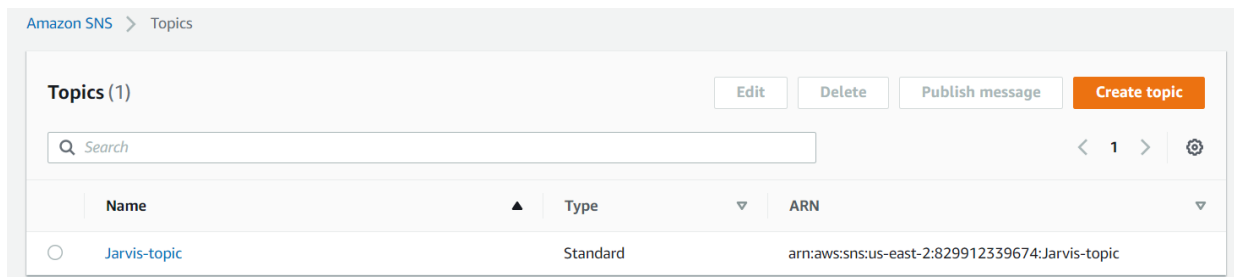


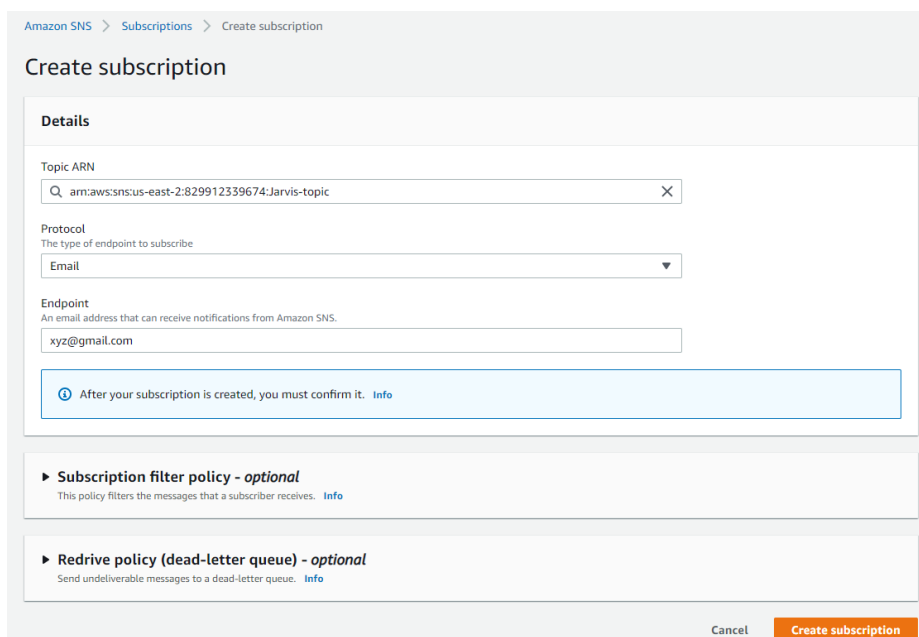
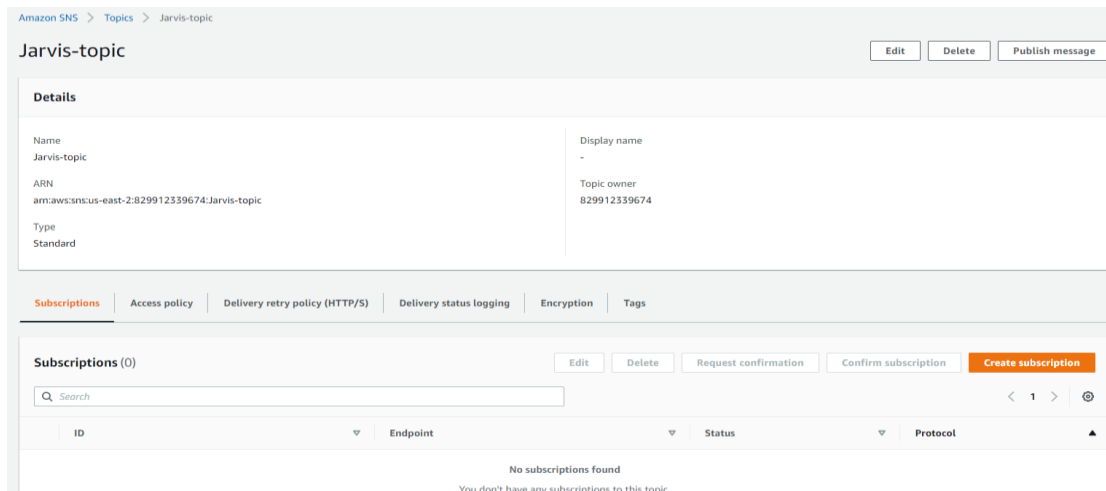
1. Amazon CloudWatch event delivers a real time stream of system. Events that describe changes in our AWS Resources.
2. We can match event and route them into one or more target function or stream.
3. CloudWatch event become aware of operational changes as they occurred.

Firstly, Create **SNS topic** for Email Notification whenever **our Event is performed successfully** then we received mail via SNS service.

We create Standard SNS topic






And also create subscription for that topic and **confirm it from mail**



**Note: - After creating subscription confirmed it on mail**

**Create** EC2 instance and attach role of EC2 integrated with

**Permissions policies (3)**  
You can attach up to 10 managed policies.

<input type="checkbox"/>	Policy name <a href="#">↗</a>	Type	Description
<input type="checkbox"/>	 <a href="#">AmazonEC2FullAccess</a>	AWS managed	Provides full access to Amazon EC2 v
<input type="checkbox"/>	 <a href="#">AmazonS3FullAccess</a>	AWS managed	Provides full access to all buckets via
<input type="checkbox"/>	 <a href="#">CloudWatchFullAccess</a>	AWS managed	Provides full access to CloudWatch.

**Attach role to the ec2 instance**

**Now, Create default rule in Amazon CloudWatch Events**

Amazon EventBridge > Rules > Create rule

Step 1  
**Define rule detail**

Step 2  
Build event pattern

Step 3  
Select target(s)

Step 4 - optional  
Configure tags

Step 5  
Review and create

### Define rule detail [Info](#)

**Rule detail**

Name  
  
Maximum of 64 characters consisting of numbers, lower/upper case letters, -, \_, .

Description - optional

Event bus [Info](#)  
Select the event bus this rule applies to, either the default event bus or a custom or partner event bus.

☒ Enable the rule on the selected event bus

Rule type [Info](#)

☒ **Rule with an event pattern**  
A rule that runs when an event matches the defined event pattern. EventBridge sends the event to the specified target.

☐ **Schedule**  
A rule that runs on a schedule

Cancel **Next**

Amazon EventBridge > Rules > Create rule

Step 1  
Define rule detail

Step 2  
**Build event pattern**

Step 3  
Select target(s)

Step 4 - optional  
Configure tags

Step 5  
Review and create

## Build event pattern [Info](#)

### Event source

Event source  
Select the event source from which events are sent.

☒ **AWS events or EventBridge partner events**  
Events sent from AWS services or EventBridge partners.

☐ **Other**  
Custom events or events sent from more than one source, e.g.

☐ **All events**  
All events sent to your account.

Build Event Pattern is

Event pattern [Info](#)

Event pattern form

Custom patterns (JSON editor)

Event source

AWS service or EventBridge partner as source

AWS services

AWS service

The name of the AWS service as the event source

EC2

Event type

The type of events as the source of the matching pattern

EC2 Instance State-change Notification

☒ Any state

☐ Specific state(s)

☒ Any instance

☐ Specific instance Id(s)

Event pattern

Event pattern, or filter to match the events

```
1 {
2   "source": ["aws.ec2"],
3   "detail-type": ["EC2 Instance State-change Notification"]
4 }
```

Copy

Test pattern

Edit pattern

Create 2 Target and attach role to the event

Target 1

Remove

Target types

Select an EventBridge event bus, EventBridge API destination (SaaS partner), or another AWS service as a target.

☐ EventBridge event bus

☐ EventBridge API destination

☒ AWS service

Select a target

Info

Select target(s) to invoke when an event matches your event pattern or when schedule is triggered (limit of 5 targets per rule)

SNS topic

Topic

Jarvis-topic

► Additional settings

Target 2

Remove

Target types

Select an EventBridge event bus, EventBridge API destination (SaaS partner), or another AWS service as a target.

☐ EventBridge event bus

☐ EventBridge API destination

☒ AWS service

Select a target

Info

Select target(s) to invoke when an event matches your event pattern or when schedule is triggered (limit of 5 targets per rule)

EBS Create Snapshot

Volume ID

vol-0b60390de8c41c4cf

Execution role

EventBridge needs permission to send events to the event bus of the above AWS account. By continuing, you are allowing us to do so.

[EventBridge and AWS Identity and Access Management](#)

☐ Create a new role for this specific resource

☒ Use existing role

clodwatch-ec2-role

**Set Target** where our notifications jump to the email

If our instance will be going to stop then we receive 2 mails of **Stopping & Stopped** and 2 Snapshot created for **Stopping & Stopped**

If our instance will be going to start then we receive 2 mails of **Pending & Start** and 2 Snapshot created for **Pending & Starts**

