

# AWS Assignment day 11 & 12

## Task 1:Working with SNS

The screenshot shows the AWS SNS console for a topic named "mytopic". The "Details" section displays the topic's name, ARN, and type. The "Subscriptions" section lists three confirmed email endpoints. The browser address bar shows the URL: <https://us-east-2.console.aws.amazon.com/sns/v3/home?region=us-east-2&>.

The screenshot shows the AWS SNS message creation interface. The "Message structure" section allows choosing between identical or custom payloads. The "Message body to send to the endpoint" section contains the message text: "1 this is simple notification demo launched by manoj k\n2 thank you for subscribing". The "Message attributes" section shows an attribute named "availability" with a value of "yes". The browser address bar shows the URL: <https://us-east-2.console.aws.amazon.com/sns/v3/home?region=us-east-2&>.



## welcome to amazon simple notification service

Inbox



mytopic 9:41 am  
to me ▾



this is simple notification demo launched by manoj k  
thank you for subscribing

--  
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

<https://sns.us-east-2.amazonaws.com/unsubscribe.html?>

SubscriptionArn=arn:aws:sns:us-east-2:245024665952:mytopic:d592e78c-9cca-4be3-abaa-4d75d1c0e50e&Endpoint=smartcoinmaker@gmail.com

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>

## Task 2 :Working with SQS

The screenshot shows the AWS SQS console interface. A green success message at the top states "Subscribed successfully to topic arn:aws:sns:us-east-2:245024665952:mytopic." Below this, the "myqueue" queue details are shown, including its ARN (arn:aws:sqs:us-east-2:245024665952:myqueue). The "SNS subscriptions" tab is selected, displaying one entry: "arn:aws:sns:us-east-2:245024665952:mytopic:c4799f861-22ac-45c8-aa1e-41cb3024db3e". At the bottom, there are links for "Feedback", "English (US)", "Privacy Policy", "Terms of Use", and a date stamp "10-11-2020".



simple queue service Inbox star

M mytopic 10:11 am  
to me ▾ back arrow, three dots

this is the demo for simple queue service from manoj k

--  
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

[https://sns.us-east-2.amazonaws.com/unsubscribe.html?  
SubscriptionArn=arn:aws:sns:us-east-2:245024665952:mytopic:d592e78c-9cca-4be3-abaa-4d75d1c0e50e&Endpoint=smartcoinmaker@gmail.com](https://sns.us-east-2.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-2:245024665952:mytopic:d592e78c-9cca-4be3-abaa-4d75d1c0e50e&Endpoint=smartcoinmaker@gmail.com)

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>

# Task 3:Working with SES

The screenshot shows the AWS SES Management Console. On the left, there's a sidebar with various service links like Identity Management, Domains, Email Addresses, and Email Sending. The main area shows a list of email identities: manojk@qjlb.com (pending verification) and smartcoinmaker@gmail.com (verified). A modal window titled "Send Test Email" is open, prompting the user to enter details for a test email. The "From:" field is set to smartcoinmaker@gmail.com, the "To:" field is manojk@qjlb.com, the "Subject:" field contains "this is a test mail", and the "Body" field contains "message from mail from manoj k simple email service". At the bottom of the modal are "Cancel" and "Send Test Email" buttons.

The screenshot shows the Temp-mail.org website. The top navigation bar includes links for Simple Notification Service, Temp Mail - Disposable Te..., and AWS | Amazon Simple Email... The main content area displays a received email message. The recipient is smartcoinmaker@gmail.com, the date is 10-11-2020 10:28:53, and the subject is "this is a test mail". The body of the email contains "message from mail from manoj k simple email service". Below the email message, there's a section titled "What is Disposable Temporary E-mail?" with a detailed explanation of what it is and how it works.

# Task 4: TRIGGERING CLOUDWATCH EVENT SNS NOTIFICATION

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various navigation options like Instances, Images, Network & Security, and more. The main area displays a table of instances. One instance is selected, showing its details. The instance is named "myec2server", has an ID of "i-0870d9927d3a90e21", is in a "Running" state, and is a "t2.micro" type. It's located in the "us-east-2c" availability zone with a public IPv4 address of "18.216.152.48". The "Details" tab is selected, showing information such as Public IPv4 address (18.216.152.48), Private IPv4 addresses (172.31.46.223), Public IPv4 DNS (ec2-18-216-152-48.us-east-2.compute.amazonaws.com), Private IPv4 DNS (ip-172-31-46-223.us-east-2.compute.internal), Instance type (t2.micro), IAM Role (None), Elastic IP addresses (None), Subnet ID (subnet-0e563e42), and VPC ID (vpc-564fec3d). The "Monitoring" section indicates monitoring is disabled.

The screenshot shows the AWS Amazon SNS Topics page. The sidebar includes options for Dashboard, Topics, Subscriptions, and Mobile. A topic named "myservermonitor" is selected. The "Details" tab is active, displaying the topic's name ("myservermonitor"), ARN ("arn:aws:sns:us-east-2:245024665952:myservermonitor"), and type ("Standard"). The "Display name" is set to "monitoring server". The "Topic owner" is listed as "245024665952". Below the details, the "Subscriptions" tab is selected, showing one confirmed subscription. The subscription has an ID of "c1651f45-8414-45a7-ae60-35572614c7db" and an endpoint of "smartcoinmaker@gmail.com". The status is "Confirmed" and the protocol is "EMAIL". There are buttons for "Edit", "Delete", "Request confirmation", "Confirm subscription", and "Create subscription".

Screenshot of the AWS CloudWatch Rules Step 1: Create rule interface.

**Event Source**

Create rules to invoke Targets based on Events happening in your AWS environment.

**Event Pattern** (selected)  **Schedule**

**Build event pattern to match events by service**

**Service Name:** EC2 **Event Type:** EC2 Instance State-change Notification

**Any state**  **Specific state(s)**

**Any instance**  **Specific instance Id(s)**

**Event Pattern Preview**

```
[{"source": ["aws_ec2"], "detail-type": ["EC2 Instance State-change Notification"]}]
```

**Targets**

Select Target to invoke when an event matches your Event Pattern or when schedule is triggered.

**SNS topic**

**Topic\***: myservermonitor

**Add target\***

Feedback English (US)  © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use 10:50 10-11-2020



## AWS Notification Message

Inbox



monitoring server 10:54 am

to me ▾



```
{"version": "0", "id": "d6a3daff-b162-c3f9-4cb8-8acca0c1c06c", "detail-type": "EC2 Instance State-change Notification", "source": "aws.ec2", "account": "245024665952", "time": "2020-11-10T05:24:50Z", "region": "us-east-2", "resources": ["arn:aws:ec2:us-east-2:245024665952:instance/i-0870d9927d3a90e21"], "detail": {"instance-id": "i-0870d9927d3a90e21", "state": "shutting-down"}}
```

--  
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

<https://sns.us-east-2.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-2:245024665952:myservermonitor:c1651f45-8414-45a7-ae60-35572614c7db&Endpoint=smartcoinmaker@gmail.com>

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>



monitoring server 10:54 am

to me ▾



```
{"version": "0", "id": "cb48a8a9-a85e-08fd-c0c6-a9381045ecaa", "detail-type": "EC2 Instance State-change Notification", "source": "aws.ec2", "account": "245024665952", "time": "2020-11-10T05:24:56Z", "region": "us-east-2", "resources": ["arn:aws:ec2:us-east-2:245024665952:instance/i-0870d9927d3a90e21"], "detail": {"instance-id": "i-0870d9927d3a90e21", "state": "terminated"}}
```

[Show quoted text](#)

Reply

Reply all

Forward



## AWS Notification Message

Inbox



monitoring server 10:52 am

to me ▾



```
{"version": "0", "id": "37361948-2bb7-8a79-eca9-6ab55f254f1f", "detail-type": "EC2 Instance State-change Notification", "source": "aws.ec2", "account": "245024665952", "time": "2020-11-10T05:22:21Z", "region": "us-east-2", "resources": ["arn:aws:ec2:us-east-2:245024665952:instance/i-0870d9927d3a90e21"], "detail": {"instance-id": "i-0870d9927d3a90e21", "state": "stopping"}}
```

--  
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

[https://sns.us-east-2.amazonaws.com/unsubscribe.html?  
SubscriptionArn=arn:aws:sns:us-east-2:245024665952:myservermonitor:c1651f45-8414-45a7-ae60-35572614c7db&Endpoint=smartcoinmaker@gmail.com](https://sns.us-east-2.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-2:245024665952:myservermonitor:c1651f45-8414-45a7-ae60-35572614c7db&Endpoint=smartcoinmaker@gmail.com)

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>



monitoring server 10:52 am

to me ▾



```
{"version": "0", "id": "aa2e71a3-ad13-4d10-c6b9-5608200fb382", "detail-type": "EC2 Instance State-change Notification", "source": "aws.ec2", "account": "245024665952", "time": "2020-11-10T05:22:35Z", "region": "us-east-2", "resources": ["arn:aws:ec2:us-east-2:245024665952:instance/i-0870d9927d3a90e21"], "detail": {"instance-id": "i-0870d9927d3a90e21", "state": "stopped"}}
```

[Hide quoted text](#)

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If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

[https://sns.us-east-2.amazonaws.com/unsubscribe.html?  
SubscriptionArn=arn:aws:sns:us-east-2:245024665952:myservermonitor:c1651f45-8414-45a7-ae60-35572614c7db&Endpoint=smartcoinmaker@gmail.com](https://sns.us-east-2.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-2:245024665952:myservermonitor:c1651f45-8414-45a7-ae60-35572614c7db&Endpoint=smartcoinmaker@gmail.com)

# Day 12 – Project

## Task 1: Create a dynamo db table with minimum two disaster recovery zones and verify replication.

The screenshot shows the AWS DynamoDB Global Tables configuration page. On the left, the navigation menu includes options like Dashboard, Tables, Backups, Reserved capacity, Preferences, DAX, and Events. The main area displays the 'library' global table. It shows the 'Global Tables' tab selected, with tabs for Overview, Items, Metrics, Alarms, Capacity, Indexes, Global Tables, Backups, Contributor Insights, Triggers, Access control, and Tags. An IAM role 'AWSServiceRoleForDynamoDBReplication' is listed. Below this, the 'Global Table regions' section shows three active regions: Asia Pacific (Singapore), Asia Pacific (Sydney), and US East (Ohio), each with 5 Read and Write capacity units and READ\_AND\_WRITE Auto Scaling. A table provides detailed information for each region. At the bottom, there's a chart for 'Replication latency Milliseconds' and a footer with copyright information and links to Privacy Policy and Terms of Use.

The screenshot shows the AWS DynamoDB Items page for the 'library' table. The navigation menu is identical to the previous screenshot. The main area displays the results of a scan operation on the 'books\_author' index. The 'Items' tab is selected, with other tabs for Overview, Metrics, Alarms, Capacity, Indexes, Global Tables, Backups, Contributor Insights, Triggers, Access control, and Tags. The results show a list of items with attributes 'books' and 'author'. The items listed are: atc (pradeep), CNS (prithvi), DBMS (prithvi), Java (manoj), Python (nithin), and UP (karthik). A search bar at the top of the results table allows for filtering and searching.

DynamoDB - AWS Console Assignment - Google Drive +

How would you rate your experience with this service console? ★ ★ ★ ★

aws Services ▾

DynamoDB

- Dashboard
- Tables**
- Backups
- Reserved capacity
- Preferences

DAX

- Dashboard
- Clusters
- Subnet groups
- Parameter groups
- Events

Try the new console

Create table Delete table

Filter by table name Choose a table ... Actions

Name

- Albums
- library**

library Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Contributor Insights Triggers Access control Tags

Create item Actions

Query: [Table] library: books, author ▾

Viewing 1 to 1 items

Query [Table] library: books, author

Partition key books String = atc

Sort key author String = Enter value

Add filter

Sort Ascending Descending

Attributes All Projected

Start search

books	author
atc	pradeep

Feedback English (US) ▾

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15:56 11-11-2020

The screenshot shows the AWS DynamoDB console interface. On the left, there's a sidebar with navigation links for DynamoDB (Dashboard, Tables, Backups, Reserved capacity, Preferences), DAX (Dashboard, Clusters, Subnet groups, Parameter groups, Events), and a 'Try the new console' link. The main area is titled 'library' and shows a query result for the table 'library'. The query is set to 'books, author'. The results table has columns 'books' and 'author', showing one item: 'atc' and 'pradeep'. At the bottom, there's a status bar with 'Feedback English (US)', copyright information ('© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.'), and a timestamp ('15:56 11-11-2020').

DynamoDB - AWS Console Assignment - Google Drive +

The new DynamoDB console is now available and has features such as data export to Amazon S3. In the redesigned DynamoDB console, you can export your table data from any point in time in the preceding 35 days to your data lake in Amazon S3 and perform analytics on the data. Try out the new console and tell us what you think. X

aws Services ▾

DynamoDB

- Dashboard
- Tables**
- Backups
- Reserved capacity
- Preferences

DAX

- Dashboard
- Clusters
- Subnet groups
- Parameter groups
- Events

Try the new console

Create table Delete table

Filter by table name Choose a table ... Actions

Name

- Albums
- library**

library Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Contributor Insights Triggers Access control Tags

Scan: [Table] library: books, author ▾

Viewing 1 to 6 items

Scan [Table] library: books, author

Add filter

Start search

books	author
atc	pradeep
cns	prithvi
dbms	prithvi
java	manoj
python	nithin
up	karthik

Feedback English (US) ▾

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15:55 11-11-2020

This screenshot is similar to the first one but shows a 'Scan' operation instead of a query. The results table lists six items: 'atc', 'cns', 'dbms', 'java', 'python', and 'up', each associated with their respective 'author' names. The rest of the interface is identical to the first screenshot, including the sidebar, top navigation, and status bar.

The screenshot shows the AWS DynamoDB console interface. On the left, the navigation bar includes 'Dashboard', 'Tables' (selected), 'Backups', 'Reserved capacity', 'Preferences', 'DAX', 'Clusters', 'Subnet groups', 'Parameter groups', and 'Events'. Under 'Tables', there are links to 'Create table' and 'Delete table'. A search bar allows filtering by table name, with 'Choose a table ...' and 'Actions' dropdowns. The main area displays the 'library' table, which contains the following data:

books	author
atc	pradeep
cns	pritivi
dbms	pritivi
java	manoj
python	nithin
up	karthik

## Task 2:Creating a dynamo DB table with global secondary indexes and fetching data using global

The screenshot shows the AWS DynamoDB console interface. The navigation bar is identical to the previous screenshot. The 'myorderable' table is selected. The table has the following schema:

username	orderid	amount	returndate
manoj	2	234	12032020
manoj	1	234	12032020
nithin	4	1024	31122020
nithin	3	768	13122020

DynamoDB - AWS Console Assignment - Google Drive + us-east-2.console.aws.amazon.com/dynamodb/home

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mario K Ohio Support

DynamoDB

Tables

Backups Reserved capacity Preferences DAX Dashboard Clusters Subnet groups Parameter groups Events Try the new console

Create table Delete table

myordertable Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Contributor Insights Triggers Access control Tags

Create index Delete index

Name	Status	Type	Partition key	Sort key	Attributes	Read capacity	Write capacity	Size	Item count	Auto Scaling
username-amount-index	Active	GSI	username (String)	amount (String)	ALL	5	5	0 bytes	0	READ_AND_WRITE

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Windows Taskbar: Feedback English (US) Privacy Policy Terms of Use © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. 16:08 11-11-2020

DynamoDB - AWS Console Assignment - Google Drive + us-east-2.console.aws.amazon.com/dynamodb/home

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DynamoDB

Tables

Backups Reserved capacity Preferences DAX Dashboard Clusters Subnet groups Parameter groups Events Try the new console

Create table Delete table

myordertable Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Contributor Insights Triggers Access control Tags

Create item Actions

Scan: [Index] username-amount-index: username, amount Viewing 1 to 3 items

Scan [Index] username-amount-index: username, amount

Filter orderid String >= 2

Add filter

Start search

username	orderid	amount	returndate
manoj	2	234	12032020
nithin	4	1024	31122020
nithin	3	768	13122020

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Windows Taskbar: Feedback English (US) Privacy Policy Terms of Use © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. 16:19 11-11-2020

# Task 3: Deploying a python application in elastic beanstalk

The screenshot shows the AWS Elastic Beanstalk Application configuration page. The application name is set to 'my-pythonapplication'. Under the 'Application tags' section, there is a key-value pair with 'Key' as 'Environment' and 'Value' as 'Production'. In the 'Platform' section, the platform is set to 'Python', the branch to 'Python 3.7 running on 64bit Amazon Linux 2', and the version to '3.1.3 (Recommended)'. Under the 'Application code' section, the 'Sample application' option is selected. The bottom status bar indicates 'meet.google.com is sharing a window.'

The screenshot shows the AWS Elastic Beanstalk Applications page. It lists the application 'my-pythonapplication' under the 'All applications' section. The application details are: Application name - my-pythonapplication, Environments - MyPythonapplication-env, Date created - 2020-11-11 16:23:35 UTC+0530, Last modified - 2020-11-11 16:23:35 UTC+0530, ARN - arn:aws:elasticbeanstalk:us-east-2:245024665952:application/my-pythonapplication. The bottom status bar indicates 'meet.google.com is sharing a window.'

Screenshot of the AWS Elastic Beanstalk console showing the 'All environments' list. The environment 'MyPythonapplication-env' is listed with the following details:

Environment name	Health	Application name	Date created	Last modified	URL	Running versions	Platform	Platform state	Tier name
MyPythonapplication-env	Ok	my-pythonapplication	2020-11-11 16:23:43 UTC+0530	2020-11-11 16:26:27 UTC+0530	MyPythonapplication-env.eba-ncjff7pw.us-east-2.elasticbeanstalk.com	Sample Application	Python 3.7 running on 64bit Amazon Linux 2	Supported	WebServer

Screenshot of the AWS Elastic Beanstalk console showing the environment details for 'MyPythonapplication-env'. The left sidebar shows the environment 'my-pythonapplication' selected.

Shared Application Load Balancer: Save on load balancer costs. Create an ALB once, and use it when you create multiple web server environments. [Learn more](#)

In September 2020, Elastic Beanstalk introduced the EnhancedHealthAuthEnabled option. It enables you to require authorization of instances that report enhanced health information. If you're using an Elastic Beanstalk managed policy for your environment's instance profile (the default when using Elastic Beanstalk console or EB CLI), you can safely enable this option.

On November 30, 2020, we plan on enabling this option by default for all new environments (no impact on existing environments). On May 31, 2021, we plan to start enforcing enhanced health authorization; it will be enabled for all new and existing environments, with no option to disable it.

If you're using a custom instance profile, your environment might be impacted and might need a configuration update. To learn more, see [Enhanced health authorization](#) in the AWS Elastic Beanstalk Developer Guide.

**MyPythonapplication-env**  
MyPythonapplication-env.eba-ncjff7pw.us-east-2.elasticbeanstalk.com (e-jgct2mupa)  
Application name: my-pythonapplication

**Health**  
Ok

**Running version**  
Sample Application  
[Upload and deploy](#)

**Platform**  
Python 3.7 running on 64bit Amazon Linux 2/3.1.3  
[Change](#)

**Recent events**

Time	Type	Details
mypythonapplication-env.eba-ncjff7pw.us-east-2.elasticbeanstalk.com		

