CLOUD COMPUTING LABORATORY-11

AWS ACADEMY LAB 09

Amazon Web Services

Name: Drishti. Roll No: 1928228 Date: 30/03/2022

Aim: Create an Amazon CloudWatch alarm to notify you when the account has spent over a certain amount of money. The alarm sends a message to Amazon Simple Notification Service (Amazon SNS) to send an email or text notification.

Time Duration: Approximately 1 hour 20 minutes.

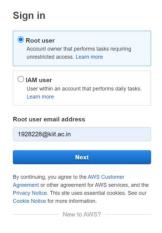
Requirements: - AWS account (access to AWS console dashboard)

- Internet connection

1. If we use AWS academy to log in, we go to LAB 9 and click on start lab, allowing the light beside AWS to turn green, before clicking on AWS on the left side, which automatically displays the AWS console dashboard.



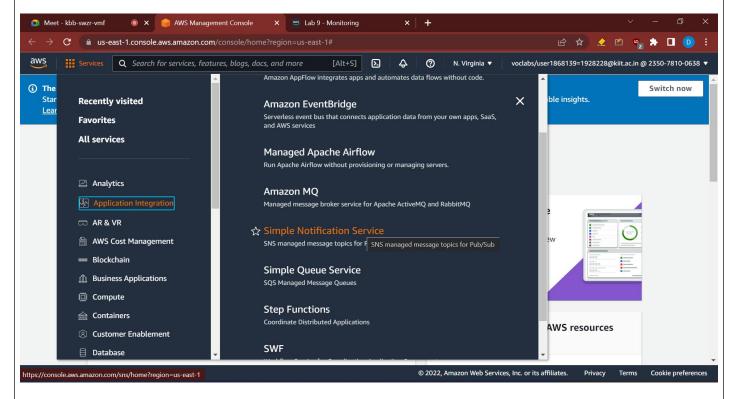
2. We go to https://aws.amazon.com, click on 'Sign in to Console', and login with our root account.



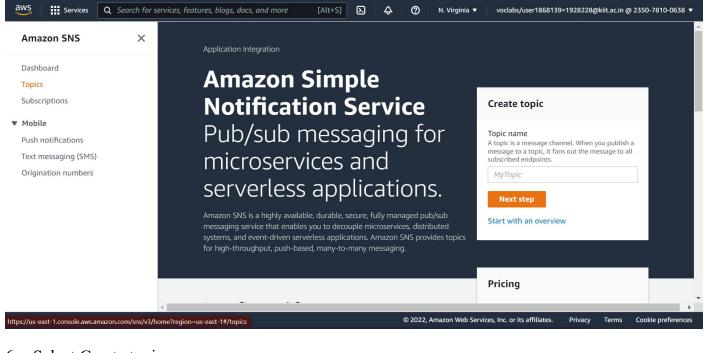


Create and subscribe to an SNS topic

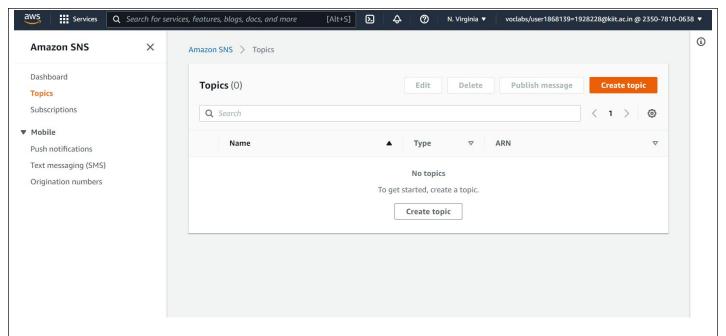
3. Choose the Services menu, locate the Application Integration section, and choose Simple Notification Service.



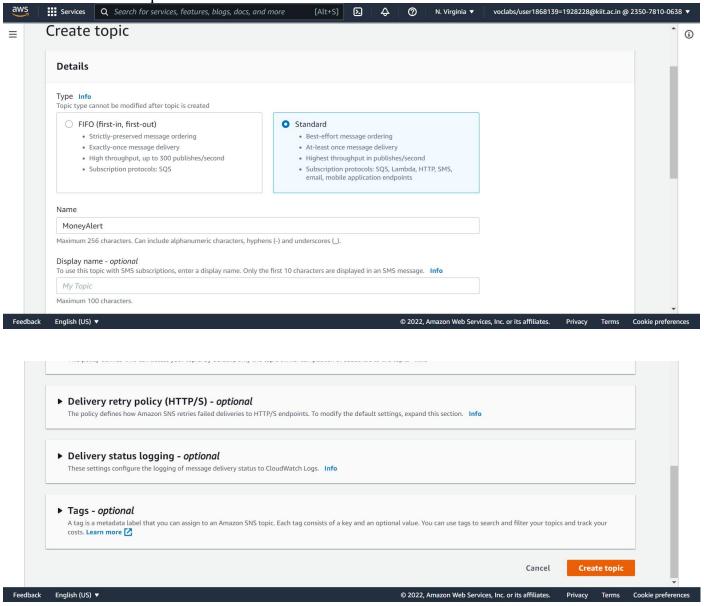
- 4. In the left navigation pane, select Topics.
- 5. Note: If you don't see the left navigation pane, choose the hamburger menu icon.



6. Select Create topic.

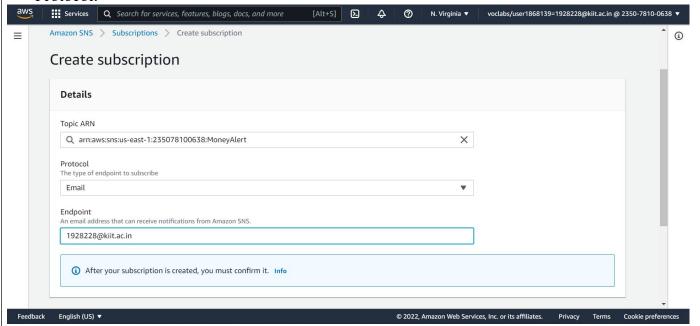


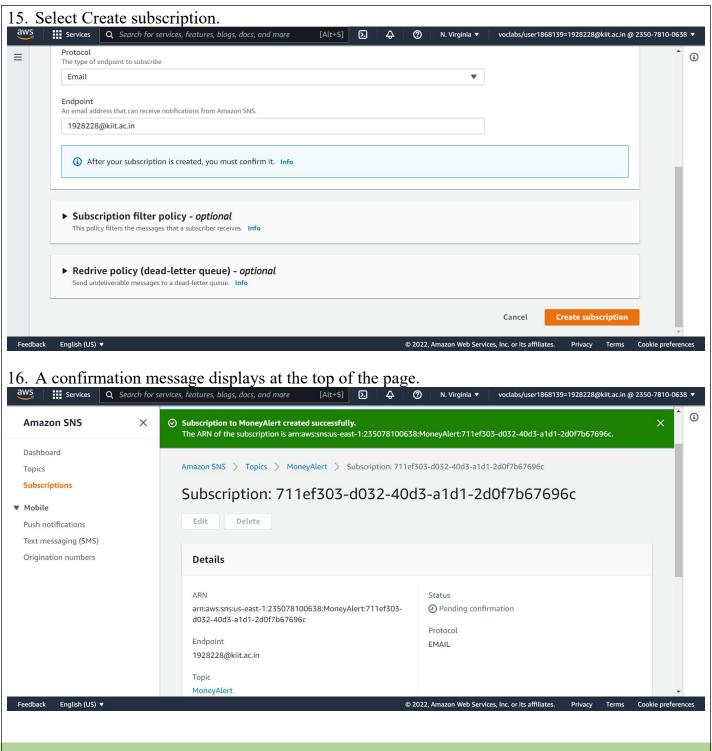
- A Topic acts as a communication channel where messages from alerts and events can be posted.
- 7. For Type, select Standard.
- 8. For Name, enter MoneyAlert
- 9. Choose Create topic.



10. Now, you will subscribe to that topic so when a message is posted to the topic, it will be pushed to your phone or email. Services Q Search for services, features, blogs, docs, and more [Alt+S] 4 N. Virginia ▼ voclabs/user1868139=1928228@kiit.ac.in @ 2350-7810-0638 ▼ Σ Topic MoneyAlert created successfully. Publish message Amazon SNS × You can create subscriptions and send messages to them from this topic. Dashboard Amazon SNS > Topics > MoneyAlert Subscriptions MoneyAlert Edit Delete Publish message **▼** Mobile Push notifications **Details** Text messaging (SMS) Origination numbers Name Display name MoneyAlert ARN Topic owner 235078100638 arn:aws:sns:us-east-1:235078100638:MonevAlert Type Standard English (US) ▼ 11. In the Subscriptions section, choose Create subscription. Services Q Search for services, features, blogs, docs, and more [Alt+S] 2 4 N. Virginia ▼ (i) Amazon SNS Amazon SNS > Subscriptions Dashboard Subscriptions (0) Edit Request confirmation Confirm subscription Subscriptions Endpoint Status Protocol Text messaging (SMS) Origination numbers No subscriptions found Create subscription

- 12. For Topic ARN, select the MoneyAlert topic you created.
- 13. For Protocol, select Email to get an email alert.
- 14. For Endpoint, enter your email address or phone number, depending on what you selected for Protocol.

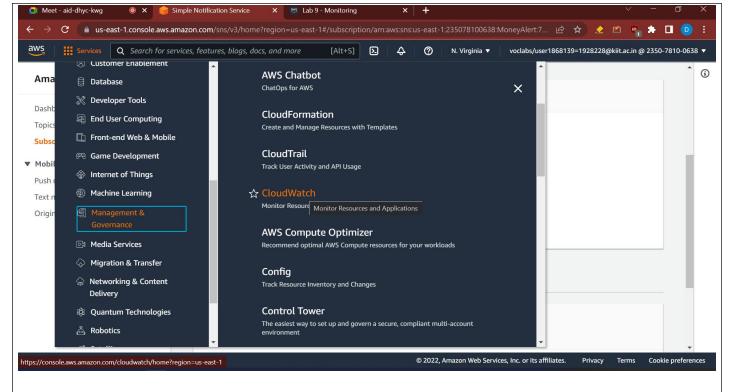




Create a CloudWatch alarm

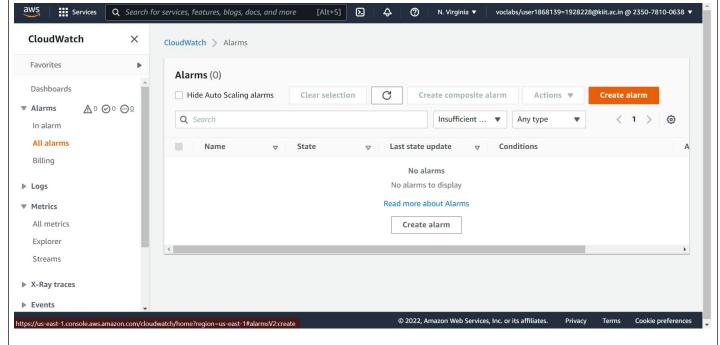
Now you will create the billing alert.

17. Choose the Services menu, locate the Management & Governance section, and choose CloudWatch.

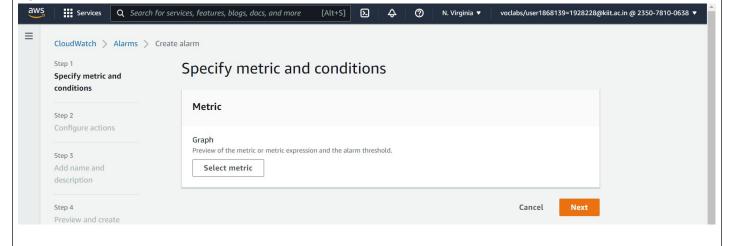


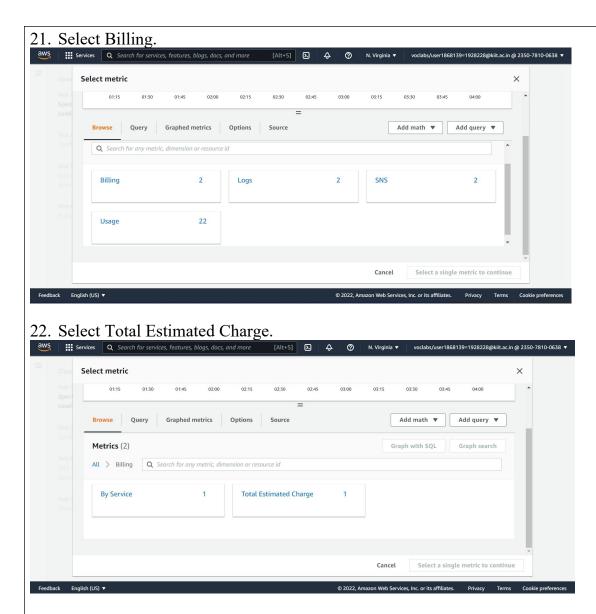
18. In the left navigation pane, select Alarms.

19. Choose Create alarm.

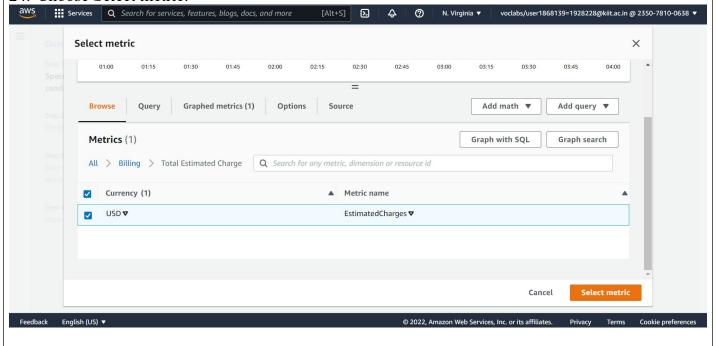


20. Choose Select metric.





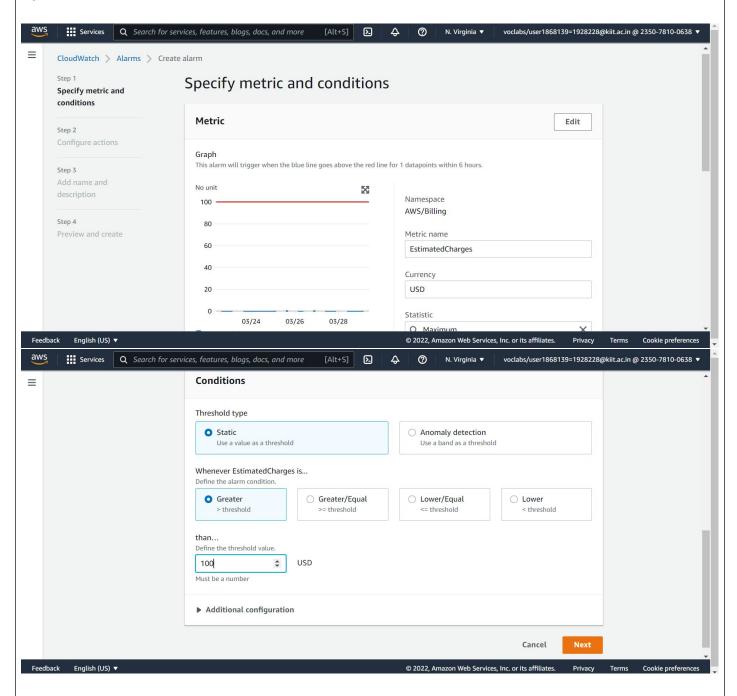
- 23. Check the box for EstimatedCharges.
- 24. Choose Select metric.



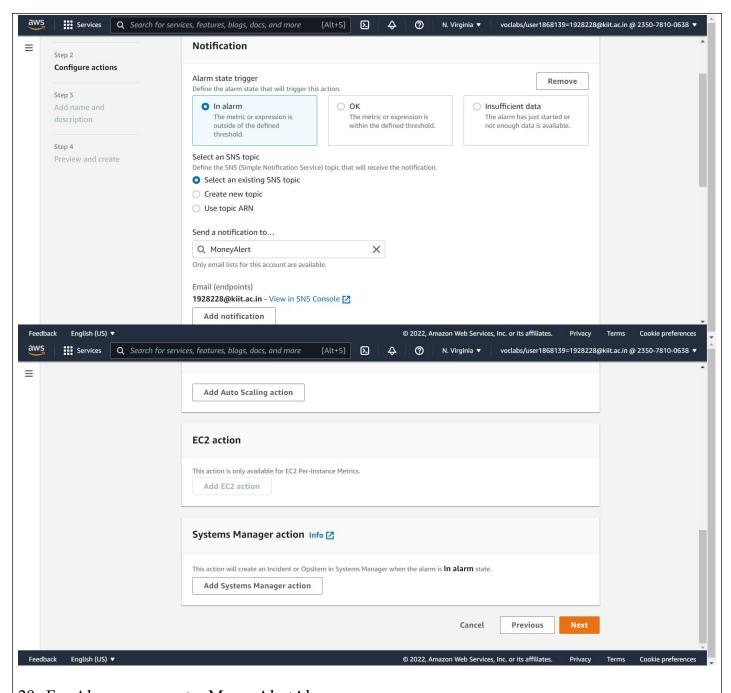
- 25. In the Conditions section, configure the following:
 - a) For Threshold type, select Static.
 - b) For Whenever EstimatedCharges is..., select Greater.

c) For than..., enter 100 into the textbox.

26. Choose Next.

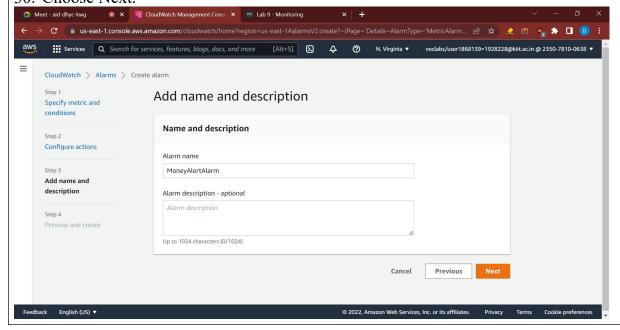


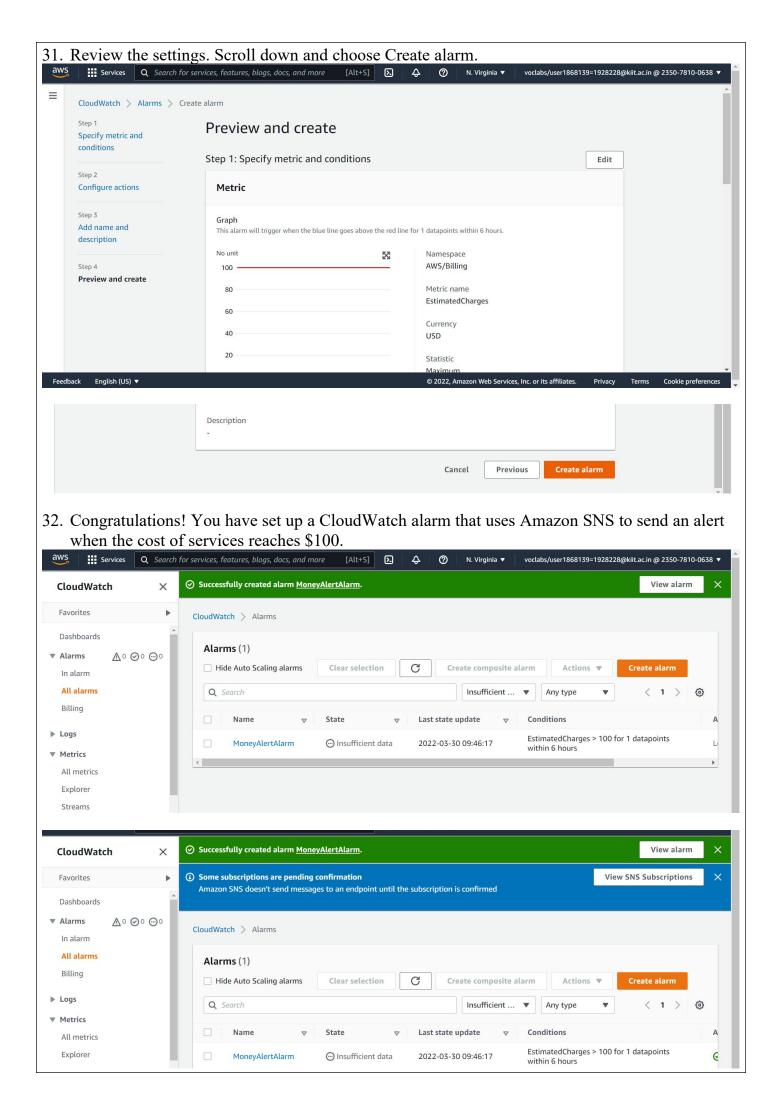
- 27. In the Notification section, configure the following:
 - a) For Alarm state trigger, choose In alarm.
 - b) For Select an SNS topic, choose Select an existing SNS topic.
 - c) For Send a notification to..., choose the MoneyAlert topic.
- 28. Choose Next.

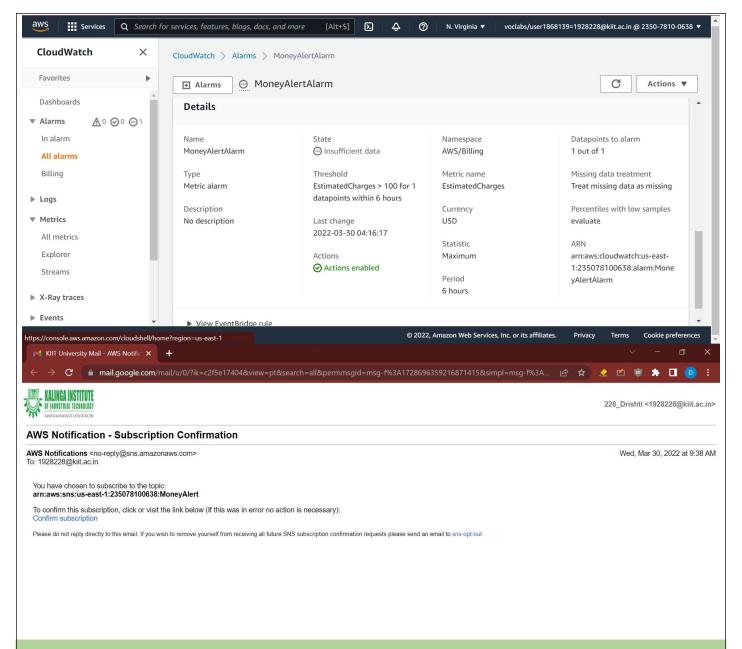


29. For Alarm name, enter MoneyAlertAlarm

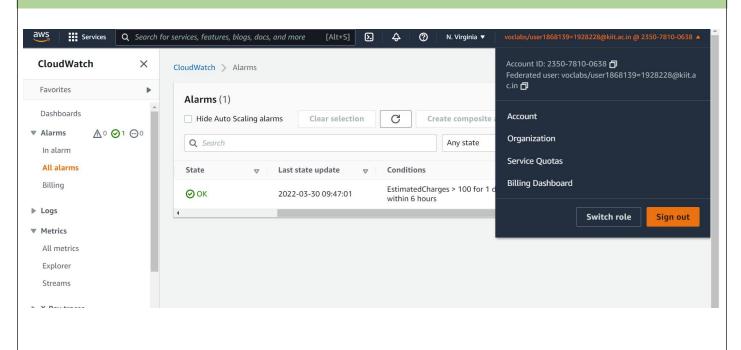
30. Choose Next.







Lab complete





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AWS Notification - Subscription Confirmation

AWS Notifications <no-reply@sns.amazonaws.com> To: 1928228@kiit.ac.in

Wed, Mar 30, 2022 at 9:38 AM

You have chosen to subscribe to the topic: arn:aws:sns:us-east-1:235078100638:MoneyAlert

To confirm this subscription, click or visit the link below (If this was in error no action is necessary): Confirm subscription

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to sns-opt-out