NAME-Barsha Routh

Reg no- 24MCA0164

CLOUD COMPUTING

Creating an EC2 Instance

Steps to launch an Amazon EC2 instance in Amazon Linux:

1: Sign in to AWS Management Console

2: Once logged in, I searched for EC2 in the top search bar and selected it to open the EC2 Dashboard..

3: I clicked on Launch Instance to start the instance creation process.

4: Configure Instance Settings

Name and Tags: I named my instance as barshaserver.

Application and OS Images (Amazon Machine Image- AMI): I selected Amazon Linux 2 AMI (HVM), SSD Volume Type from the Quick Start options, as it's recommended for general use and is eligible for the AWS Free Tier.

Instance Type: I chose the instance type t2.micro .

Key Pair (login): I selected an existing key pair and saved the private key file (.pem).

Network Settings: For the network, I used the default VPC settings and selected a subnet close to my region.

Configure Storage: Chosen The default storage set to 8 GiB of General Purpose SSD (gp2).

Advanced Details: I left the advanced settings at their defaults.

5: Review and Launch the Instance

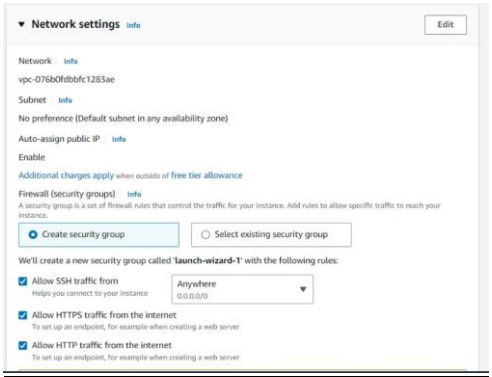
I reviewed all the settings and then clicked on Launch Instance.

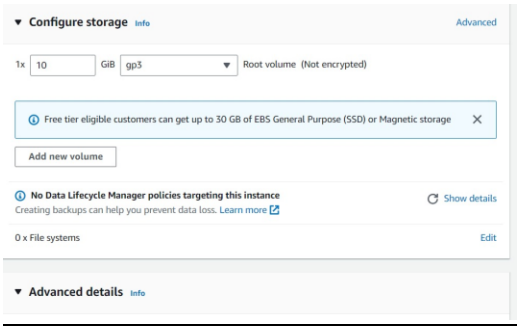
6: Connect to the Instance

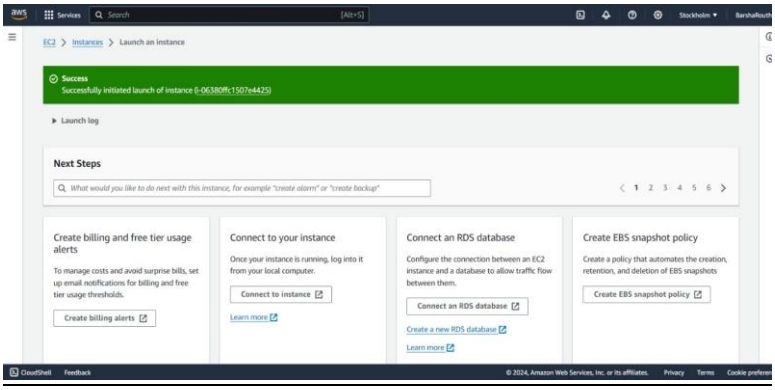
I selected the running instance in the EC2 Dashboard and clicked Connect.

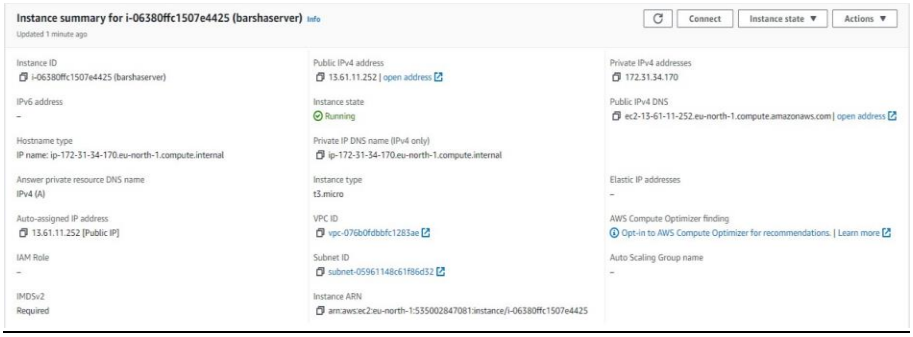
After entering the command in the terminal, I successfully connected to my EC2 instance running Amazon Linux 2.

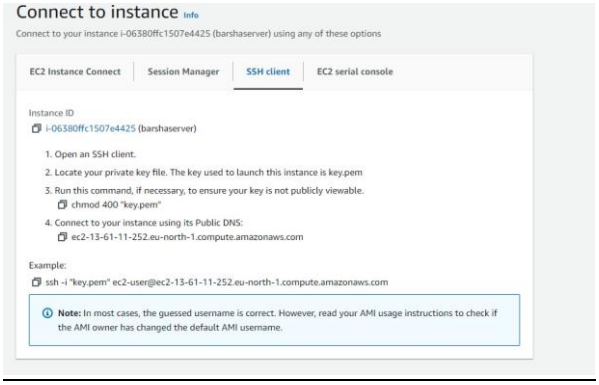
Some screenshots are given as follows to show:

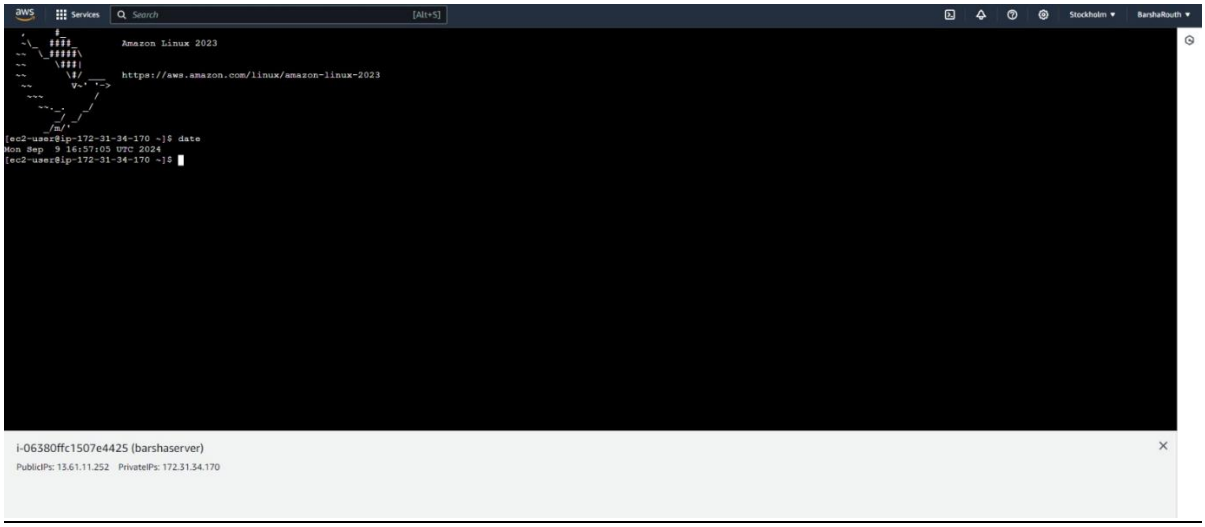



Configure storage Info
Advanced
1x 10 GiB gp3 Root volume (Not encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
No Data Lifecycle Manager policies targeting this instance
Creating backups can help you prevent data loss. Learn more
Show details
0 x File systems
Edit
Advanced details Info


Success
Successfully initiated launch of instance (i-06380ffc1507e4425)
Launch log
Next Steps
Create billing and free tier usage alerts
Connect to your instance
Connect an RDS database
Create EBS snapshot policy
Create billing alerts
Connect to instance
Learn more
Connect an RDS database
Create a new RDS database
Learn more
Create EBS snapshot policy


Instance summary for i-06380ffc1507e4425 (barshaserver) Info
Updated 1 minute ago
Connect
Instance state
Actions
Instance ID
i-06380ffc1507e4425 (barshaserver)
Public IPv4 address
13.61.11.252 | open address
Private IPv4 addresses
172.31.34.170
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-13-61-11-252.eu-north-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-34-170.eu-north-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-34-170.eu-north-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t3.micro
Elastic IP addresses
Auto-assigned IP address
13.61.11.252 [Public IP]
VPC ID
vpc-076b0fdbbfc1283ae
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
Subnet ID
subnet-0596148c61f86d32
Auto Scaling Group name
IMDSv2
Required
Instance ARN
arn:aws:ec2:eu-north-1:535002847081:instance/i-06380ffc1507e4425


Connect to instance Info
Connect to your instance i-06380ffc1507e4425 (barshaserver) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-06380ffc1507e4425 (barshaserver)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is key.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "key.pem"
4. Connect to your instance using its Public DNS:
ec2-13-61-11-252.eu-north-1.compute.amazonaws.com
Example:
ssh -i "key.pem" ec2-user@ec2-13-61-11-252.eu-north-1.compute.amazonaws.com
Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.


aws
Services
Search
[Alt+S]
Stockholm
BarshaRouth
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-34-170 ~]$ date
Mon Sep 9 16:57:05 UTC 2024
[ec2-user@ip-172-31-34-170 ~]$
i-06380ffc1507e4425 (barshaserver)
PublicIPs: 13.61.11.252 PrivateIPs: 172.31.34.170