

TASK - 13

CloudWatch:

CloudWatch is an Amazon Web Services (AWS) monitoring and observability service that collects and tracks metrics, collects and monitors log files, and sets alarms to provide a unified view of your AWS resources and applications.

Creation of instance:

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, and AMI Catalog. The main content area has a heading 'Instances (1/1) Info'. It lists one instance: 'cloudwatch_instance' (Instance ID: i-0848894f570de3de7, Status: Running, Type: t2.micro). Below this, a detailed view for 'i-0848894f570de3de7 (cloudwatch_instance)' is shown with tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. Under 'Details', it shows Public IPv4 address (18.141.175.91), Private IPv4 address (172.31.16.54), Public DNS (ec2-18-141-175-91.ap-southeast-1.compute.amazonaws.com), and Instance state (Running).

Creation of SNS Topic:

The screenshot shows the AWS Amazon SNS Topics page. On the left, there's a sidebar with navigation links like Dashboard, Topics (selected), Subscriptions, and Mobile (Push notifications, Text messaging (SMS)). The main content area has a heading 'Topics (1)'. It lists one topic: 'my_topic_watch' (Name, Type: Standard). There are buttons for Edit, Delete, Publish message, and Create topic. A blue banner at the top says 'New Feature: Amazon SNS now supports High Throughput FIFO topics. Learn more'.

The screenshot shows the AWS CloudWatch Subscriptions page. On the left, there's a sidebar with 'Amazon SNS' selected. The main area is titled 'Subscriptions (1)'. A blue banner at the top says 'New Feature: Amazon SNS now supports High Throughput FIFO topics. Learn more'. Below it is a table with one row:

| ID | Endpoint | Status | Protocol | Topic |
|---|------------------------|-----------|----------|----------------|
| e2ff56ad-863a-460f-b071-a... Edit | vmrubi310504@gmail.com | Confirmed | EMAIL | my_topic_watch |

The screenshot shows the AWS Simple Notification Service (SNS) confirmation page. It features a green header bar with the AWS logo and 'Simple Notification Service'. Below it is a box containing the following text:

Subscription confirmed!
You have successfully subscribed.
Your subscription's id is:
arn:aws:sns:ap-southeast-1:393827457998:my_topic_watch:e2ff56ad-863a-460f-b071-a8e7a771c3be
If it was not your intention to subscribe, [click here to unsubscribe](#).

Creation of alarm and set the threshold:

The screenshot shows the AWS CloudWatch Alarms console. On the left, there's a navigation sidebar with options like AI Operations, Logs, Metrics, Application Signals, GenAI Observability, Network Monitoring, and Insights. The main area displays a table of alarms. A green banner at the top says "Successfully created alarm my_watch." The table has columns for Name, State, Last state update (UTC), Conditions, and Actions. One row is shown for 'my_watch', which is currently 'In alarm'. The conditions section shows "CPUUtilization > 3 for 1 datapoints within 5 minutes". There are buttons for "View alarm" and "Create alarm". The top right corner shows the account ID: 3938-2745-7998 and the region: Asia Pacific (Singapore).

The screenshot shows a Gmail inbox with 594 unread messages. An email from "cloud_watch <no-reply@sns.amazonaws.com>" is selected. The subject is "ALARM: "my_watch" in Asia Pacific (Singapore)". The email body contains a message about the alarm entering the ALARM state due to CPU utilization exceeding the threshold. It includes a link to view the alarm in the AWS Management Console. The email was sent at 11:02 AM (4 minutes ago). The bottom of the email shows alarm details and monitored metrics.

CloudTrail:

- AWS CloudTrail is a service that records and logs every API call made within an AWS account for governance, compliance, and security auditing.
- It captures details like who made the request, the time, source IP, and request parameters, providing a historical record of user activity and resource changes across the AWS infrastructure.

Creation of bucket:

The screenshot shows the AWS S3 console interface. At the top, a green success message states: "Successfully created bucket 'my-trail-bucket-0131'". Below this, the "General purpose buckets" section lists one bucket: "my-trail-bucket-0131" (Info), created on October 15, 2025, at 11:22:57 (UTC+05:30) in Asia Pacific (Singapore) ap-southeast-1. To the right, there are two informational boxes: "Account snapshot" (Info) and "External access summary - new" (Info). The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

Creation of CloudTrail:

The screenshot shows the AWS CloudTrail console interface. It displays a single trail named "my_cloud_trail_31" (Info). The trail is set up to capture events from the "Asia Pacific (Singapore)" region and is a "Multi-region trail". The ARN is listed as "arn:aws:cloudtrail:ap-southeast-1:393827457998:trail/my_cloud_trail_31". The "Status" is "Logging". The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

Logs that created in S3 bucket:

my-trail-bucket-0131

Objects (1)

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](#)

Find objects by prefix

| Name | Type | Last modified | Size | Storage class |
|----------|--------|---------------|------|---------------|
| AWSLogs/ | Folder | - | - | - |

393827457998/

Copy S3 URI

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](#)

Find objects by prefix

| Name | Type | Last modified | Size | Storage class |
|--------------------|--------|---------------|------|---------------|
| CloudTrail-Digest/ | Folder | - | - | - |
| CloudTrail/ | Folder | - | - | - |