Full Name	Chekka Nagaraju
Batch	MS FSD DEC 2021 Cohort 1
Project Name	CI/CD Deployment
Project Submission Date	23-08-2022

Source Code

Springbootwebapp.java

```
package springboot;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class Springbootwebapp {

	public static void main(String[] args) {
		SpringApplication.run(Springbootwebapp.class, args);

	}

}
```

ProController.java

```
package springboot.controller;

import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;

@Controller
public class ProController {
	@RequestMapping("/")
	  public String index() {
	    return "index.html";
	  }
}
```

Index.html

```
<!DOCTYPE html>
<style>
body {
	background-image: linear-gradient(180deg, rgb(0, 64, 128), 
#000000);
```

```
        margin: 0;
        padding: 0;
        overflow-x: hidden;
        height: 100%;
        font-family: 'Lato', Helvetica, arial, sans-serif;
        font-weight: 300;
        font-size: 20px;
        line-height: 1.45;
        color: #eee;
        color: rgba(255, 255, 255, .85);
}

#container {
        padding-top: 50px;
}

#content {
        max-width: 43em;
        padding: 10px;
        margin: 0 auto;
}

h1 {
        font-size: 4.8em;
        font-weight: 100;
        text-transform: uppercase;
        margin: 0;
}

h3 {
        font-size: 2.4em;
        font-weight: 300;
        line-height: 1.5;
}

p, li {
        font-size: 1.7em;
}

a {
        font-weight: 700;
        text-decoration: none;
        color: #fff;
}

a:hover {
        text-decoration: underline;
}

p#pleft {
        max-width: 20em;
        float: left;
}

p#pright {
        max-width: 20em;
        float: left;
}

ul {
        clear: both;
```

```
}

html {
	font-size: 62.5%;
}

body {
	font-size: 1em;
}

body {
	/* To show the background color is no problem here */
	background-color: #efefef;
}



@media ( min-width : 880px) {
	html {
		font-size: 120%;
	}
	p, li {
		font-size: 1em;
	}
	p#pright {
		margin-left: 3em;
	}
	.stage {
		-webkit-transform: scale(0.85);
		transform: scale(0.85);
		margin-right: 120px;
	}
}
</style>
<html lang="en">

<head>
<h1>
	<title>Nagaraju</title>
</h1>

<!-- Bootstrap -->
<link type="text/css" href="css/bootstrap.min.css" rel="stylesheet" />
<link type="text/css" href="css/default.css" rel="stylesheet" />

</head>
<body>

	<div id="container">
		<div id="content">
			<div id="about">
				<h1>
					<div style='float: left; margin-bottom:
14px;'> Nagaraju </div>

				</h1>
				<h3 style='clear: both' class="subhead">
					<a>SPRING-BOOT</a> Web App
				</h3>
```

```
                        <p id='pleft'>The following were used in
development:</p>
                        <p id='pright'>As requested by management,
demonstrating the
                              automated, integrated, and deployed spring-
boot web application.</p>

                        <ul>
                              <li><a>Eclipse</a></li>
                              <li><a>GitHub</a></li>
                              <li><a>S3 bucket</a></li>
                              <li><a>AWS EC2/ Virtual machine</a></li>
                        </ul>
                        <p>Contact Details: Nagaraju, FSJD</p>
                  </div>
            </div>
      </div>

</body>
</html>
```

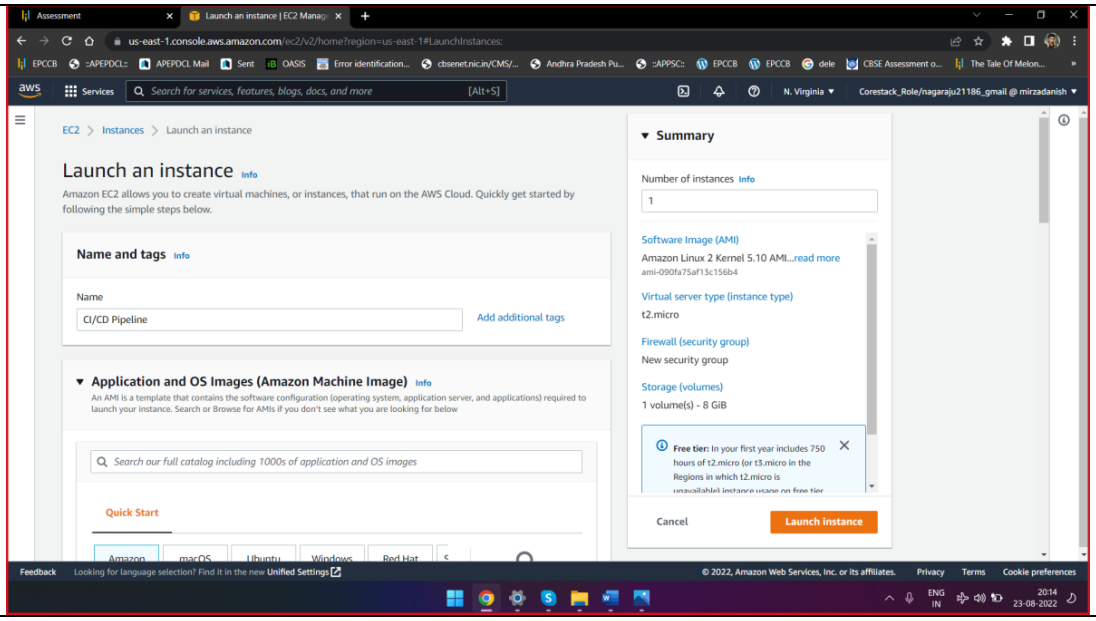
Default.css

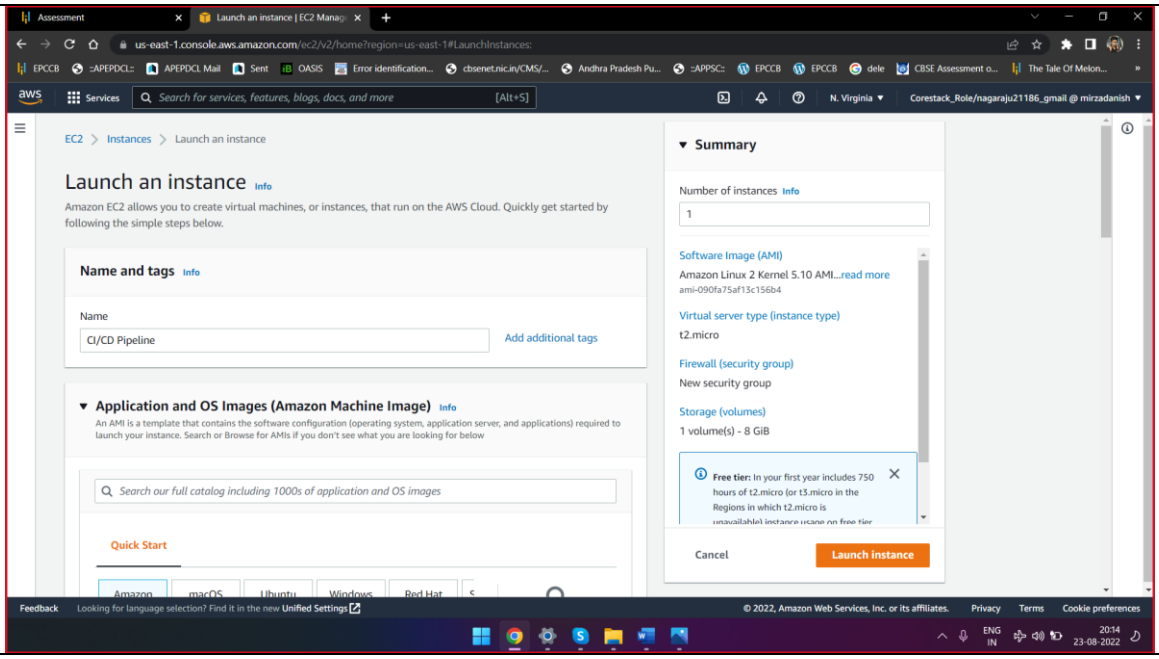
```
body {
    background-image: linear-gradient(180deg, #0088bb, #000000);
    margin:0; padding:0;
    overflow-x:hidden;
    height:100%;
    font-family: 'Lato', Helvetica, arial, sans-serif;
    font-weight: 300;
    font-size: 20px;
    line-height: 1.45;
    color: #eee;
    color: rgba(255,255,255,.85);
}
#container {
    padding-top: 50px;
}
#content {
    max-width: 43em;
    padding:10px;
    margin: 0 auto;
}
h1 {
    font-size: 4.8em;
    font-weight: 100;
    text-transform: uppercase;
    margin: 0;
}
h3 {
    font-size: 2.4em;
    font-weight: 300;
    line-height: 1.5;
}
p, li {
    font-size: 1.7em;
}
a {
    font-weight: 700;
    text-decoration: none;
    color: #fff;
}
a:hover {
```

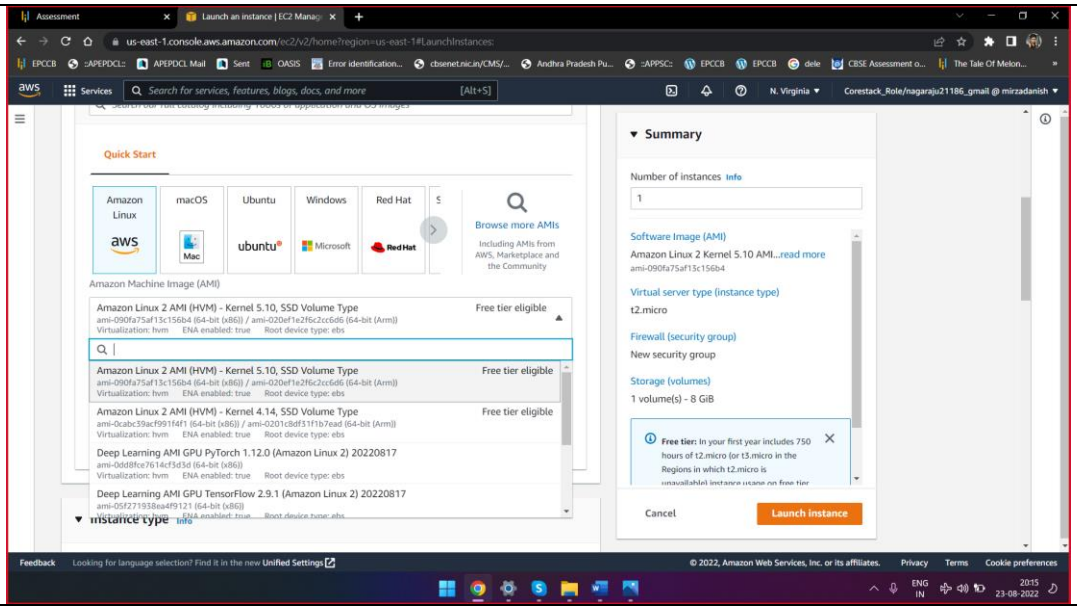
```
    text-decoration: underline;
}
p#pleft {
    max-width:20em;
    float:left;
}
p#pright {
    max-width:20em;
    float:left;
}
ul {
    clear:both;
}


html { font-size: 62.5%; }
body { font-size: 1em;}


/* PYRAMID CODE */
.stage {
  -webkit-transform:scale(1.85);
  transform:scale(0.85);
  float:right;
  margin-right:120px;
  margin-top:30px;
  width:0px; height:0px;

  position:relative;
  -webkit-perspective:1200px;
  -webkit-perspective-origin:50% 50%;
  perspective:1200px;
  perspective-origin:50% 50%;
}
.pyramid3d {
  position:relative;
  width:150px;
  height:150px;

  -webkit-transform-style: preserve-3d;
  transform-style: preserve-3d;
  -webkit-transform: rotateX(75deg) rotate(65deg);
  transform: rotateX(75deg) rotate(65deg);
  -webkit-animation: turnPyramid 10s linear infinite;
  animation: turnPyramid 10s linear infinite;
}
.triangle {
  -webkit-transform-style:preserve-3d;
  transform-style:preserve-3d;
  width:0; height:0;
  background:none;
}
.triangle:before{
  content:"";
  position: absolute;
  height: 0; width: 0;
  border-style: solid;
  border-width: 176px 75px 0 75px;
}
.side1 { -webkit-transform: translatex(0) rotatey(115.2deg)
rotatez(90deg); transform: translatex(0) rotatey(115.2deg)
```

```
rotatez(90deg); }
.side2 { -webkit-transform: translatex(150px) rotatez(90deg)
rotatex(64.8deg); transform: translatex(150px) rotatez(90deg)
rotatex(64.8deg); }
.side3 {  -webkit-transform: translatez(0) rotatex(64.8deg); transform:
translatez(0) rotatex(64.8deg); }
.side4 { -webkit-transform: translatey(150px) rotatex(115.2deg);
transform: translatey(150px) rotatex(115.2deg); }
.side1:before{ border-color: rgba(115, 115, 0, 0.3) transparent
transparent transparent; }
.side2:before{ border-color: rgba(20, 90, 225, 0.3) transparent
transparent transparent; }
.side3:before{ border-color: rgba(255,   0, 0, 0.3) transparent
transparent transparent; }
.side4:before{ border-color: rgba(0, 255, 255, 0.3) transparent
transparent transparent; }


@-webkit-keyframes turnPyramid { 100% { -webkit-transform: rotateX(75deg)
rotate(425deg); } }
@keyframes turnPyramid { 100% { transform: rotateX(75deg) rotate(425deg);
} }

@media (max-width: 300px) {
    html { font-size: 70%; }
    .stage { -webkit-transform:scale(0.05); transform:scale(0.05); }
}
@media (max-width: 440px) {
    h1 { line-height:55px; }
}
@media (max-width: 460px) {
  .stage { position:absolute; top:25px; left:50%; margin-left:-45px; }
  h1 { margin-top:50px; text-align:center; }
}
@media (max-width:600px) { .stage { -webkit-transform:scale(0.55);
transform:scale(0.55); margin-right:60px; } }
@media (min-width: 600px) {
    html { font-size: 80%; }
    .stage { -webkit-transform:scale(0.68); transform:scale(0.68);
margin-right:80px; }
}
@media (min-width: 880px) {
    html { font-size: 120%; }
    p, li { font-size: 1em; }
    p#pright { margin-left:3em; }
    .stage { -webkit-transform:scale(0.85); transform:scale(0.85);
margin-right:120px; }
}
```

Screen Shots






Assessment
Launch an instance | EC2 Manag
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances:
Services
Search for services, features, blogs, docs, and more
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Corestack_Role/nagaraju21186_gmail @ mirzadanish
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
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-090fa75af13c156b4 (64-bit (x86)) / ami-020ef1e2f6c2cc6d6 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Amazon Linux 2 AMI (HVM) - Kernel 4.14, SSD Volume Type
ami-0cabc39acf991f4f1 (64-bit (x86)) / ami-0201c8df31f1b7ead (64-bit (Arm))
Deep Learning AMI GPU PyTorch 1.12.0 (Amazon Linux 2) 20220817
ami-0dd8fce7614cf3d3d (64-bit (x86))
Deep Learning AMI GPU TensorFlow 2.9.1 (Amazon Linux 2) 20220817
ami-05f271938ea4f9121 (64-bit (x86))
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-090fa75af13c156b4
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
Cancel
Launch instance
Feedback
Looking for language selection? Find it in the new Unified Settings
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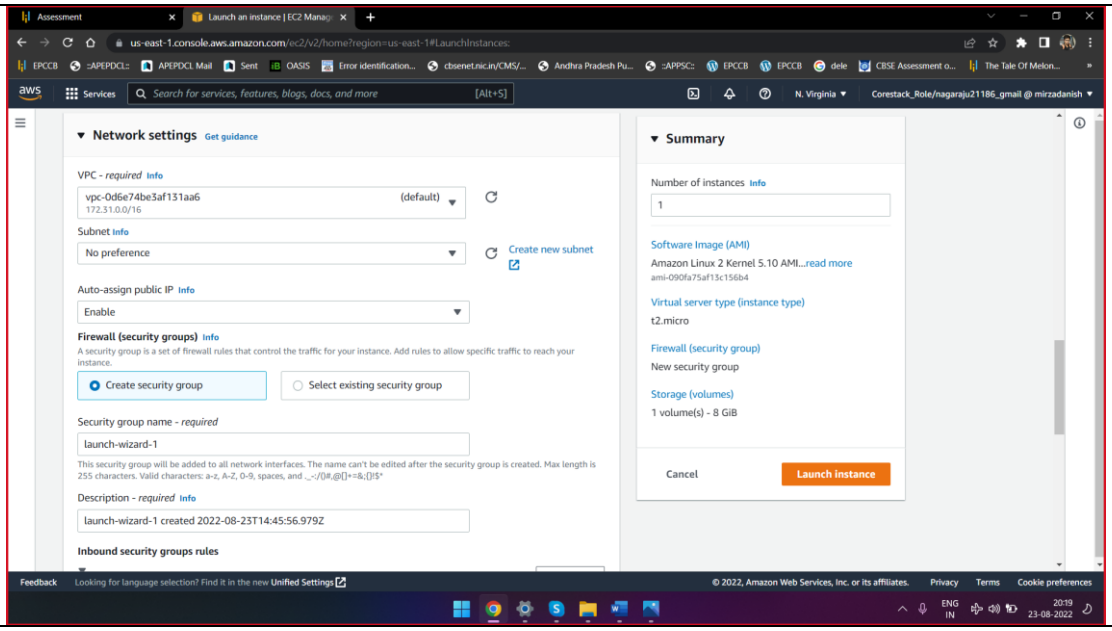
Assessment
Launch an instance | EC2 Manag
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances:
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/nagaraju21186_gmail @ mirzadanish
Network settings
Get guidance
VPC - required Info
vpc-0d6e74be3af131aa6 (default)
172.31.0.0/16
Subnet Info
No preference
Create new subnet
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
Security group name - required
launch-wizard-1
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard-1 created 2022-08-23T14:45:56.979Z
Inbound security groups rules
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-090fa75af13c156b4
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Feedback
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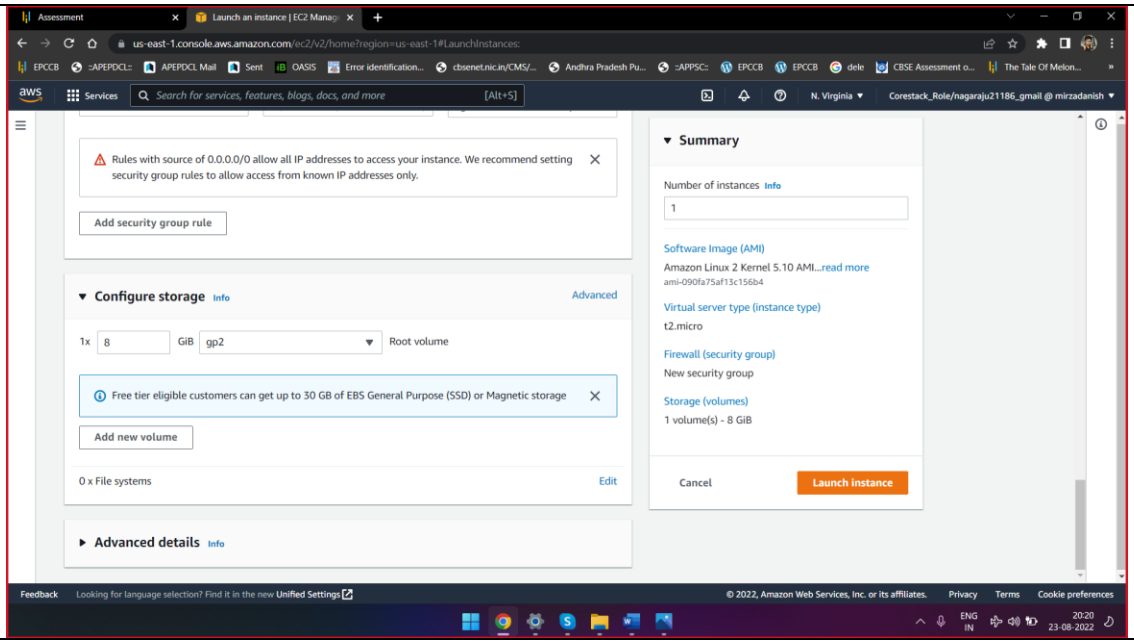
Assessment
Launch an instance | EC2 Manag
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances:
Services
Search for services, features, blogs, docs, and more [Alt+S]
N. Virginia
Corestack_Role/nagaraju21186_gmail @ mirzadanish
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Add security group rule
Configure storage Info
Advanced
1x 8 GiB gp2 Root volume
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
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-090fa75af13c156b4
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Feedback
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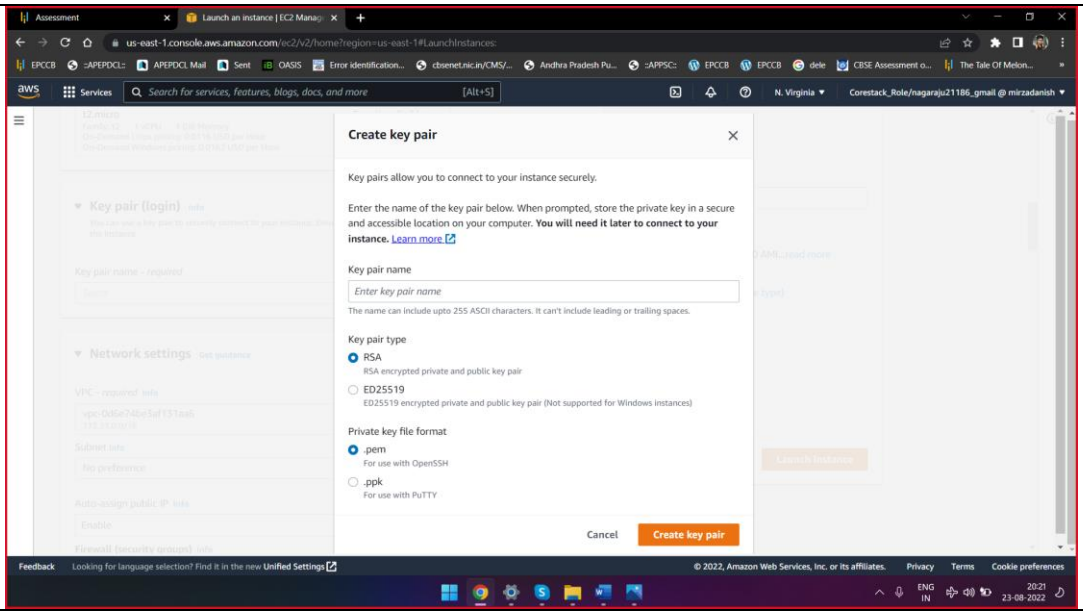
23-08-2022


Assessment
Launch an instance | EC2 Manag
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances:
Services
Search for services, features, blogs, docs, and more [Alt+S]
N. Virginia
Corestack_Role/nagaraju21186_gmail @ mirzadanish
Create key pair
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
Key pair name
Enter key pair name
The name can include upto 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
For use with PuTTY
Cancel
Create key pair
Feedback
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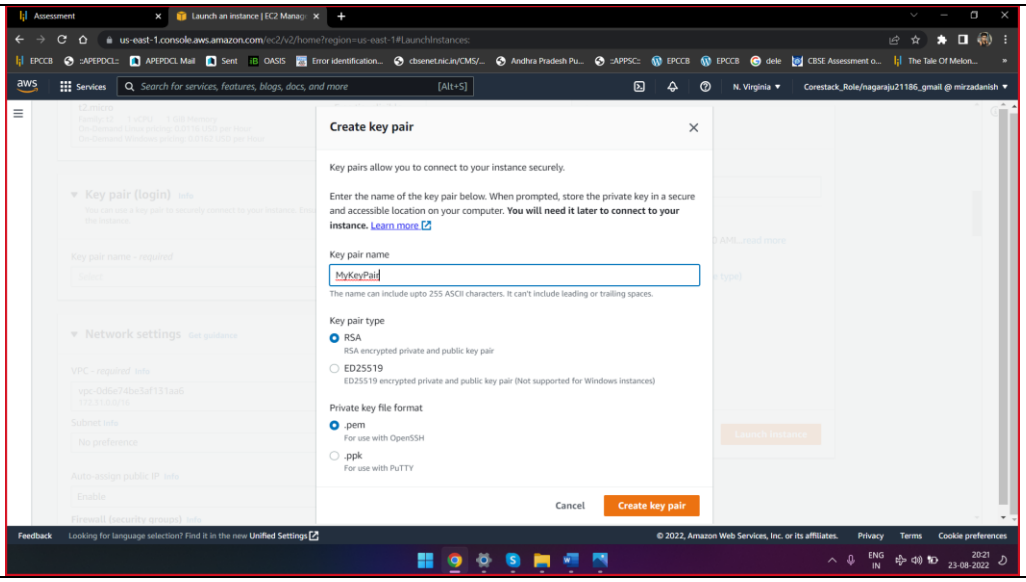
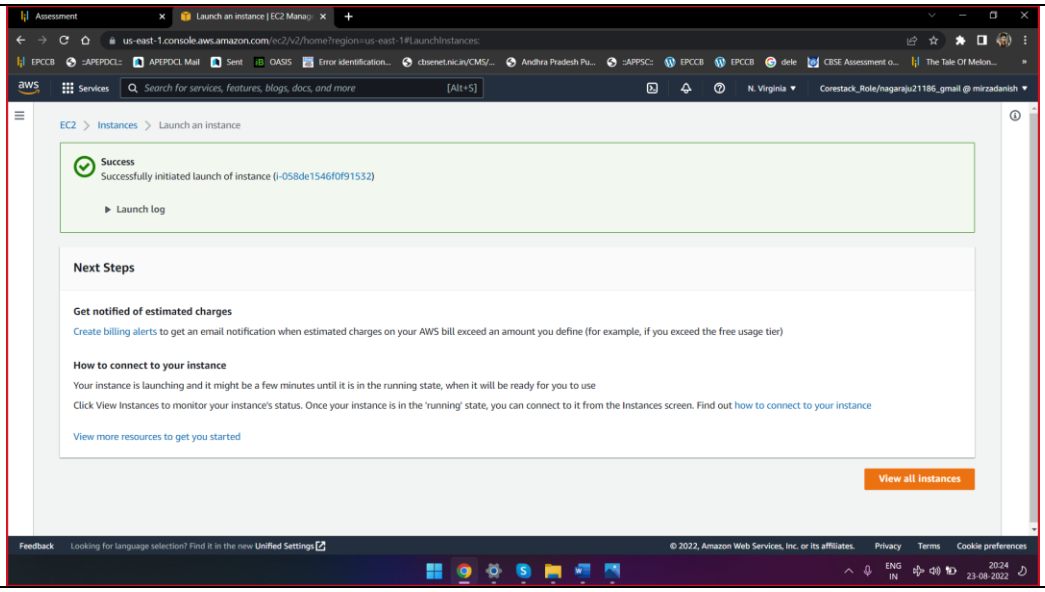
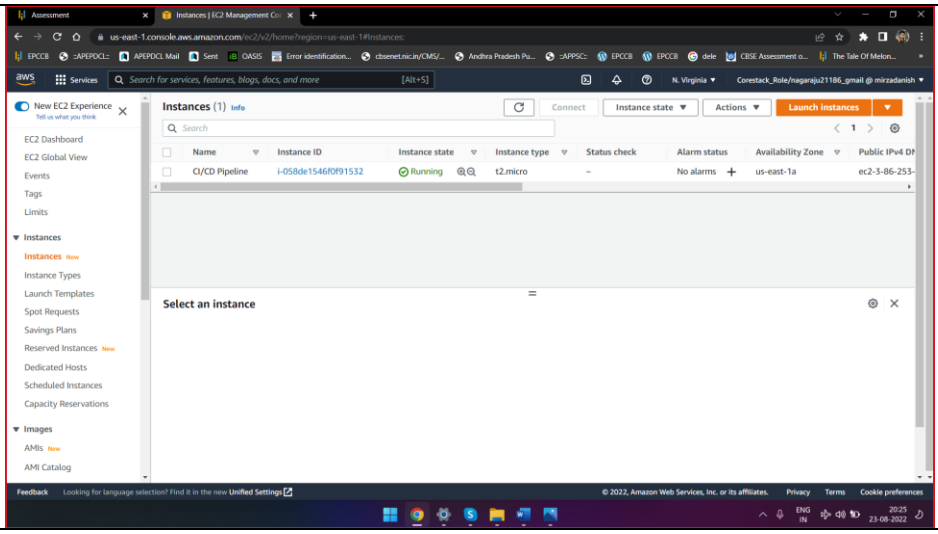
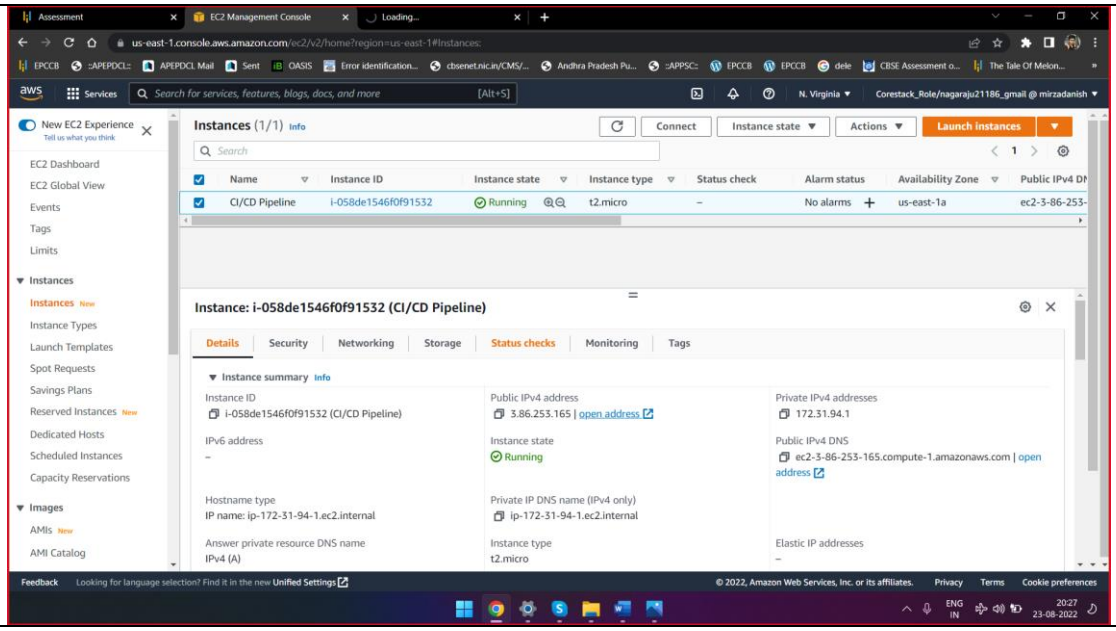

Create key pair
Key pairs allow you to connect to your instance securely.
Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more
Key pair name
MyKeyPair
The name can include upto 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
For use with PuTTY
Cancel
Create key pair


EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-058de1546f0f91532)
Launch log
Next Steps
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)
How to connect to your instance
Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use
Click View Instances to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out how to connect to your instance
View more resources to get you started
View all instances


Instances (1)
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
CI/CD Pipeline
i-058de1546f0f91532
Running
t2.micro
No alarms
us-east-1a
Select an instance


Assessment
EC2 Management Console
Loading...
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/nagaraju21186_gmail @ mirzadanish
New EC2 Experience
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs New
AMI Catalog
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
CI/CD Pipeline
i-058de1546f0f91532
Running
t2.micro
No alarms
us-east-1a
Instance: i-058de1546f0f91532 (CI/CD Pipeline)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-058de1546f0f91532 (CI/CD Pipeline)
Public IPv4 address
3.86.253.165 | open address
Private IPv4 addresses
172.31.94.1
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-3-86-253-165.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-172-31-94-1.ec2.internal
Private IP DNS name (IPv4 only)
ip-172-31-94-1.ec2.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t2.micro
Elastic IP addresses
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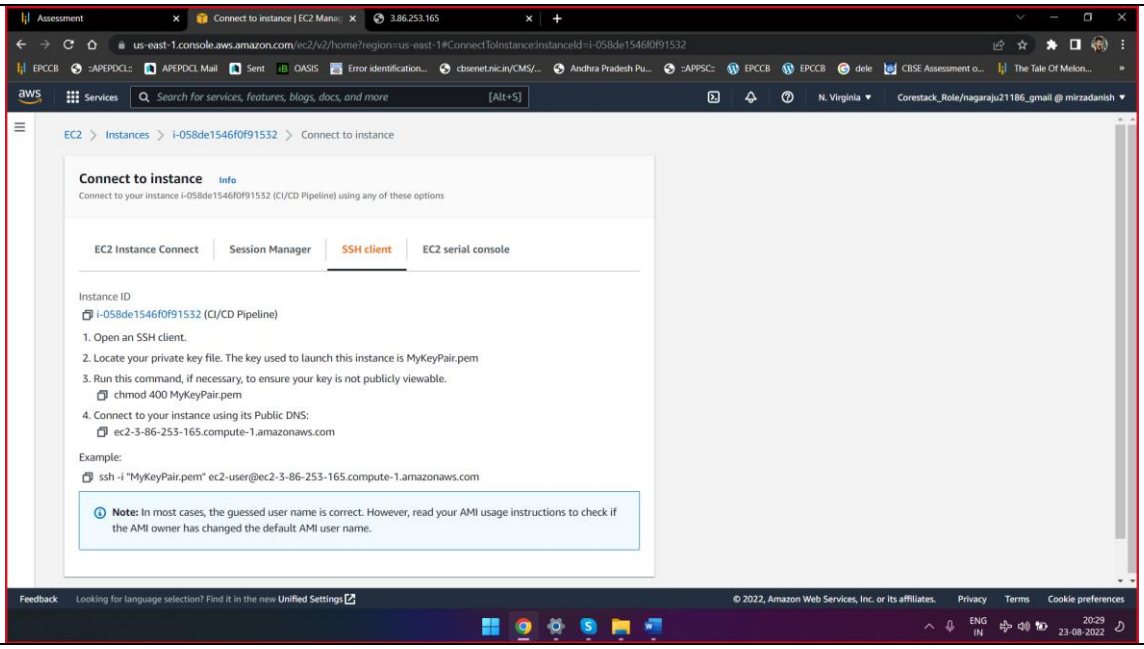
Assessment
Connect to instance | EC2 Mana
3.86.253.165
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#ConnectToInstance:instanceId=i-058de1546f0f91532
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/nagaraju21186_gmail @ mirzadanish
EC2 > Instances > i-058de1546f0f91532 > Connect to instance
Connect to instance Info
Connect to your instance i-058de1546f0f91532 (CI/CD Pipeline) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-058de1546f0f91532 (CI/CD Pipeline)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is MyKeyPair.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 MyKeyPair.pem
4. Connect to your instance using its Public DNS:
ec2-3-86-253-165.compute-1.amazonaws.com
Example:
ssh -i "MyKeyPair.pem" ec2-user@ec2-3-86-253-165.compute-1.amazonaws.com
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
Feedback
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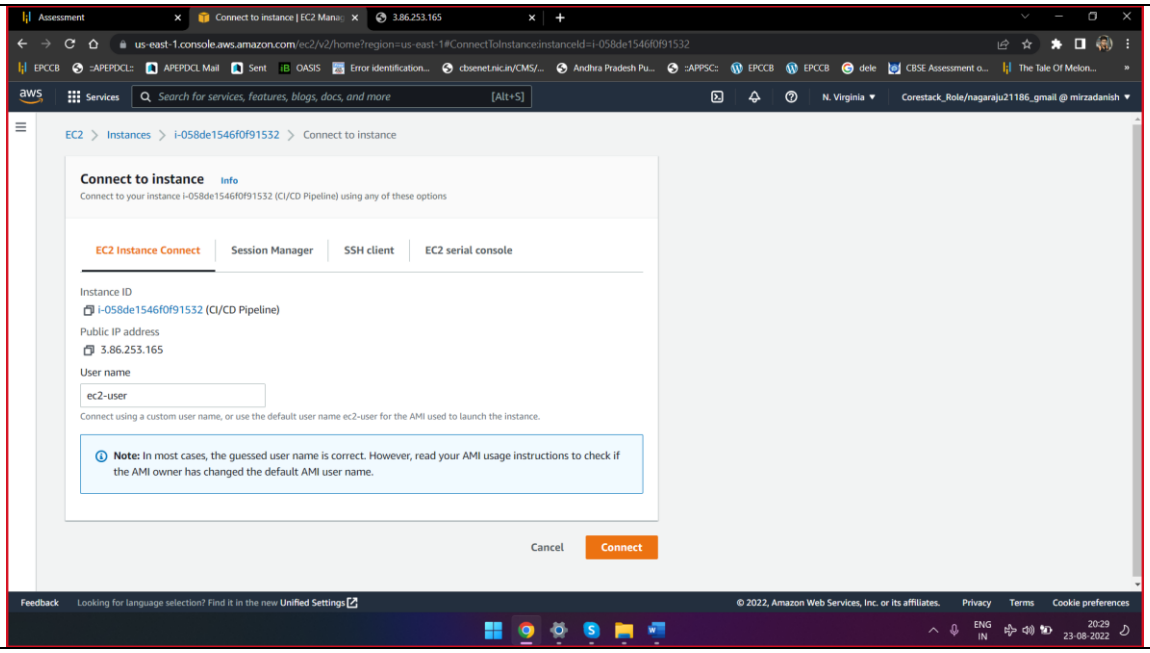
Assessment
Connect to instance | EC2 Manag
3.86.253.165
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#ConnectToInstance:instanceId=i-058de1546f0f91532
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/nagaraju21186_gmail @ mirzadanish
EC2 > Instances > i-058de1546f0f91532 > Connect to instance
Connect to instance Info
Connect to your instance i-058de1546f0f91532 (CI/CD Pipeline) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-058de1546f0f91532 (CI/CD Pipeline)
Public IP address
3.86.253.165
User name
ec2-user
Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
Cancel
Connect
Feedback
Looking for language selection? Find it in the new Unified Settings
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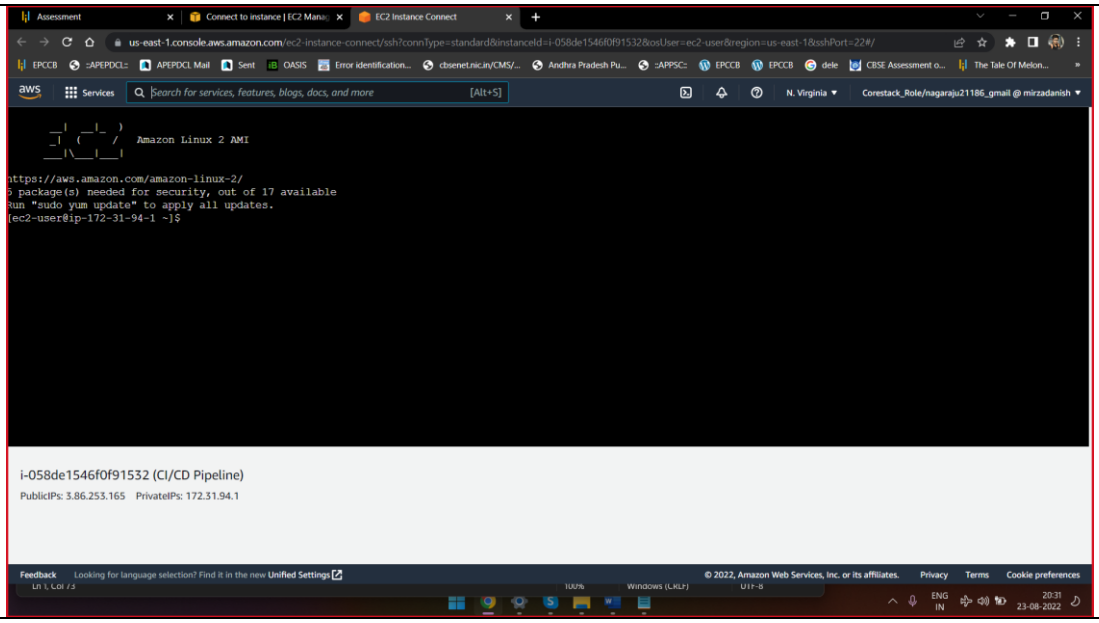
Terms
Cookie preferences


Assessment
Connect to instance | EC2 Manag
EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-058de1546f0f91532&osUser=ec2-user&region=us-east-1&sshPort=22#/
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Corestack_Role/nagaraju21186_gmail @ mirzadanish
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
5 package(s) needed for security, out of 17 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-94-1 ~]$
i-058de1546f0f91532 (CI/CD Pipeline)
PublicIPs: 3.86.253.165 PrivateIPs: 172.31.94.1
Feedback
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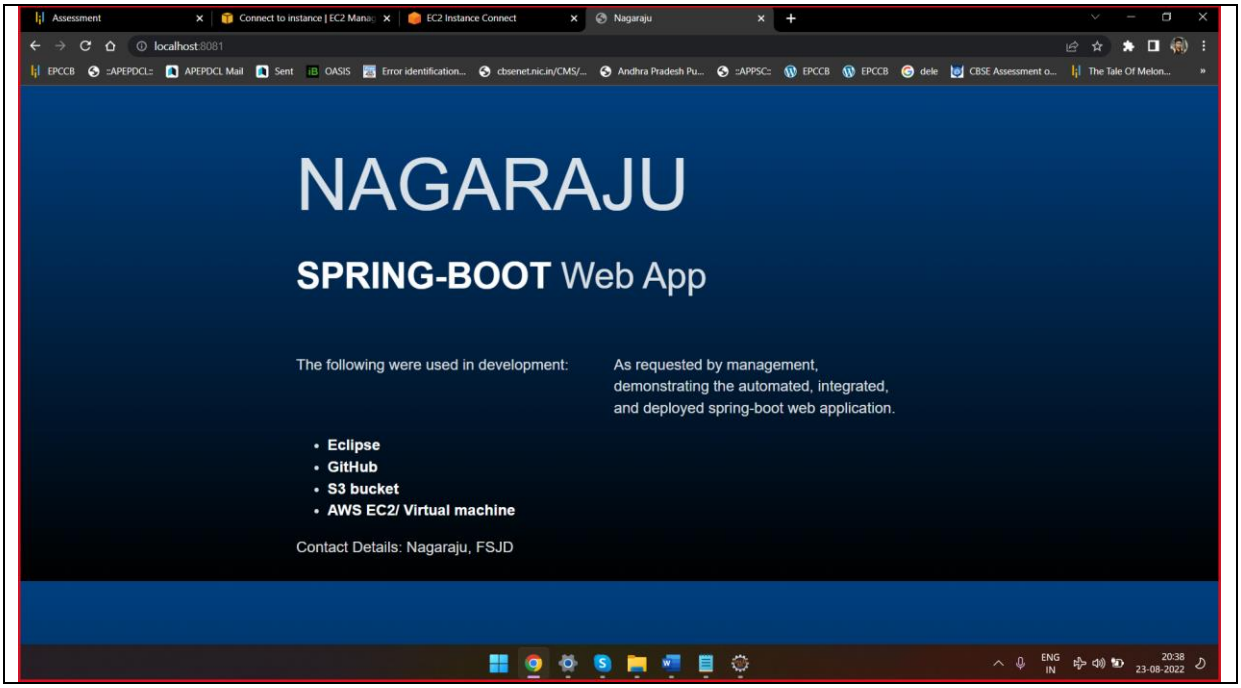
Assessment
Connect to instance | EC2 Mana
EC2 Instance Connect
Nagaraju
localhost:8081
EPCCB
APEPDCL Mail
Sent
OASIS
Error identification...
cbsenet.nic.in/CMS/...
Andhra Pradesh Pu...
EPCCB
EPCCB
dele
CBSE Assessment o...
The Tale Of Melon...
NAGARAJU
SPRING-BOOT Web App
The following were used in development:
As requested by management, demonstrating the automated, integrated, and deployed spring-boot web application.
Eclipse
GitHub
S3 bucket
AWS EC2/ Virtual machine
Contact Details: Nagaraju, FSJD
ENG
IN
20:38
23-08-2022