

# Advance AWS

## AWS Project- 1 (Day -11)

Student:

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Teacher:

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Course:

Advance AWS Cloud Computing with DevOps  
Fundamentals

Institute:

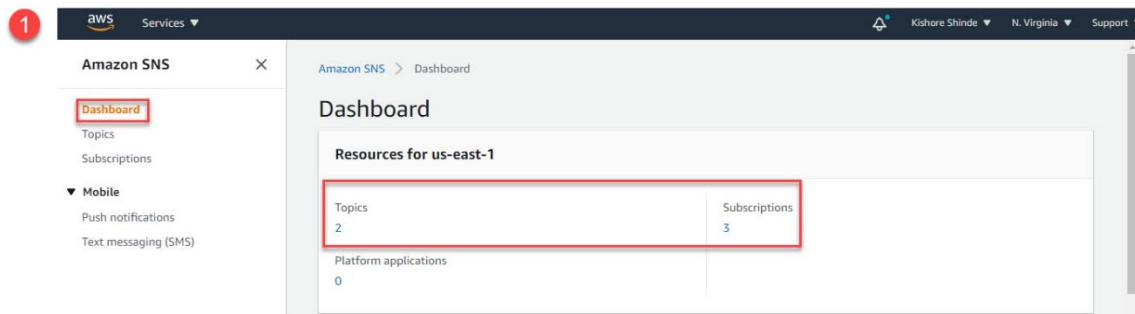
Lets Upgrade

# Project 01: Working with SNS/SQS/SES/CloudWatch

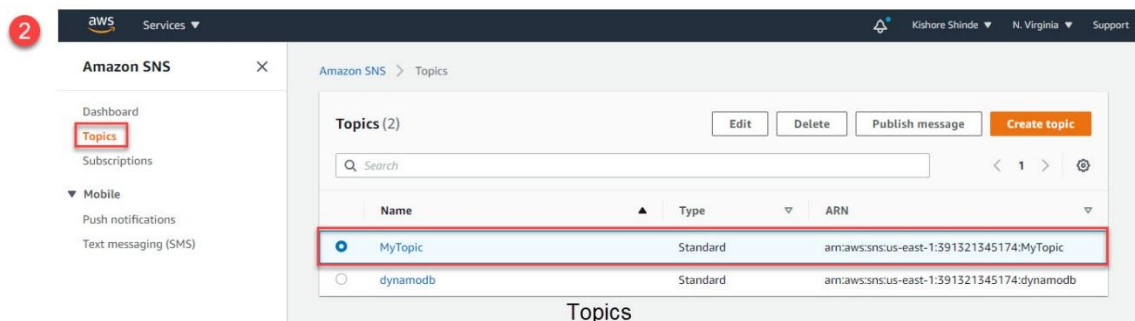
## Task 1 : Working with SNS

### SS1 : SNS Console

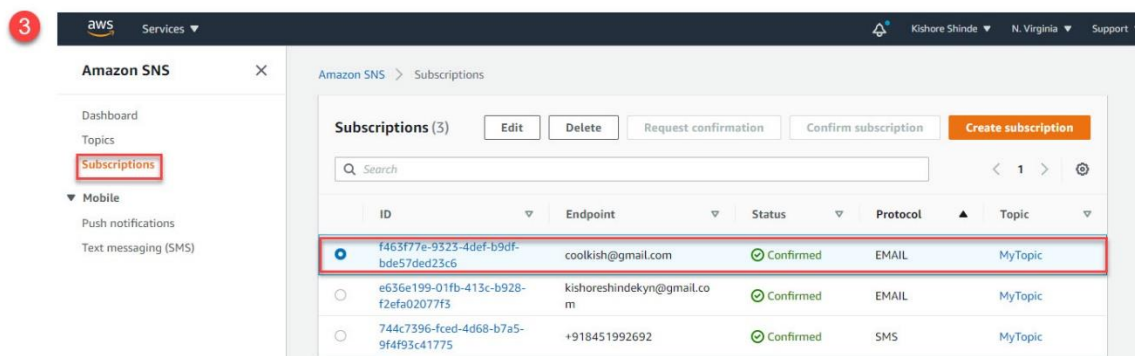
#### SNS Console



Dashboard



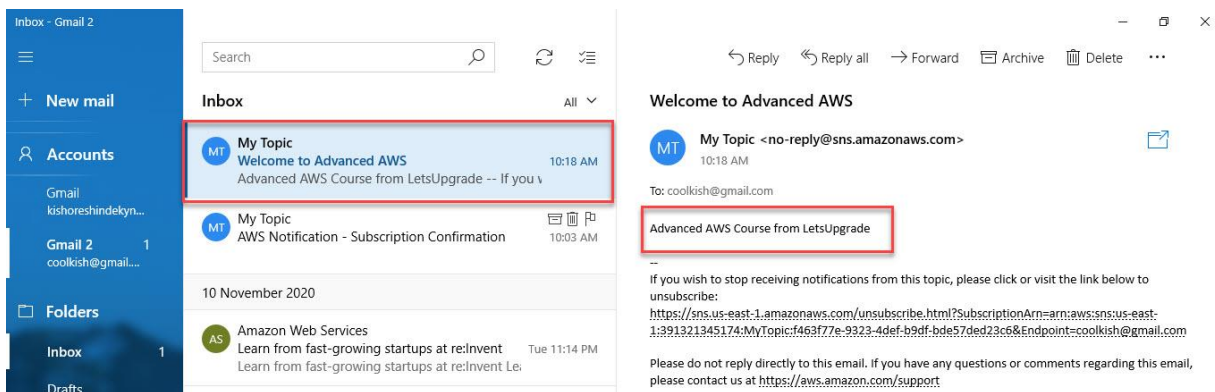
Topics



Subscriptions

S. No.	Screen Name	Details
1.	Dashboard	<ul style="list-style-type: none"><li>Topics: 2</li><li>Subscription: 3</li></ul>
2.	Topics	<ul style="list-style-type: none"><li>Name: MyTopic</li><li>Type: Standard</li></ul>
3.	Subscriptions	<ul style="list-style-type: none"><li>End Point: coolkish@gmail.com</li><li>Protocol: Email</li><li>Topic: MyTopic</li></ul>

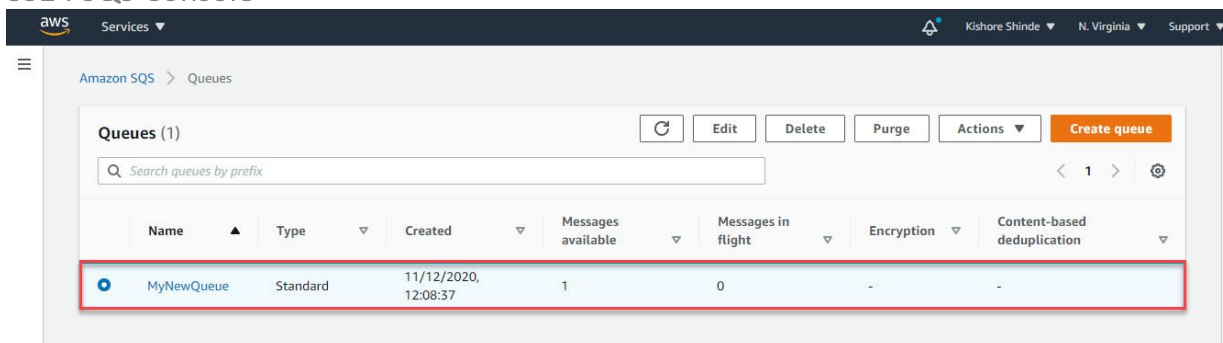
## SS2 : Inbox with Published Message



- Received message on email id that was configured in Endpoint while creating subscription.

## Task 2 : Working with SQS

### SS1 : SQS Console



- Details
  - Name : MyNew Queue
  - Type : Standard

## SS2 : Poll for messages and message window

The screenshot shows the AWS Management Console interface for an Amazon SQS queue named 'MyNewQueue'. The page is titled 'Send and receive messages' and includes a breadcrumb trail: 'Amazon SQS > Queues > MyNewQueue > Send and receive messages'.

**Send message section:**

- Message body:** A text input field with the placeholder 'Enter message'.
- Delivery delay:** A dropdown menu set to '0' seconds. A note below states: 'Should be between 0 seconds and 15 minutes.'
- Buttons:** 'Clear content' and 'Send message'.

**Receive messages section:**

- Buttons:** 'Edit poll settings', 'Stop polling', and 'Poll for messages'.
- Summary table:**

Messages available	Polling duration	Maximum message count	Polling progress
1	30	10	0.1 receives/second

**Messages (1) section:**

- Search:** A search bar with the placeholder 'Search messages'.
- Buttons:** 'View details' and 'Delete'.
- Table:**

<input checked="" type="checkbox"/>	ID	Sent	Size	Receive count
<input checked="" type="checkbox"/>	9b301734-7052-436f-bf14-3640c8625d35	11/12/2020, 12:27:37	985 bytes	1

- Details :
  - Messages available : 1
  - Polling duration : 30
  - Maximum message count : 10
  - Polling progress : 0.1 receive/second

## Task 3 : Working with SES

### SS1 : Inbox Mail Verification

The screenshot shows a Gmail inbox on the left with a list of emails. The email from 'Amazon Web Services' is highlighted with a red box. On the right, the open email is displayed. The email is from 'Amazon Web Services <no-reply-aws@amazon.com>' and is titled 'Amazon Web Services – Email Address Verification Request in region US East (N. Virginia)'. The body of the email contains a verification request for the email address 'kishoreshindekyn@gmail.com'. It includes a long URL for verification and a warning that the link expires 24 hours after the request. The email also mentions that the request will not be processed unless the address is confirmed using the provided URL.

**Inbox - Gmail**

Search

**Inbox** All

- Amazon Web Services**  
Amazon Web Services – Email Address Verification 12:57 PM  
Dear Amazon Web Services Customer, We have rec
- Akshay Choudalwar via LetsUpgrade  
Akshay Choudalwar posted It would have been nice 12:34 PM  
Akshay Choudalwar posted It would have been nice
- Paridhi Agarwal via LetsUpgrade  
Paridhi Agarwal posted Can someone send me the 12:15 PM  
Paridhi Agarwal posted Can someone send me the
- Shivani Sorte via LetsUpgrade  
Shivani Sorte asked question Can't upload the solut 11:56 AM  
Shivani Sorte asked question Can't upload the solut
- Hrushikesh Das via LetsUpgrade  
Hrushikesh Das asked question In Data Science assi 11:09 AM  
Hrushikesh Das asked question In Data Science assi
- Poorvi Katti via LetsUpgrade  
Poorvi Katti asked question In Assignment 3 Questi 11:03 AM  
Poorvi Katti asked question In Assignment 3 Quest
- Google Forms  
LetsUpgrade Data Science Essentials Batch 1 - Assig 01:15 AM  
Thanks for filling out LetsUpgrade Data Science Ess

**Amazon Web Services – Email Address Verification Request in region US East (N. Virginia)**

Amazon Web Services <no-reply-aws@amazon.com> 12:57 PM

To: kishoreshindekyn@gmail.com

Dear Amazon Web Services Customer,

We have received a request to authorize this email address for use with Amazon SES and Amazon Pinpoint in region US East (N. Virginia). If you requested this verification, please go to the following URL to confirm that you are authorized to use this email address:

[https://email-verification.us-east-1.amazonaws.com/?context=391321345174&X-Amz-Date=20201112T072723Z&Identity.IdentityName=kishoreshindekyn%40gmail.com&X-Amz-Algorithm=AWS4-HMAC-SHA256&Identity.IdentityType=EmailAddress&X-Amz-SignedHeaders=host&X-Amz-Credential=AKIAIR7UYJEP5GNMIX6A%2F20201112%2Fus-east-1%2Fses%2Faws4\\_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=d5f04369c4a2dc1732907ed92ead196bd5e788e6051c0a108e0a45d05452a4d0](https://email-verification.us-east-1.amazonaws.com/?context=391321345174&X-Amz-Date=20201112T072723Z&Identity.IdentityName=kishoreshindekyn%40gmail.com&X-Amz-Algorithm=AWS4-HMAC-SHA256&Identity.IdentityType=EmailAddress&X-Amz-SignedHeaders=host&X-Amz-Credential=AKIAIR7UYJEP5GNMIX6A%2F20201112%2Fus-east-1%2Fses%2Faws4_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=d5f04369c4a2dc1732907ed92ead196bd5e788e6051c0a108e0a45d05452a4d0)

Your request will not be processed unless you confirm the address using this URL. This link expires 24 hours after your original verification request.

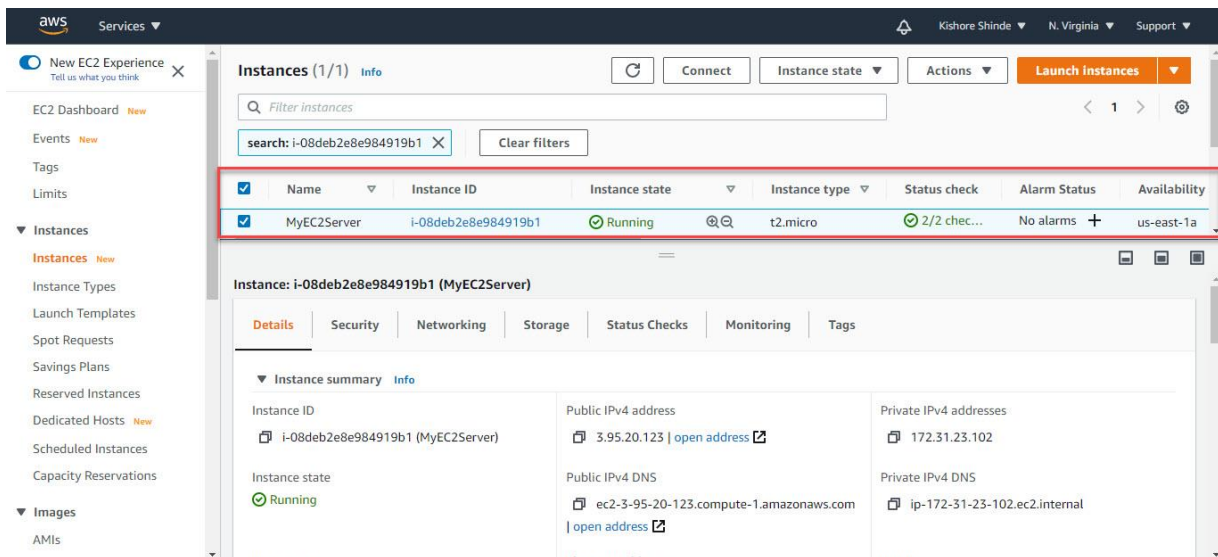
If you did NOT request to verify this email address, do not click on the link. Please note that many times, the situation isn't a phishing attempt, but either a misunderstanding of how to use our service, or someone setting up email-sending capabilities on your behalf as part of a legitimate service, but without having fully communicated the procedure first. If you are still concerned, please forward this notification to [aws-email-domain-verification@amazon.com](mailto:aws-email-domain-verification@amazon.com) and let us know in the forward that you did not request the verification.

To learn more about sending email from Amazon Web Services, please refer to the Amazon SES [Developer Guide](https://docs.aws.amazon.com/ses/latest/DeveloperGuide/Welcome.html) at <https://docs.aws.amazon.com/ses/latest/DeveloperGuide/Welcome.html> and

- Email address verification request on the mail id provided in Amazon SES for verifying Email Address.

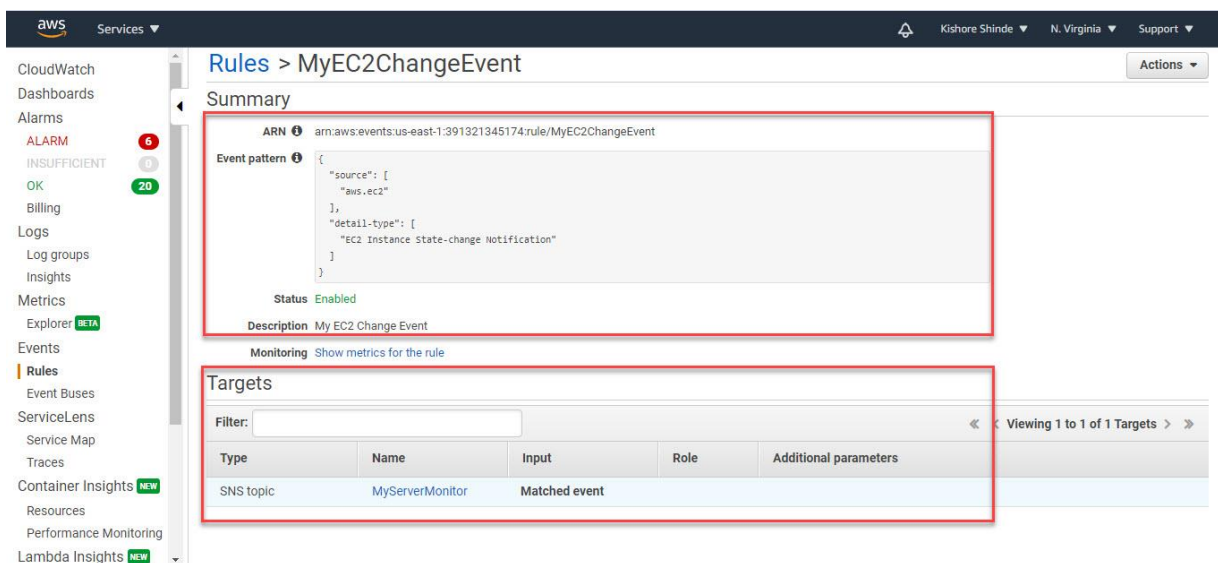
## Task 4 : Triggering CloudWatch Event & SNS Notification

### SS1 : EC2 Console



- Instance Details :
  - Name : MyEC2Server
  - Instance State : Running

### SS2 : Rule Configuration



- Rule Name: MyEC2ChangeEvent
- Service Name : EC2
- Event Type : EC2 Instance State-change Notification

## SS3 : SNS Topic

The screenshot shows the Amazon SNS console interface. On the left, the 'Topics' menu item is highlighted. The main content area displays the details for the 'MyServerMonitor' topic. The 'Details' section includes the following information:

Field	Value
Name	MyServerMonitor
Display name	-
ARN	arn:aws:sns:us-east-1:391321345174:MyServerMonitor
Topic owner	391321345174
Type	Standard

Below the details, there are tabs for 'Subscriptions', 'Access policy', 'Delivery retry policy (HTTP/S)', 'Delivery status logging', 'Encryption', and 'Tags'. The 'Subscriptions' tab is active, showing a table with one subscription:

ID	Endpoint	Status	Protocol
3c77821e-a718-41a5-9156-453fbb2ebcbe	kishoreshindekyn@gmail.com	Confirmed	EMAIL

- Topic Details
  - Name : MyServerMonitor
  - Type : Standard
  - Subscription :
    - Endpoint : kishoreshindekyn@gmail.com
    - Status : Confirmed
    - Protocol : EMAIL

## SS4 : EC2 State change Event Notification

The screenshot displays a Gmail inbox on the left and a detailed view of an AWS Notification Message on the right.

**Gmail Inbox:**

- Search bar and filters (All, etc.) are at the top.
- The inbox list shows several AWS Notifications from 'AWS Notifications' (sender: kishoreshindekyn@gmail.com) with the following states: terminated, shutting-down, running, pending, stopped, and stopping.
- Below these are 'AWS Notifications - Subscription Confirmation' and an 'Amazon Web Services - Email Address Verification' message.

**AWS Notification Message Detail:**

- Subject: AWS Notification Message
- From: AWS Notifications <no-reply@sns.amazonaws.com>
- To: kishoreshindekyn@gmail.com
- The message body contains a JSON payload for an EC2 Instance State-change Notification, which is highlighted with a red box:

```
{
  "version": "0",
  "id": "265cdd8-d561-d61b-d0aa-ce4adb3cdd7",
  "detail-type": "EC2 Instance State-change Notification",
  "source": "aws.ec2",
  "account": "391321345174",
  "time": "2020-11-12T08:20:36Z",
  "region": "us-east-1",
  "resources": [
    {
      "arn": "aws:ec2:us-east-1:391321345174:instance/i-08deb2e8e984919b1",
      "detail": {
        "instance-id": "i-08deb2e8e984919b1",
        "state": "terminated"
      }
    }
  ]
}
```
- Below the JSON, there is an unsubscribe link: <https://sns.us-east-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-1:391321345174:MyServerMonitor:3c77821e-a718-41a5-9156-453fbb2ebc9c&Endpoint=kishoreshindekyn@gmail.com>
- A footer note states: "Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>"

- State change mails sequentially in Mailbox
  - stopping
  - stopped
  - pending
  - running
  - shutting-down
  - terminated

xxx---Project 1 Ends Here---xxx