AWS LAMBDA

- AWS Lambda is a serverless compute service offered by Amazon Web Services (AWS).
- It allows you to run code in response to various events or triggers without the need to manage servers.
- You can write and upload your code (in various programming languages)
 as Lambda functions and AWS Lambda automatically takes care of
 provisioning and scaling the infrastructure to run your code.
- Lambda functions can be triggered by various AWS services, HTTP requests via API Gateway, and custom events.
- It's commonly used for tasks like data processing, automation, file handling, and more.
- You pay only for the compute time consumed by your functions, making it a cost-effective solution for event-driven applications.

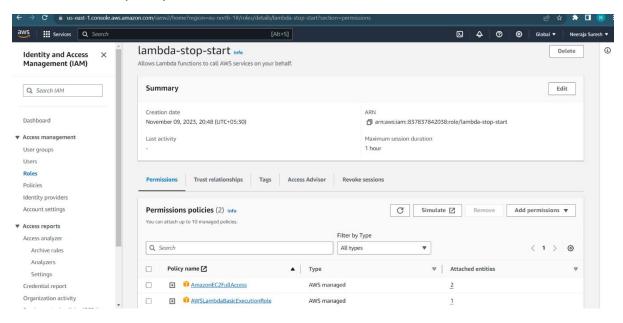
AMAZON CLOUDWATCH

- Amazon CloudWatch is a monitoring and observability service provided by AWS.
- It allows you to collect and track metrics, collect and monitor log files, and set alarms for your AWS resources and applications.
- CloudWatch provides a central platform to gain insights into the operational health and performance of your AWS resources, applications, and services.
- Key features include the ability to create custom dashboards, set up alarms for automatic notifications, and analyze and visualize logs and metrics.
- CloudWatch can be used to monitor a wide range of AWS resources, including EC2 instances, RDS databases, Lambda functions, and more.
- It is also used to create CloudWatch Events and Rules, which enable you to respond to state changes in your AWS environment, triggering actions like running Lambda functions.

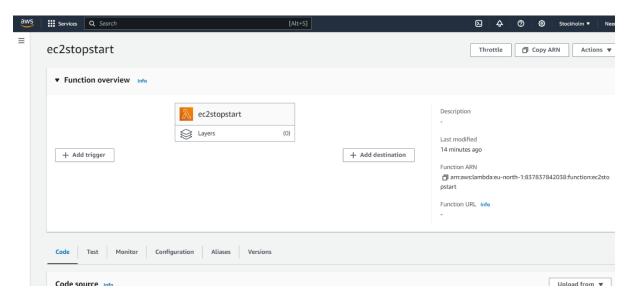
Automate the start/stop of ec2 instances using lambda and cloudwatch services.

1. Create IAM Policies and Roles:

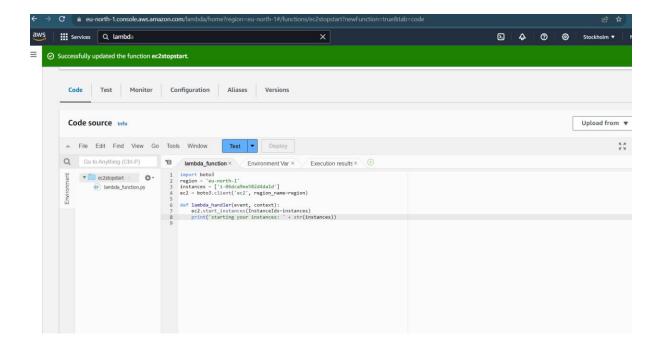
Create an IAM policy for Lambda function.

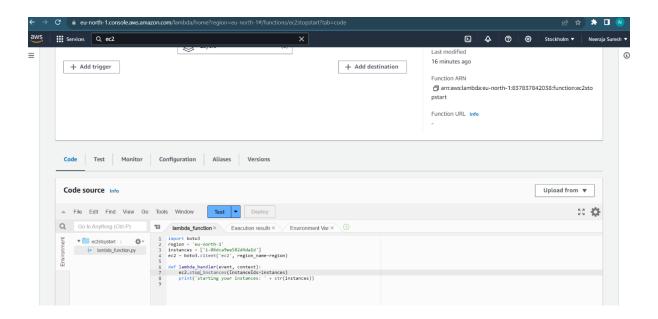


2. Create a Lambda Function:



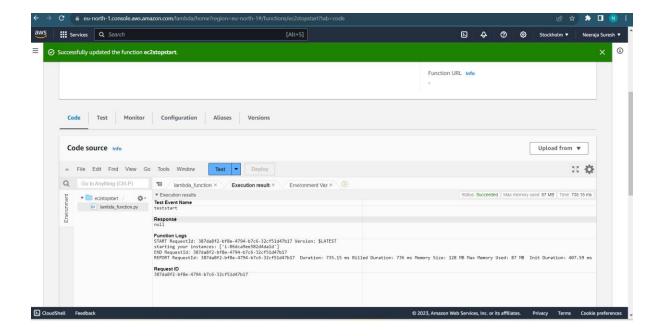
3. In the "Function code" section, write the code to start and stop EC2 instances based on your requirements.

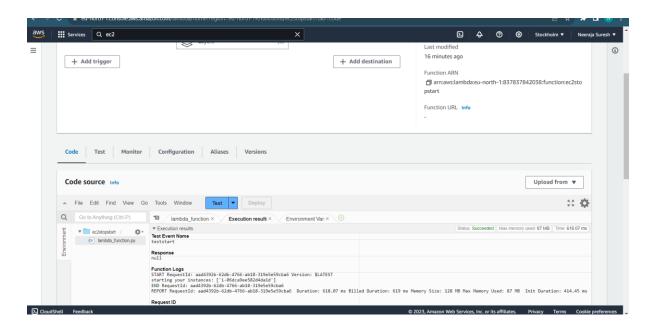




4. Test the Lambda Function:

Run the test to ensure your Lambda function is working as expected





5. Create CloudWatch Rules:

