

CS6006 - CLOUD COMPUTING AWS PROJECT

StockWatch: Real-Time Stock Alert System
Using AWS

Presented by: Shivani Suresh, 2021503050

Madras Institute of Technology, Anna University | 2024

AGENDA

- Project Overview
- Why AWS?
- Architecture
- AWS Services Used
- Implementation

PROJECT OVERVIEW

- Real-Time Alerts for immediate action on price dips.
- Automation to monitor multiple stocks without manual effort.
- Supports Investment Strategies like buying during dips for cost-effective investing.

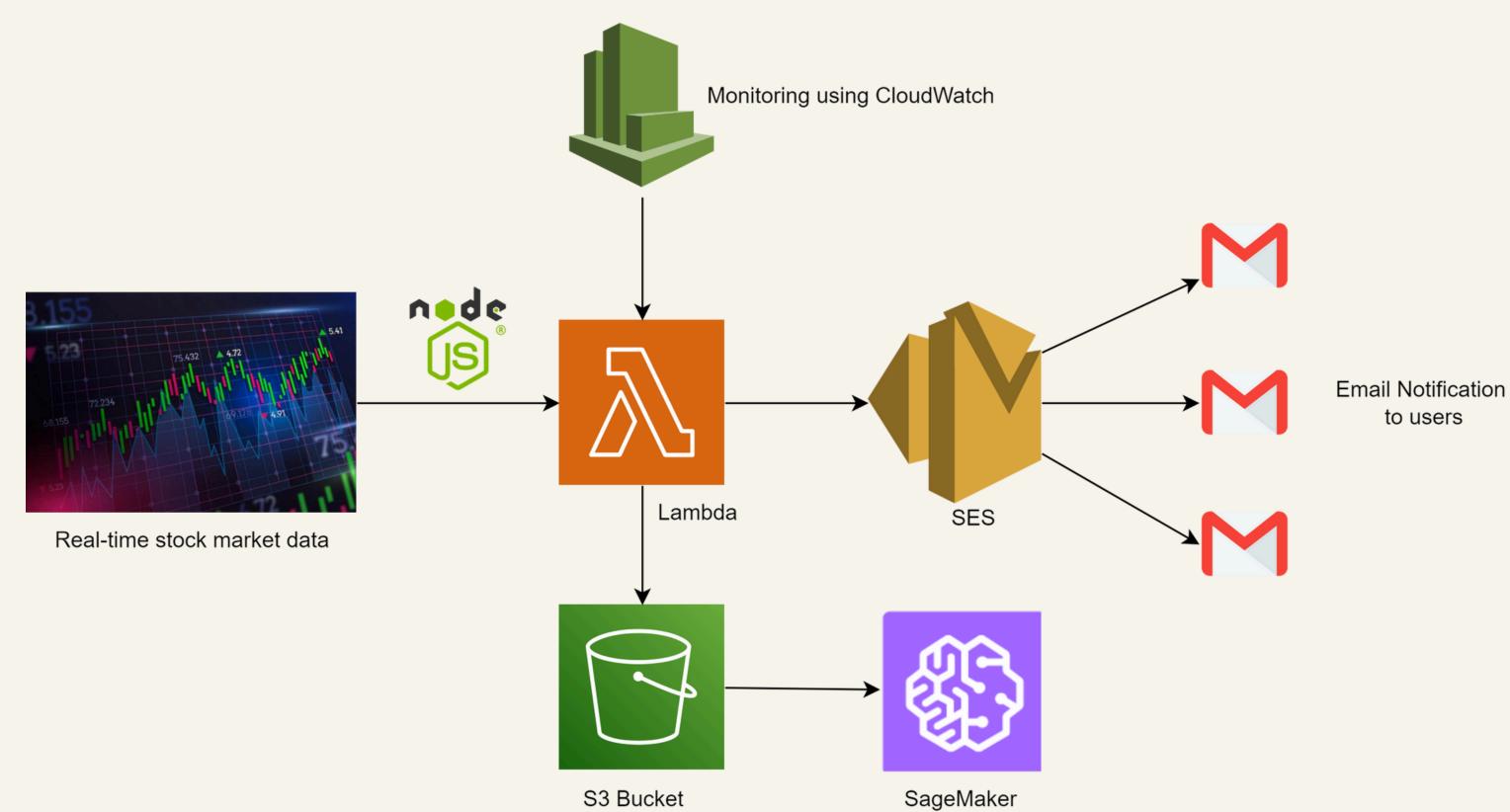


WHY AWS?

- Serverless with AWS Lambda for scalable, event-driven architecture.
- Amazon SES for instant notifications via email.
- Seamless API Integration with Lambda for real-time stock data.
- Pay only for what you use with automatic scaling



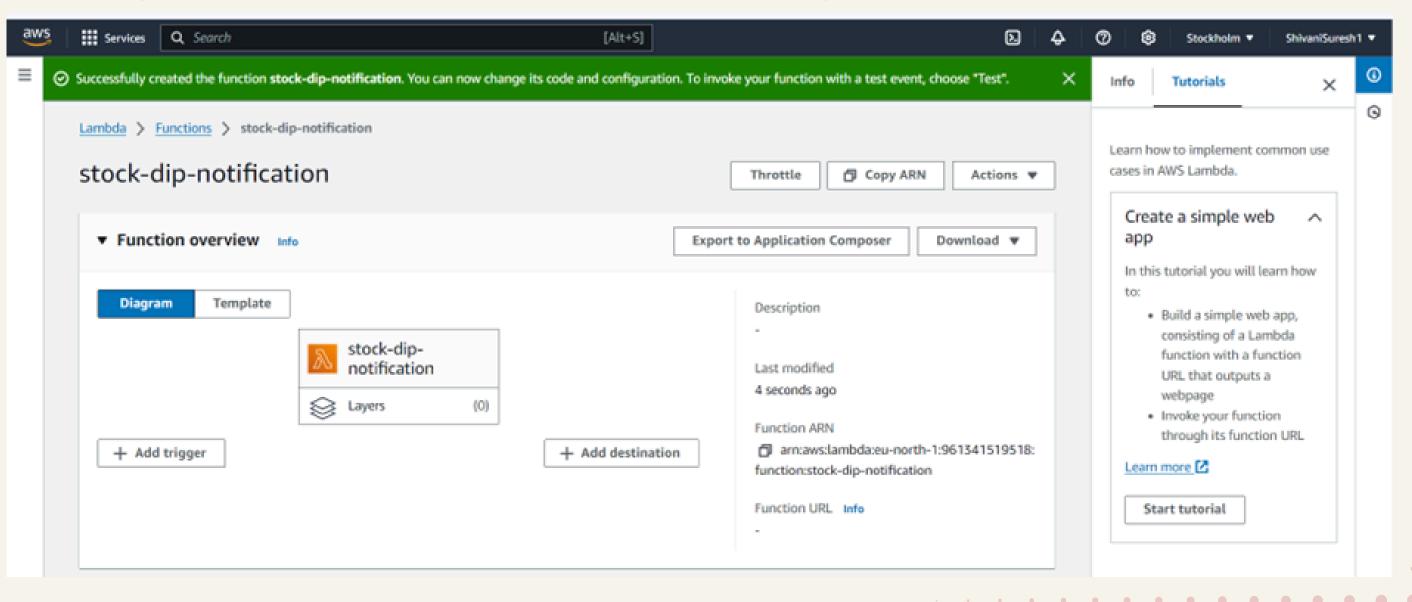




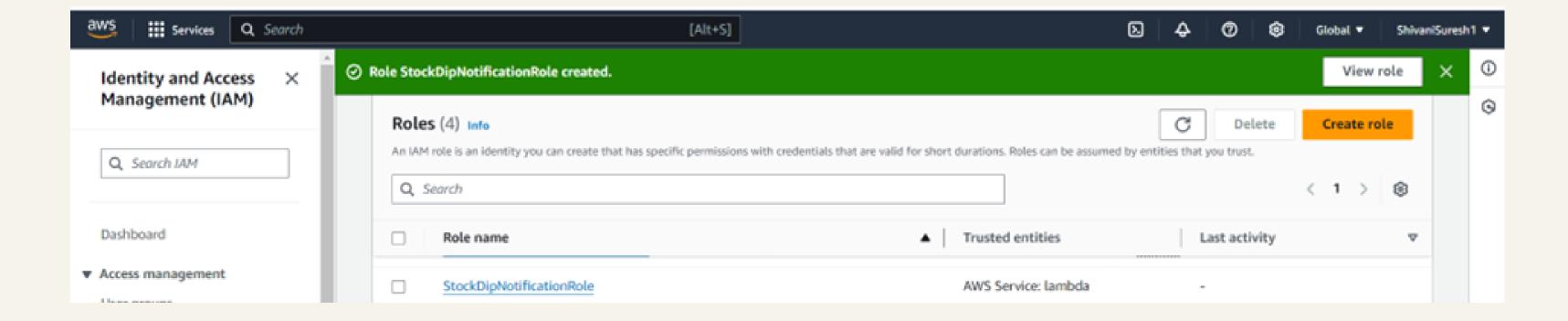
AWS SERVICES USED

- Amazon CloudWatch
- AWS Identity and Access Management (IAM)
- AWS Lambda
- Amazon S3 (Simple Storage Service)
- Amazon SES (Simple Email Service)
- AWS SDK (Software Development Kit)
- AWS SageMaker

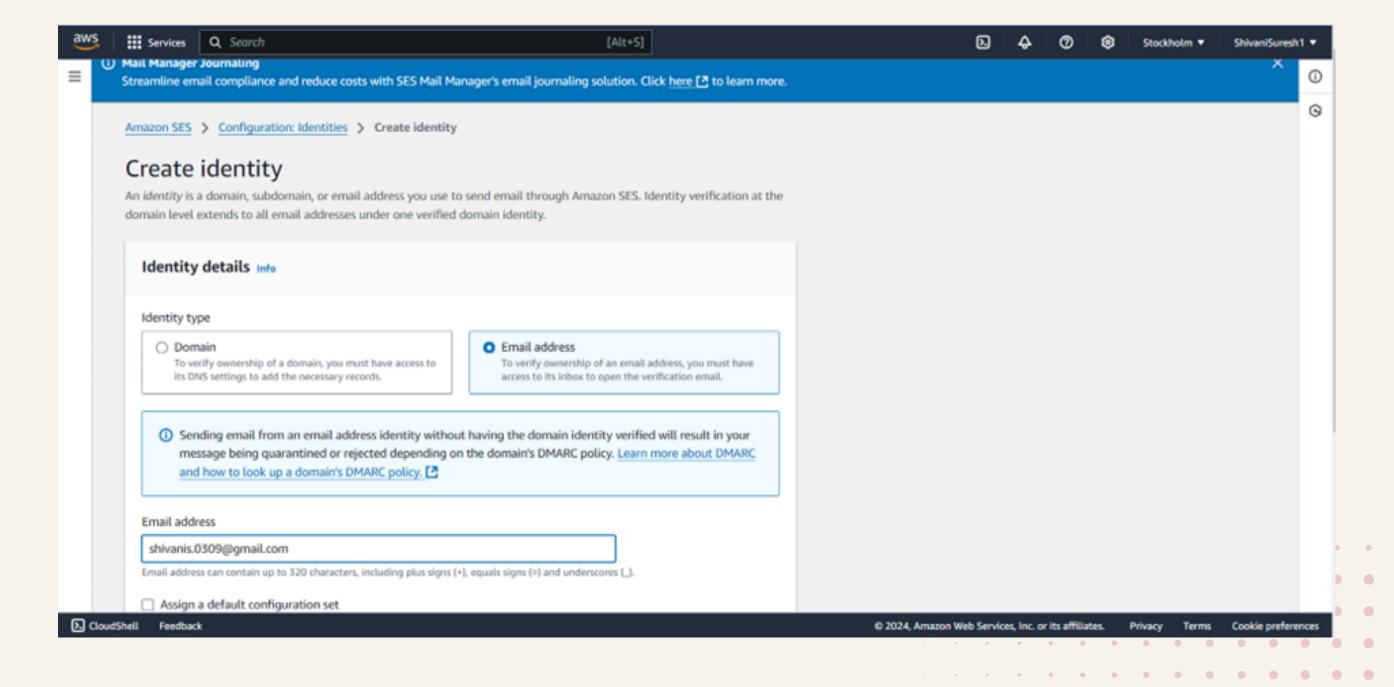
Creation of AWS Lambda Function



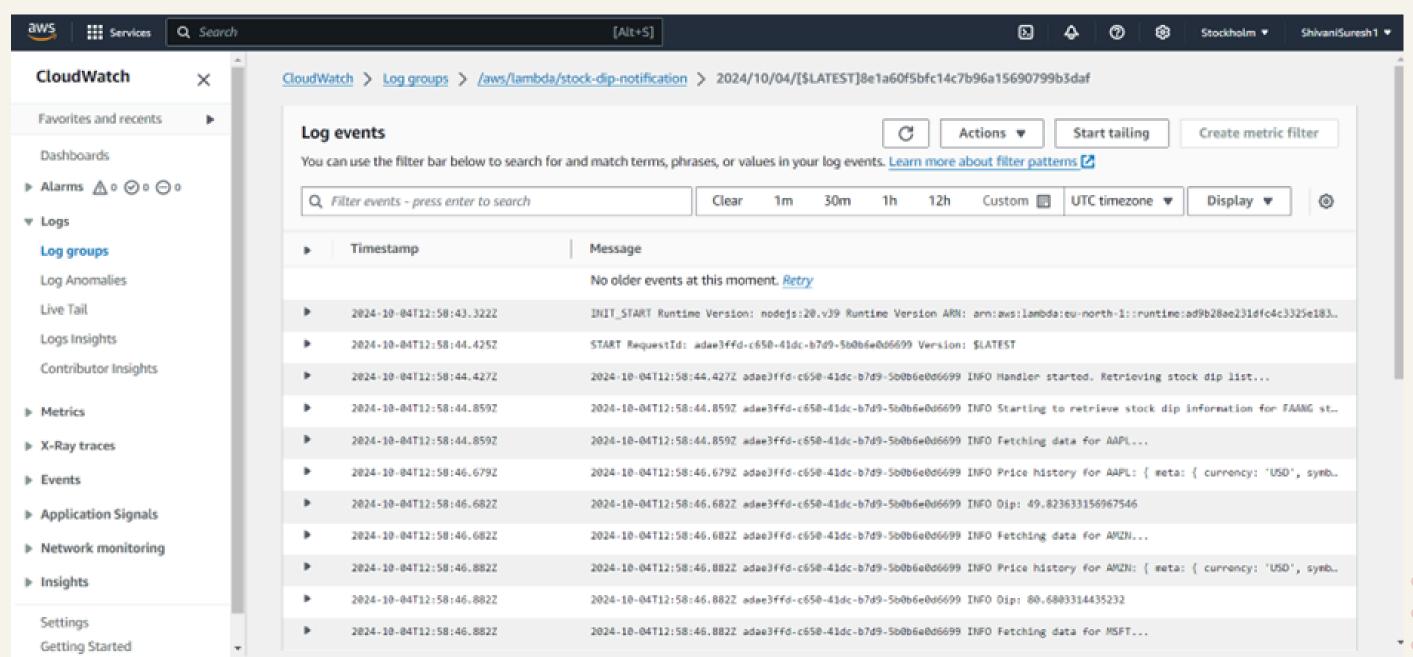
Creation of IAM Role for AWS Lambda Function



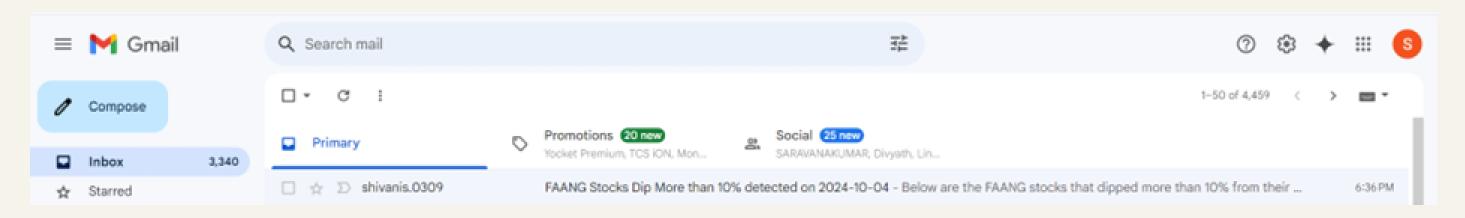
Activation of AWS SES



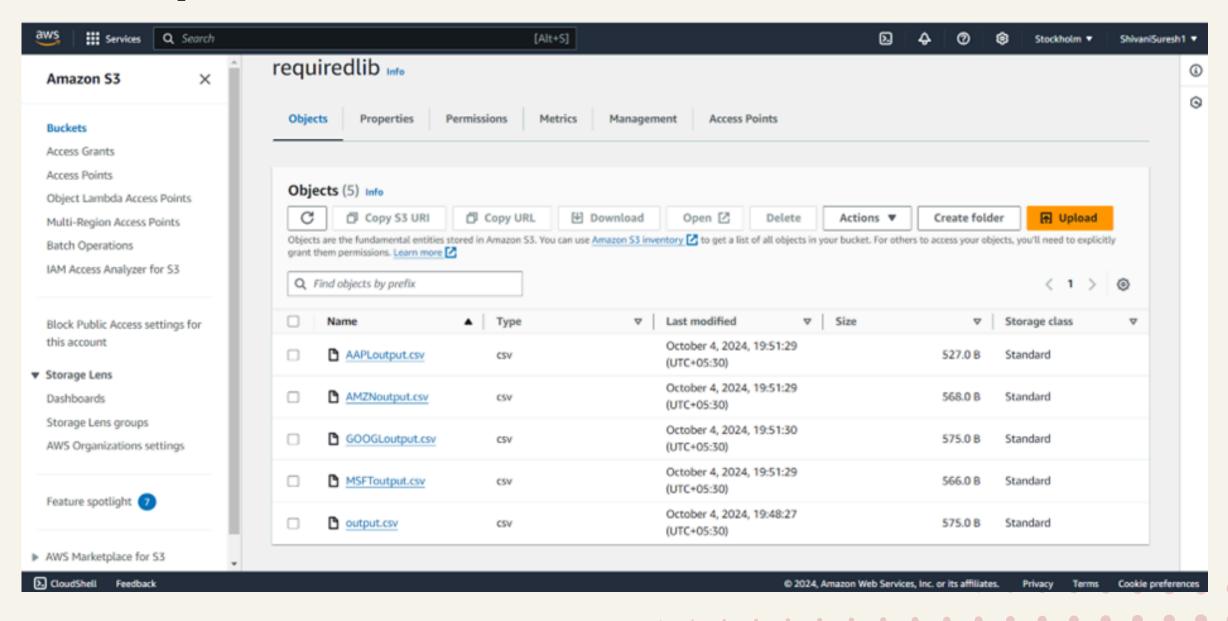
Testing Lambda Function using AWS CloudWatch



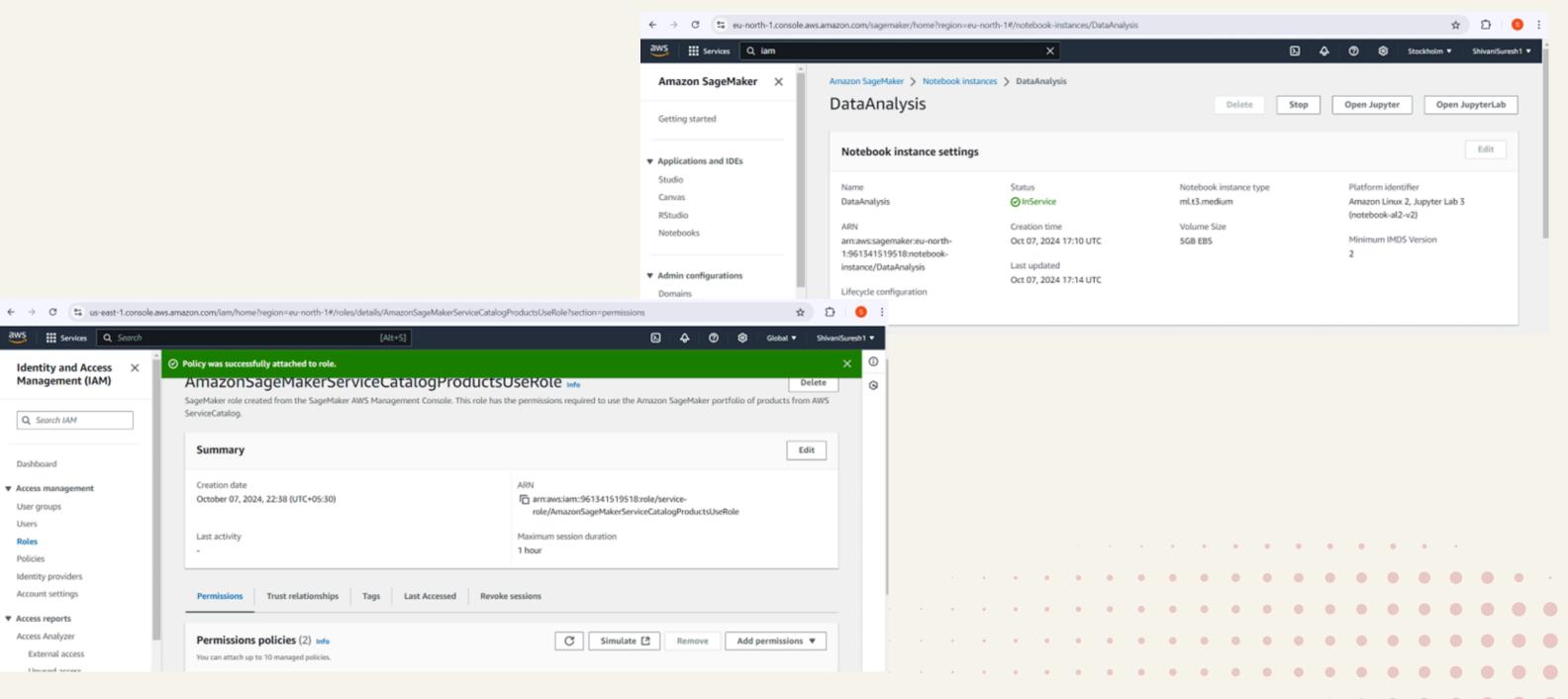
Mail Received from Lambda function via AWS SES



Output of all specified stocks stored in AWS S3



Setting up notebook instance in AWS SageMaker



Data Visualization using AWS SageMaker



THANKYOU