



Department of
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KPR Institute of
Engineering and
Technology
Learn Beyond (Autonomous, NAAC "A")
Avinashi Road, Arasur, Coimbatore.

AWS Cloud and Devops

by Mr. Mahendran Selvakumar

CONFIGURE WEB SERVER FROM WINDOWS INSTANCE LIGHTSAIL

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Class: CSE-C

Organized by KPR Institute of Engineering and Technology

Department of Computer Science and Engineering

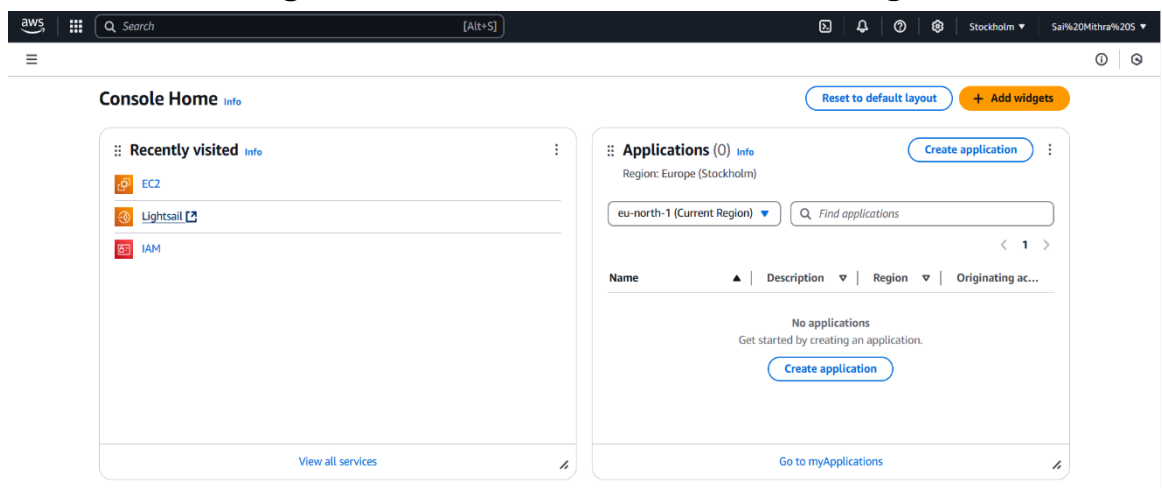
We are going to see the step by step guide to configure the web server from windows instance Lightsail.

STEP 1: Log in to the AWS Management Console

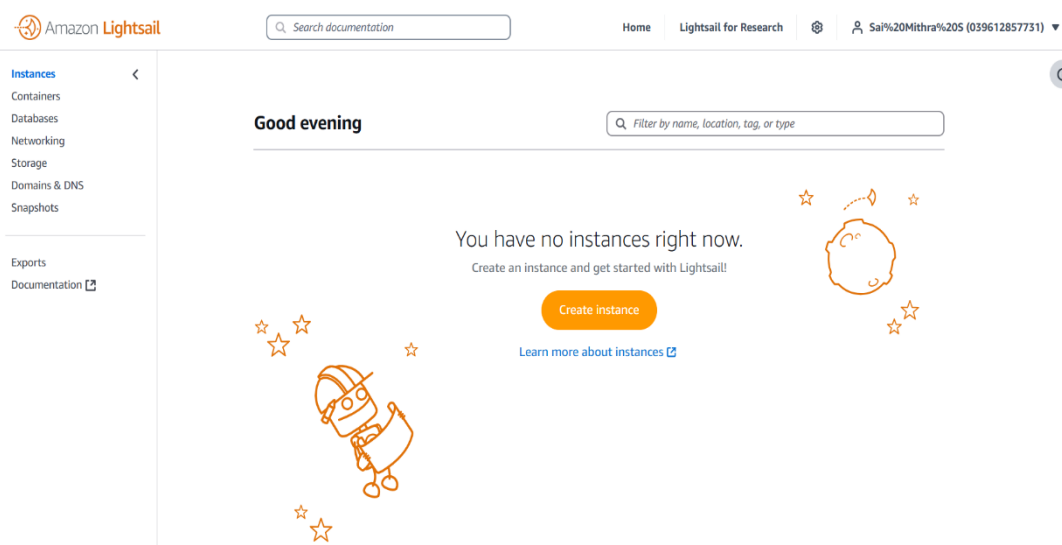
- Navigate to the AWS management console and login with your credentials.

STEP 2: CREATE A WINDOWS SERVER INSTANCE

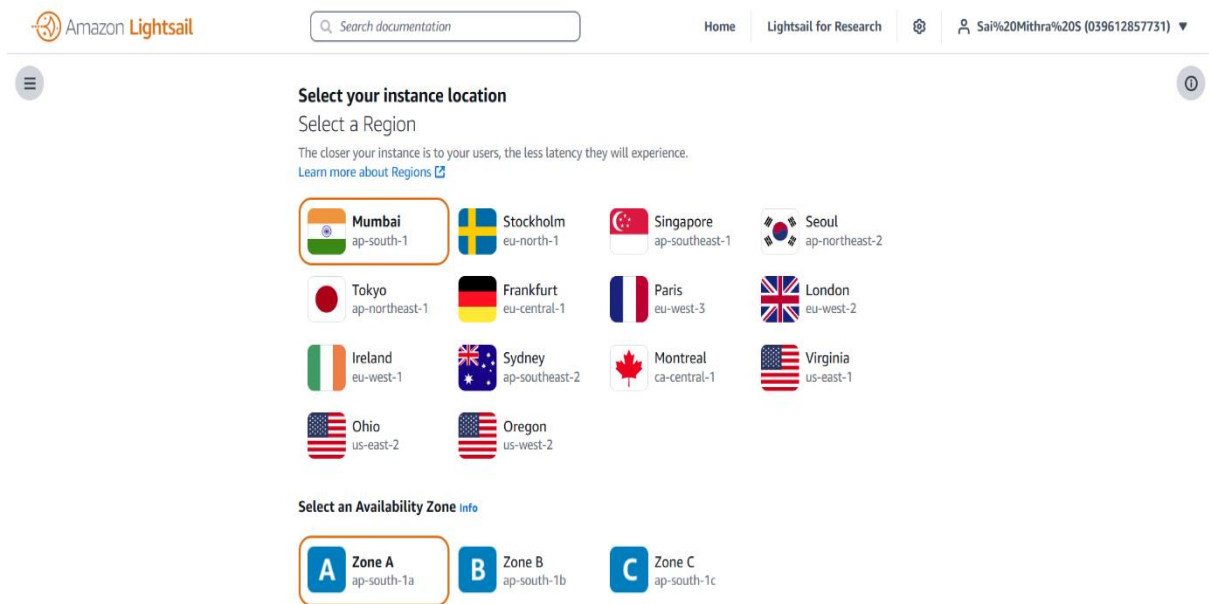
- In the AWS management console, find and select **Lightsail**.



- **CREATE INSTANCE:** In the Lightsail instance page, click on create instance.



➤ Choose the region and availability zone.



Amazon Lightsail

Search documentation

Home Lightsail for Research

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Select your instance location

Select a Region

The closer your instance is to your users, the less latency they will experience.
[Learn more about Regions](#)

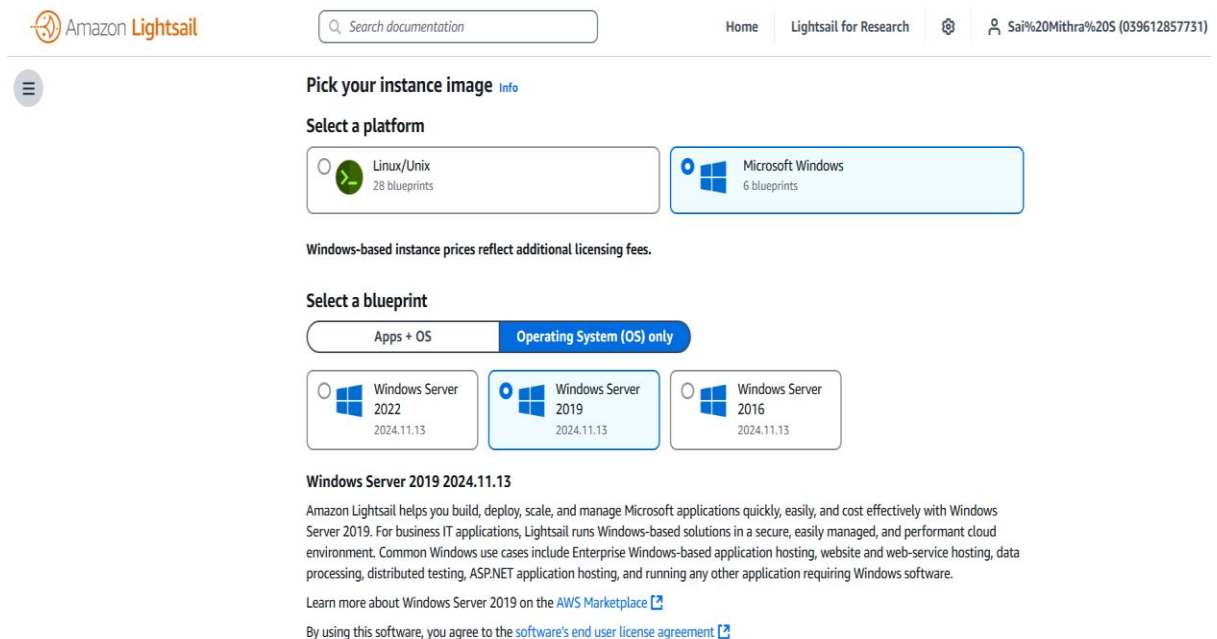
Mumbai ap-south-1	Stockholm eu-north-1	Singapore ap-southeast-1	Seoul ap-northeast-2
Tokyo ap-northeast-1	Frankfurt eu-central-1	Paris eu-west-3	London eu-west-2
Ireland eu-west-1	Sydney ap-southeast-2	Montreal ca-central-1	Virginia us-east-1
Ohio us-east-2	Oregon us-west-2		

Select an Availability Zone

[Info](#)

A Zone A ap-south-1a	B Zone B ap-south-1b	C Zone C ap-south-1c
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➤ Select your platform as **Microsoft Windows** and for the blueprint selection, choose **Operating System (OS) only** and then select windows server.



Amazon Lightsail

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Pick your instance image

[Info](#)

Select a platform

☐ Linux/Unix
28 blueprints

☒ Microsoft Windows
6 blueprints

Windows-based instance prices reflect additional licensing fees.

Select a blueprint

☐ Apps + OS

☒ Operating System (OS) only

Windows Server 2022 2024.11.13	Windows Server 2019 2024.11.13	Windows Server 2016 2024.11.13
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Windows Server 2019 2024.11.13

Amazon Lightsail helps you build, deploy, scale, and manage Microsoft applications quickly, easily, and cost effectively with Windows Server 2019. For business IT applications, Lightsail runs Windows-based solutions in a secure, easily managed, and performant cloud environment. Common Windows use cases include Enterprise Windows-based application hosting, website and web-service hosting, data processing, distributed testing, ASP.NET application hosting, and running any other application requiring Windows software.

[Learn more about Windows Server 2019 on the AWS Marketplace](#)

By using this software, you agree to the [software's end user license agreement](#)

- Select your network type as **Dual-Stack** choose a instance plan based on your needs.

Select a network type [Info](#)

☒ **Dual-stack** Recommended
For workloads that require full network compatibility.
Includes a public IPv4 and a public IPv6 address.

☐ **IPv6-only**
For workloads that do not require a public IPv4 address.
Includes a public IPv6 address.

Select a size

Sort by Price per month ▼

<p><input type="radio"/> \$9.5 USD per month</p> <p>512 MB Memory 2 vCPUs Processing 30 GB SSD Storage 512 GB Transfer</p> <p>First 90 days free</p>	<p><input checked="" type="radio"/> \$14 USD per month</p> <p>1 GB Memory 2 vCPUs Processing 40 GB SSD Storage 1 TB Transfer</p> <p>First 90 days free</p>	<p><input type="radio"/> \$22 USD per month</p> <p>2 GB Memory 2 vCPUs Processing 60 GB SSD Storage 1.5 TB Transfer</p> <p>First 90 days free</p>	<p><input type="radio"/> \$44 USD per month</p> <p>4 GB Memory 2 vCPUs Processing 80 GB SSD Storage 2 TB Transfer</p>
<p><input type="radio"/> \$74 USD per month</p> <p>8 GB Memory 2 vCPUs Processing 160 GB SSD Storage 2.5 TB Transfer</p>	<p><input type="radio"/> \$124 USD per month</p> <p>16 GB Memory 4 vCPUs Processing 320 GB SSD Storage 3 TB Transfer</p>	<p><input type="radio"/> \$244 USD per month</p> <p>32 GB Memory 8 vCPUs Processing 640 GB SSD Storage 3.5 TB Transfer</p>	<p><input type="radio"/> \$574 New USD per month</p> <p>64 GB Memory 16 vCPUs Processing 1,280 GB SSD Storage 4 TB Transfer</p> <p>Largest plan</p>

- Give a unique name to identify your instance and click on **create instance**.

Identify your instance

Your Lightsail resources must have unique names.

web-server × 1

Tagging options

Use tags to filter and organize your resources in the Lightsail console. Key-value tags can also be used to organize your billing, and to control access to your resources. [Learn more about tagging.](#)

Key-only tags [Info](#)

+ Add key-only tags

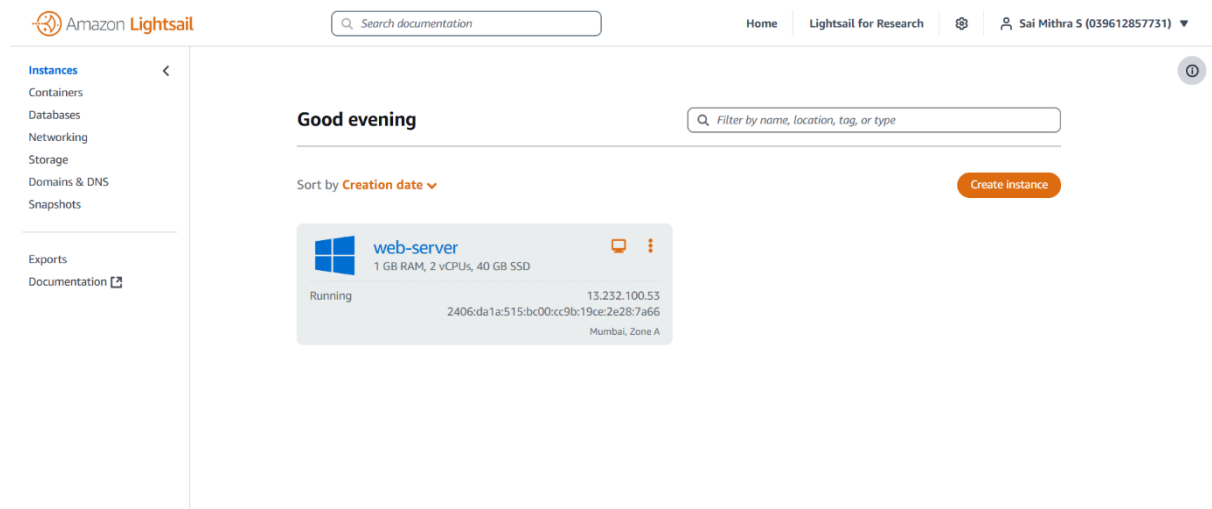
Key-value tags [Info](#)

+ Add key-value tag

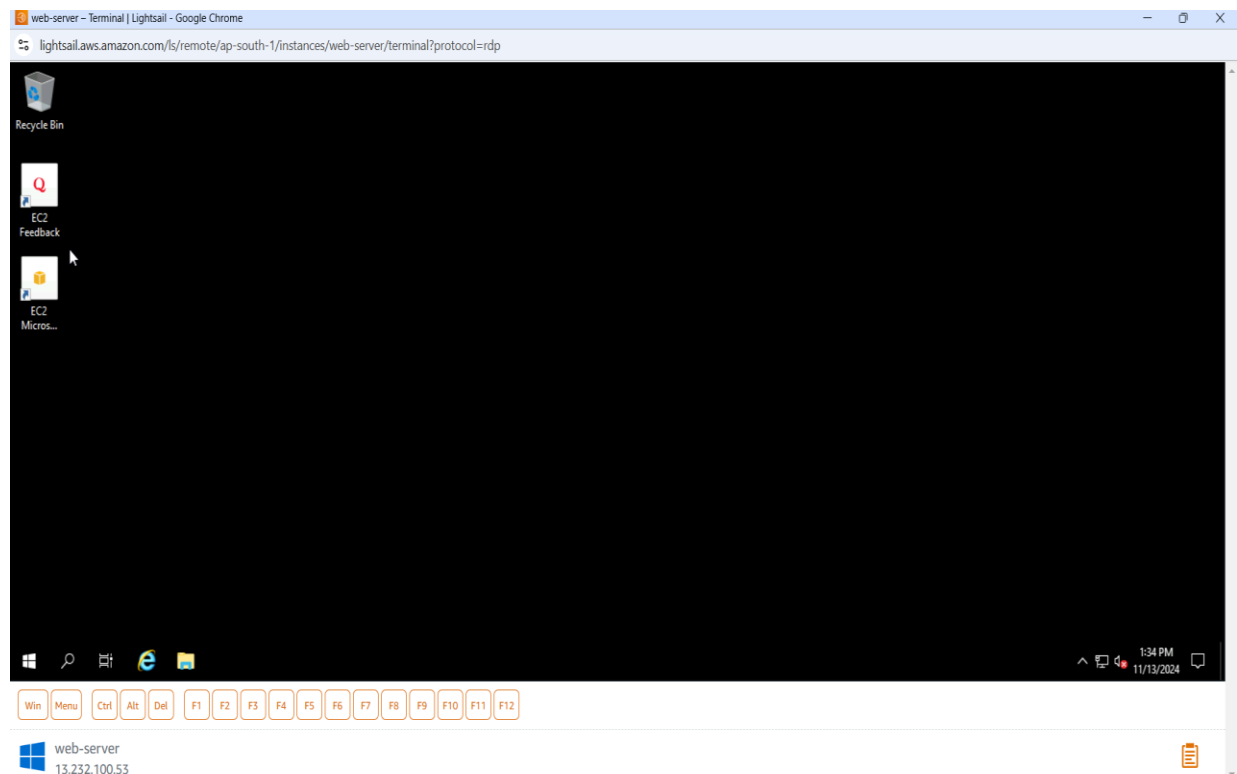
Create instance

Your use of AWS services is subject to the [AWS Customer Agreement](#).

- Thus, the windows instance on amazon Lightsail was created successfully.

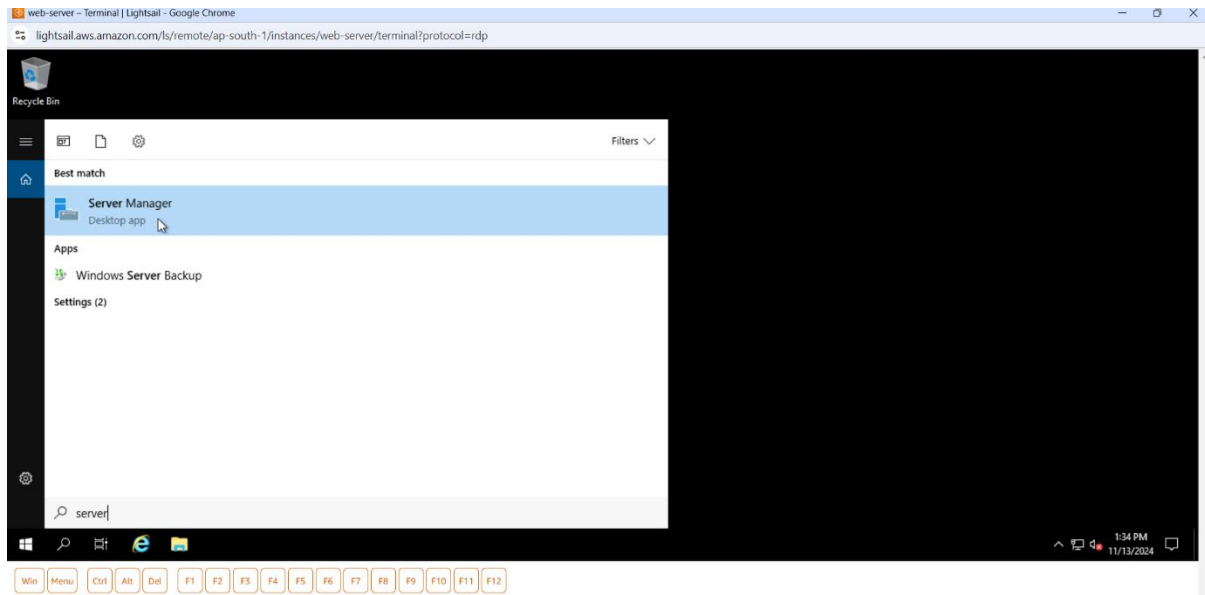


- Now, connect to instance that you have created so far.

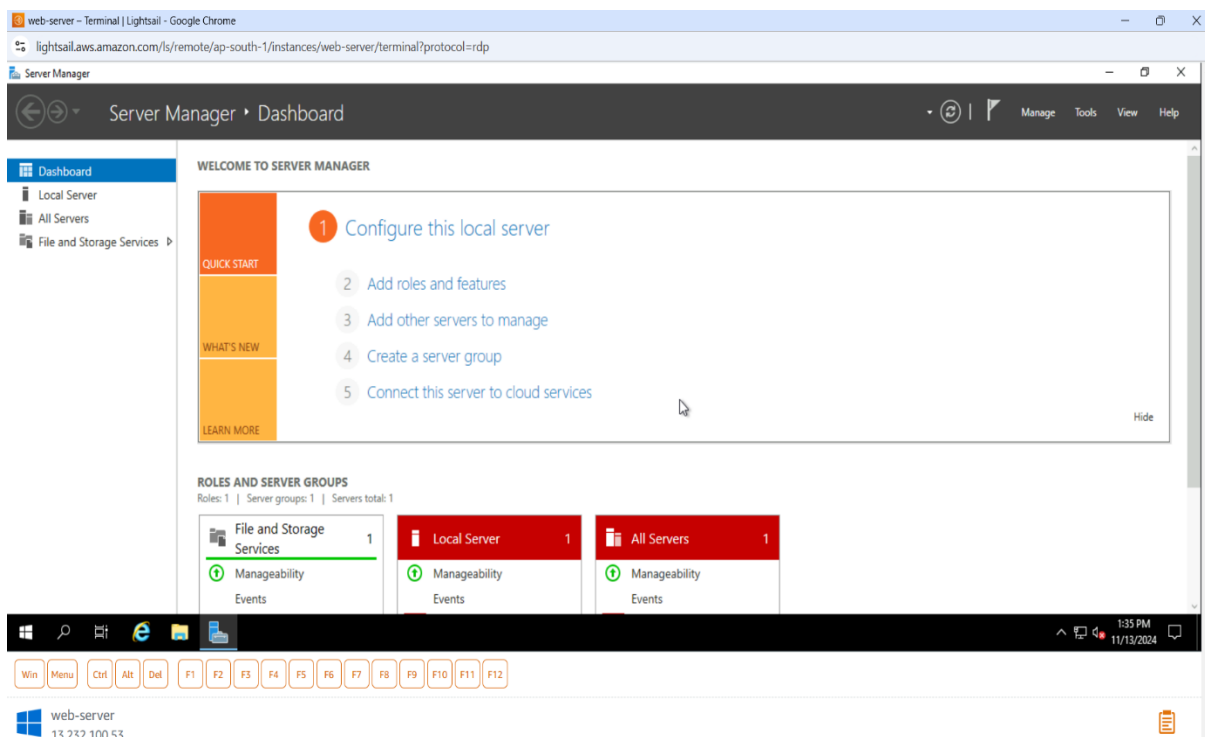


STEP 3: INSTALL IIS (INTERNET INFORMATION SYSTEM)

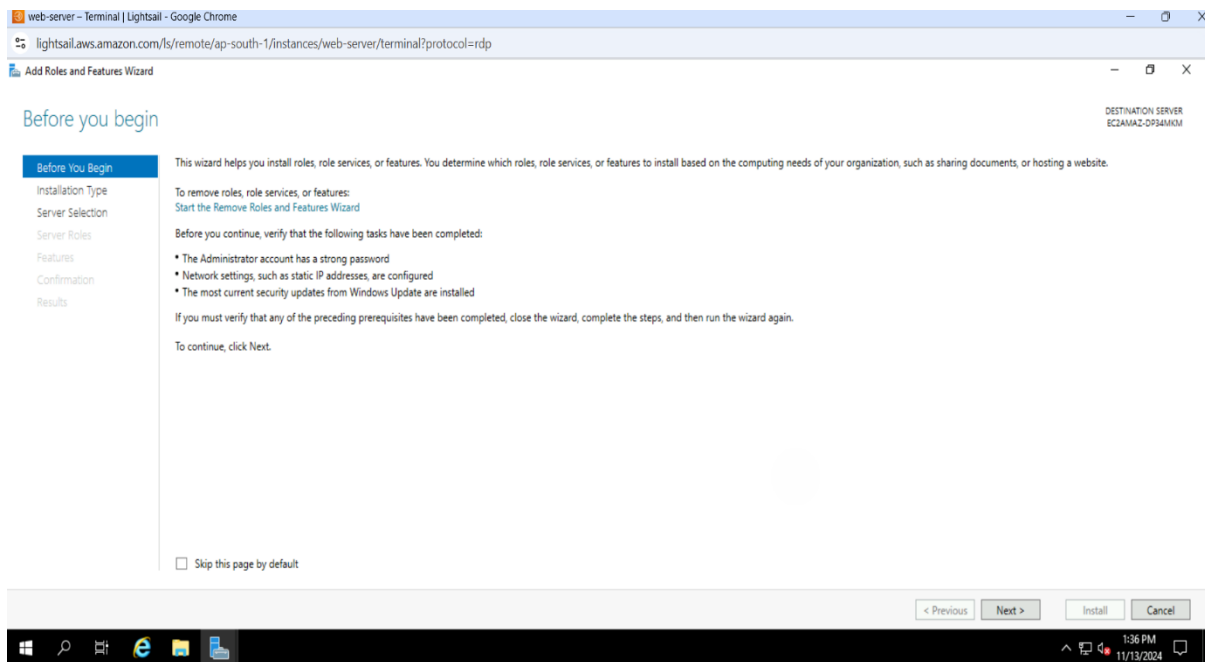
- Once you are done with connecting to the instance, search for the **server manager** to **install IIS** where we can add a new website.



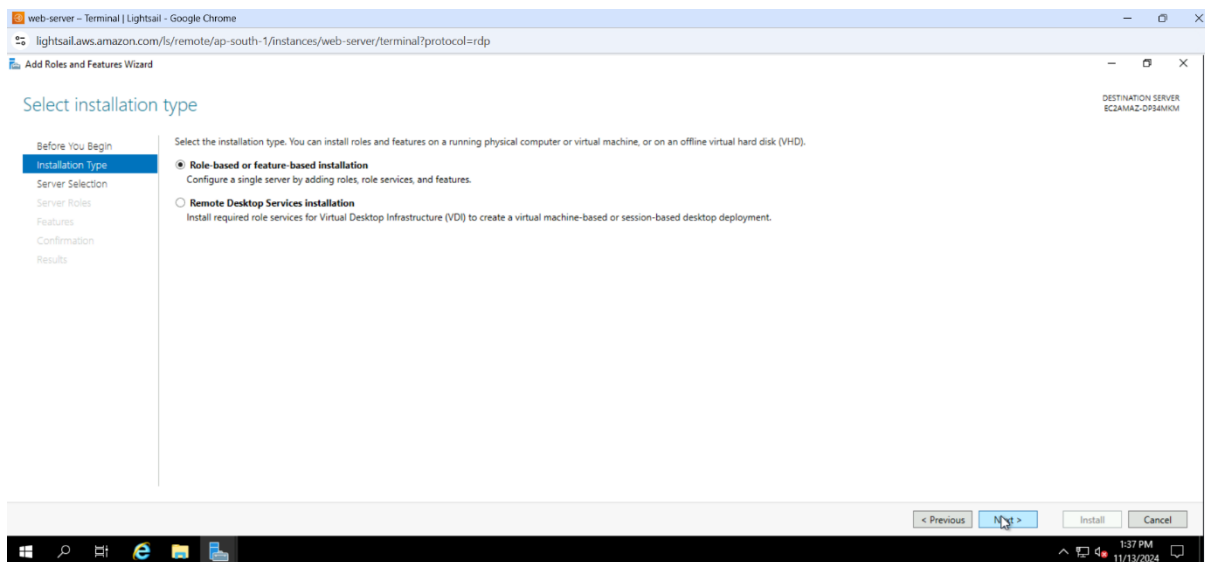
STEP 4: Inside server manager, click on Add roles and features.



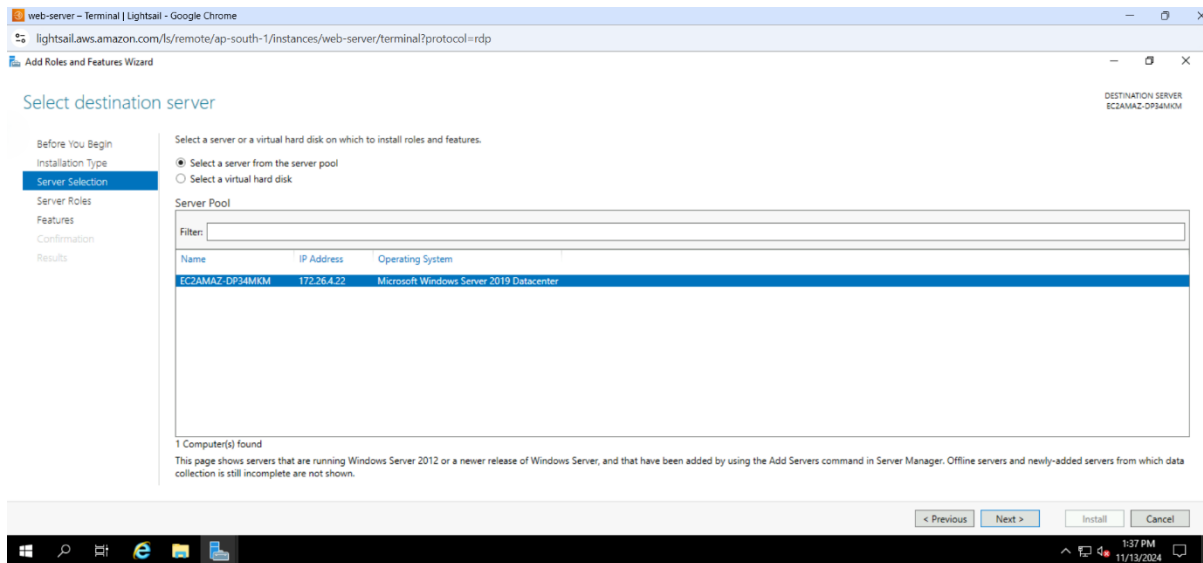
STEP 5: Add roles and features wizard appears as shown below and click on **next**.



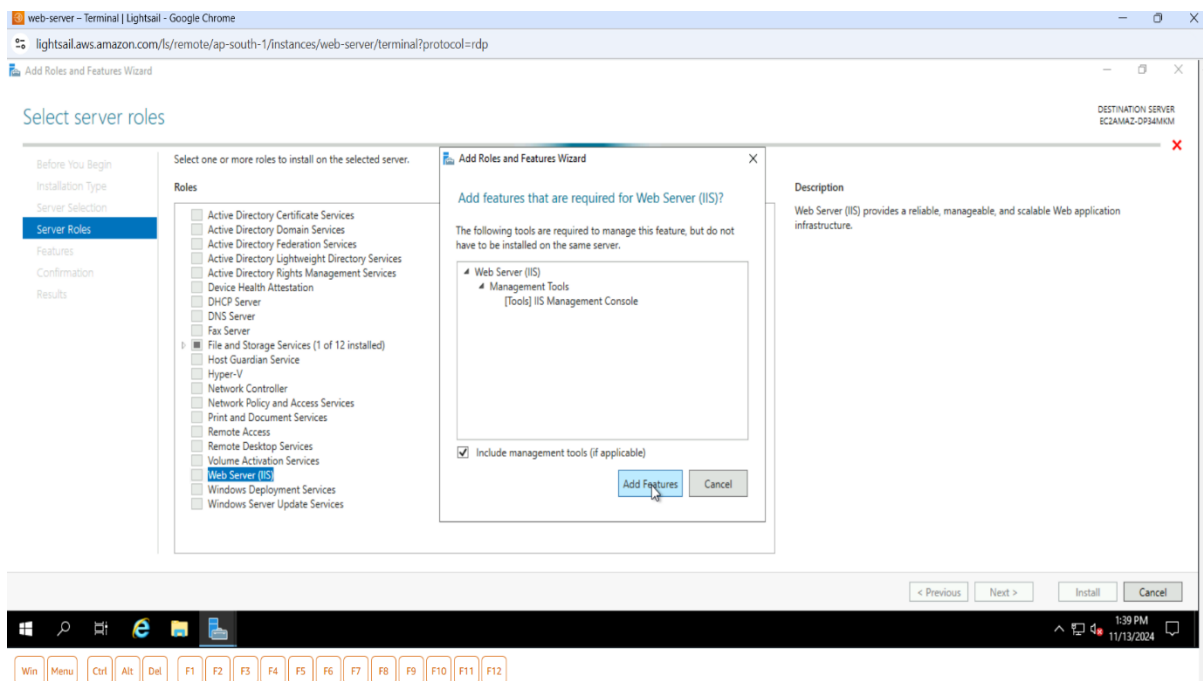
STEP 6: Select Role-based or feature-based installation for the installation type and go for **next**.



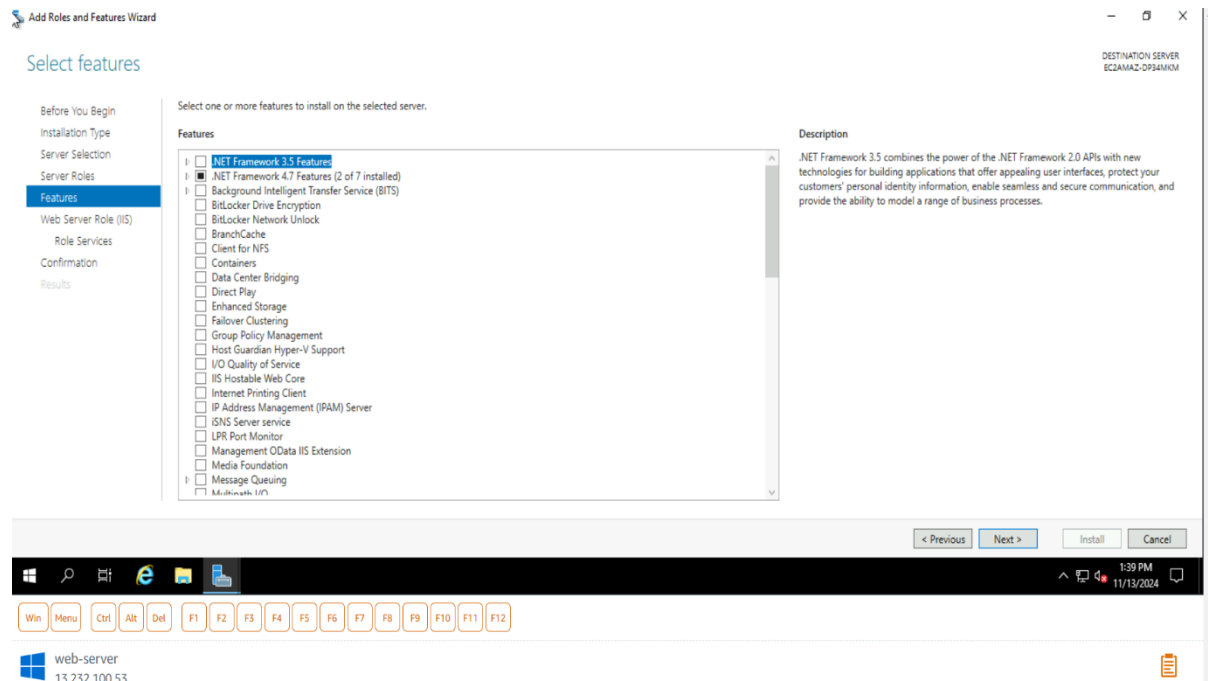
STEP 7: For server selection, select a server from the server pool and go for **next**.



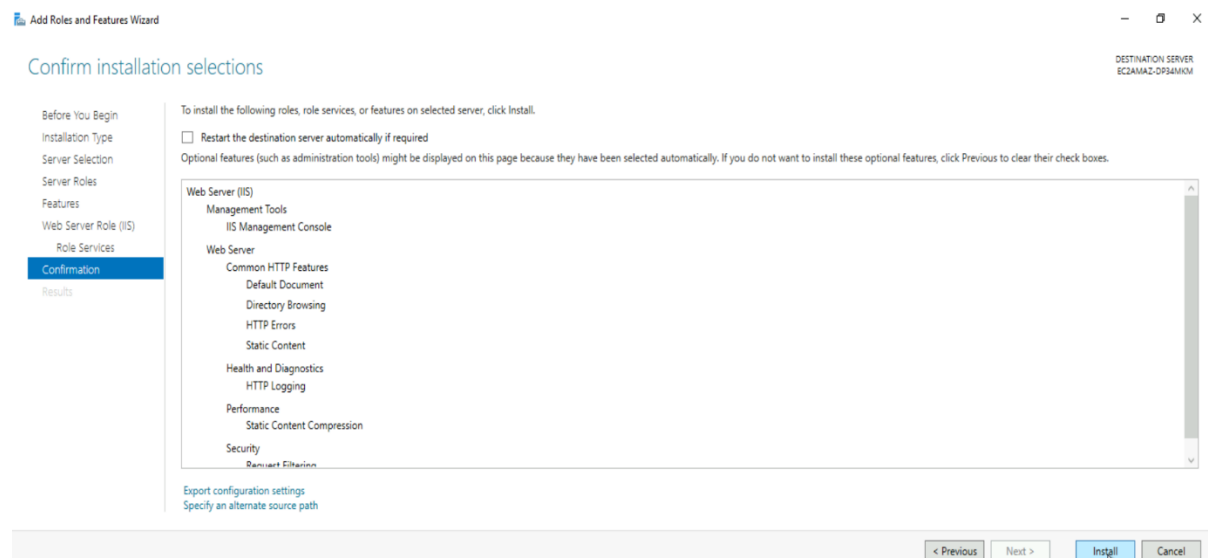
STEP 8: For server roles selection, select **web server (IIS)** and click on **Add Features** to add the necessary features and continue to click on **next** until the IIS installation process completes.



STEP 9: Check for the features and click **next**.

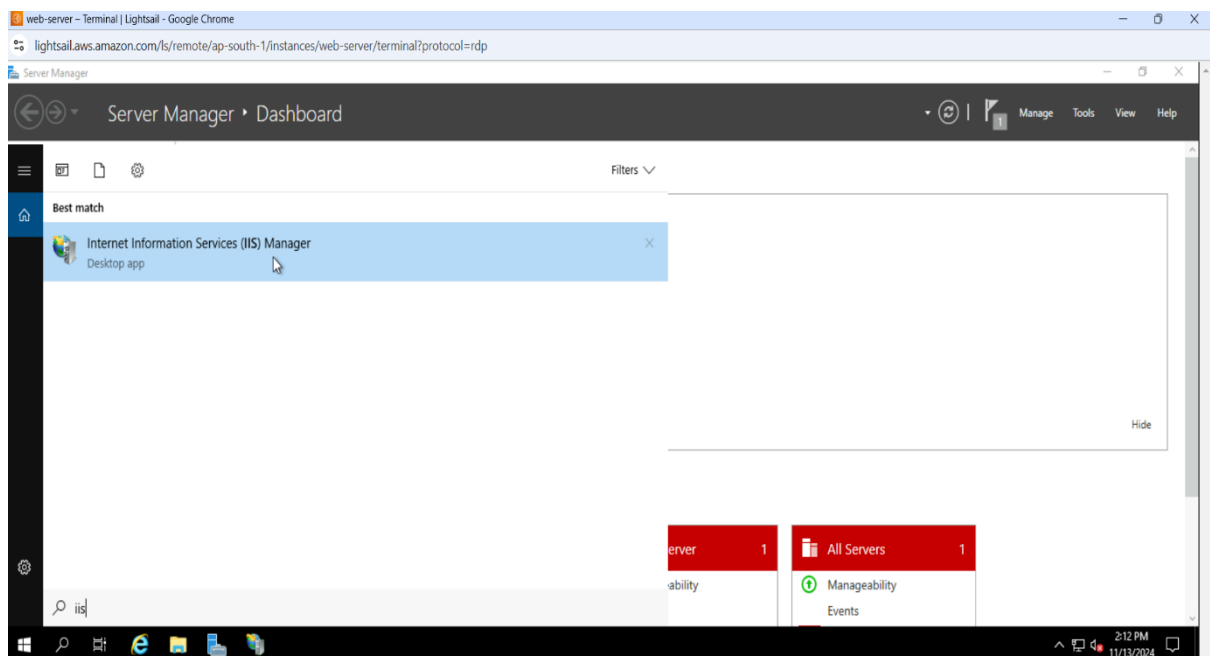


STEP 10: Check and conform the selections and give for **install**.



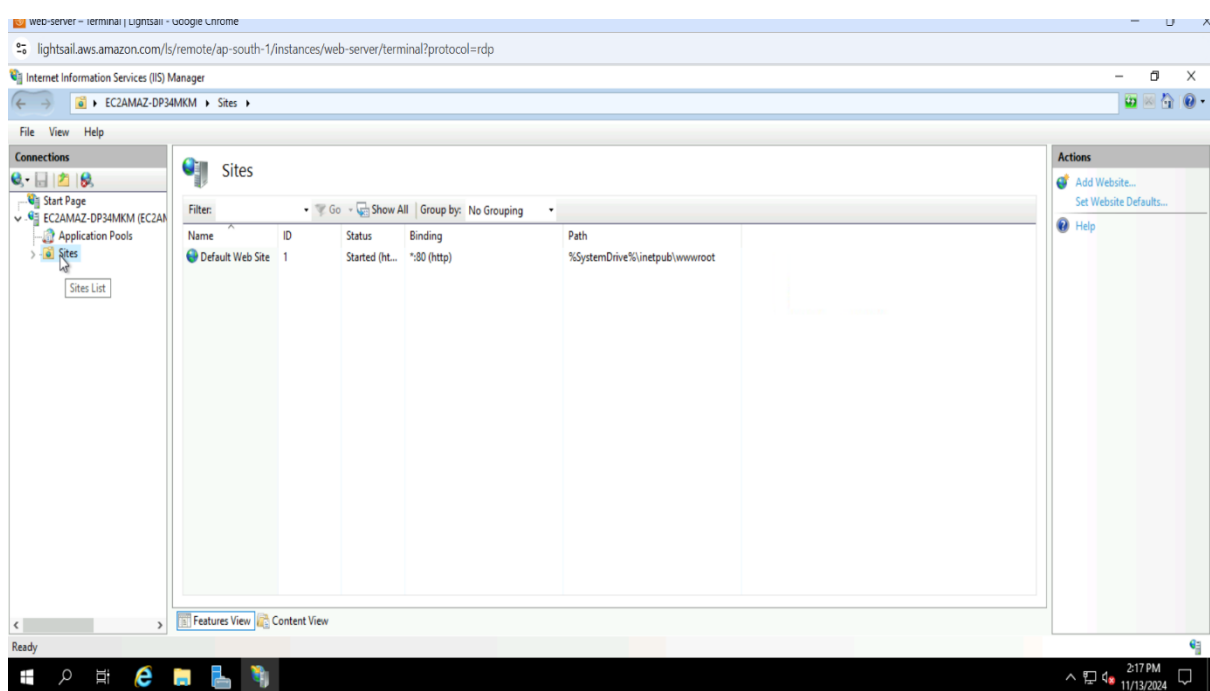
It may take some time to complete the installation process.

STEP 11: Once it completes the installation process, open **IIS Manager** from the start menu.

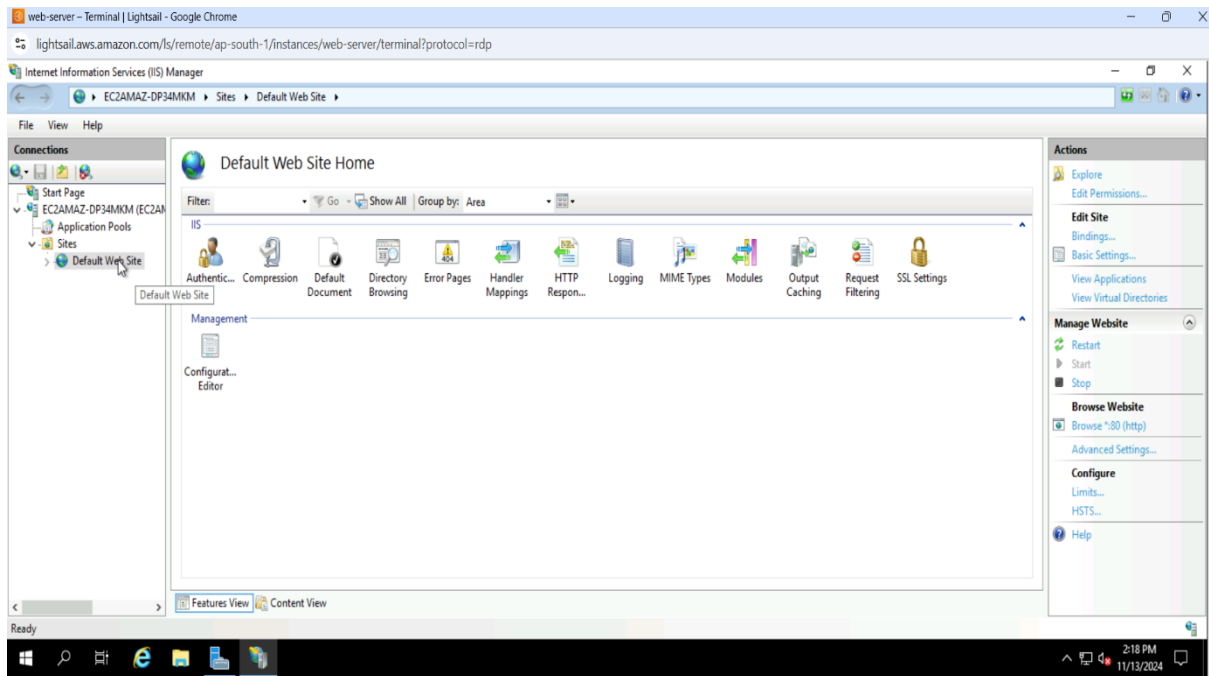


STEP 12: CONFIGURE IIS

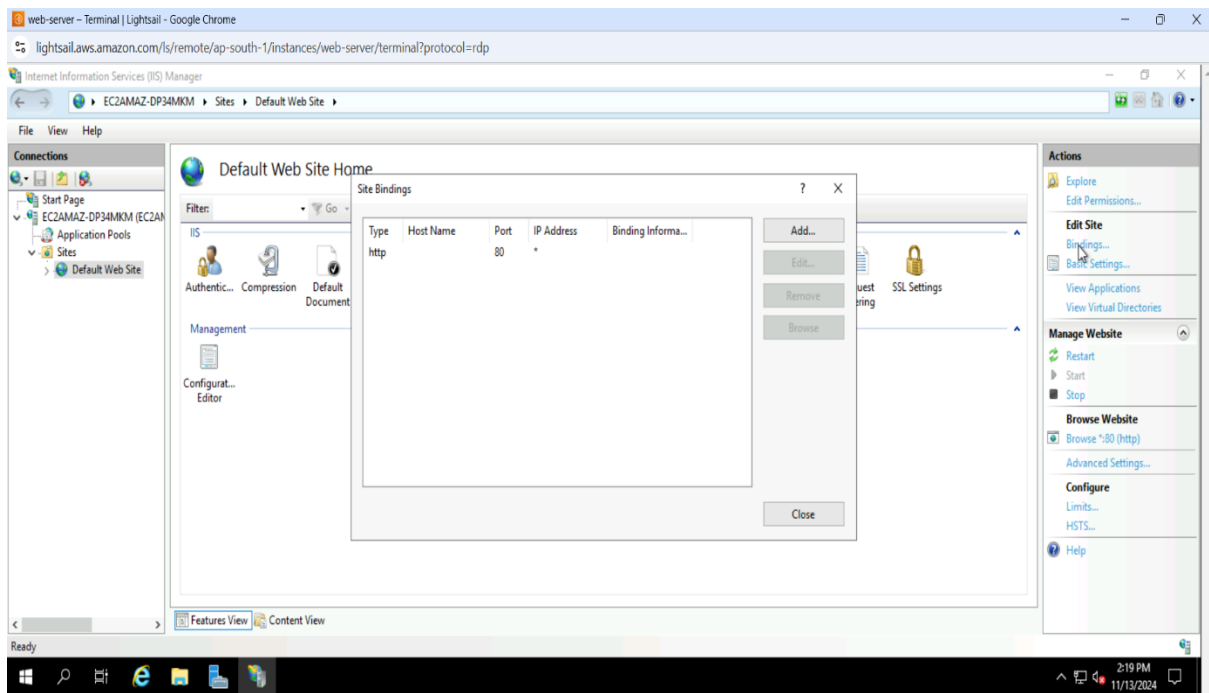
➤ In the left pane, expand your server node and click on **Sites**.



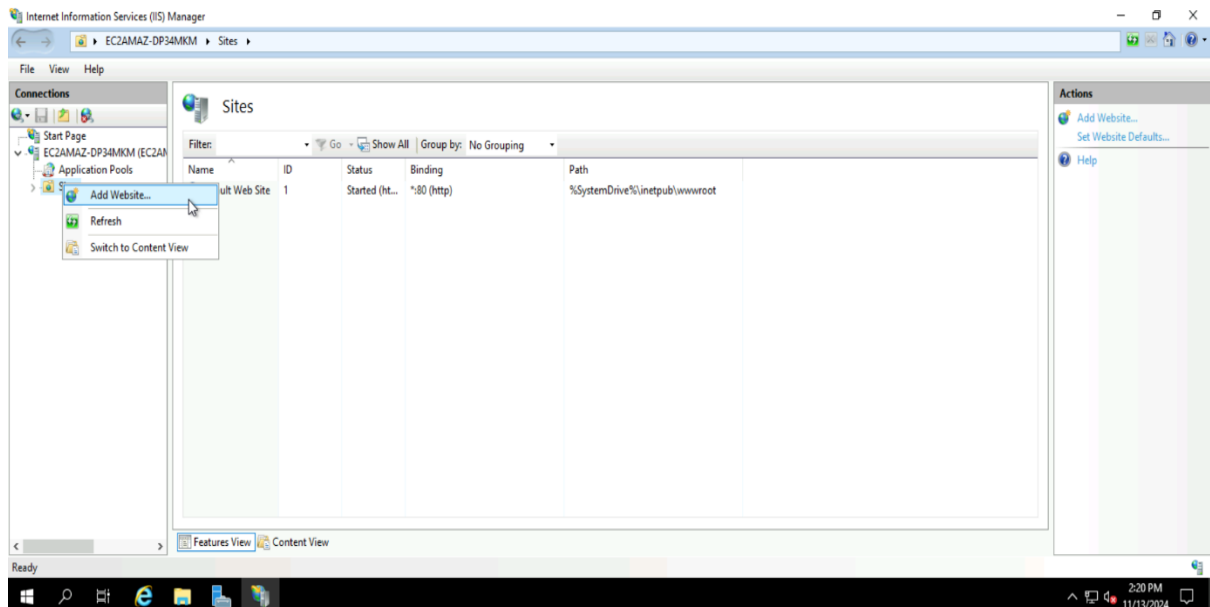
- Now, right-click on **Default Web Site** and select **Edit Bindings**



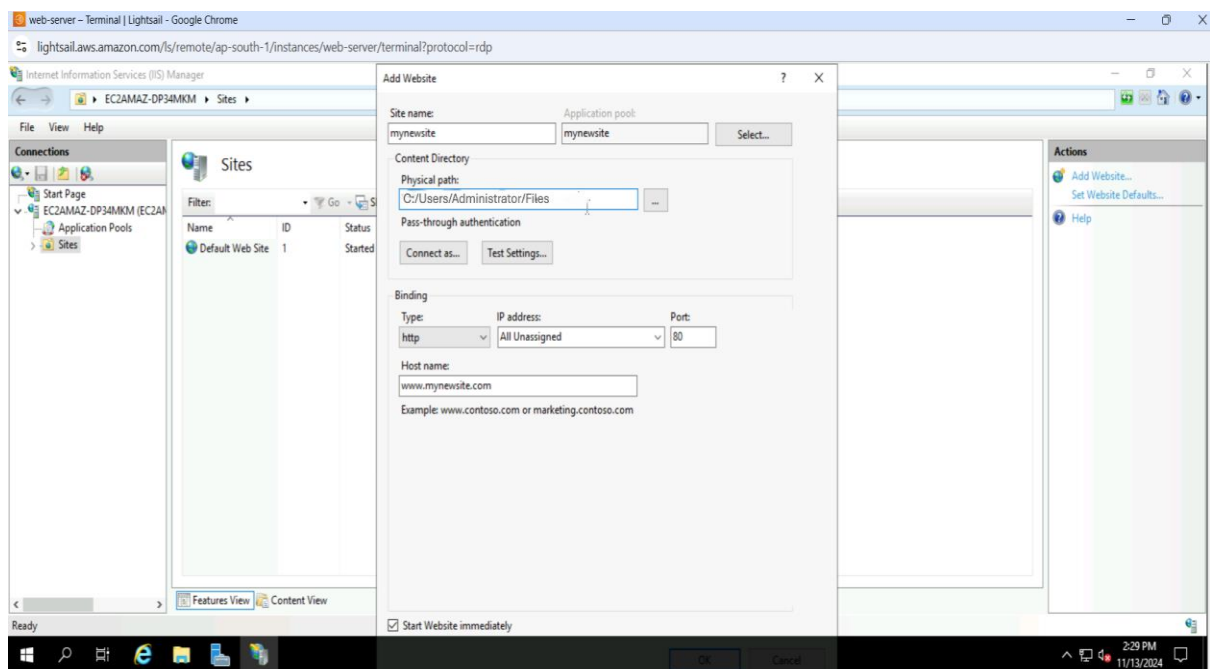
- Ensure that the site is bound to port 80 for HTTP.



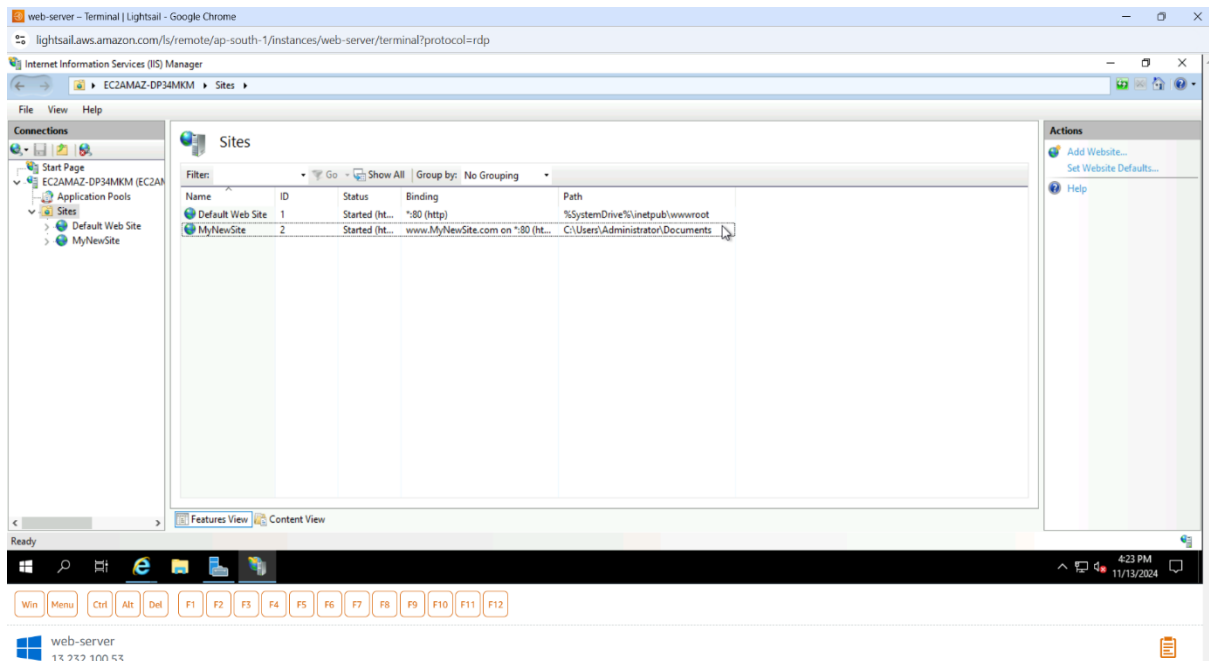
- You can also add a new site by right-clicking on **sites** and selecting **Add website**.



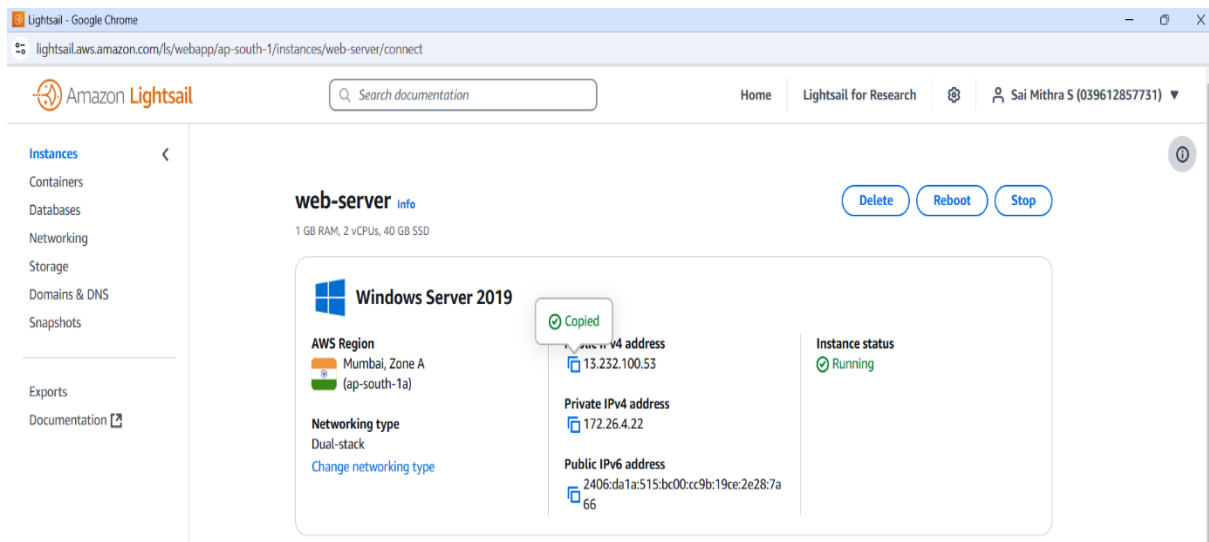
STEP 13: Provide the necessary details like site name, physical path and binding information.



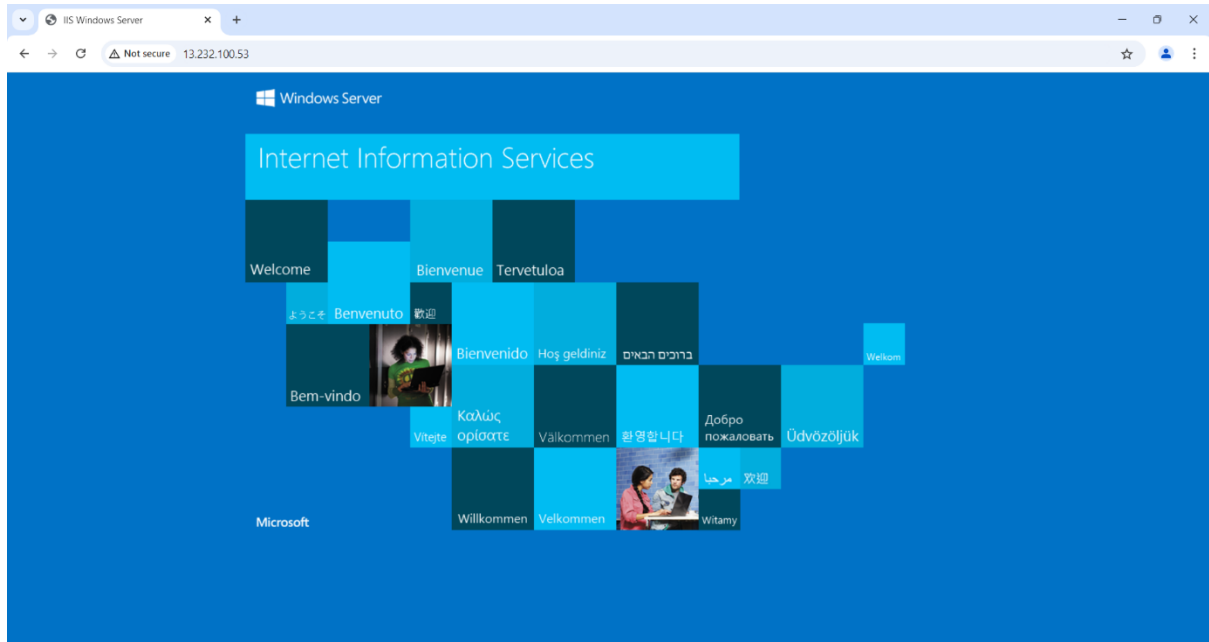
STEP 14: Thus, the website is created successfully



STEP 15: To access your website, copy paste the public IP address of your Lightsail instance in any web browser



STEP 16: By entering the IP address on any web browser, you should be able to access your website and check if everything is configured correctly.



It results as mentioned above.

At last, don't forget to delete the Amazon Lightsail instance that you have created so far.