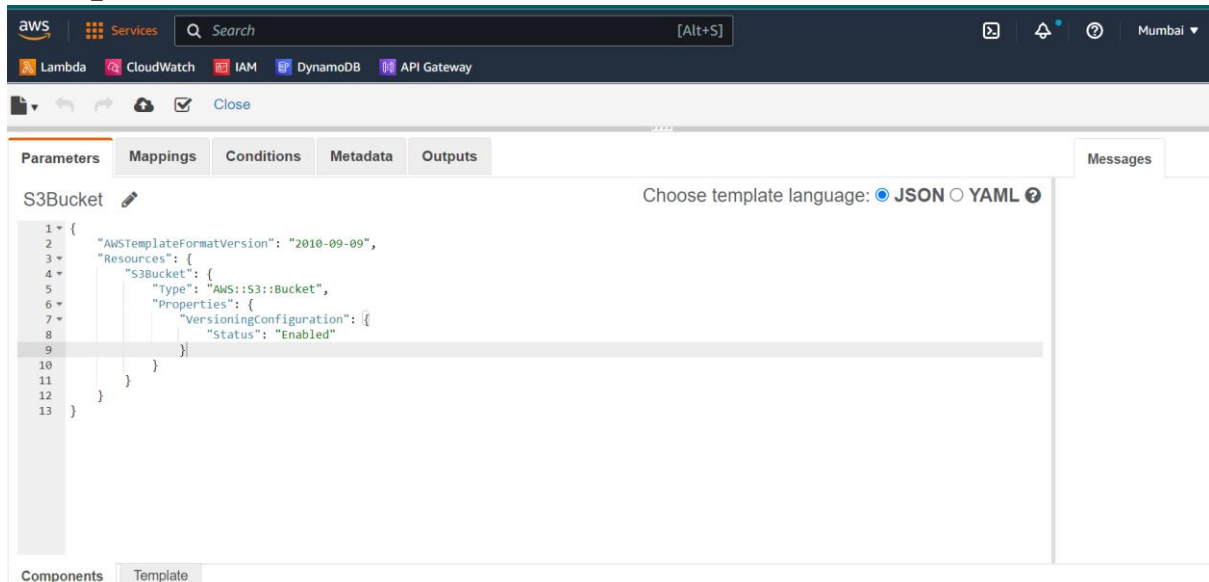


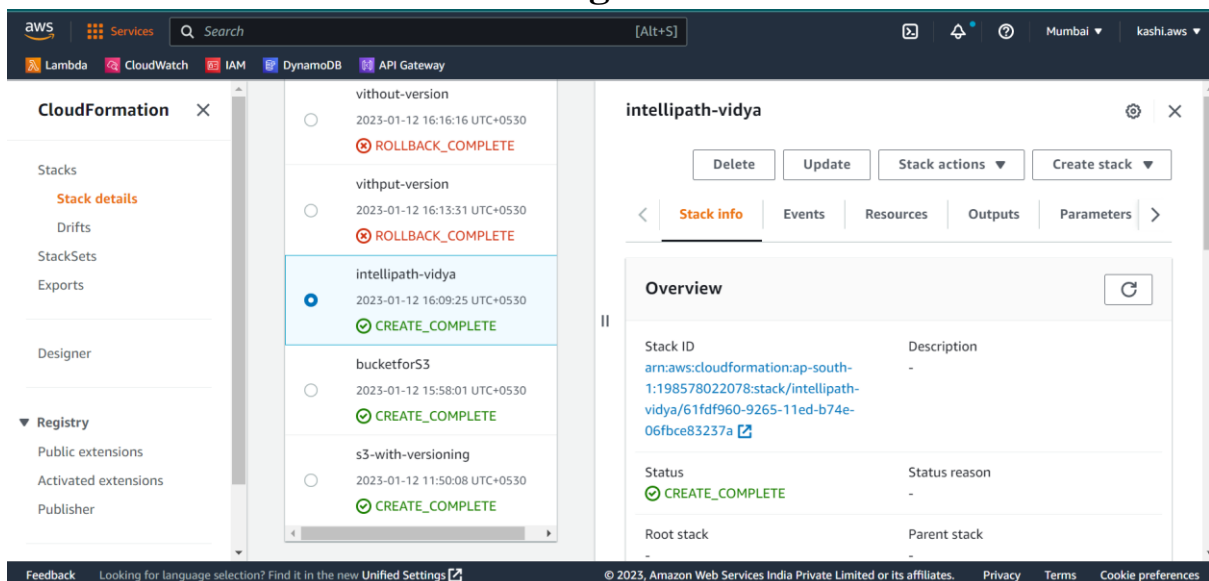
MODULE 7

ASSIGNMENT 1

1. Template for s3 bucket



→ This will enable the versioning for s3 bucket



→ By using designer the stack is successfully created

2. Template created must enable versioning for created bucket

Amazon S3

Learn how to effectively use the S3 Storage Classes.

Bucket overview

| | | |
|----------------------------------|---|--|
| AWS Region | Amazon Resource Name (ARN) | Creation date |
| Asia Pacific (Mumbai) ap-south-1 | arn:aws:s3:::bucketfors3-s3bucket-y7syfaljpvi | January 12, 2023, 15:58:07 (UTC+05:30) |

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

[Edit](#)

Bucket Versioning
Enabled

Multi-factor authentication (MFA) delete

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

<https://s3.console.aws.amazon.com/s3/#> lection? Find it in the new Unified Settings [\[?\]](#)

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Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#)

[Upload](#)

[Show versions](#)

| <input type="checkbox"/> | Name | Type | Version ID | Last modified | Size | Storage class |
|--------------------------|---------------|------|----------------------------------|--|----------|---------------|
| <input type="checkbox"/> | PHOTO (2).jpg | jpg | szWVbS7KVobuiltS.TryqODVYksKP2X | January 12, 2023, 16:22:29 (UTC+05:30) | 242.1 KB | Standard |
| <input type="checkbox"/> | PHOTO (2).jpg | jpg | i4qA1uzm9AKVHAr5W1Pafu81CJsik4wY | January 12, 2023, 16:21:10 (UTC+05:30) | 242.1 KB | Standard |

ASSIGNMENT 2

1. Create 1 VPC and Public Subnet

aws

Services

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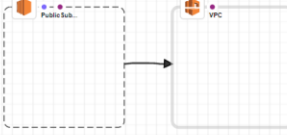
LambdaCloudWatchIAMDynamoDBAPI Gateway

Close

Resource types

- QuickSight
- RAM
- RDS
- Redshift
- RedshiftServerless
- Rekognition
- ResilienceHub
- ResourceExplorer2
- ResourceGroups
- RebaMaker

File: 'new.template'



publicSubnetWithVPC

Choose template language: ☐ JSON ☒ YAML

13 Description: >-
14 IP range (CIDR notation) for the public subnet in the

Components

Template

Messages

Feedback

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LambdaCloudWatchIAMDynamoDBAPI Gateway

CloudFormation > Stacks > VPCSubnet

CloudFormation

Stacks

Stack details

Drifts

StackSets

Exports

Designer

Registry

Public extensions

Activated extensions

Publisher

Stacks (2)

Filter by stack name

Active

View nested

Stacks

VPCSubnet

2023-01-12 19:23:11 UTC+0530

CREATE_COMPLETE

intellipath-vidya

2023-01-12 16:09:25 UTC+0530

DELETE_FAILED

Resources (2)

Search resources

Logical ID

Physical ID

Type

Status

Module

PublicSubnet1

subnet-0f0e01729ca0f9545

AWS::EC2::Subnet

CREATE_COMPLETE

VPC

vpc-07d5c020e574c780e

AWS::EC2::VPC

CREATE_COMPLETE

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The screenshot shows the AWS Management Console interface. On the left, there is a navigation menu with options like 'VPC dashboard', 'EC2 Global View', and 'Virtual private cloud'. The main content area displays the details for a specific subnet, 'subnet-0f0e01729ca0f9545'. The details are organized into a grid with the following information:

| Details | | | |
|--------------------------|---|--------------------------|---|
| Subnet ID | Subnet ARN | State | IPv4 CIDR |
| subnet-0f0e01729ca0f9545 | arn:aws:ec2:ap-south-1:198578022078:subnet/subnet-0f0e01729ca0f9545 | Available | 10.192.10.0/24 |
| Available IPv4 addresses | Availability Zone | Availability Zone ID | Network ACL |
| 251 | ap-south-1a | aps1-az1 | acl-0245bf1a52cb4b77c |
| Network border group | Route table | Auto-assign IPv6 address | Auto-assign customer-owned IPv4 address |
| ap-south-1 | rtb-08351716a5d5606f0 | No | No |
| Default subnet | Auto-assign public IPv4 address | IPv6 CIDR reservations | IPv6 CIDR reservations |
| No | No | - | - |
| Customer-owned IPv4 pool | | | |
| - | | | |

At the bottom of the console, there is a footer with 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', and copyright information for Amazon Web Services India Private Limited.

2 .Template to launch EC2 Linux instance

The screenshot shows the AWS CloudFormation console. The main content area displays the details of an 'ec2-Launch' template. The template is written in YAML and defines the following resources:

```
Resources:
  VPC:
    Type: 'AWS::EC2::VPC'
    Properties:
      CidrBlock: 40.40.0.0/16
      EnableDnsSupport: true
      EnableDnsHostnames: true
      Tags:
        - Key: Name
          Value: Vidya-CF-VPC
  InternetGateway:
    Type: 'AWS::EC2::InternetGateway'
    Properties:
      Tags:
        - Key: Name
          Value: Vidya-CF-VPC-IGW
  InternetGatewayAttachment:
    Type: 'AWS::EC2::VPCGatewayAttachment'
    Properties:
      InternetGatewayId: !Ref InternetGateway
      VpcId: !Ref VPC
  PublicSubnet:
```

On the right side of the console, there is a 'Messages' panel showing a success message: '1/13/2023, 8:42:52 PM converted the template to'. The bottom of the console shows a footer with 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', and copyright information for Amazon Web Services India Private Limited.

➔ This launches the EC2 instance along with IG ,SUBNET,VPC

Assignment -3

Module-7: Cloud Formation and SNS Assignment - 3

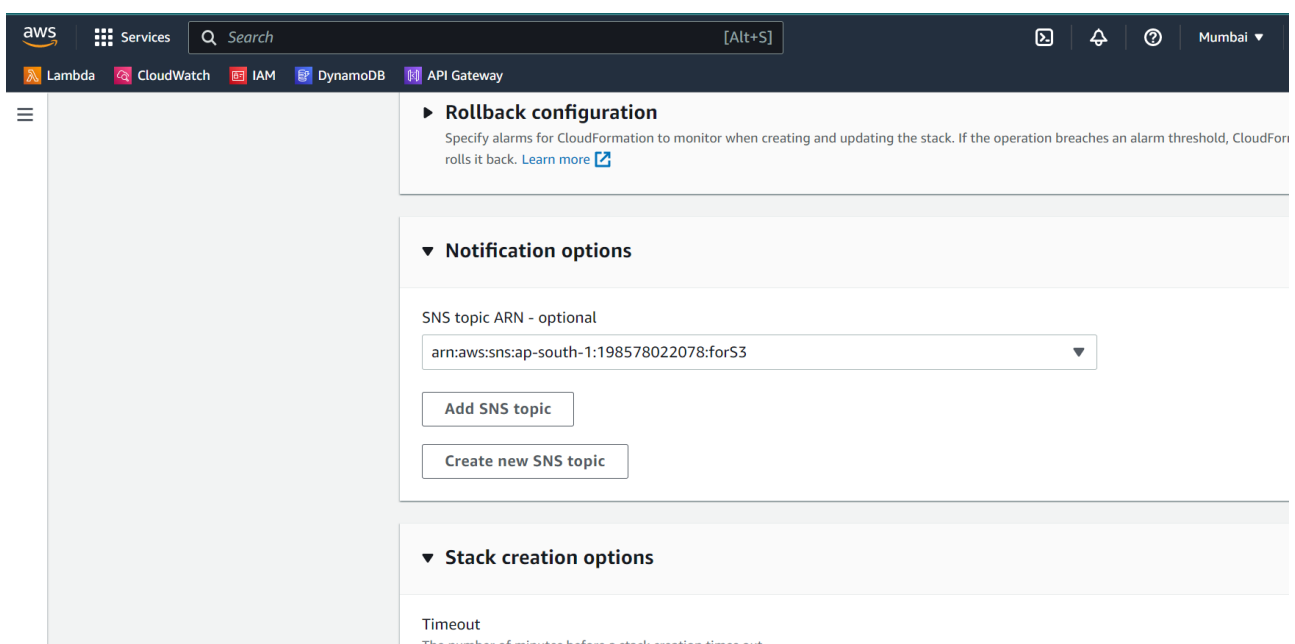
You have been asked to:

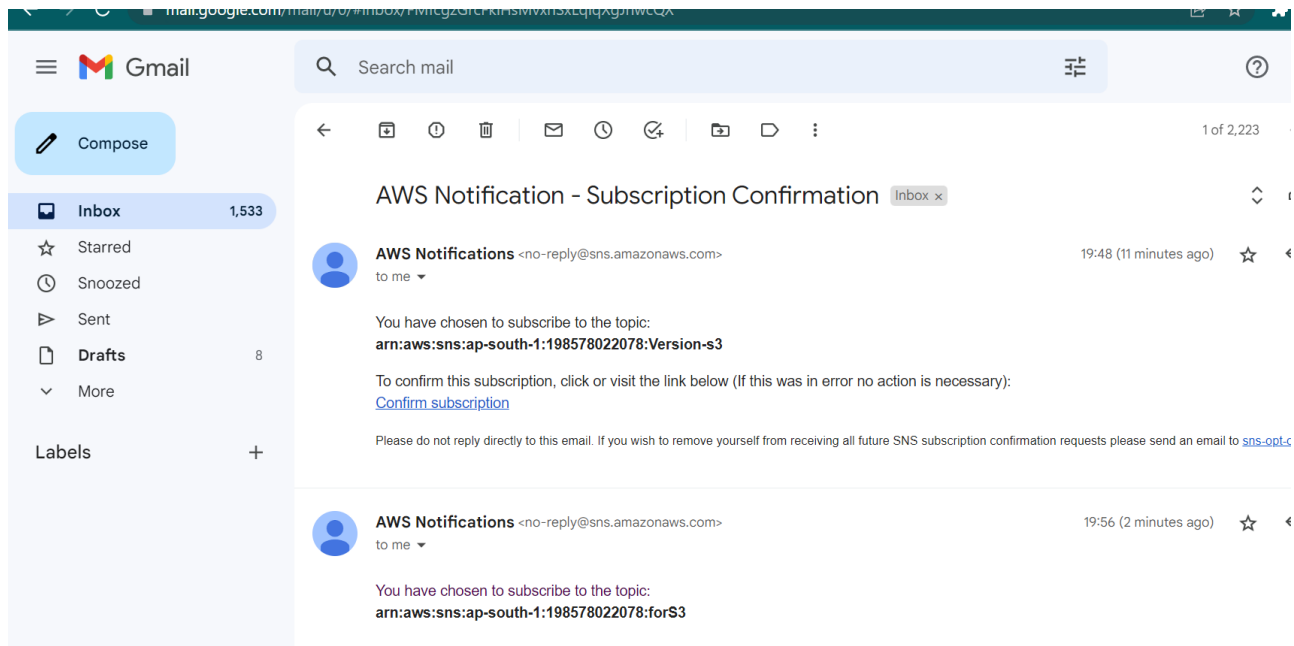
1. Use the template from CloudFormation task 1
2. Add Notification to the CloudFormation stack using SNS, so you get a notification via mail for every step of the stack creation process

→ Same by Designer created stack



→ Created SNS Topic for notification topic





➔ Received mail for the same

ASSIGNMENT -4

Assignment -4

Module-7: SQS and SES Assignment - 4

You have been asked to:

1. Create a FIFO SQS Queue and test by sending messages
 2. Register your mail in SES and send a test mail to yourself
-

aws

Services

Search

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Mumbai

ka

Lambda

CloudWatch

IAM

DynamoDB

API Gateway

Name

qapna.fifo

Type

FIFO

High throughput mode is on

ARN

arn:aws:sqs:ap-south-1:198578022078:qapna.fifo

Encryption

Amazon SQS key (SSE-SQS)

URL

https://sqs.ap-south-1.amazonaws.com/198578022078/qapna.fifo

Dead-letter queue

-

▼ Hide

Created

Jan 21, 2023, 20:08:07 GMT+5:30

Maximum message size

256 KB

Last updated

Jan 21, 2023, 20:08:07 GMT+5:30

Message retention period

1 Day

Default visibility timeout

30 Seconds

Messages available

2

Delivery delay

0 Seconds

Messages in flight (not available to other consumers)

Receive message wait time

0 Seconds

Feedback

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→ Created FIFO Queue

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CloudWatch

IAM

DynamoDB

API Gateway

Send messages to and receive messages from a queue.

Send message

Info

Clear content

Send message

✔ Your message has been sent and is ready to be received.

View details

×

Message body

Enter the message to send to the queue.

hi first

Message group ID

The tag that specifies that a message belongs to a specific message group.

grp1

Message deduplication ID

The token used for deduplication of messages within the deduplication interval.

id1

▶ Message attributes - Optional

Info

Feedback

Looking for language selection? Find it in the new Unified Settings

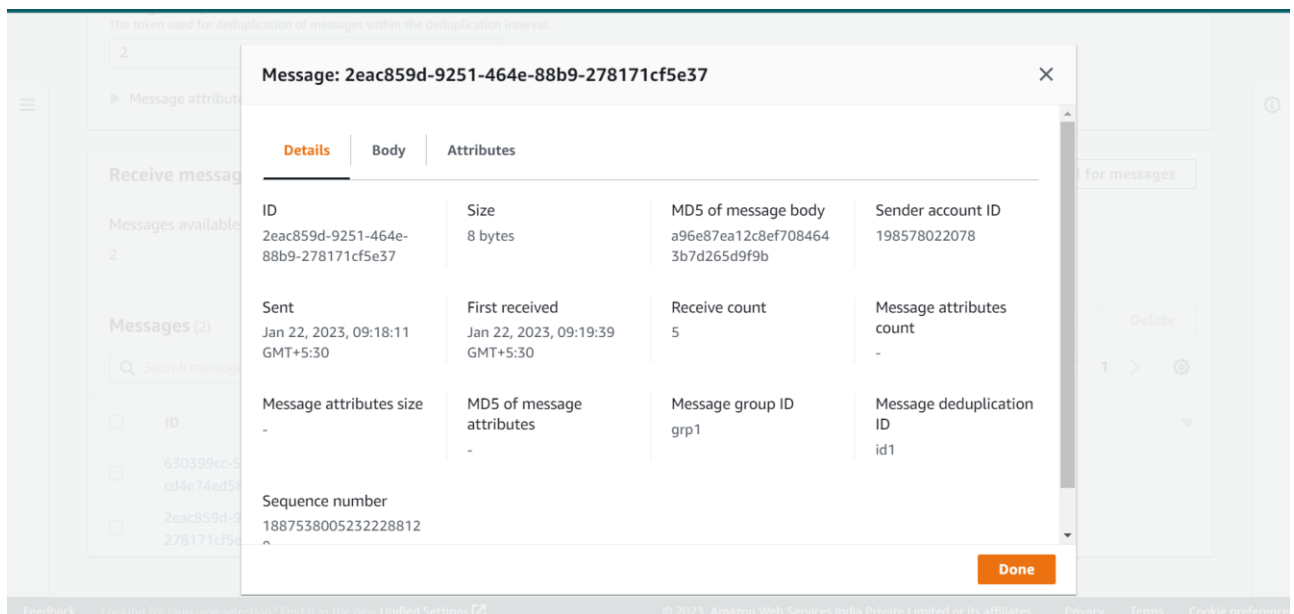
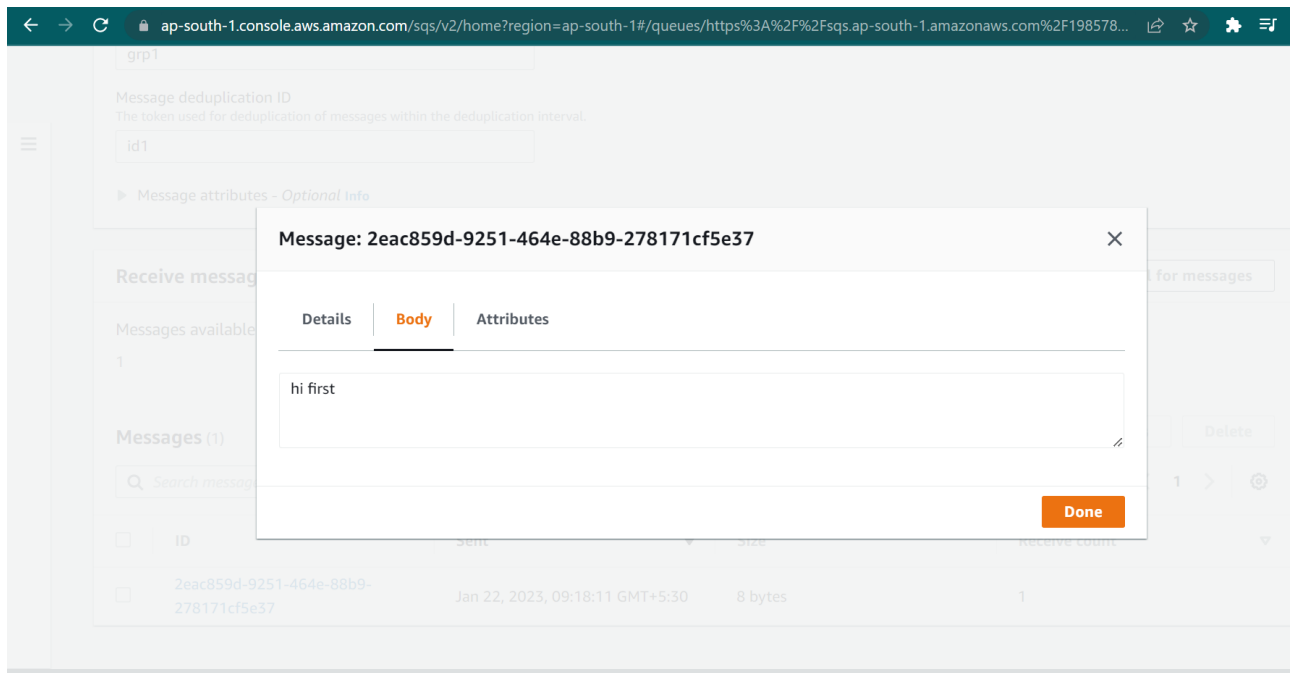
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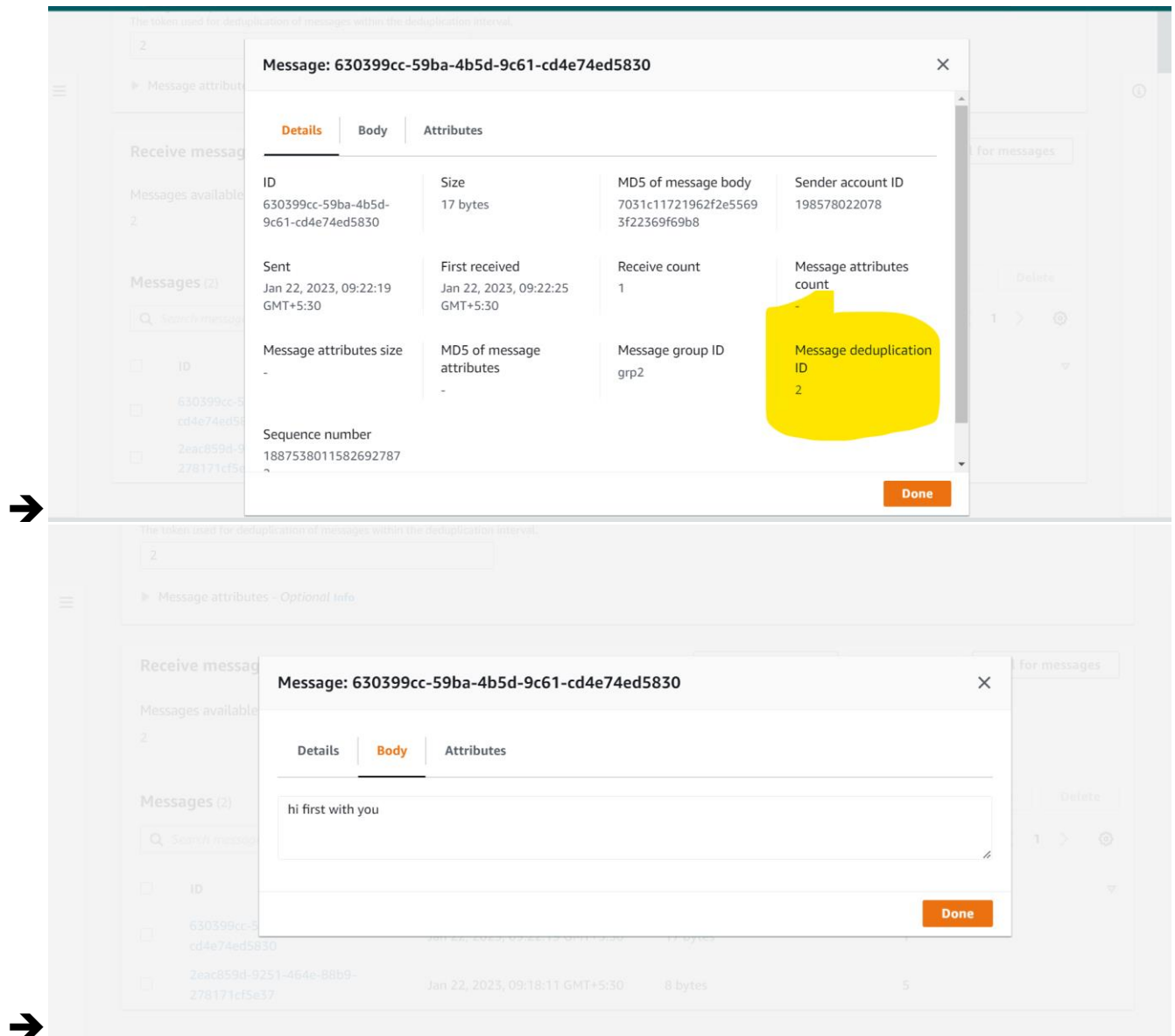
Terms

C

→ Sending the messages for will poll



➔ **Deduplication id when changed only new message body updated is shown up . The received message with different body does not get updated unless message deduplication ID is newly created**



→ Body is updated with update in Message deduplication-ID

b.

The screenshot shows the 'Create identity' page in the AWS Management Console. The breadcrumb trail is 'Amazon SES > Configuration: Verified identities > Create identity'. The page title is 'Create identity'. Below the title, a paragraph explains that a verified identity is a domain, subdomain, or email address used for sending email through Amazon SES. The 'Identity details' section has an 'Info' link. Under 'Identity type', there are two radio buttons: 'Domain' (unselected) and 'Email address' (selected). The 'Email address' option is highlighted with a blue border. Below this, the 'Email address' field contains 'shirodkarvidyaa@gmail.com'. A note states that email addresses can contain up to 320 characters, including plus signs (+), equals signs (=), and underscores (_). At the bottom, there is an unchecked checkbox for 'Assign a default configuration set'.

Amazon SES > Configuration: Verified identities > Create identity

Create identity

A *verified identity* is a domain, subdomain, or email address you use to send email through Amazon SES. Identity verification at the domain level extends to all email addresses under one verified domain identity.

Identity details [Info](#)

Identity type

☐ Domain
To verify ownership of a domain, you must have access to its DNS settings to add the necessary records.

☒ Email address
To verify ownership of an email address, you must have access to its inbox to open the verification email.

Email address

shirodkarvidyaa@gmail.com

Email address can contain up to 320 characters, including plus signs (+), equals signs (=) and underscores (_).

☐ Assign a default configuration set
Enabling this option ensures that the assigned configuration set is applied to messages sent from this identity by default whenever a configuration set is available.

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➔ Created identity and confirmed from the inbox

The screenshot shows the 'Email format' page in the AWS Management Console. The breadcrumb trail is 'Amazon SES > Configuration: Verified identities > Email format'. The page title is 'Email format'. Under 'Email format', there are two radio buttons: 'Formatted' (selected) and 'Raw' (unselected). The 'Formatted' option is highlighted with a blue border. Below this, the 'From-address' field contains 'shirodkarvidyaa@gmail.com'. The 'Scenario' section has an 'Info' link and a dropdown menu showing 'Successful delivery' with the email address 'success@simulator.amazonses.com'. The 'Subject' field contains 'success'. The 'Body - optional' field is empty.

Amazon SES > Configuration: Verified identities > Email format

Email format

Email format

☒ Formatted
Choose this option if you want to construct a simple test message using the form provided. SES takes the information entered in the form and parses it into email format for you.

☐ Raw
Choose this option if you want to send a more complex test message, such as one that uses HTML or includes attachments. This option requires you to format the entire message yourself.

From-address

shirodkarvidyaa@gmail.com

Scenario [Info](#)

Choose the email sending scenario that you want to simulate. Each scenario corresponds to a different recipient email address managed by the mailbox simulator. To specify a custom recipient, select Custom.

Successful delivery
success@simulator.amazonses.com

Subject

success

Body - optional

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➔ Setting the body for test message

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Lambda

CloudWatch

IAM

DynamoDB

API Gateway

Amazon SES

Account dashboard

Reputation metrics

SMTP settings

Configuration

Verified identities

Configuration sets

Dedicated IPs

Email templates

Suppression list

Cross-account notifications

Virtual Deliverability Manager

Successfully sent a test email to success@simulator.amazonses.com

Amazon SES > Configuration: Verified identities > shirodkarvidyaa@gmail.com

shirodkarvidyaa@gmail.com

Delete

Send test email

Legacy TXT records

Domain verification in Amazon SES is now based on *DomainKeys Identified Mail (DKIM)*, an email authentication standard that receiving mail servers use to validate an email's authenticity. Configuring DKIM in your domain's DNS settings confirms to SES that you're the identity owner, eliminating the need for TXT records. Domain identities that were verified using TXT records do not need to be reverified; however, we still recommend enabling DKIM signatures to enhance the deliverability of your mail with DKIM-compliant email providers. **To access your legacy TXT records, download Legacy TXT record set as .csv**

Summary for shirodkarvidyaa@gmail.com

| | | |
|-----------------|--|-----------------------|
| Identity status | Amazon Resource Name (ARN) | AWS Region |
| Verified | arn:aws:ses:ap-south-1:123456789012:identity/shirodkarvidyaa@gmail.com | Asia Pacific (Mumbai) |