

REPORT:

Topic: Deploy application in monolithic and microservices architecture.

WorkFlow:

Steps:

1) Create an AWS Free Tier Account:

Go to the AWS website (<https://aws.amazon.com/>).

Click on the "Create an AWS Account" button and follow the registration process to set up your free-tier AWS account.

2) Log in to your AWS Management Console.

Go to the EC2 dashboard. Launch EC2 Instances Launch 1 EC2 instance for the monolithic architecture and 2 EC2 instances for the microservices architecture, all with the t2. micro instance type and using an Ubuntu AMI.

3) Configure Security Groups

Create and configure security groups for each EC2 instance to allow necessary inbound and outbound traffic. For example, you'll need to allow SSH, HTTP, and MySQL traffic.

4) Set Up Monolithic Architecture

On the monolithic EC2 instance, install and configure WordPress and MySQL. Make sure they are running on the same instance.

5) Set Up Microservices Architecture

On one EC2 instance, install and configure WordPress.

On the other EC2 instance, install and configure MySQL.

Configure the WordPress instance to connect to the MySQL instance.

6) Create a Welcome Page

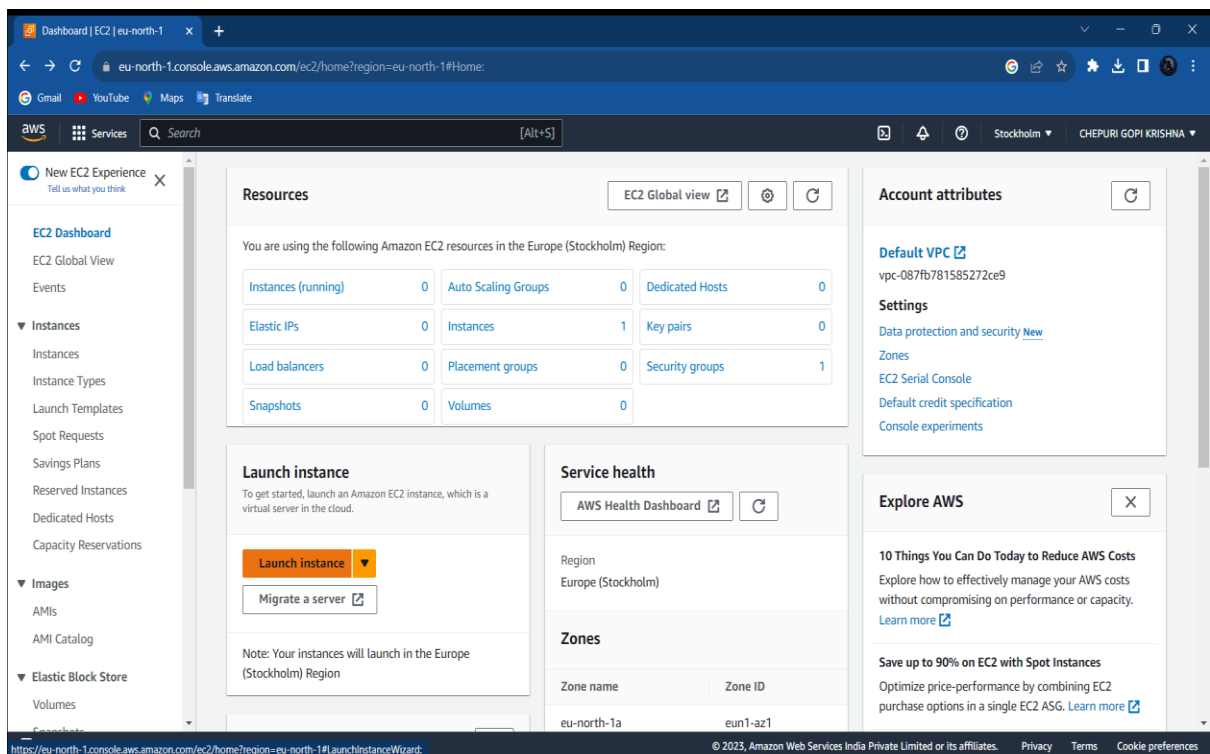
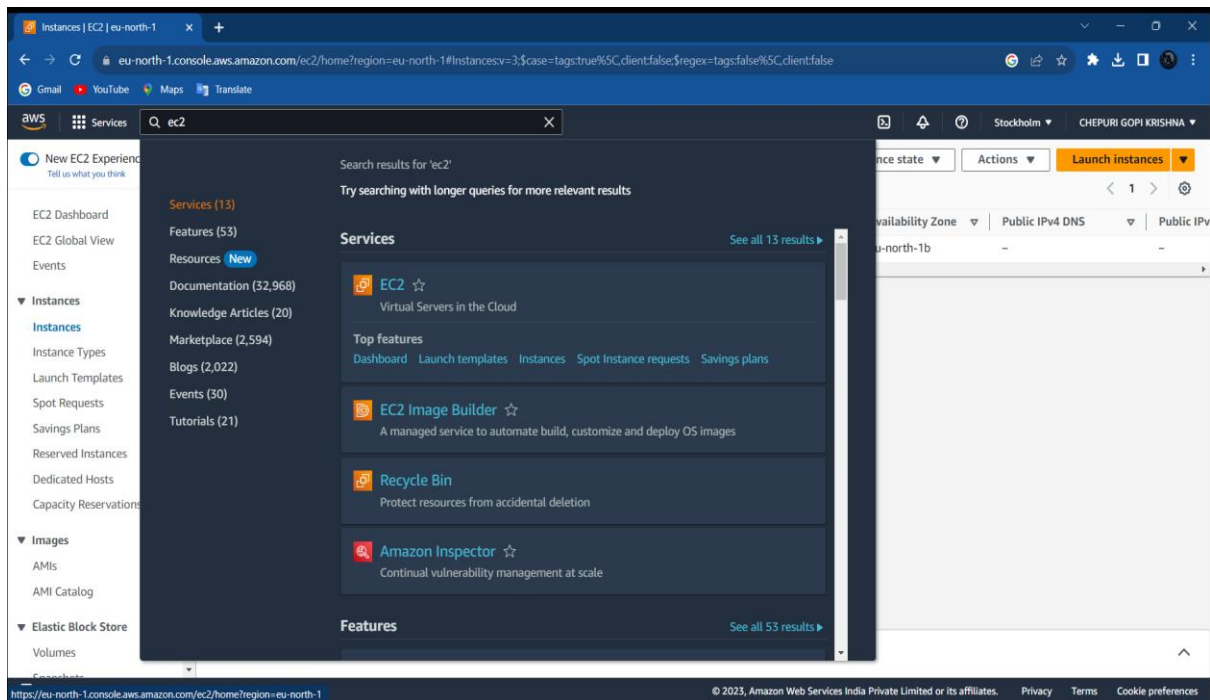
Log in to the WordPress admin panel and create a welcome page that you want to set as the homepage.

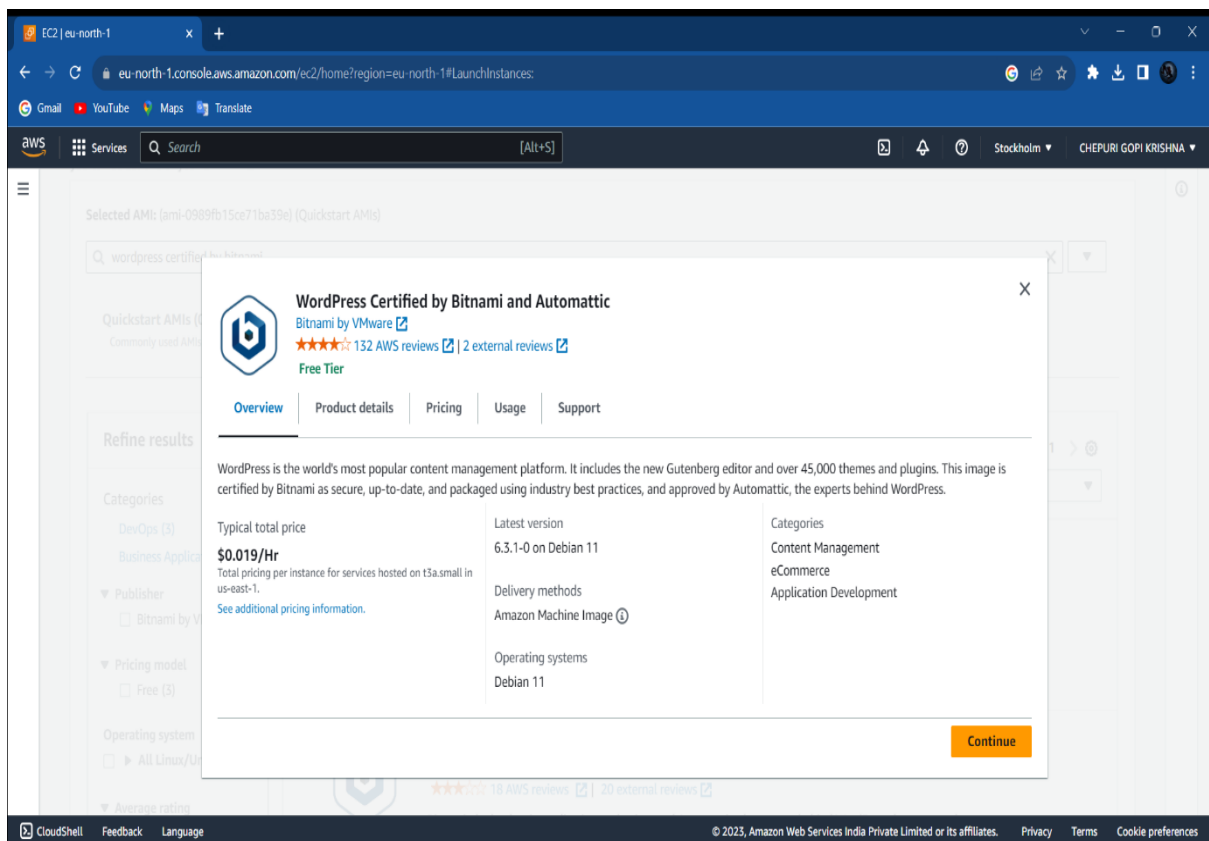
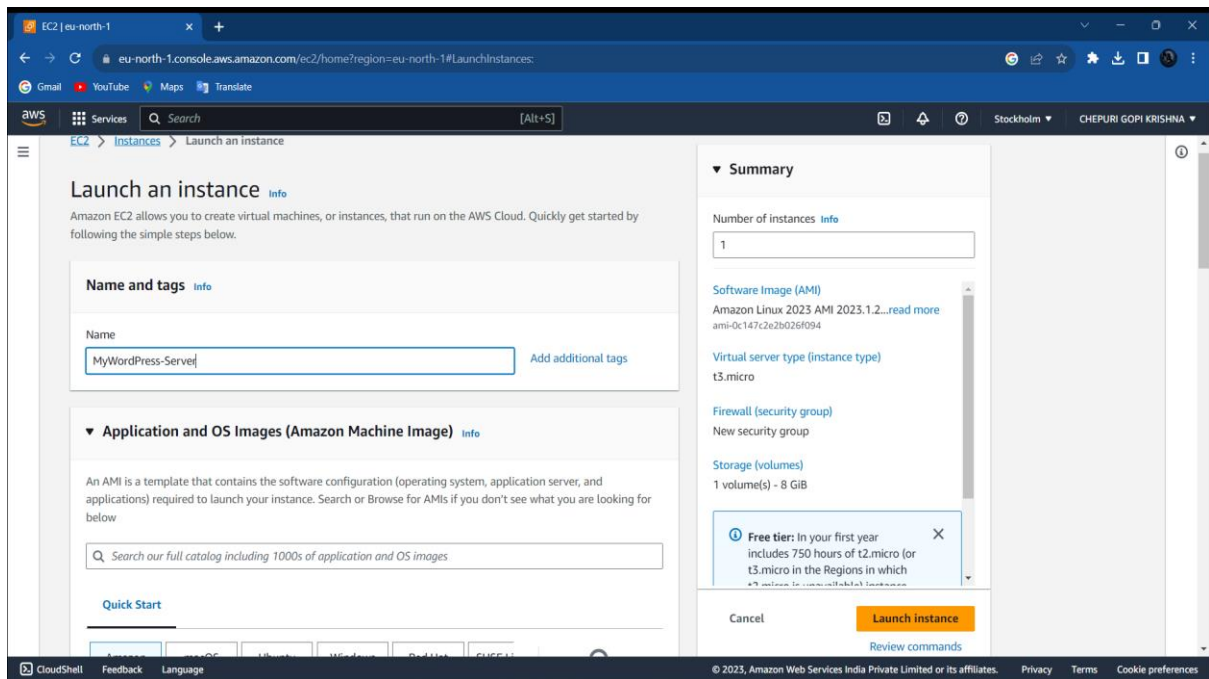
7) Configure WordPress Homepage

Set the welcome page you created as the homepage in WordPress settings.

8) Testing

Access the WordPress site to verify that the welcome page is set as the homepage.





CREAT

The screenshot shows the Amazon RDS console in the eu-north-1 region. A green notification banner at the top states "Successfully created database demodb" and provides a link to "View connection details". Below the banner, the "Databases (1)" section shows a table with one entry:

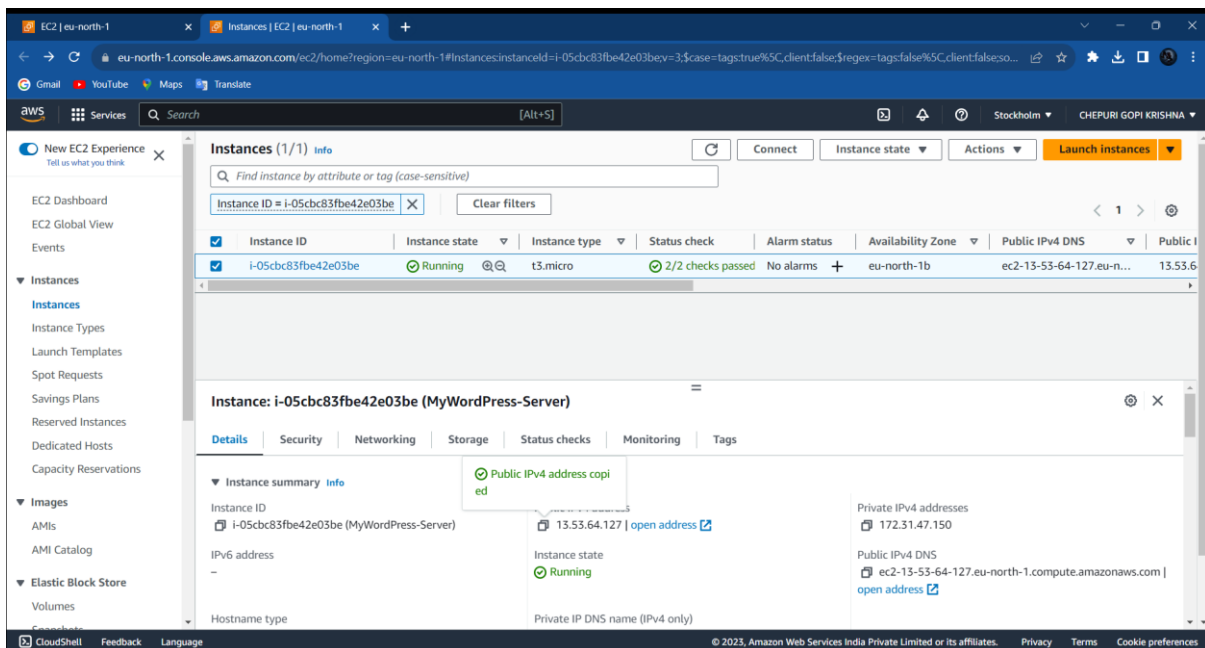
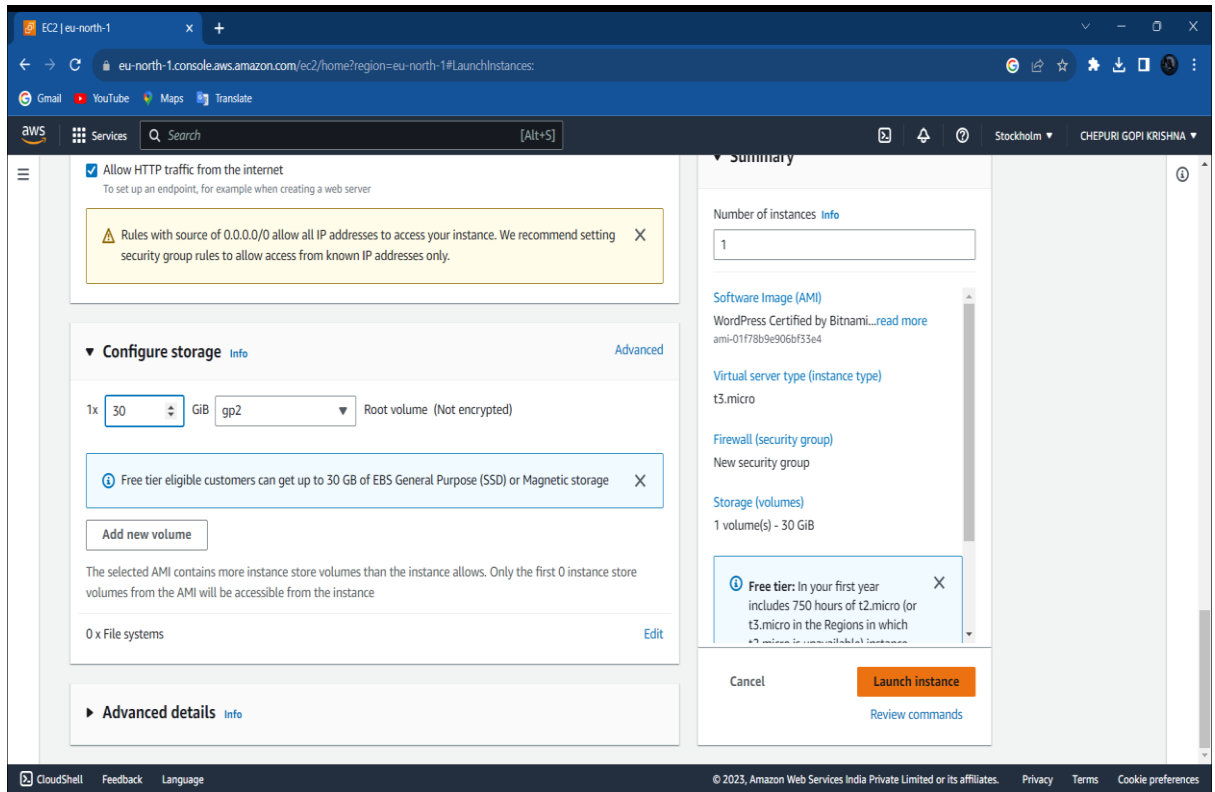
DB identifier	Status	Role	Engine	Region & AZ	Size	CPU	Current activity	Maintenance
demodb	Back-up	Instance	MySQL Community	eu-north-1c	db.t3.micro	-	-	none

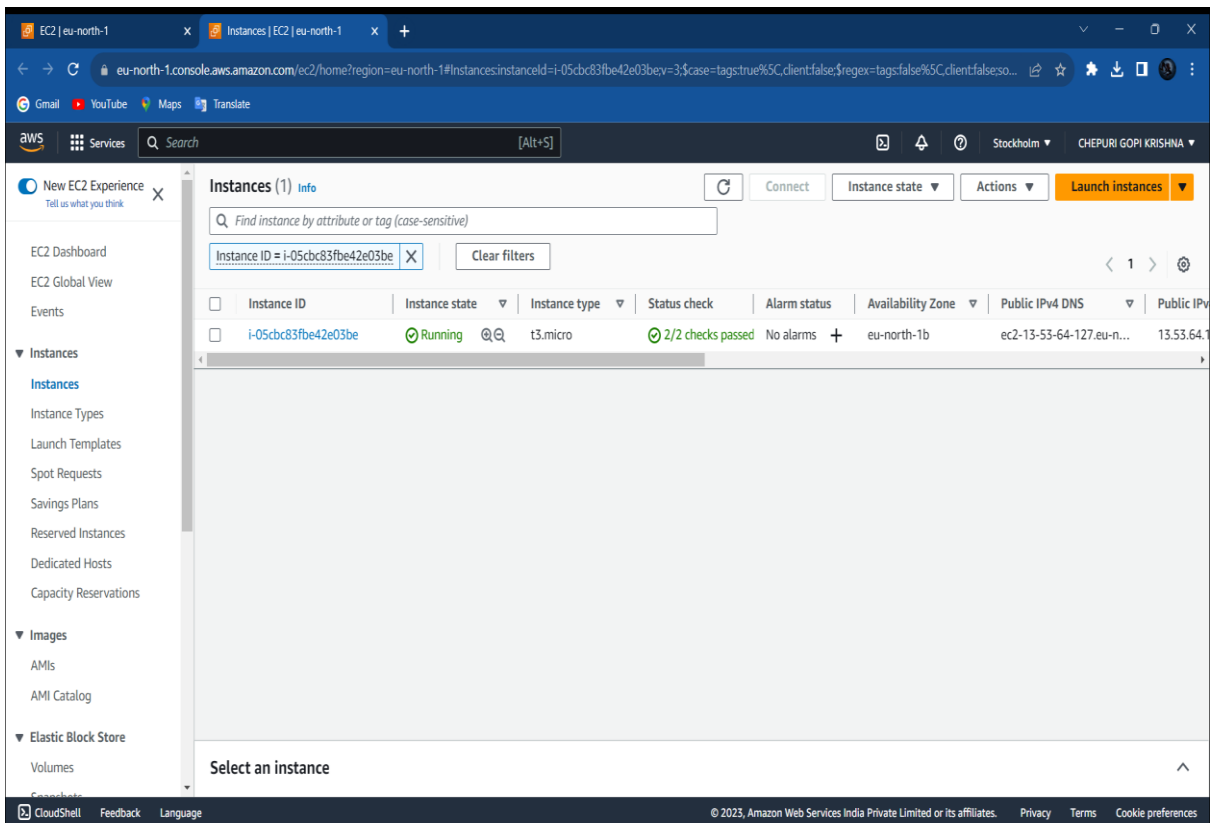
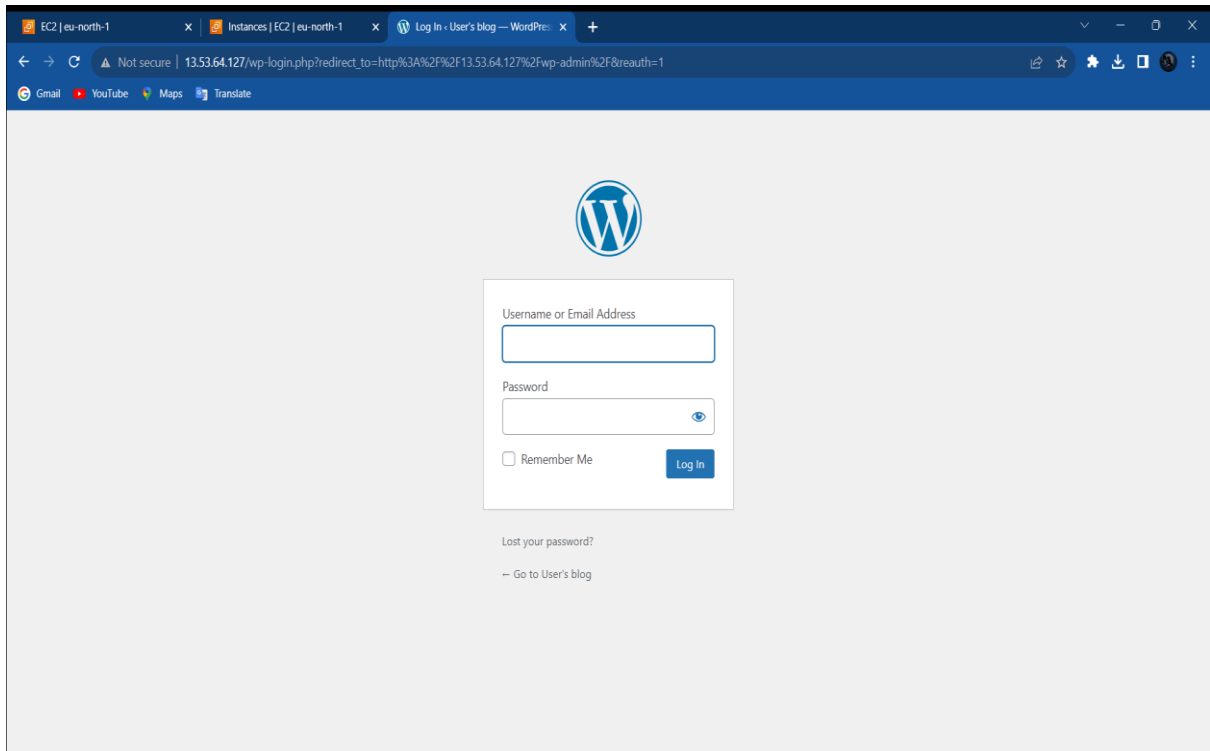
The left sidebar contains navigation links for various RDS features, and the bottom footer shows the AWS logo, CloudShell, Feedback, and Language options.

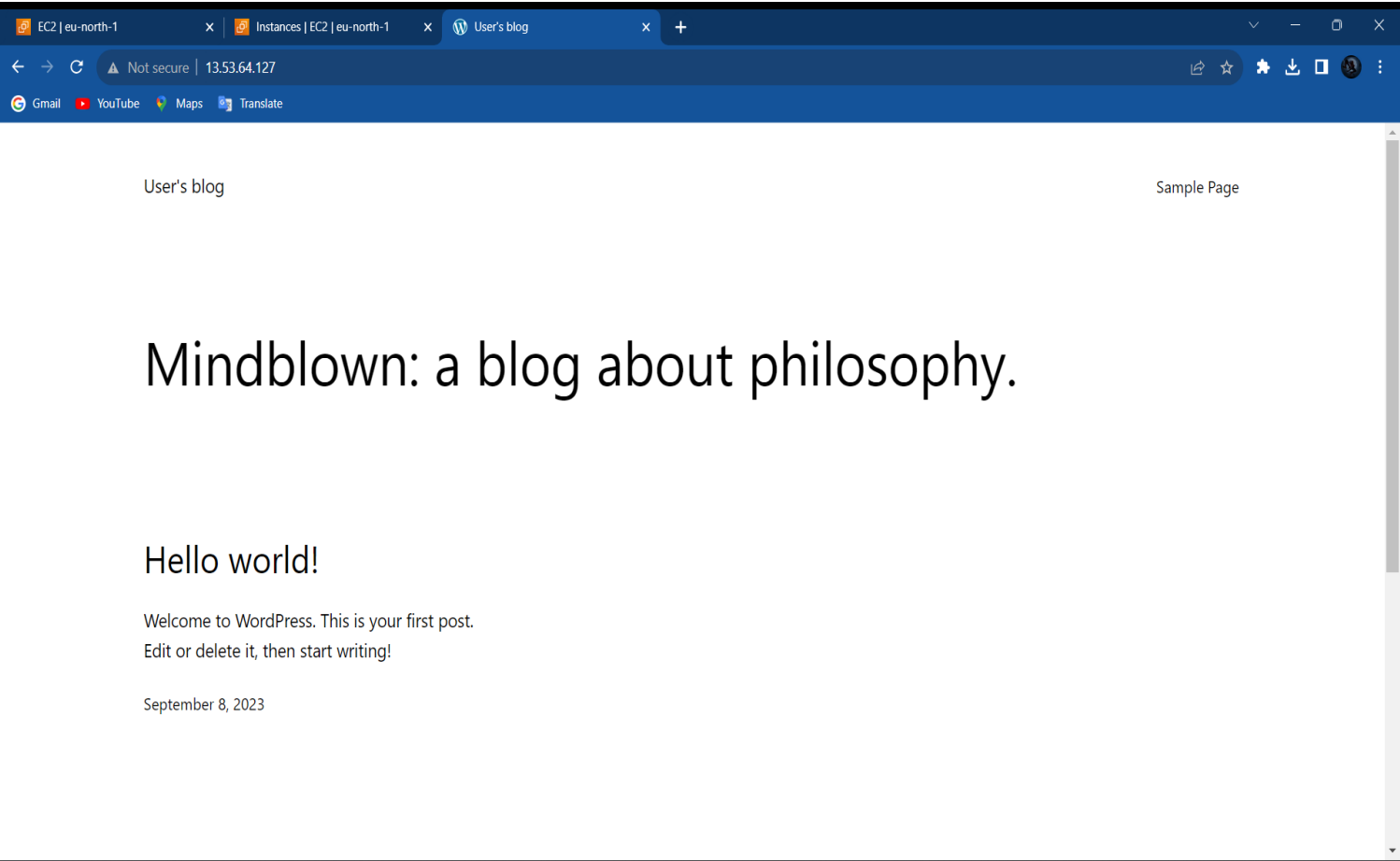
The screenshot shows the Amazon EC2 console in the eu-north-1 region. A green notification banner at the top states "Success" and "Successfully initiated launch of instance (i-05cb83f8e42e03be)". Below the banner, the "Launch log" section is visible. The "Next Steps" section provides a search bar and four recommended actions:

- Create billing and free tier usage alerts**: To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds. [Create billing alerts](#)
- Connect to your instance**: Once your instance is running, log into it from your local computer. [Connect to instance](#) [Learn more](#)
- Connect an RDS database**: Configure the connection between an EC2 instance and a database to allow traffic flow between them. [Connect an RDS database](#) [Create a new RDS database](#) [Learn more](#)
- Create EBS snapshot policy**: Create a policy that automates the creation, retention, and deletion of EBS snapshots. [Create EBS snapshot policy](#)

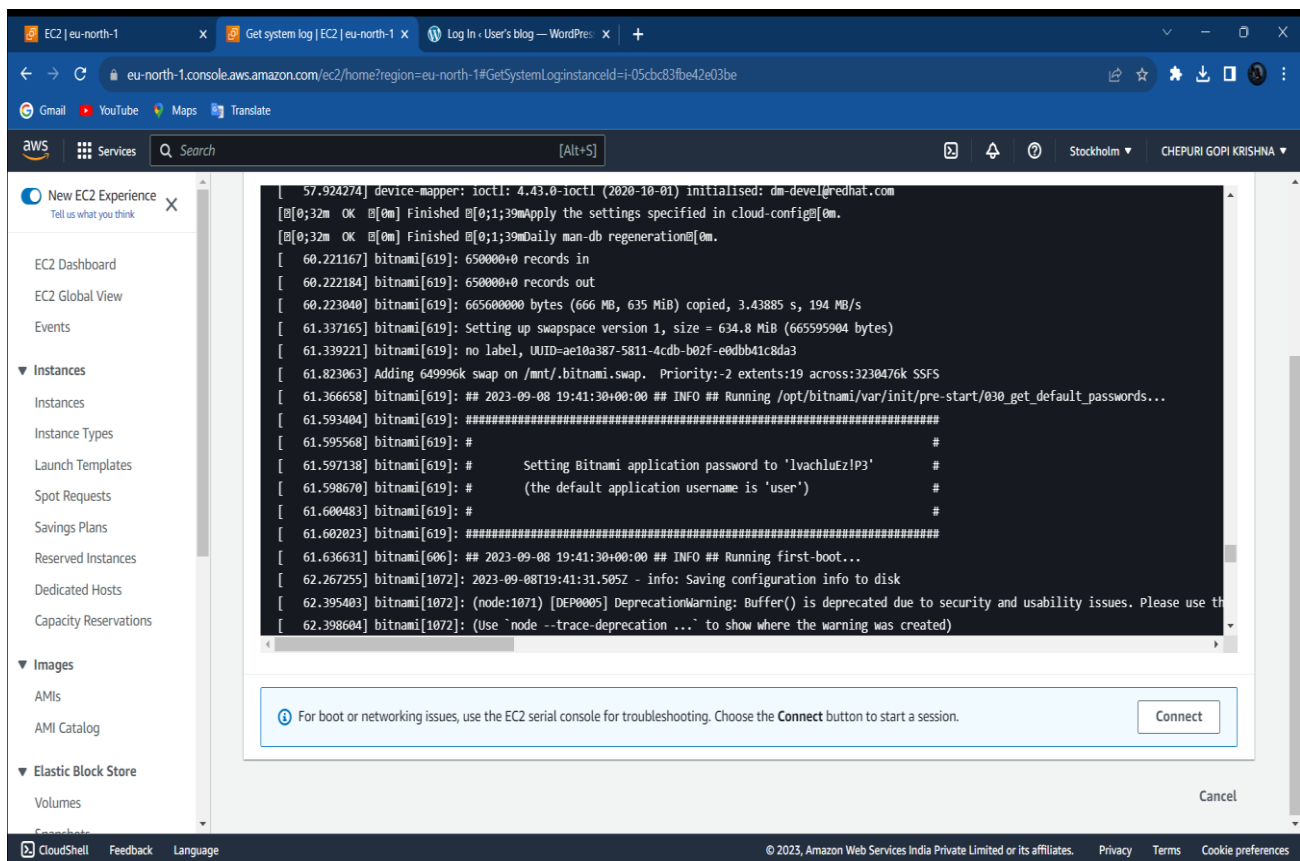
The bottom footer shows the AWS logo, CloudShell, Feedback, and Language options.



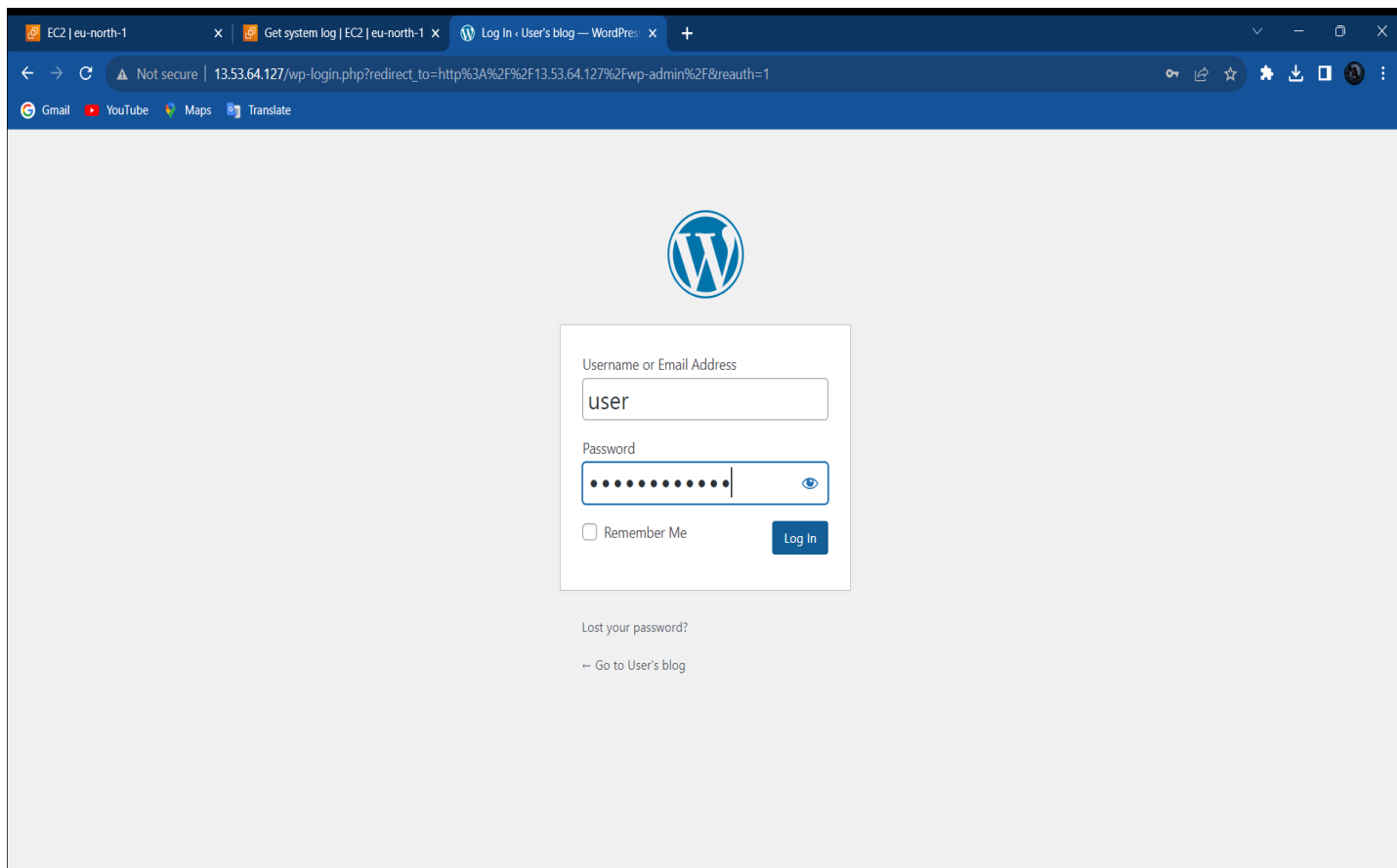




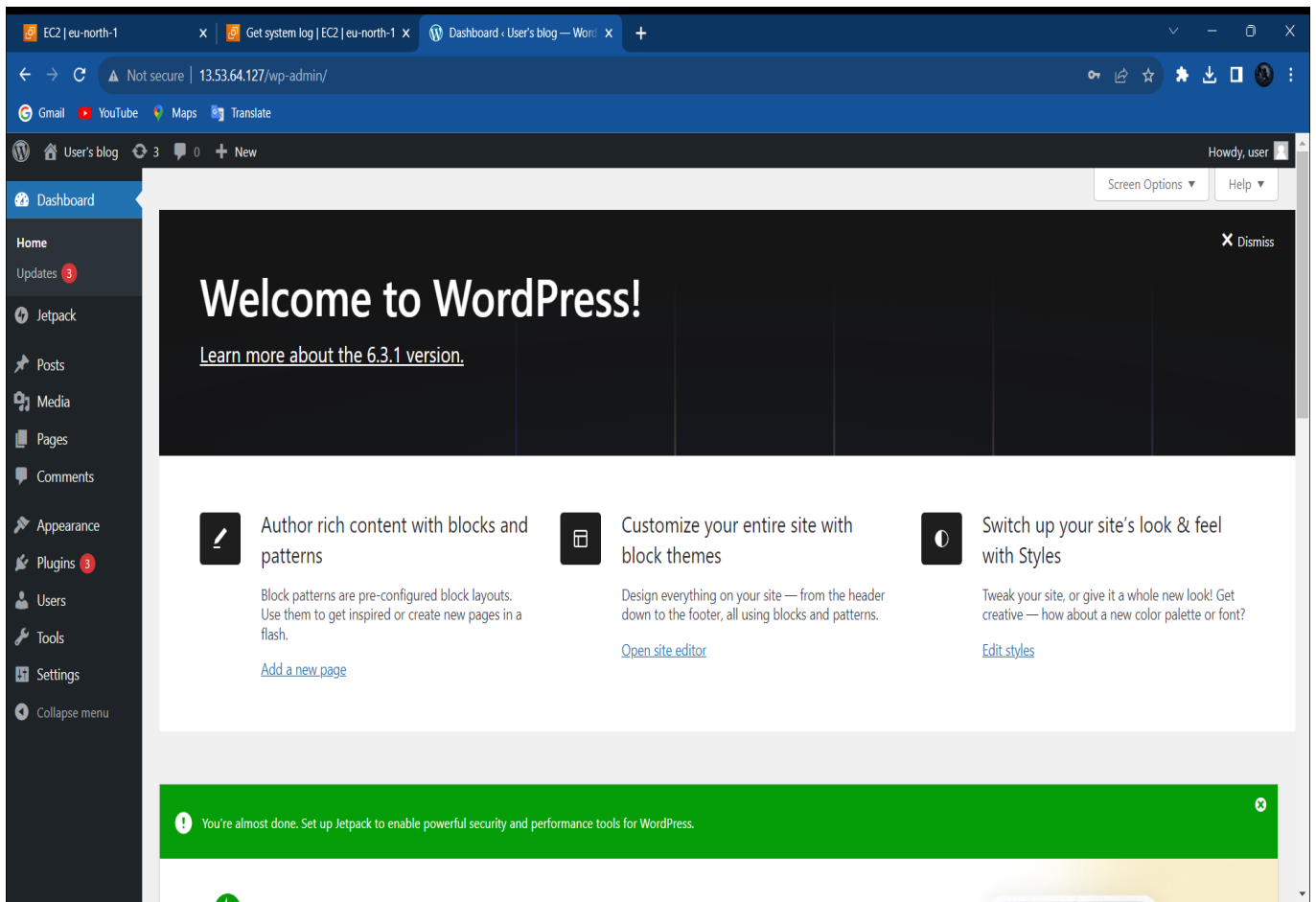
TESTING Public IPv4 address ON NEW WINDOW TAB



FINDING USERNAME AND PASSWORD



TRYING TO LOGIN BY USING USER ID AND PASSWORD.



HENCE WEB PAGE IS SUCCESSFULLY CREATED BY USING EC2 instance.