

Assignment 3 (CloudFormation)

Name: Harshal Chandrashekhar Gite

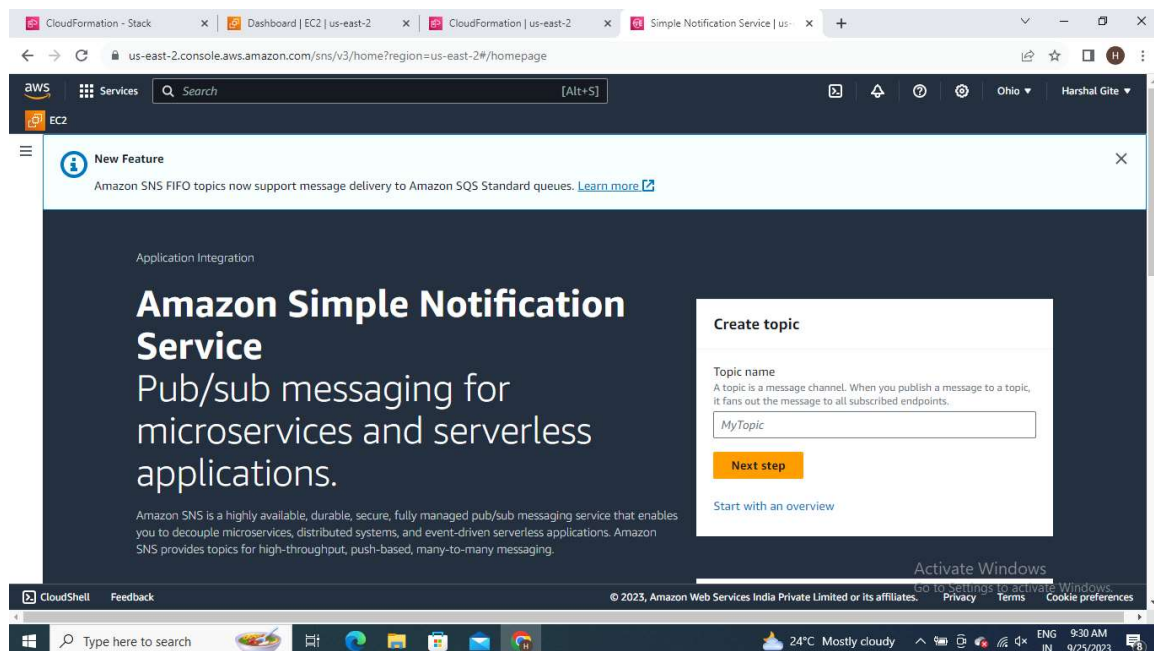
E-Mail: harshalgite888@gmail.com

Tasks:

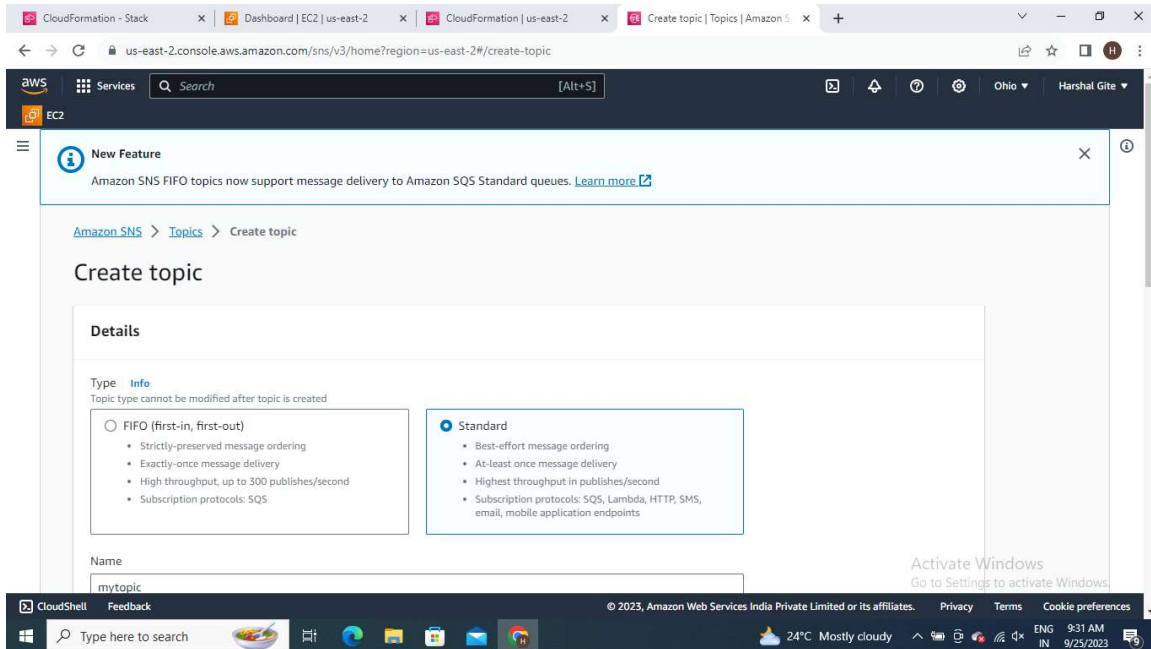
1. Use the template from clouFormation task 1.
2. Add notification to the clouformation stack using SNS so that you get a notification via mail for every step of the stack creation process.

Solution:

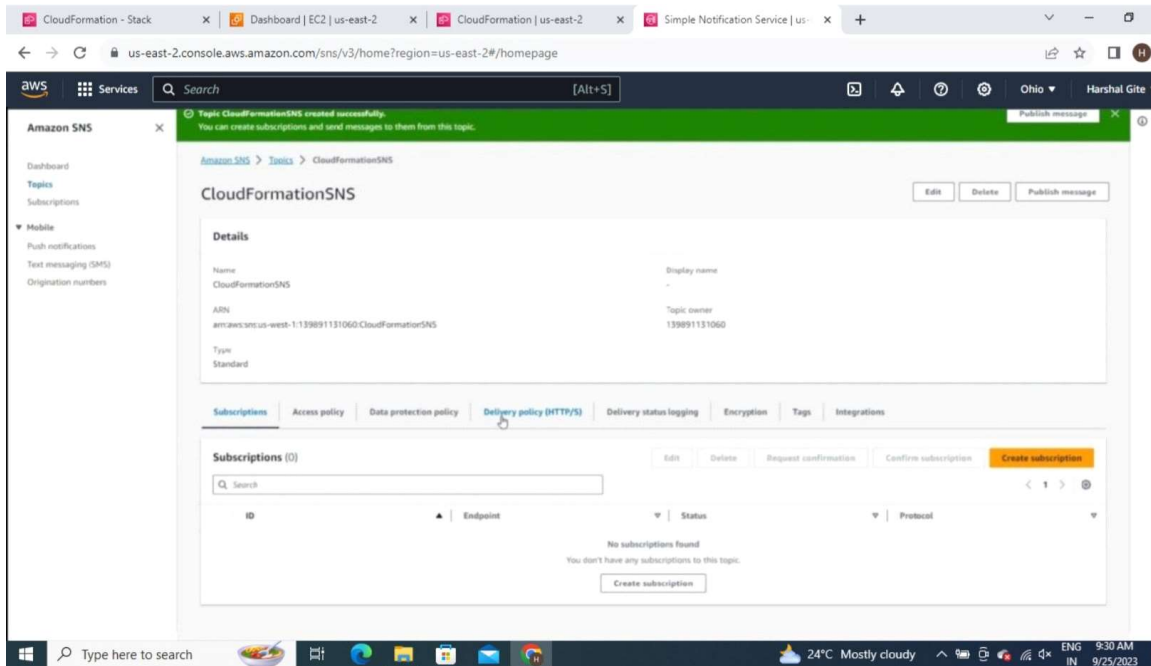
1. Go to the Amazon SNS.



2. Click on create topic and name the topic.



-Topic created successfully.



2. Now, create subscription.

The screenshot shows the AWS console interface for creating a new SNS subscription. The browser tabs include 'CloudFormation - Stack', 'Dashboard | EC2 | us-east-2', 'CloudFormation | us-east-2', and 'Simple Notification Service | us-'. The URL is 'us-east-2.console.aws.amazon.com/sns/v3/home?region=us-east-2#/homepage'. The page title is 'Create subscription'. The 'Details' section contains the following fields:

- Topic ARN:** A text input field containing 'arn:aws:sns:us-west-1:138891131060:CloudFormationSNS'.
- Protocol:** A dropdown menu set to 'Email'.
- Endpoint:** A text input field containing 'guru1995godfather@outlook.com'.

Below the fields, there is a blue box with the text: 'After your subscription is created, you must confirm it. [See](#)'. There are also two optional sections: 'Subscription filter policy - optional' and 'Redrive policy (dead-letter queue) - optional'. At the bottom right, there are 'Cancel' and 'Create subscription' buttons.

3. Subscription created successfully.

The screenshot shows the AWS console interface after a subscription has been created. The browser tabs are the same as in the previous screenshot. The URL is 'us-east-2.console.aws.amazon.com/sns/v3/home?region=us-east-2#/homepage'. The page title is 'Amazon SNS'. A green banner at the top states: 'Subscription to CloudFormationSNS created successfully. The ARN of the subscription is arn:aws:sns:us-west-1:138891131060:CloudFormationSNS:d4bbf840-e639-45e4-918e-2c2dc2ebe31f'. Below the banner, the subscription details are displayed:

- Subscription:** d4bbf840-e639-45e4-918e-2c2dc2ebe31f
- Details:**
 - ARN:** arn:aws:sns:us-west-1:138891131060:CloudFormationSNS:d4bbf840-e639-45e4-918e-2c2dc2ebe31f
 - Status:** Pending confirmation
 - Endpoint:** guru1995godfather@outlook.com
 - Protocol:** EMAIL
 - Topic:** CloudFormationSNS
 - Subscription Principal:** arn:aws:iam:138891131060:root

Below the details, there are sections for 'Subscription filter policy' and 'Redrive policy (dead-letter queue)'. At the bottom, a message states: 'No filter policy configured for this subscription. To apply a filter policy, edit this subscription.'

4. Update the stack as following.

CloudFormation - Stack x Dashboard | EC2 | us-east-2 x CloudFormation | us-east-2 x Simple Notification Service | us-east-2 x +

us-east-2.console.aws.amazon.com/sns/v3/home?region=us-east-2#/homepage

Services Search [Alt+S]

EC2

CloudFormation > Stacks > CloudFormation-S3-Template-Assignment > Update stack

Step 1: Update stack

Step 2: Specify stack details

Step 3: Configure stack options

Step 4: Review CloudFormation-S3-Template-Assignment

Update stack

Prerequisite - Prepare template

Prepare template

Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

☐ Use current template ☒ Replace current template ☐ Edit template in designer

Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source

Selecting a template generates an Amazon S3 URL, where it will be stored.

☐ Amazon S3 URL ☒ Upload a template file

Upload a template file

CloudFormation S3 Template.yml

JSON or YAML, formatted file

S3 URL: <https://s3-us-west-1.amazonaws.com/ef-templates-rn74510yp-us-west-1/2021-09-04T211107.888229-CloudFormationS3Template.yml>

CloudFormation - Stack x Dashboard | EC2 | us-east-2 x CloudFormation | us-east-2 x Simple Notification Service | us-east-2 x +

us-east-2.console.aws.amazon.com/sns/v3/home?region=us-east-2#/homepage

Services Search [Alt+S]

EC2

CloudFormation > Stacks > CloudFormation-S3-Template-Assignment

Stacks (1)

Filter status: Active View needed

Stacks

CloudFormation-S3-Template-Assignment

2023-08-16 17:23:52 UTC+0530

CREATE_COMPLETE

CloudFormation-S3-Template-Assignment

Delete Update Stack actions Create stack

Stack info Events Resources Outputs Parameters Template Change sets

Events (6)

Search events

Timestamp	Logical ID	Status	Status reason
2023-09-05 02:41:36 UTC+0530	CloudFormation-S3-Template-Assignment	UPDATE_IN_PROGRESS	User initiated
2023-08-16 17:24:17 UTC+0530	CloudFormation-S3-Template-Assignment	CREATE_COMPLETE	-
2023-08-16 17:24:16 UTC+0530	IntelliPaasGuruS3Bucket	CREATE_COMPLETE	-
2023-08-16 17:23:56 UTC+0530	IntelliPaasGuruS3Bucket	CREATE_IN_PROGRESS	Resource creation initiated
2023-08-16 17:23:55 UTC+0530	IntelliPaasGuruS3Bucket	CREATE_IN_PROGRESS	-
2023-08-16 17:23:52 UTC+0530	CloudFormation-S3-Template-Assignment	CREATE_IN_PROGRESS	User initiated

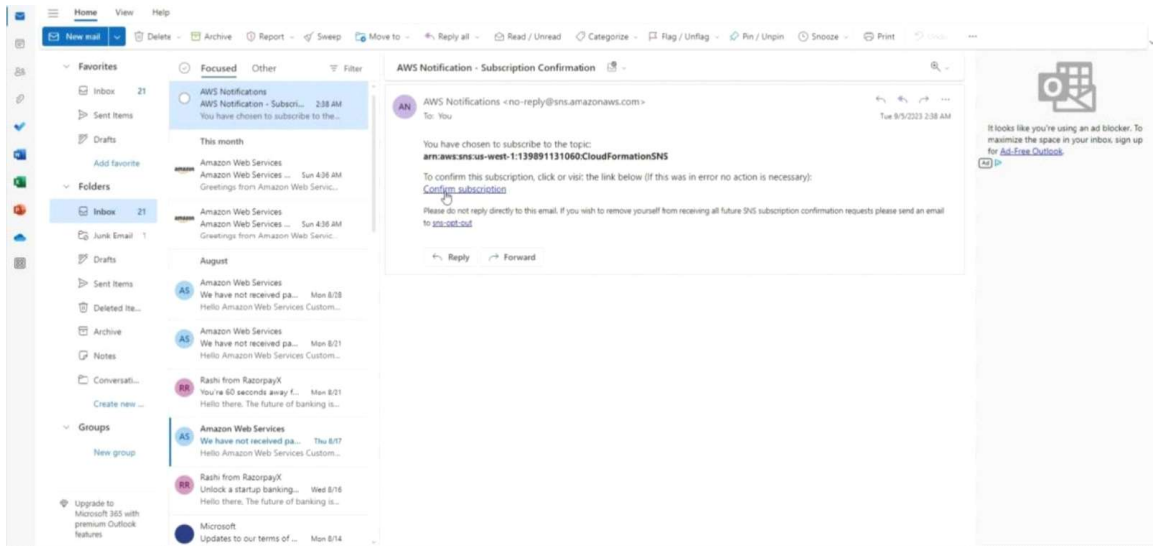
The screenshot shows the AWS CloudFormation console with the 'CloudFormation-S3-Template-Assignment' stack selected. The 'Events' tab is active, displaying a list of 17 events. The stack is in a 'CREATE_COMPLETE' state. The events include:

- 2023-09-05 02:41:43 UTC+0530: CloudFormation-S3-Template-Assignment: UPDATE_COMPLETE
- 2023-09-05 02:41:43 UTC+0530: CloudFormation-S3-Template-Assignment: UPDATE_COMPLETE_CLEANUP_IN_PROGRESS
- 2023-09-05 02:41:42 UTC+0530: MySNSTopicPolicy: CREATE_COMPLETE
- 2023-09-05 02:41:41 UTC+0530: MySNSTopicPolicy: CREATE_IN_PROGRESS (Resource creation Initiated)
- 2023-09-05 02:41:41 UTC+0530: MySNSTopicSubscription: CREATE_COMPLETE
- 2023-09-05 02:41:41 UTC+0530: MySNSTopicSubscription: CREATE_IN_PROGRESS (Resource creation Initiated)
- 2023-09-05 02:41:40 UTC+0530: MySNSTopicSubscription: CREATE_IN_PROGRESS
- 2023-09-05 02:41:40 UTC+0530: MySNSTopicPolicy: CREATE_IN_PROGRESS
- 2023-09-05 02:41:40 UTC+0530: MySNSTopic: CREATE_COMPLETE
- 2023-09-05 02:41:40 UTC+0530: MySNSTopic: CREATE_IN_PROGRESS (Resource creation Initiated)
- 2023-09-05 02:41:38 UTC+0530: MySNSTopic: CREATE_IN_PROGRESS
- 2023-09-05 02:41:36 UTC+0530: CloudFormation-S3-Template-Assignment: UPDATE_IN_PROGRESS (User Initiated)

The screenshot shows the AWS CloudFormation console with the 'CloudFormation-S3-Template-Assignment' stack selected. The 'Overview' tab is active, displaying the following information:

- Stack ID:** `arn:aws:cloudformation:us-west-1:138891131062:stack/CloudFormation-S3-Template-Assignment/91c6f6a0-3c2b-11ee-8444-0678dc001999`
- Status:** UPDATE_COMPLETE
- Status reason:** -
- Root stack:** -
- Parent stack:** -
- Created time:** 2023-08-16 17:23:52 UTC+0530
- Deleted time:** -
- Updated time:** 2023-09-05 02:41:36 UTC+0530
- Drift status:** NOT_CHECKED
- Last drift check time:** -
- Termination protection:** Deactivated
- IAM role:** -

5. Go to mail and check for it.



6. Subscription successfully added.

