

# Assignment Day 11 | 7th November 2020

## Question 1:

### Task 1: Working with SNS

#### ss1: Sns console

The screenshot shows the AWS SNS console homepage. At the top, there's a navigation bar with tabs for 'Learn with LetsUpgrade - Online', 'Simple Notification Service', and 'Inbox (3,044) - pankubhole78@gmail.com'. Below the navigation is a search bar and a user profile section. The main content area has a dark header with the title 'Amazon Simple Notification Service' and a subtitle 'Pub/sub messaging for microservices and serverless applications.' A call-to-action button 'Create topic' is visible. To the right, there are sections for 'Benefits and features' (listing 'Reliably deliver messages with durability' and 'Automatically scale your workload'), 'Pricing' (noting no upfront costs), and 'Documentation'. At the bottom, there's a footer with links for 'Feedback', 'English (US)', 'Privacy Policy', 'Terms of Use', and a timestamp '11:02 14/11/2020'.

The screenshot shows the 'Topics' page in the AWS SNS console. The left sidebar has 'Dashboard', 'Topics' (which is selected and highlighted in red), and 'Subscriptions'. Under 'Mobile', it lists 'Push notifications' and 'Text messaging (SMS)'. The main content area shows a topic named 'Newtopic' with details: Name (Newtopic), ARN (arn:aws:sns:ap-south-1:618639665310:Newtopic), and Type (Standard). There are buttons for 'Edit', 'Delete', and 'Publish message'. Below the topic details, there are tabs for 'Subscriptions', 'Access policy', 'Delivery retry policy (HTTP/S)', 'Delivery status logging', 'Encryption', and 'Tags'. The 'Subscriptions' tab shows a table with one row: 'ID' (empty), 'Endpoint' (empty), 'Status' (empty), and 'Protocol' (empty). A note says 'No subscriptions found'. At the bottom, there's a footer with links for 'Feedback', 'English (US)', 'Privacy Policy', 'Terms of Use', and a timestamp '11:02 14/11/2020'.

Amazon SNS > Subscriptions

**Subscriptions (4)**

ID	Endpoint	Status	Protocol	Topic
0b014a18-dbcd-4bcf-ae99-01d7a732a2f4	bhaskarhole15051940@gmail.com	Confirmed	EMAIL	Mytopic
3cc53eb0-b531-4437-99b6-d377154bf2cc	pankubhole78@gmail.com	Confirmed	EMAIL	Newtopic
Pending confirmation	kishoreshindekyn@gmail.com	Pending confirmation	EMAIL	Mytopic
88560ef7-19aa-44ff-af65-75afe44e6600	pankubhole78@gmail.com	Confirmed	EMAIL	Mytopic



Amazon SNS > Topics > Newtopic

**Newtopic**

**Details**

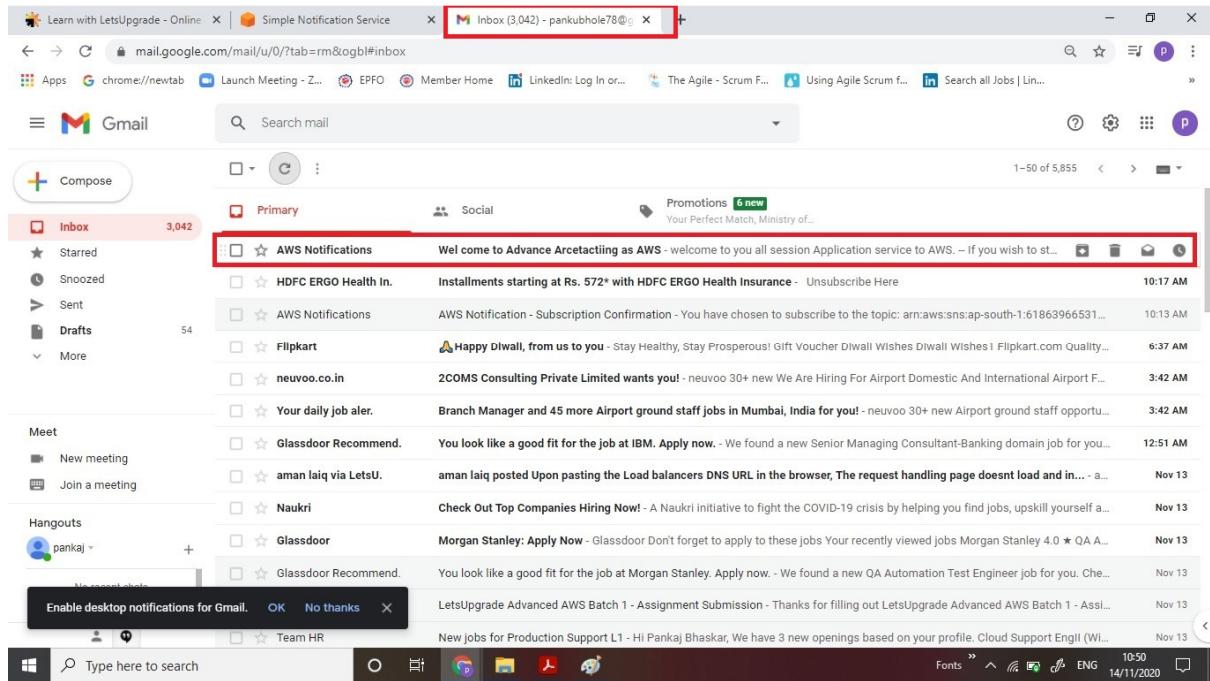
Name	Display name
Newtopic	-
ARN	Topic owner
arn:aws:sns:ap-south-1:618639665310:Newtopic	618639665310
Type	
Standard	

**Subscriptions (1)**

ID	Endpoint	Status	Protocol
3cc53eb0-b531-4437-99b6-d377154bf2cc	pankubhole78@gmail.com	Confirmed	EMAIL

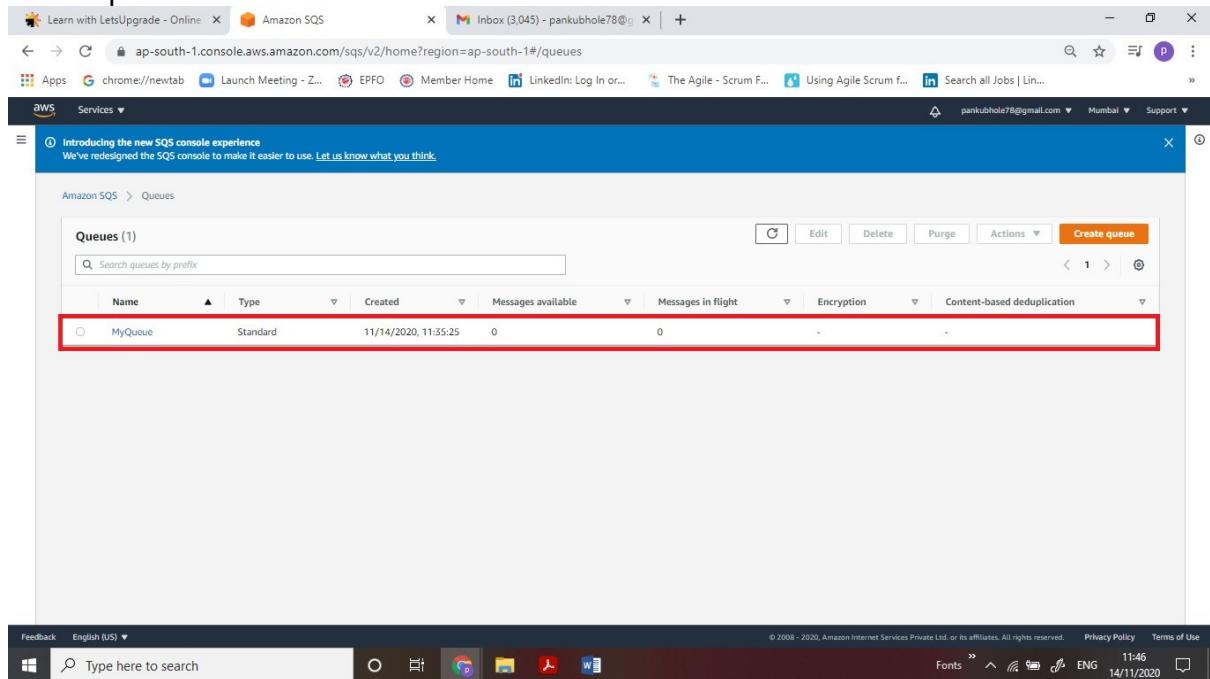


## ss2: your inbox with the published message



## Task 2: Working with SQS

### ss1: Sqs console



Introducing the new SQS console experience  
We've redesigned the SQS console to make it easier to use. Let us know what you think.

Amazon SQS > Queues > MyQueue

**MyQueue**

**Details** [Info](#)

Name MyQueue	Type Standard	ARN arn:aws:sqs:ap-south-1:618639665310:MyQueue
Encryption Disabled	URL <a href="https://sns.ap-south-1.amazonaws.com/618639665310/MyQueue">https://sns.ap-south-1.amazonaws.com/618639665310/MyQueue</a>	Dead-letter queue Disabled
<a href="#">More</a>		

SNS subscriptions | Lambda triggers | Dead-letter queue | Monitoring | Tagging | Access policy | Encryption

**SNS subscriptions (0)** [Info](#)

Subscription ARN	Topic ARN
No Amazon SNS subscriptions	
To allow your queue to receive messages, subscribe it to an Amazon SNS topic.	
<a href="#">Subscribe to Amazon SNS topic</a>	

[View in SNS](#) [Delete](#) [Subscribe to Amazon SNS topic](#)

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Amazon SNS > Topics > Newtopic

**Newtopic**

**Details**

Name Newtopic	Display name ~
ARN arn:aws:sns:ap-south-1:618639665310:Newtopic	Topic owner 618639665310
Type Standard	

Subscriptions | Access policy | Delivery retry policy (HTTP/S) | Delivery status logging | Encryption | Tags

**Subscriptions (2)**

ID	Endpoint	Status	Protocol
3cc53eb0-b531-4437-99b6-d377154bf2cc	pankubhole78@gmail.com	Confirmed	EMAIL
292e4e6a-f2f9-469c-8789-208a477a2c56	arn:aws:sqs:ap-south-1:618639665310:MyQueue	Confirmed	SQS

[Edit](#) [Delete](#) [Request confirmation](#) [Confirm subscription](#) [Create subscription](#)

Feedback English (US) ▾ © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

## ss2: poll for messages and display message window

Send and receive messages

Send messages to and receive messages from a queue.

Send message info

Message body  
Enter the message to send to the queue.

Delivery delay Info  
0 Seconds

Message attributes - Optional Info

Receive messages Info

Messages available: 1 Polling duration: 30 Maximum message count: 10 Polling progress: 0 receives/second

ID	Sent	Size	Receive count
42868fc0-61f6-44b9-8392-04cd198b4daa	11/14/2020, 12:05:38	963 bytes	2

Inbox (3,046)

Primary Social Promotions 8 new

AWS Notifications Happy dewali - Wish you happy dewali to all -- If you wish to stop receiving notifications from this topic, please click or ...

Shine.com Irrelevant Job alerts? Please update profile and get the most suitable Jobs - Dear Pankaj, Let the recruiters know about your cur...

IIM Lucknow Apply for IIM Lucknow General Management Programme for IT Professionals - View In Browser \*|MC\_PREVIEW\_TEXT|\* Dear IIM...

Order Now Skin Whitening Soap Enriched with Papaya Extract - Unsubscribe Here

AWS Notifications Wel come to Advance Aractacting as AWS - welcome to you all session Application service to AWS. -- If you wish to stop receiv...

HDFC ERGO Health In. Installments starting at Rs. 572\* with HDFC ERGO Health Insurance - Unsubscribe Here

AWS Notifications AWS Notification - Subscription Confirmation - You have chosen to subscribe to the topic: arn:aws:sns:ap-south-1:61863966531...

Flipkart Happy Diwali, from us to you - Stay Healthy, Stay Prosperous! Gift Voucher Diwali Wishes Diwali Wishes1 Flipkart.com Quality...

neuvoo.co.in 2COMS Consulting Private Limited wants you! - neuvoo 30+ new We Are Hiring For Airport Domestic And International Airport F...

Your daily job alert. Branch Manager and 45 more Airport ground staff jobs in Mumbai, India for you! - neuvoo 30+ new Airport ground staff opportu...

Glassdoor Recommend. You look like a good fit for the job at IBM. Apply now. - We found a new Senior Managing Consultant-Banking domain job for you...

aman laiq posted Upon pasting the Load balancers DNS URL in the browser, The request handling page doesnt load and in... - a...

Check Out Top Companies Hiring Now! - A Naukri initiative to fight the COVID-19 crisis by helping you find jobs, upskill yourself a...

Enable desktop notifications for Gmail. OK No thanks

### Task 3: Working with SES

The screenshot shows the AWS SES Management Console home page. At the top, there are three tabs: "Learn with LetsUpgrade - Online", "SES Management Console", and "Inbox (3,046) - pankubhole78@gmail.com". The "SES Management Console" tab is active. The page features a large "Amazon Simple Email Service" logo and a brief introduction: "Amazon Simple Email Service enables you to send and receive email using a reliable and scalable email platform." Below this are three main sections with icons: "Manage Identities" (two people icon), "Monitor Email Sending" (monitor with chart icon), and "Configure Email Receiving" (gears icon). Each section has a brief description and a "View" link. At the bottom, there's a "Amazon SES Documentation and Support" section with links to "Developer Guide", "API Reference", "Forum", and "Blog". The left sidebar contains navigation links for Identity Management, Domains, Email Addresses, Email Sending, Email Receiving, and other AWS services.



The screenshot shows the "Verify a New Email Address" dialog box. It has a red box around the "Verify a New Email Address" button in the header. Inside the dialog, there is a message: "To verify a new email address, enter it below and click the Verify This Email Address button. A verification email will be sent to the email address you entered." Below this is an input field labeled "Email Address:" containing "pankubhole78@gmail.com", and a red box surrounds this field. At the bottom right of the dialog is a blue "Verify This Email Address" button, which is also surrounded by a red box.



The screenshot shows the AWS SES Management Console interface. On the left, a sidebar lists various services like Identity Management, Domains, Email Addresses, Email Sending, and Email Receiving. The main area is titled 'Verify a New Email Address' and shows a table with one row for 'pankubhole78@gmail.com'. The status for this row is 'pending verification (resend)'. A search bar at the top allows filtering by email address.

## ss1: inbox mail verification

The screenshot shows the Gmail inbox. The subject of the top email is 'Amazon Web Services – Email Address Verification Request in region Asia Pacific (Mumbai) - Dear Amazon Web Services Cust...'. This email is highlighted with a red border. Below it, several other promotional and informational emails are listed, such as ones from AWS Notifications, Shine.com, IIM Lucknow, and Flipkart. The Gmail interface includes a search bar, a compose button, and a sidebar with links for Inbox, Starred, Snoozed, Sent, Drafts, Meet, Hangouts, and a notifications section.

Screenshot of the AWS SES Management Console showing the 'Email Addresses' page. The 'Email Addresses' link in the left sidebar is highlighted with a red box. A blue button labeled 'Verify a New Email Address' is also highlighted with a red box. The main area shows a table of email identities, with one row for 'pankubhole78@gmail.com' where the 'Verification Status' is listed as 'verified'.



Screenshot of the AWS SES Management Console showing the detailed configuration page for the email address 'pankubhole78@gmail.com'. The left sidebar shows the 'Email Addresses' link is selected. The main content area displays the following details:

- Enabled for Sending:** Yes
- Identity ARN:** arn:aws:ses:ap-south-1:618639665310:identity/pankubhole78@gmail.com
- Verification:** Status: verified. You can send email from this address.
- Notifications:** Amazon SES can send you detailed notifications about your bounces, complaints, and deliveries. Bounce and complaint notifications are available by email or through Amazon Simple Notification Service (Amazon SNS). By default, these notifications are sent to you via email by a feature called *email feedback forwarding*. Delivery notifications, which are sent when Amazon SES successfully delivers one of your emails to a recipient's mail server, are optional and only available through Amazon SNS. Learn more.
- Current notification configuration:** Email Feedback Forwarding: enabled; Bounce Notifications SNS Topic: none; Complaint Notifications SNS Topic: none; Delivery Notifications SNS Topic: none. Options for Include Original Headers: disabled.
- DKIM:** Edit Configuration
- Identity Policies:**
- MAIL FROM Domain:**

The bottom of the screen shows the Windows taskbar with pinned icons and the date/time (14/11/2020, 12:47).

## Task 4: TRIGGERING CLOUDWATCH EVENT SNS NOTIFICATION

### ss1: ec2 console

The screenshot shows the AWS EC2 Instances page. A single EC2 Server instance is listed with the following details:

- Name:** EC2 Server
- Instance ID:** i-0be067bdb69c1a5d4
- Instance state:** Running
- Instance type:** t2.micro
- Status check:** 2/2 checks ...
- Alarm status:** No alarms
- Availability Zone:** ap-south-1a
- Public IPv4 DNS:** ec2-15-206-124-156.ap-south-1.compute.amazonaws.com

### ss2: rule configuration

The screenshot shows the AWS CloudWatch Events Rule configuration page. The 'Event Source' section is set to 'Event Pattern' and 'Service Name' is set to 'EC2'. The 'Event Type' dropdown is set to 'EC2 Instance State-change Notification'. The 'Targets' section shows a target configured to an SNS topic named 'MyserverMonitor'. The 'Configure details' button is highlighted in red at the bottom right.

The screenshot shows the AWS CloudWatch Management Console. On the left sidebar, under the 'Events' section, the 'Rules' option is selected and highlighted with a red box. In the main content area, a green success message box displays: "Rule myec2changeevent was created". Below it, a note states: "CloudWatch Events is now Amazon EventBridge". A link to "Amazon EventBridge documentation" is provided. Under the heading "Rules", there is a table listing one rule:

Status	Name	Description
Green	myec2changeevent	myec2changeevent

The entire row for the rule 'myec2changeevent' is highlighted with a red box.

## ss3: Sns topic

The screenshot shows the AWS Amazon SNS console. On the left sidebar, the 'Topics' option is selected and highlighted with a red box. In the main content area, a green success message box displays: "Topic MyserverMonitor created successfully. You can create subscriptions and send messages to them from this topic." Below it, the topic details are shown:

Name	Display name
MyserverMonitor	MyserverMonitor

The ARN is listed as: arn:aws:sns:ap-south-1:618639665310:MyserverMonitor. The Type is listed as Standard. At the bottom of the topic details, there are tabs for Subscriptions, Access policy, Delivery retry policy (HTTP/S), Delivery status logging, Encryption, and Tags. The Subscriptions tab is selected, showing a table with one entry:

ID	Endpoint	Status	Protocol
		No subscriptions found	

A "Create subscription" button is located at the bottom of the table.

## ss4: state change event notification in your mailbox

The screenshot shows a Gmail inbox with several messages. The first message, from 'MyserverMonitor 2', is highlighted with a red box and contains the text: 'AWS Notification Message - {"version": "0", "id": "a66b539b-3d61-a2b9-b7bf-b39020b2", "detail-type": "EC2 Instance State-change Not..."}'. This message is timestamped at 2:01 PM.

The inbox also contains messages from AWS, Amazon Web Services, AWS Notifications, Shine.com, IIM Lucknow, HDFC ERGO Health In., Flipkart, neuvoo.co.in, and 2COMS Consulting Private Limited. The interface includes a search bar, a compose button, and a sidebar with options like Starred, Snoozed, Sent, Drafts, Meet, Hangouts, and a notifications section.

This screenshot shows the same Gmail inbox with several AWS notification messages. One message from 'MyserverMonitor' is timestamped at 2:01 PM (7 minutes ago) and contains the text: '{"version": "0", "id": "187e3cd8-4afe-c4d6-c767-eb23e2b4da5d", "detail-type": "EC2 Instance State-change Notification", "source": "aws.ec2", "account": "618639665310", "time": "2020-11-14T08:38:21Z", "region": "ap-south-1", "resources": [{"arn": "aws:ec2:ap-south-1:618639665310:instance/l-0be067bdb69c1a5d4"}, {"arn": "aws:ec2:ap-south-1:618639665310:instance/l-0be067bdb69c1a5d4"}]}'. Another message from 'MyserverMonitor' is timestamped at 2:08 PM (0 minutes ago) and contains the text: '{"version": "0", "id": "86d1b1b0-b915-b541-3739-6a5bc59bd8e7", "detail-type": "EC2 Instance State-change Notification", "source": "aws.ec2", "account": "618639665310", "time": "2020-11-14T08:38:33Z", "region": "ap-south-1", "resources": [{"arn": "aws:ec2:ap-south-1:618639665310:instance/l-0be067bdb69c1a5d4"}]}'. Both messages have a red box around their content.