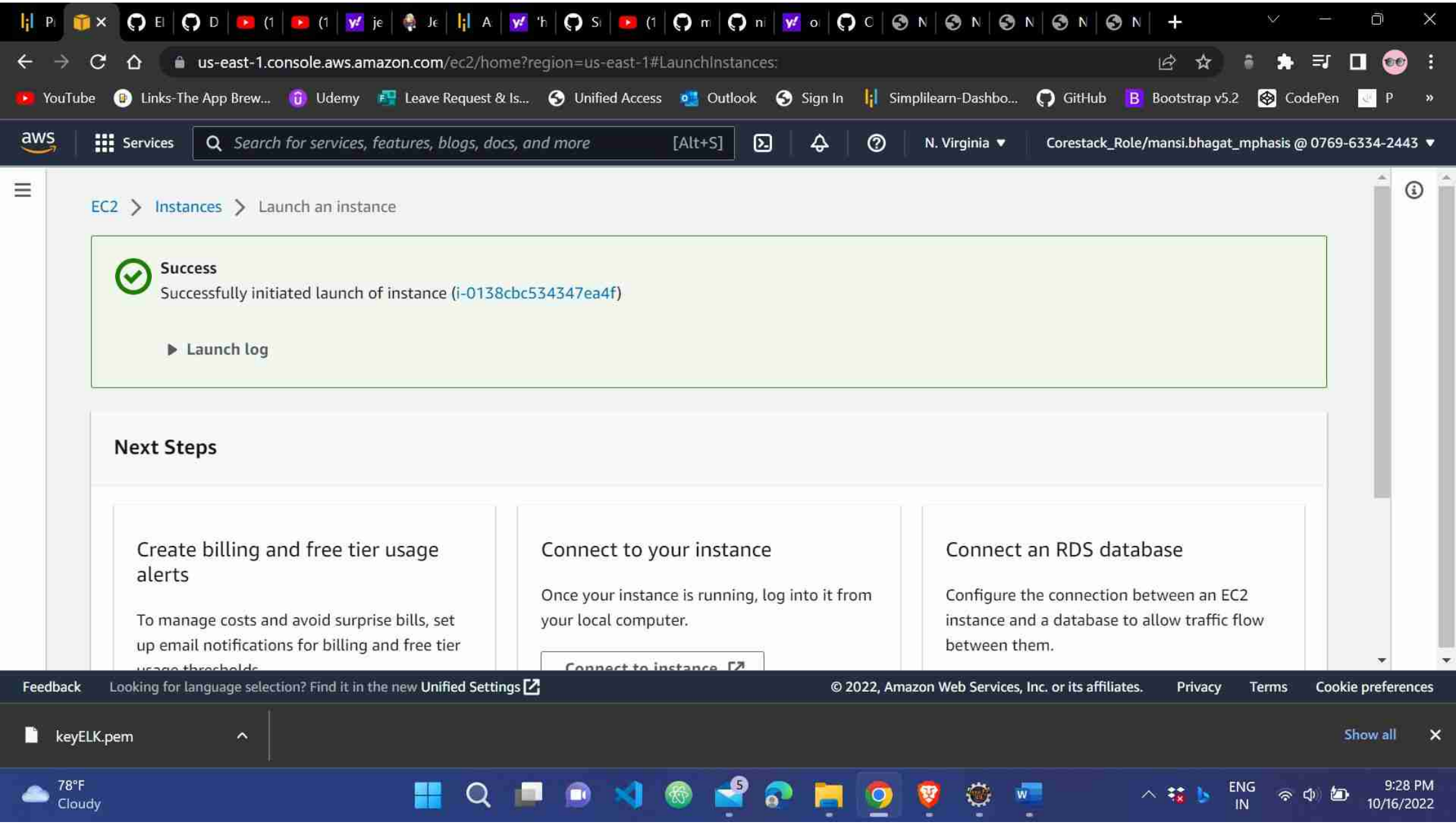
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
YouTube
Links-The App Brew...
Udemy
Leave Request & Is...
Unified Access
Outlook
Sign In
Simplilearn-Dashbo...
GitHub
Bootstrap v5.2
CodePen
aws
Services
Search for services, features, blogs, docs, and more [Alt+S]
N. Virginia
Corestack_Role/mansi.bhagat_mphasis @ 0769-6334-2443
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-0138cbc534347ea4f)
Launch log
Next Steps
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Feedback
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keyELK.pem
Show all
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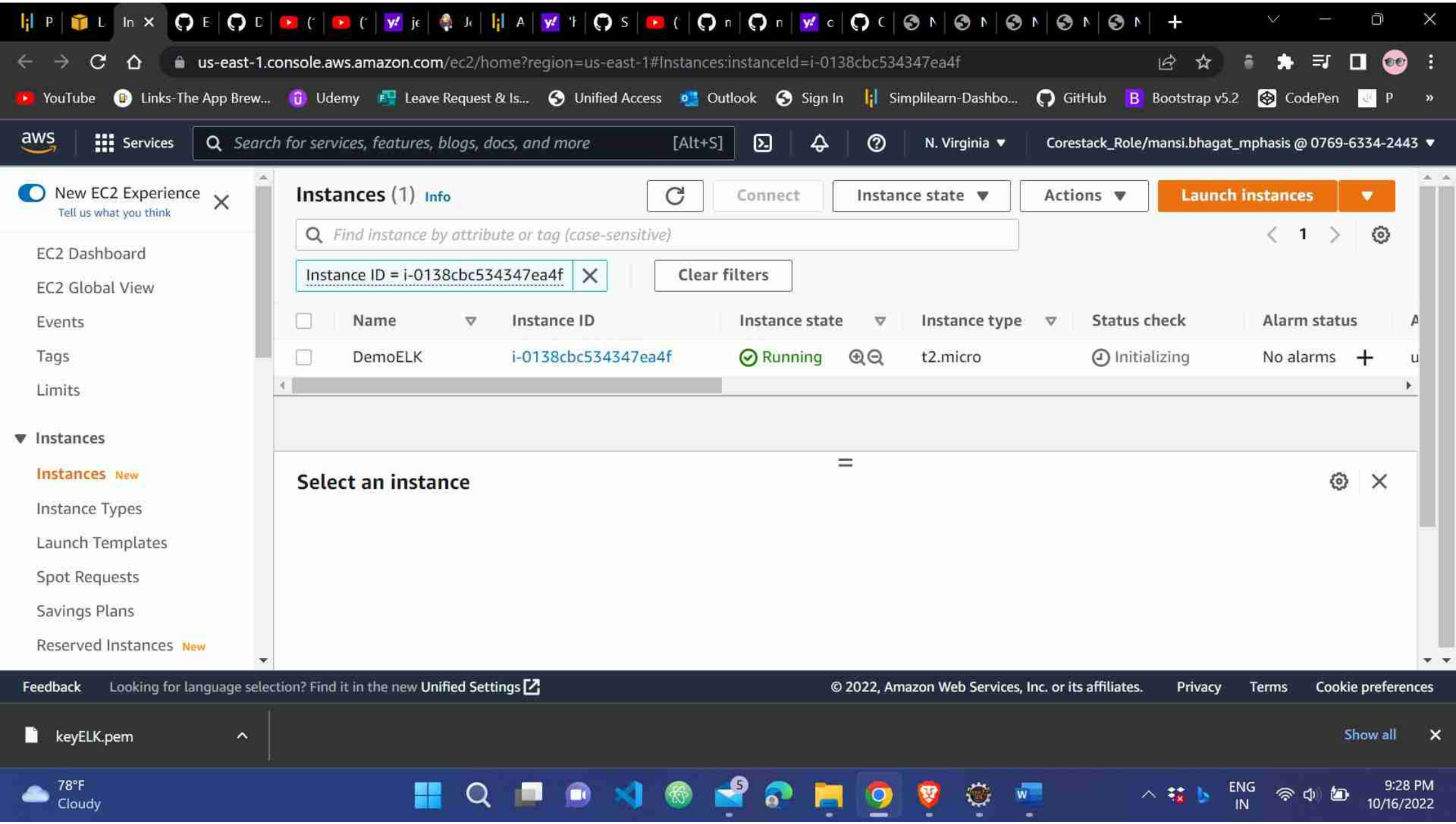
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceId=i-0138cbc534347ea4f
YouTube
Links-The App Brew...
Udemy
Leave Request & Is...
Unified Access
Outlook
Sign In
Simplilearn-Dashbo...
GitHub
Bootstrap v5.2
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New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Instance ID = i-0138cbc534347ea4f
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
DemoELK
i-0138cbc534347ea4f
Running
t2.micro
Initializing
No alarms
Select an instance
Feedback
Looking for language selection? Find it in the new Unified Settings
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Cookie preferences
keyELK.pem
Show all
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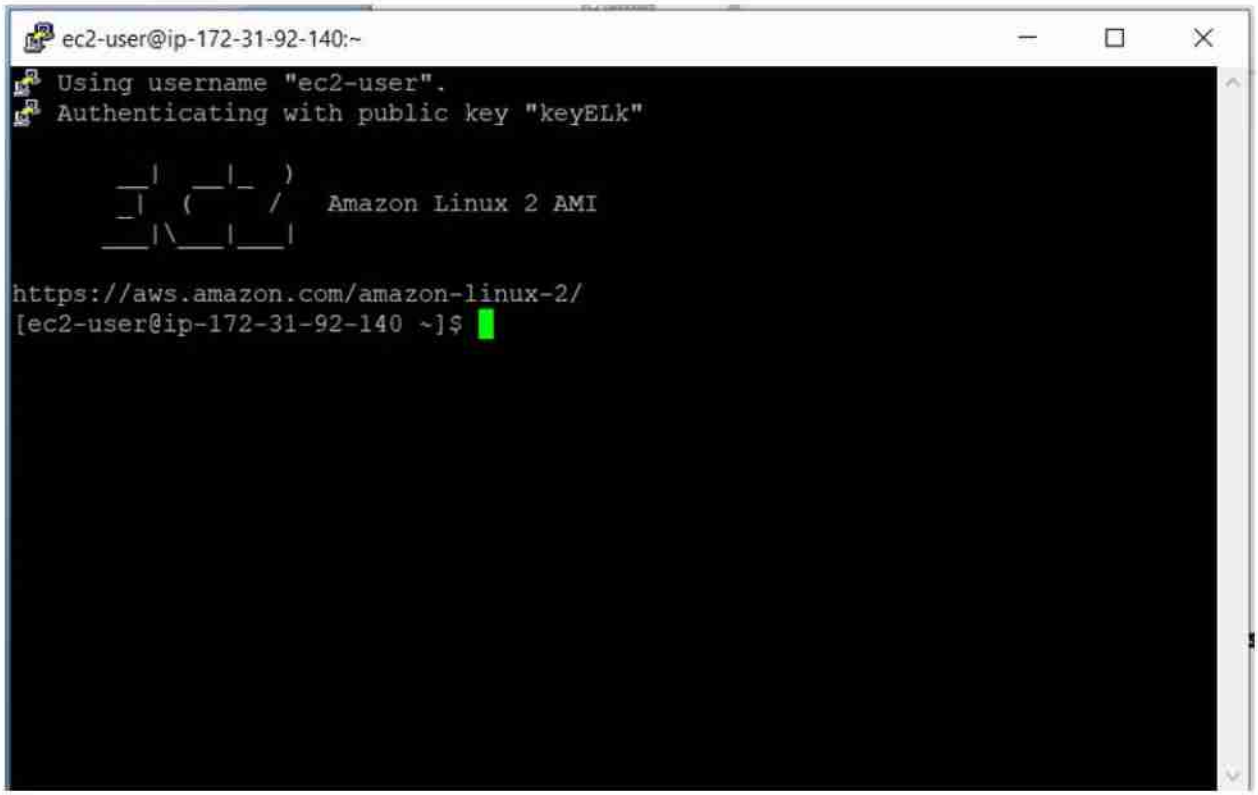
Connecting local machine with the instance



Now using the instance terminal, installing requirements on instance

- Installing Java JDK

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 ~]$
```

- Installing ElasticSearch and configuring for autoboot and making is accessible via public IP

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

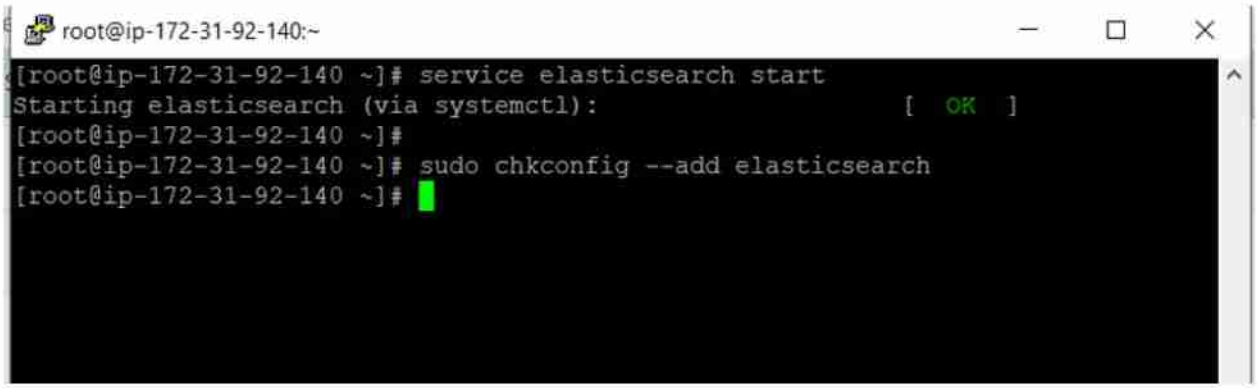
```
[ec2-user@ip-172-31-92-140 ~]$ sudo su
[root@ip-172-31-92-140 ec2-user]# yum install -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Error: Need to pass a list of pkgs to install
 Mini usage:

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
onnected.
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
```

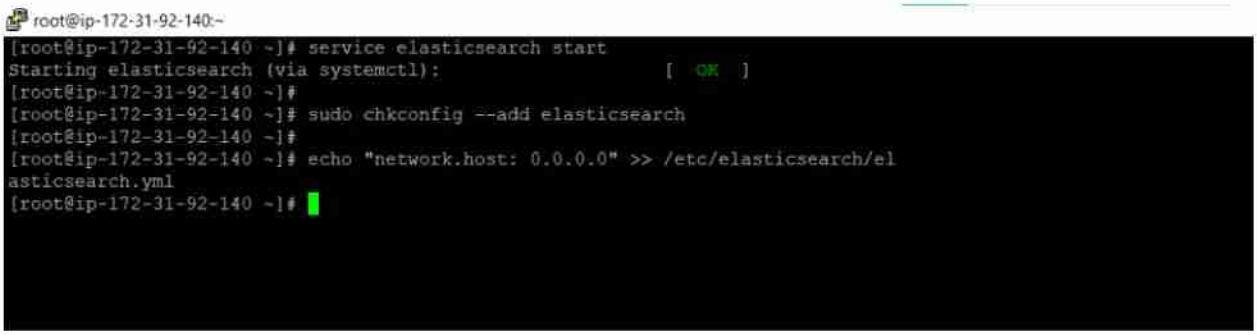
root@ip-172-31-92-140:~

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

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
```

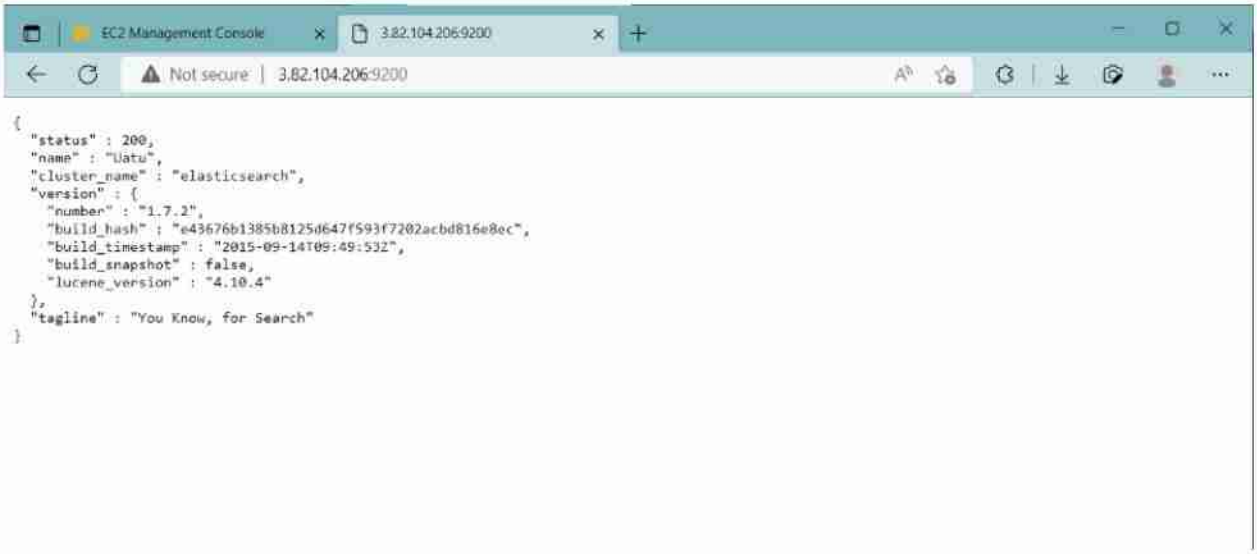
root@ip-172-31-92-140:~

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

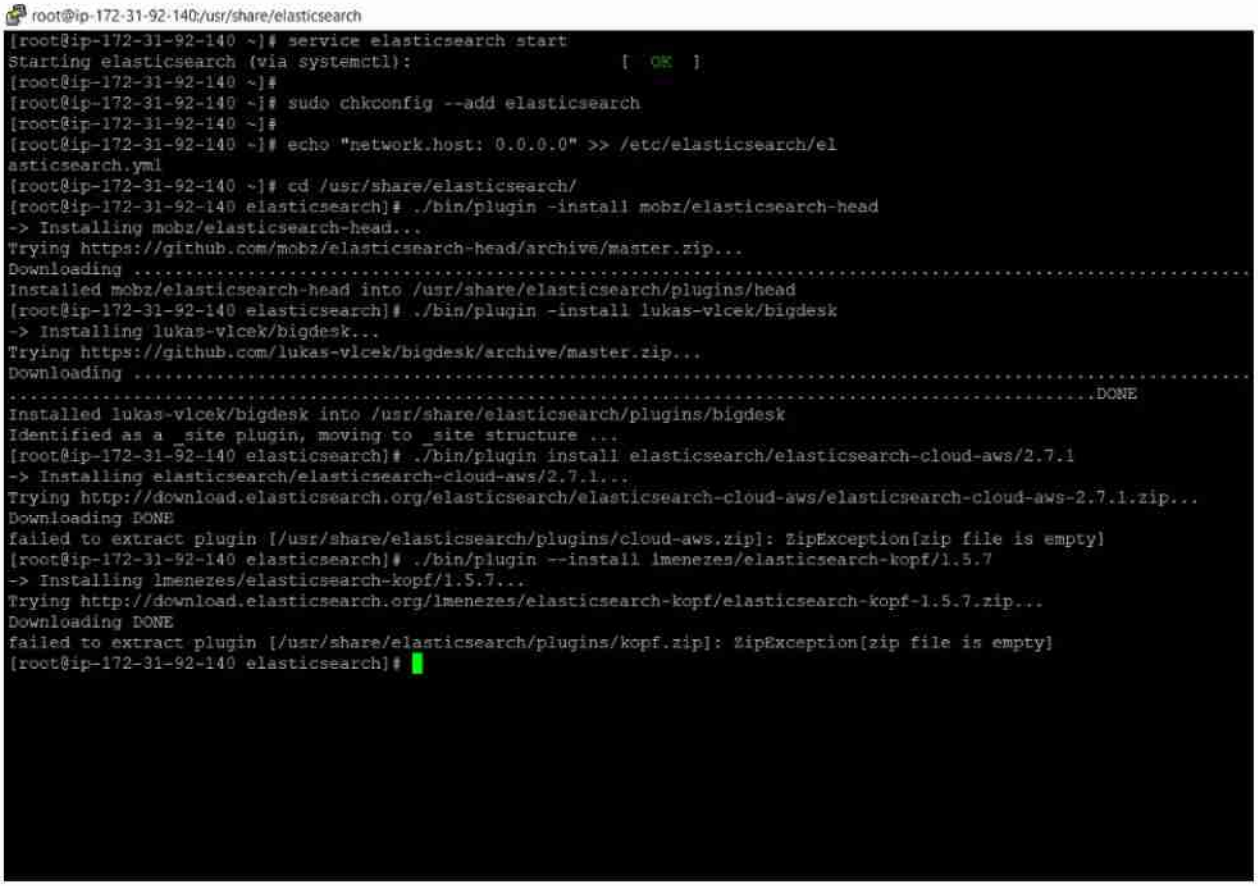




- Checking ElasticSearch via public IP

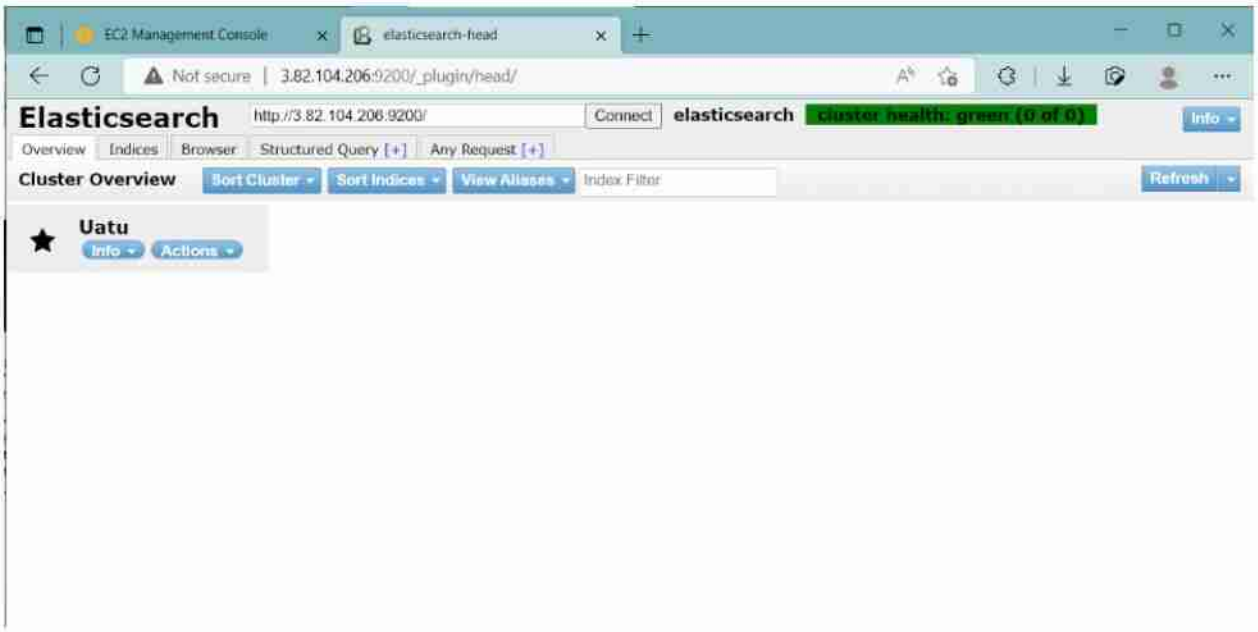


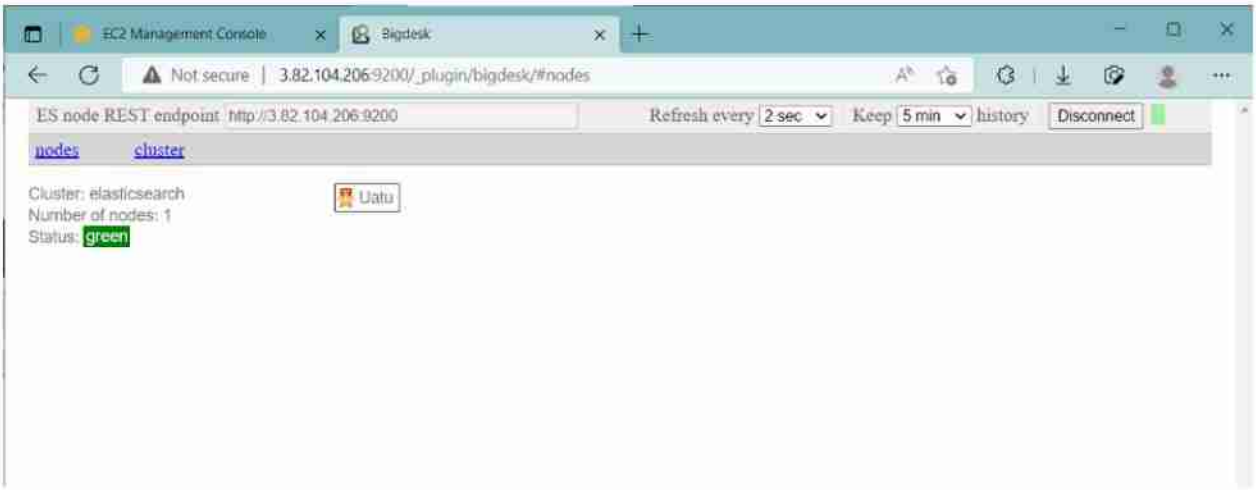
- Installing required plugins



- Installing Kibana

Checking user interface for data analysis and data visualization deployed ELK Stack :-





EC2 Management Console | Bigdesk

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

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

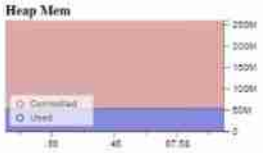
Selected node:

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

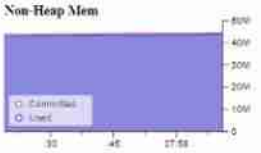
JVM

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

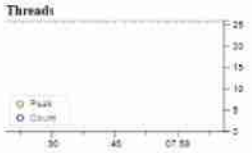
Uptime: 43m
Java version: 1.8.0_342
PID: 13373



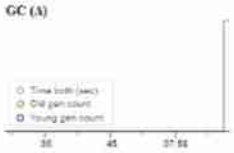
Committed: 247.6mb
Used: 51.6mb



Committed: 42.5mb
Used: 41.8mb



Peak: 26
Count: 26



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/I3KMFR7ITRWX6lpCsLfNsw

Share: 18.9mb
User total: 12540ms

HTTP & Transport

HTTP address:
inet[/172.31.92.140:9200]

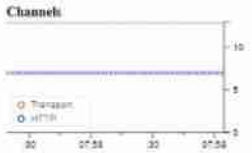
Bound address:
inet[/0:0:0:0:0:0:0:0:9200]

Publish address:
inet[/172.31.92.140:9200]

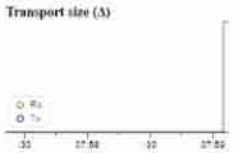
Transport address:
inet[/172.31.92.140:9300]

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



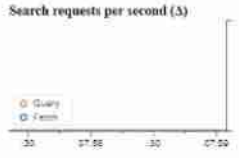
Series: weighted avg
Rx: 1.5kb, #6
Tx: 1.5kb, #6

Indices

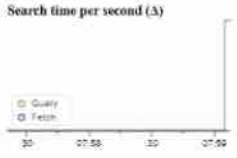
Docs count: 0
Docs deleted: 0

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

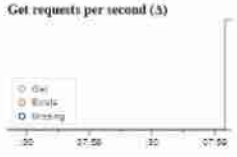
Size: 0b



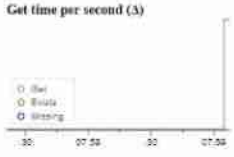
Query: 0
Fetch: 0



Query: 0s
Fetch: 0s



Get: 0
Exists: 0
Missing: 0



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

Cache size | Cache evictions (Δ) | Indexing requests per second (Δ) | Indexing time per second (Δ)