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 InstancesLaunch 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

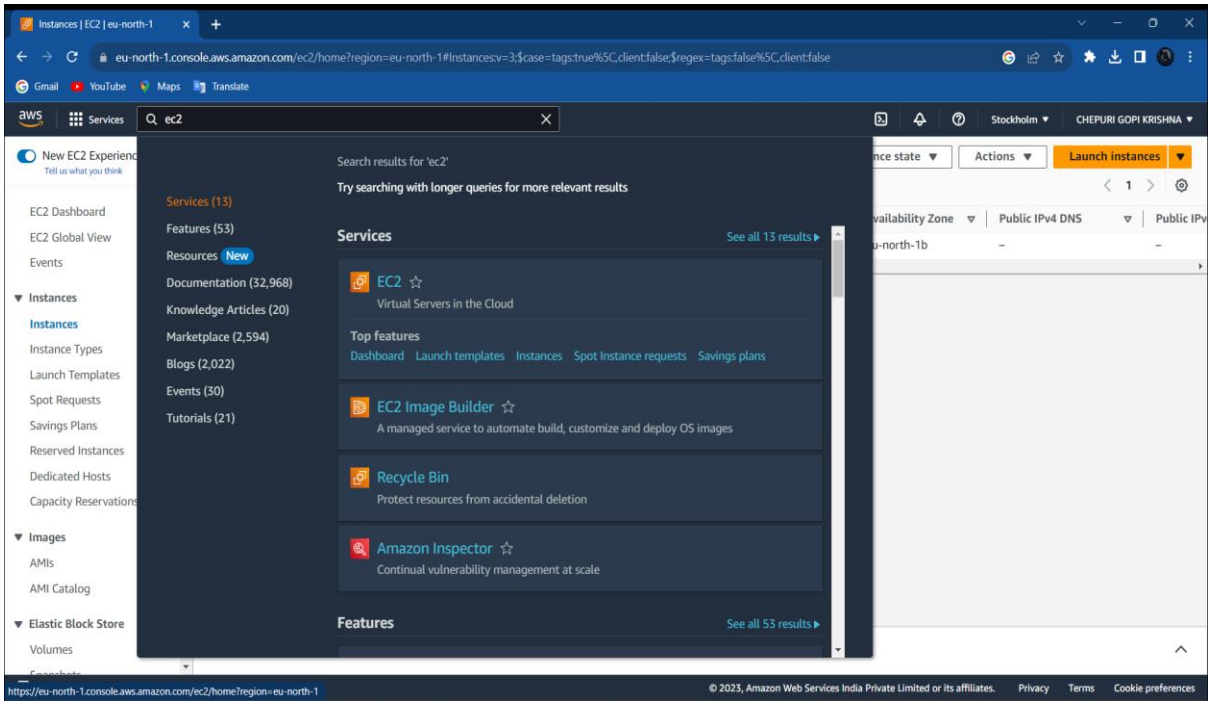
Log in to the WordPress admin panel and create a welcome page that you want to set as the homepage.

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.


Instances | EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
Gmail
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Translate
Services
ec2
Stockholm
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New EC2 Experienc
Tell us what you think
Search results for 'ec2'
Try searching with longer queries for more relevant results
Services (13)
Features (53)
Resources New
Documentation (32,968)
Knowledge Articles (20)
Marketplace (2,594)
Blogs (2,022)
Events (30)
Tutorials (21)
Services
See all 13 results
EC2
Virtual Servers in the Cloud
Top features
Dashboard
Launch templates
Instances
Spot Instance requests
Savings plans
EC2 Image Builder
A managed service to automate build, customize and deploy OS images
Recycle Bin
Protect resources from accidental deletion
Amazon Inspector
Continual vulnerability management at scale
Features
See all 53 results
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Actions
Launch instances
Public IPv4 DNS
u-north-1b
https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1
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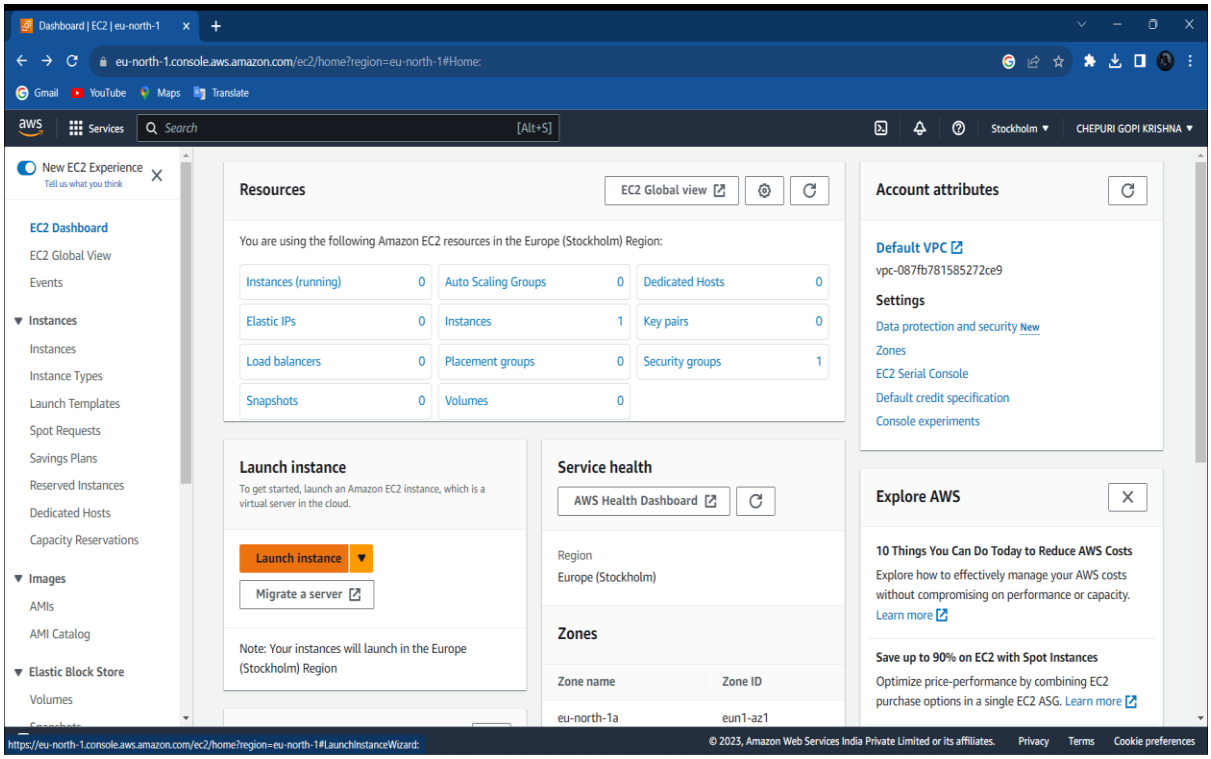
Dashboard | EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Home:
Gmail
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Stockholm
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New EC2 Experience
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EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Resources
EC2 Global view
You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:
Instances (running) 0
Auto Scaling Groups 0
Dedicated Hosts 0
Elastic IPs 0
Instances 1
Key pairs 0
Load balancers 0
Placement groups 0
Security groups 1
Snapshots 0
Volumes 0
Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.
Launch instance
Migrate a server
Note: Your instances will launch in the Europe (Stockholm) Region
Service health
AWS Health Dashboard
Region
Europe (Stockholm)
Zones
Zone name
Zone ID
eu-north-1a
eun1-az1
Account attributes
Default VPC
vpc-087fb781585272ce9
Settings
Data protection and security New
Zones
EC2 Serial Console
Default credit specification
Console experiments
Explore AWS
10 Things You Can Do Today to Reduce AWS Costs
Explore how to effectively manage your AWS costs without compromising on performance or capacity.
Learn more
Save up to 90% on EC2 with Spot Instances
Optimize price-performance by combining EC2 purchase options in a single EC2 ASG. Learn more
https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstanceWizard:
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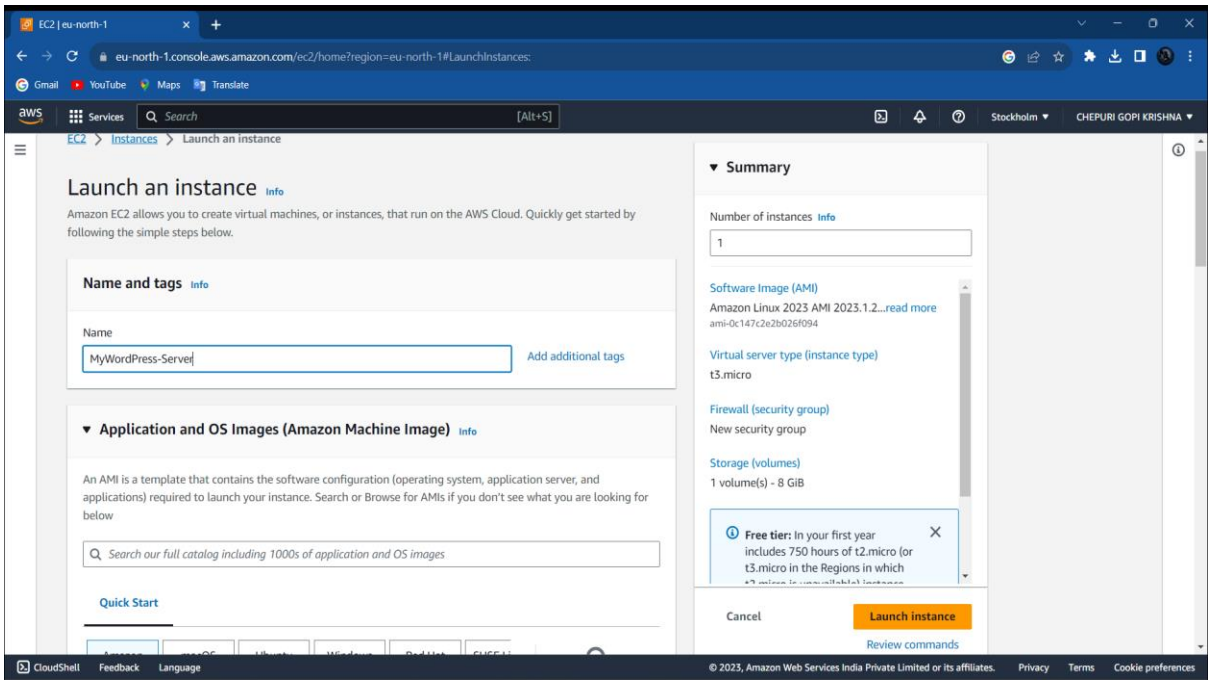
EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:
Gmail
YouTube
Maps
Translate
Services
Search
[Alt+S]
Stockholm
CHEPURI GOPI KRISHNA
EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
MyWordPress-Server
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
Search our full catalog including 1000s of application and OS images
Quick Start
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.1.2...read more
ami-0c147c2e2b026f094
Virtual server type (instance type)
t3.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
Cancel
Launch instance
Review commands
CloudShell
Feedback
Language
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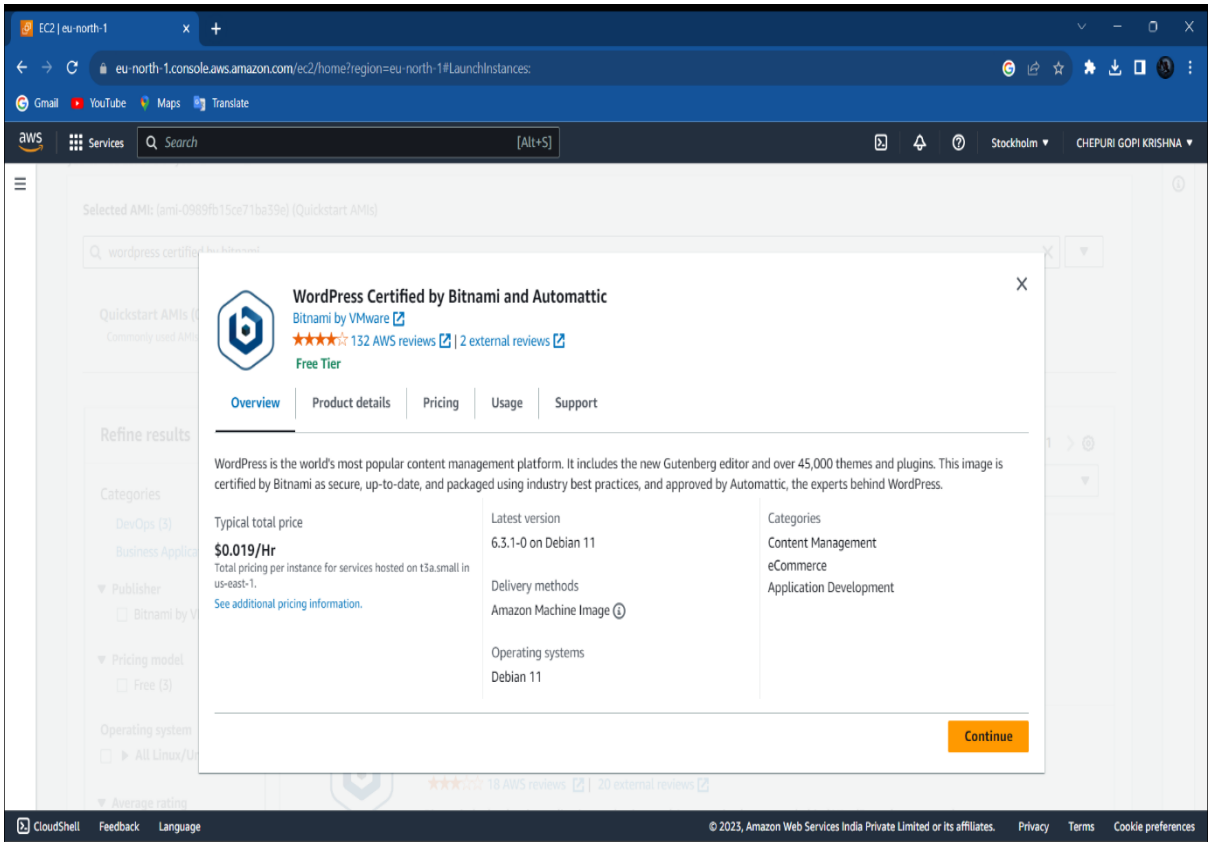
EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:
Gmail
YouTube
Maps
Translate
Services
Search
[Alt+S]
Stockholm
CHEPURI GOPI KRISHNA
WordPress Certified by Bitnami and Automattic
Bitnami by VMware
132 AWS reviews | 2 external reviews
Free Tier
Overview
Product details
Pricing
Usage
Support
WordPress is the world's most popular content management platform. It includes the new Gutenberg editor and over 45,000 themes and plugins. This image is certified by Bitnami as secure, up-to-date, and packaged using industry best practices, and approved by Automattic, the experts behind WordPress.
Typical total price
$0.019/Hr
Total pricing per instance for services hosted on t3a.small in us-east-1.
See additional pricing information.
Latest version
6.3.1-0 on Debian 11
Delivery methods
Amazon Machine Image
Operating systems
Debian 11
Categories
Content Management
eCommerce
Application Development
Continue
CloudShell
Feedback
Language
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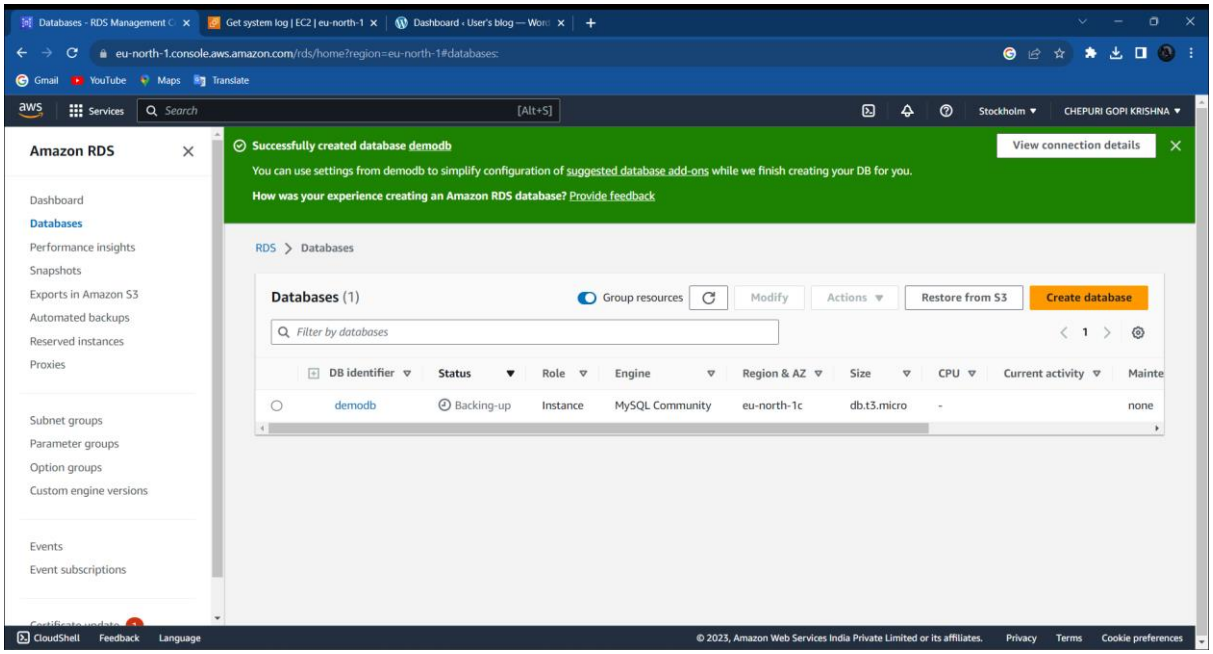
CREAT


Databases - RDS Management
Get system log | EC2 | eu-north-1
Dashboard ‹ User's blog — Wor
eu-north-1.console.aws.amazon.com/rds/home?region=eu-north-1#databases:
Gmail
YouTube
Maps
Translate
aws
Services
Search
[Alt+S]
Stockholm
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Amazon RDS
Dashboard
Databases
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Successfully created database demodb
You can use settings from demodb to simplify configuration of suggested database add-ons while we finish creating your DB for you.
How was your experience creating an Amazon RDS database? Provide feedback
View connection details
RDS > Databases
Databases (1)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region & AZ
Size
CPU
Current activity
Mainte
demodb
Backing-up
Instance
MySQL Community
eu-north-1c
db.t3.micro
-
none
CloudShell
Feedback
Language
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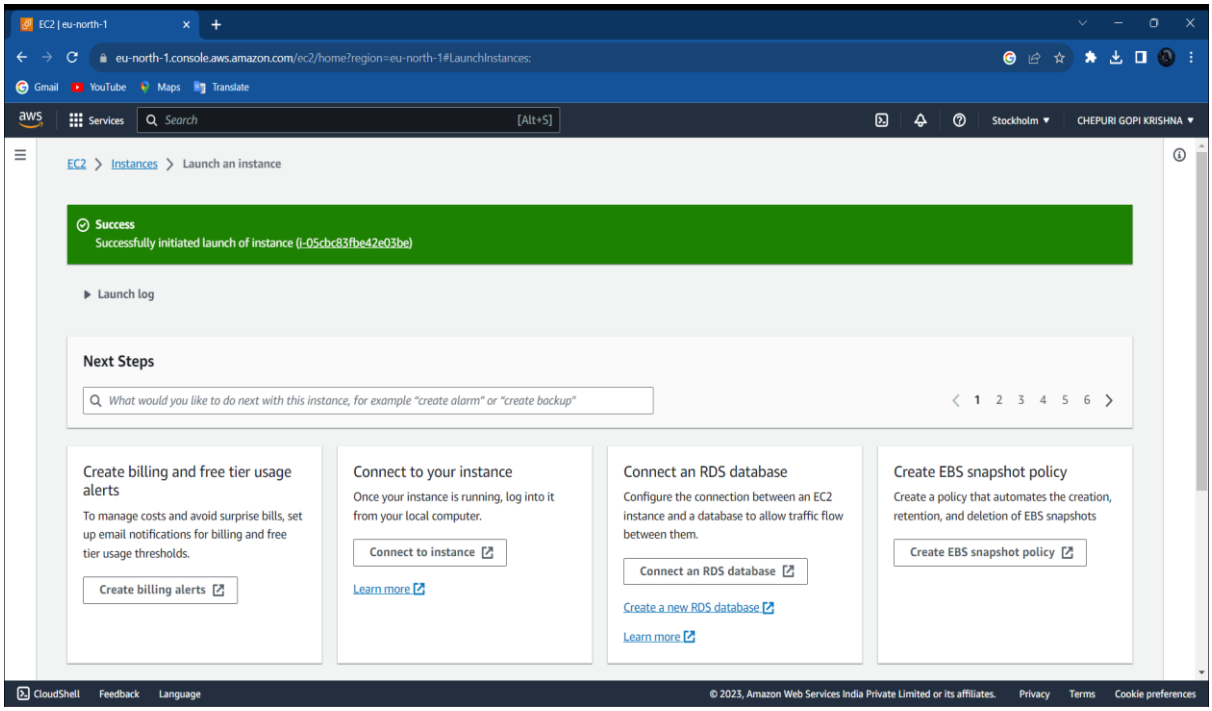
EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:
Gmail
YouTube
Maps
Translate
aws
Services
Search
[Alt+S]
Stockholm
CHEPURI GOPI KRISHNA
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-05cbc83fbe42e03be)
Launch log
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
1 2 3 4 5 6
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
CloudShell
Feedback
Language
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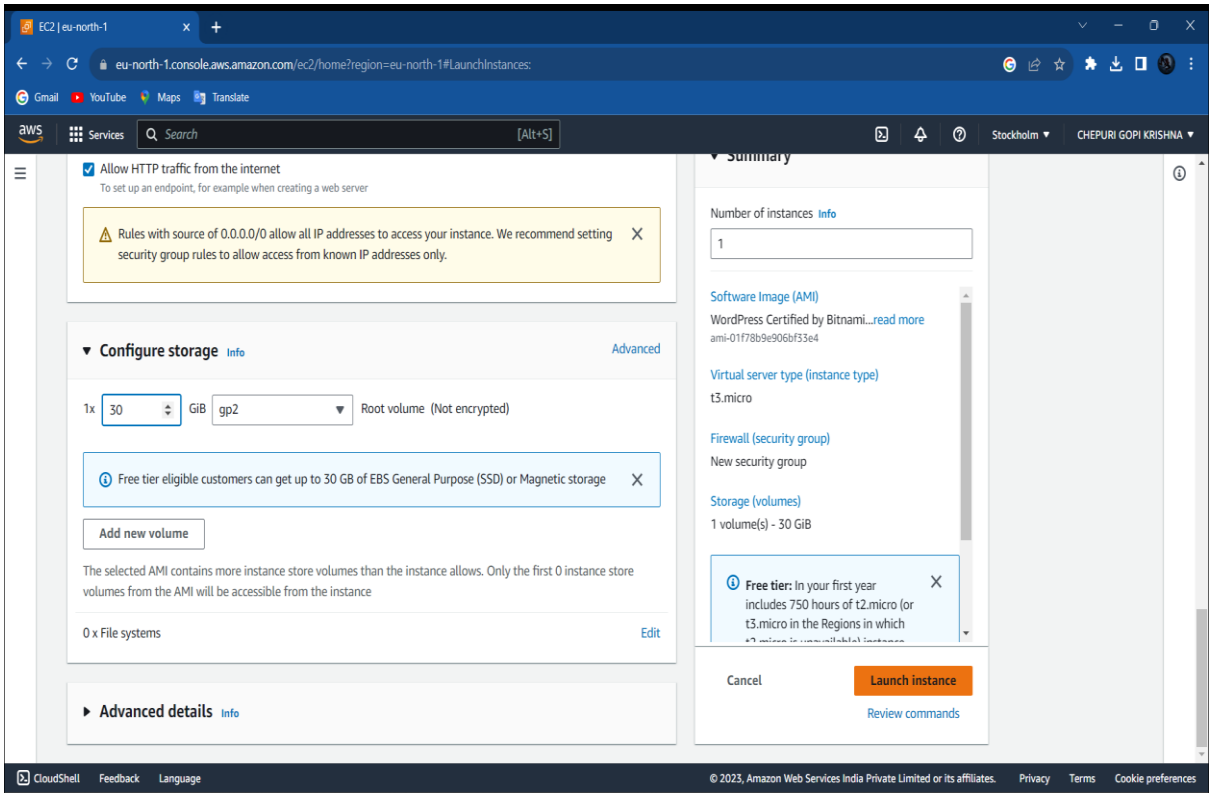
EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:
Gmail YouTube Maps Translate
aws Services Search [Alt+S]
Stockholm CHEPURI GOPI KRISHNA
Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server
Rules with source of 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 30 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
The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
WordPress Certified by Bitnami...read more
ami-01f78b9e906bf33e4
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 30 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which
Cancel
Launch instance
Review commands
CloudShell Feedback Language
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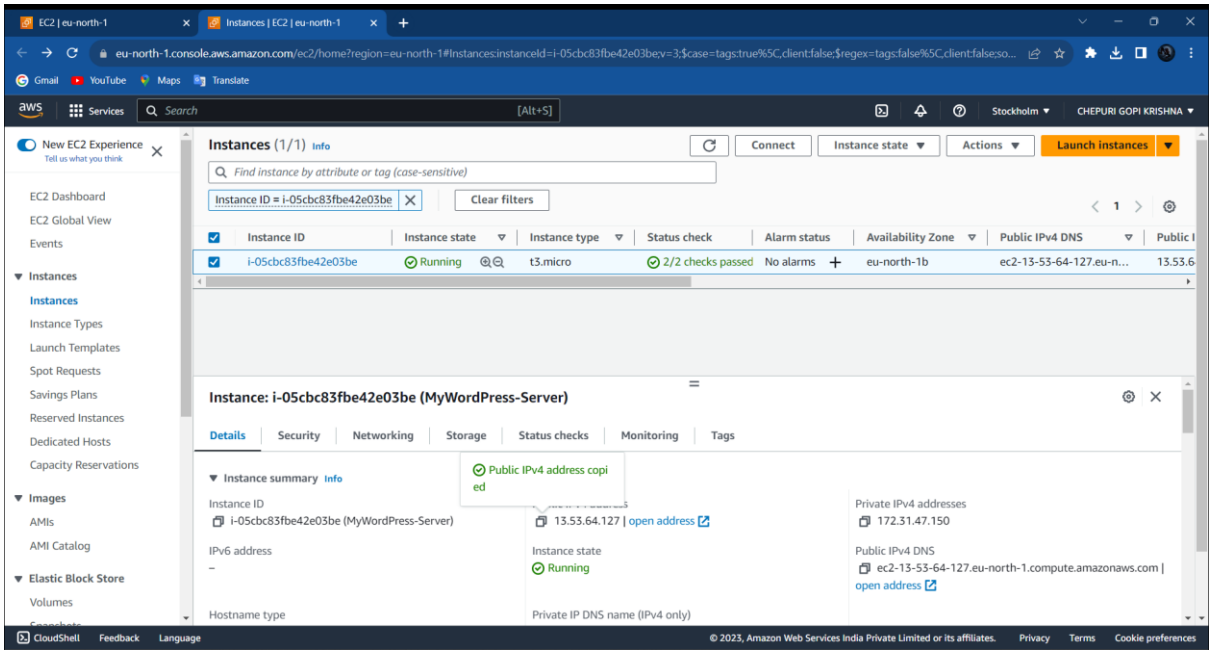
EC2 | eu-north-1
Instances | EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:instanceId=i-05cbc83fbe42e03be;v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false;so...
Gmail YouTube Maps Translate
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New EC2 Experience
Tell us what you think
EC2 Dashboard
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Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Instance ID = i-05cbc83fbe42e03be
Clear filters
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
i-05cbc83fbe42e03be
Running
t3.micro
2/2 checks passed
No alarms
eu-north-1b
ec2-13-53-64-127.eu-n...
Instance: i-05cbc83fbe42e03be (MyWordPress-Server)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Public IPv4 address copied
Instance summary Info
Instance ID
i-05cbc83fbe42e03be (MyWordPress-Server)
13.53.64.127 | open address
Private IPv4 addresses
172.31.47.150
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-13-53-64-127.eu-north-1.compute.amazonaws.com | open address
Hostname type
Private IP DNS name (IPv4 only)
CloudShell Feedback Language
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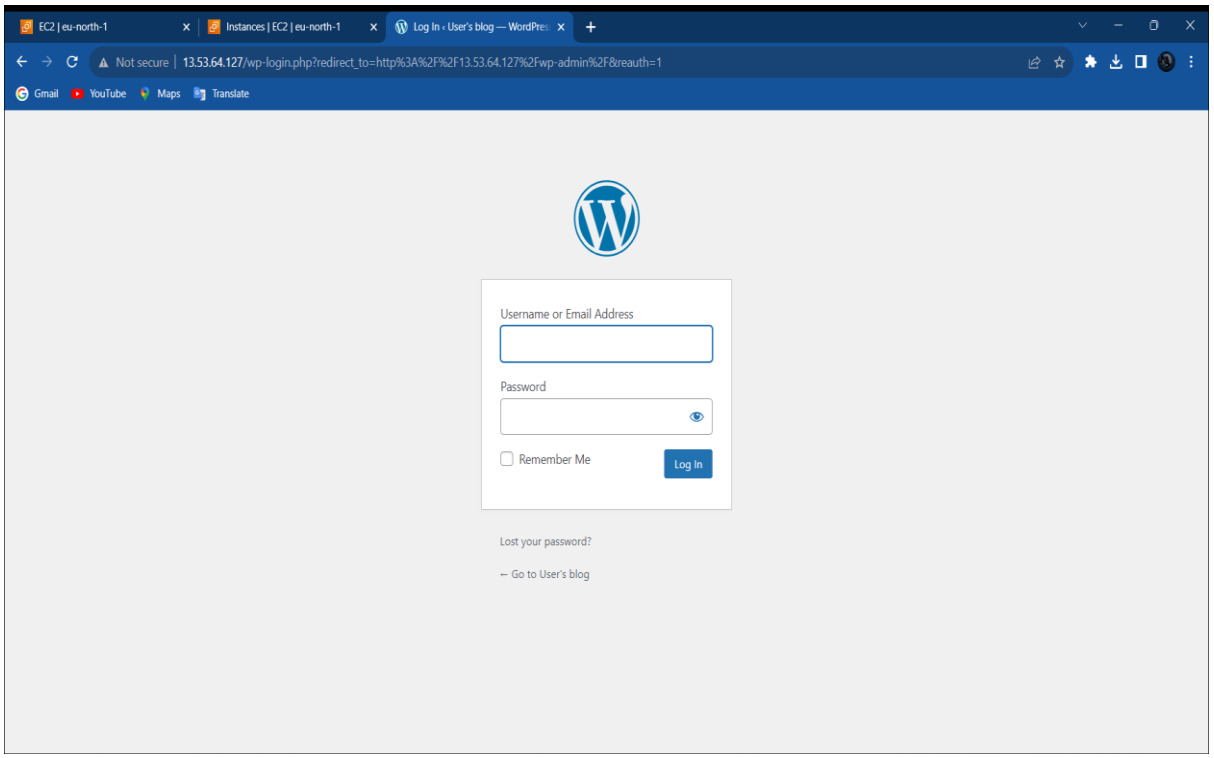
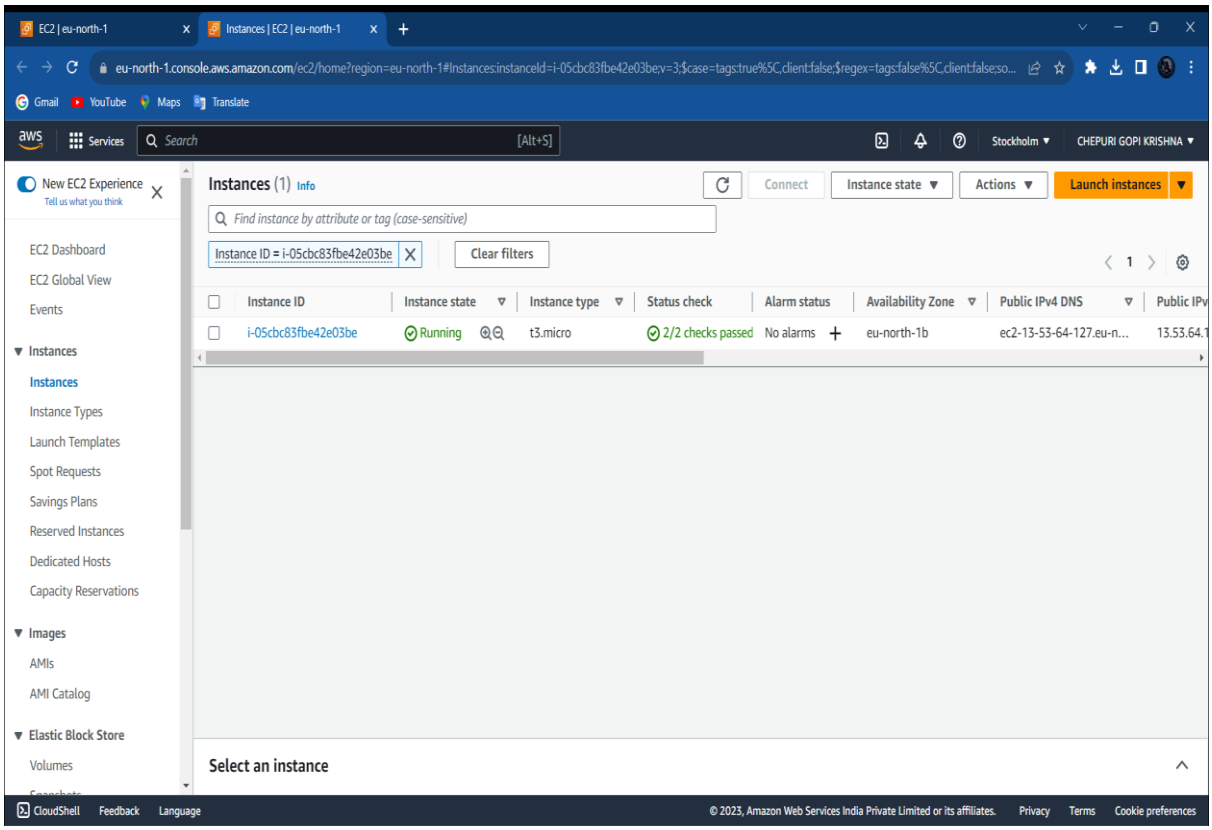

EC2 | eu-north-1
Instances | EC2 | eu-north-1
Log In ‹ User's blog — WordPress
Not secure | 13.53.64.127/wp-login.php?redirect_to=http%3A%2F%2F13.53.64.127%2Fwp-admin%2F&reauth=1
Gmail
YouTube
Maps
Translate
Username or Email Address
Password
Remember Me
Log In
Lost your password?
← Go to User's blog


EC2 | eu-north-1
Instances | EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:instanceId=i-05cbc83fbe42e03be;v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false;so...
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Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Instance ID = i-05cbc83fbe42e03be
Clear filters
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
i-05cbc83fbe42e03be
Running
t3.micro
2/2 checks passed
No alarms
eu-north-1b
ec2-13-53-64-127.eu-n...
Select an instance
CloudShell
Feedback
Language
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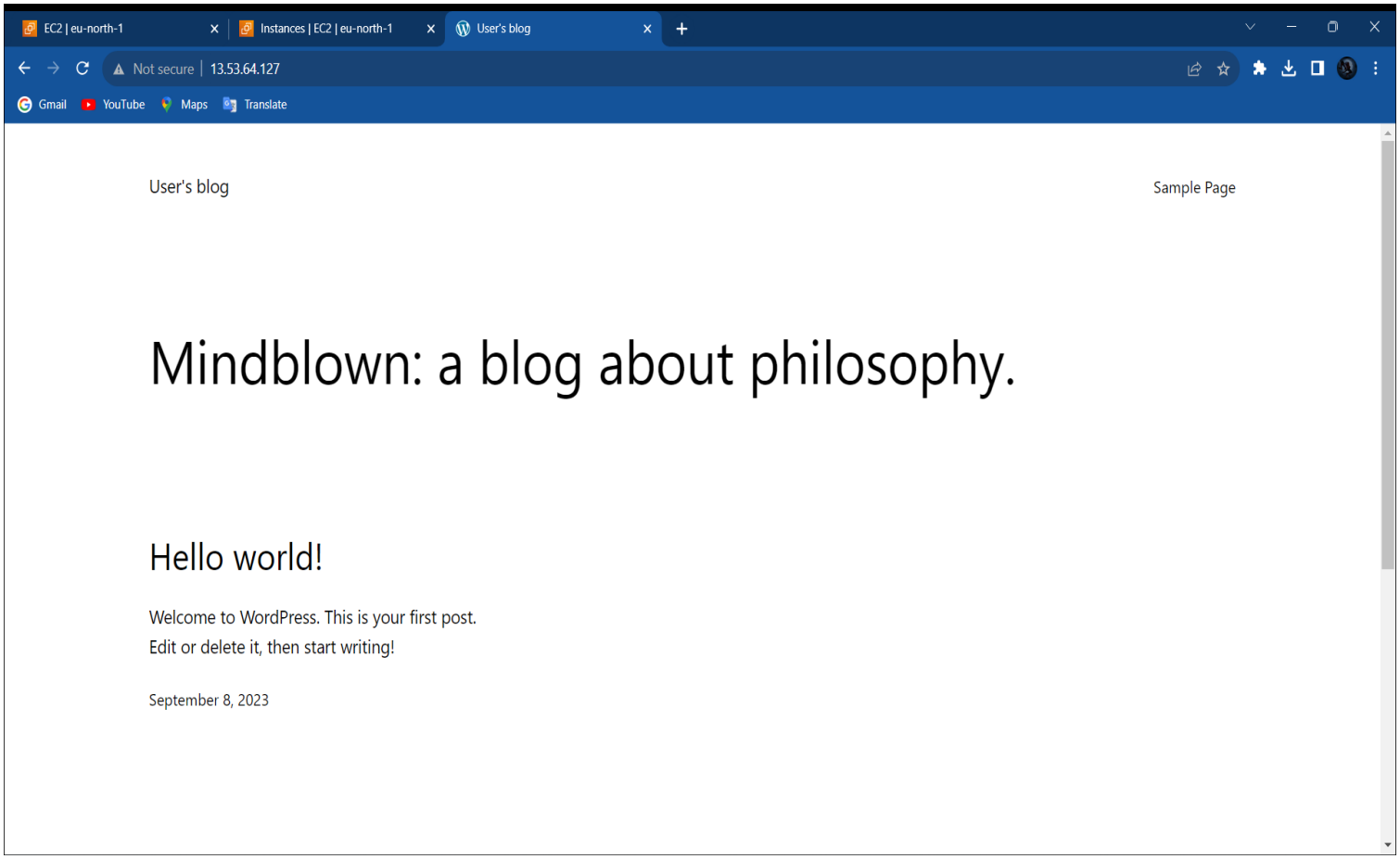
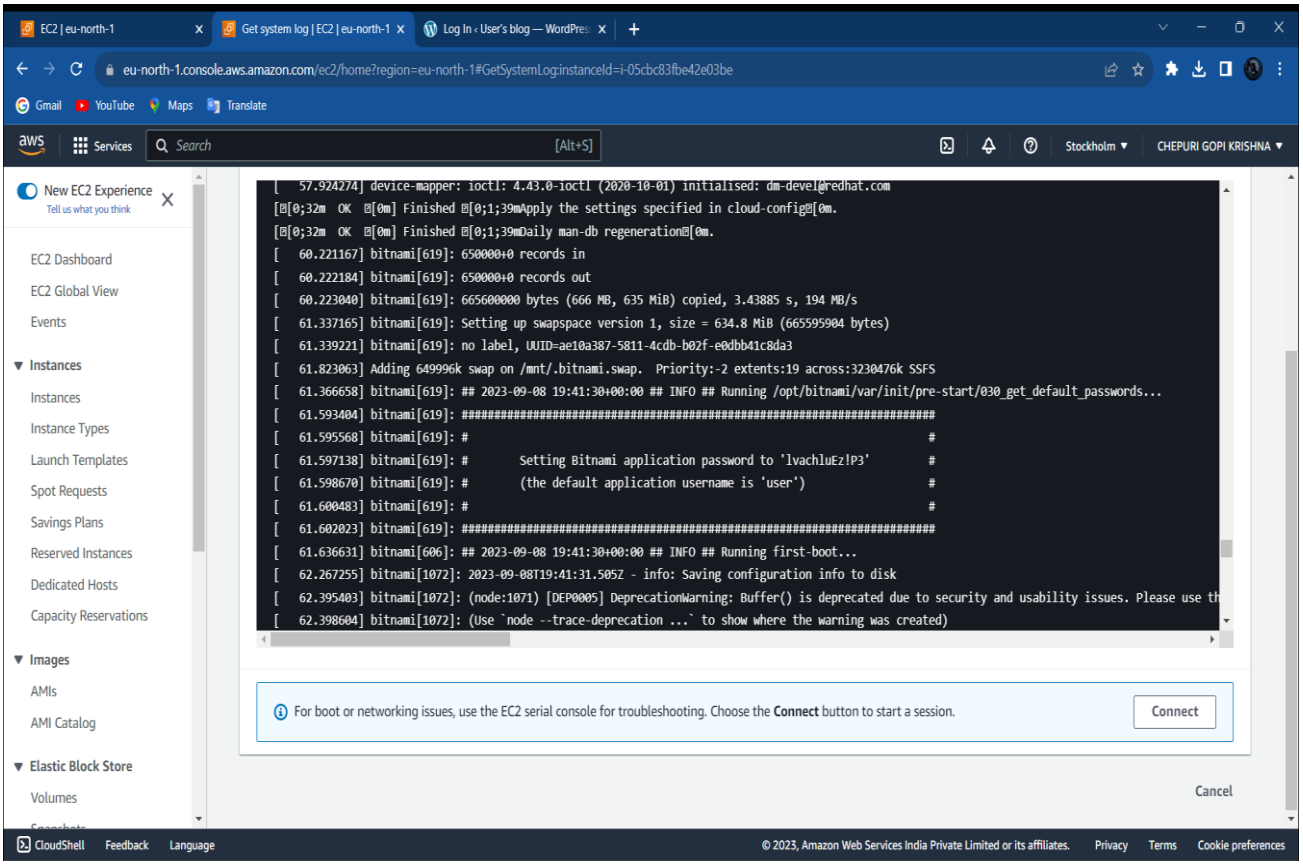
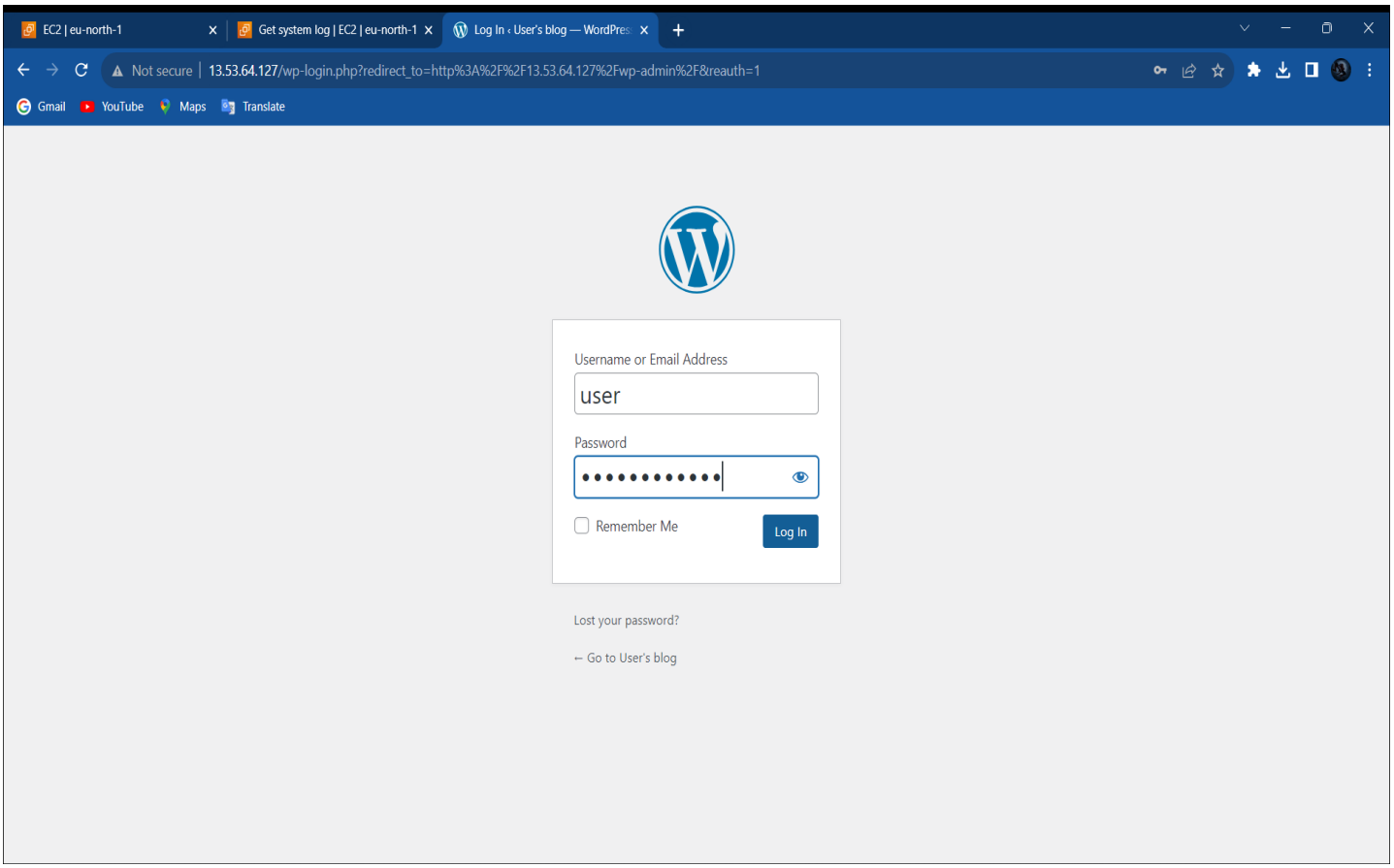


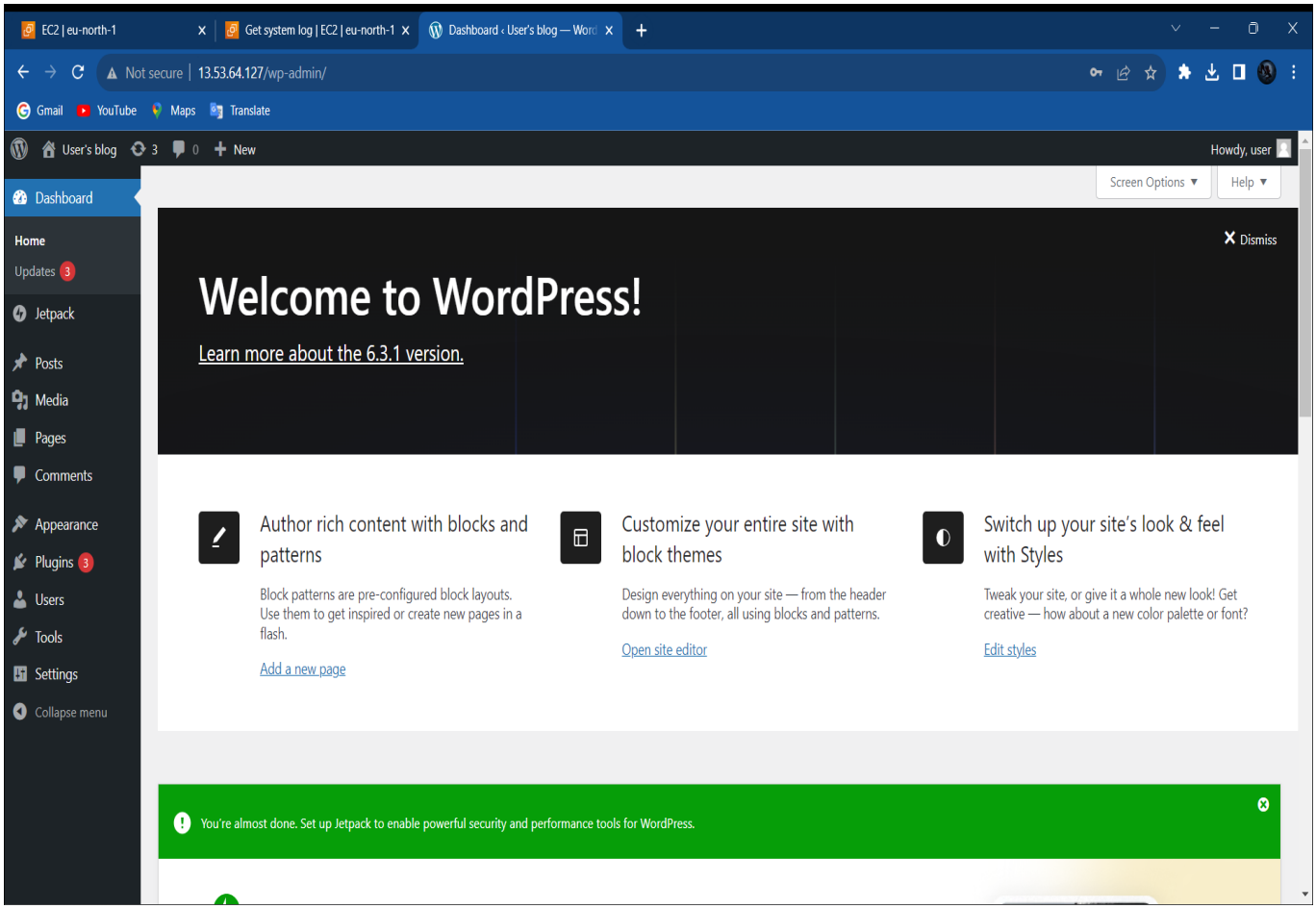
TESTING Public IPv4 address ON NEW WINDOW TAB



FINDING USERNAME AND PASSWORD



TRYING TO LOGIN BY USING USER ID AND PASSWORD.



HENCE WEB PAGE IS SUCCESSFULLY CREATED BY USING EC2 instance.