AWS Assignment 2

Overview

The DevOps Team created a Debian EC2 instance with resources as requested by the Front-End Team for their builds and workflows.

Resources:

- AMI - Debian(Linux/Unix)
- Instance Type: t2.micro
- Key pair: RSA .pem
- VPC - use the default VPC
- Security Group(Firewall) - Use existing security group but enable SSH
- EBS - 2 Volumes of 10GiB gp3 - volume type: gp3

They noticed that the machine became excessively slow so they reverted back to us(The DevOps Team)

Proposed Solution

1. To solve or help understand what's happening to the disk, RAM, EBS, CPU, etc we need to SET AN ALARM

2. Set an ALARM for the EC2 Instance when creating it

3. Use AMAZON SNS for the email service

4. Create a Topic, add subscriptions(Email, Phone), etc if they are not existing

5. Publish Text message

6. Set the alarm threshold for the instance and set the CPU threshold for the ALARM so that when the CPU shoots above the CPU threshold, it fires an ALARM to the DEVOPS TEAM

7. Select the SNS ALARM TOPIC CREATED

8. Choose the threshold percentage and create the alarm

9. Get a command that drives the CPU of the machine high and watch the alarm being triggered and sent to the DevOps Team

10. When this message is being sent to the DevOps Team, they have to fix the problem before it escalates

11. You can use this command:

    sudo apt-get install stress
    stress --cpu 8 --timeout 60

12. Check your email for the alarm and carry out the necessary troubleshooting to be done