



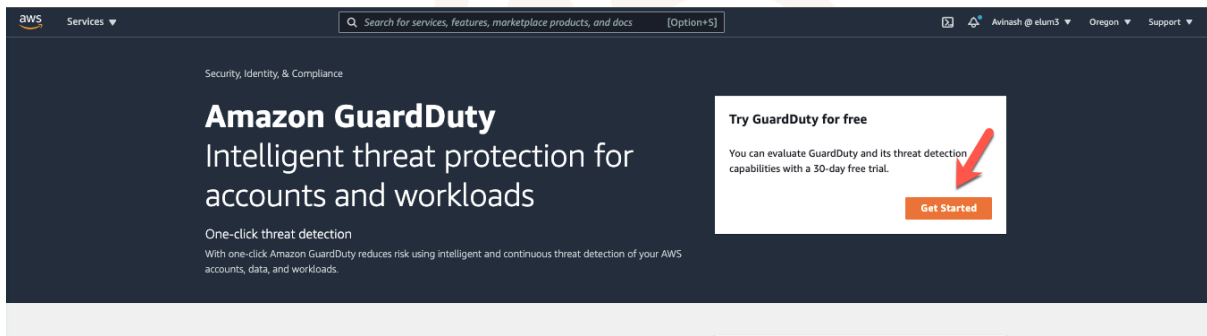
# JJ Tech

## AWS Guard Duty / Inspector Runbook

Protect your AWS accounts with intelligent threat detection

### Enable GuardDuty

- Navigate to Amazon GuardDuty console



- If you are trying to enable GuardDuty in child accounts you can delegate this to Admin account
- If you are doing this in an individual account , you are not required to delegate access

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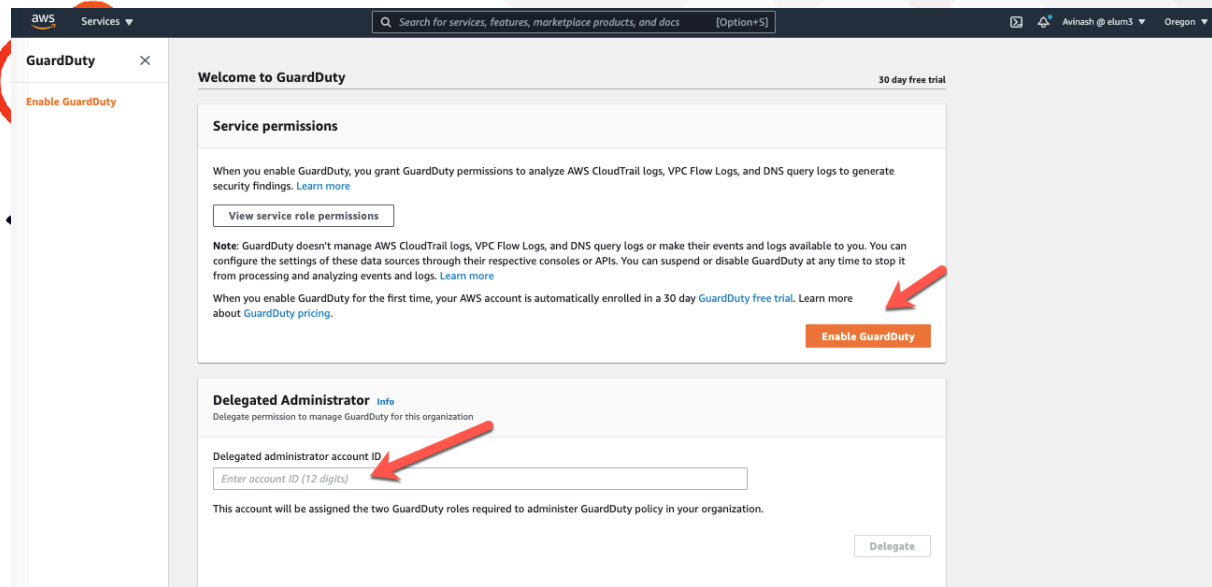
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## Demo:

### Amazon GuardDuty Findings to SNS

Every GuardDuty finding is assigned a finding ID. For every finding with a unique finding ID, GuardDuty aggregates all subsequent occurrences of a particular finding that take place in six-hour intervals into a single event. GuardDuty then sends a notification about these subsequent occurrences based on this event. We can use this to push the notifications into SNS topic, and getting the security teams to investigate the findings.

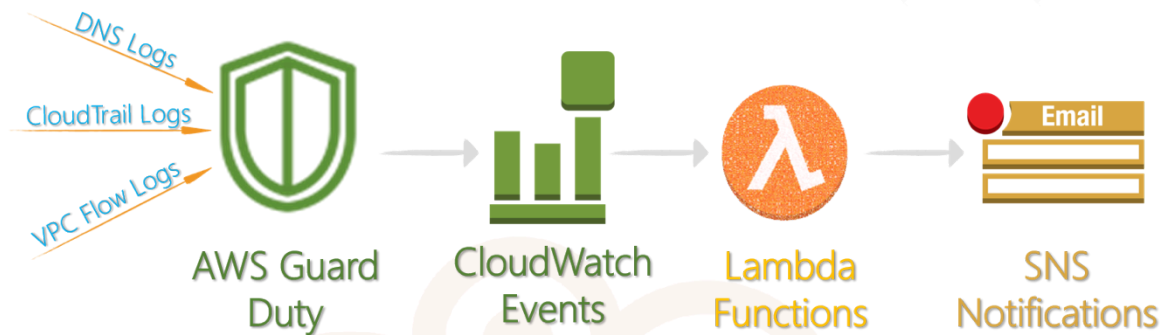
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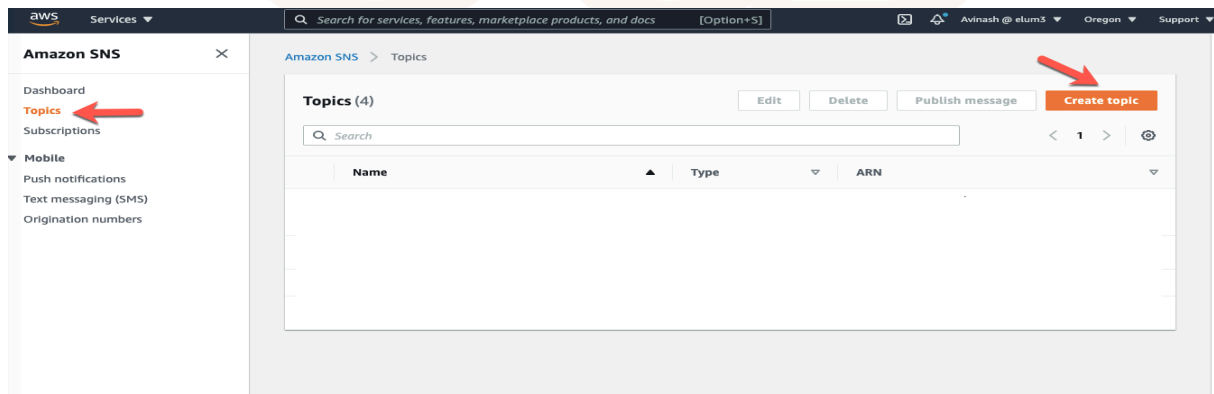
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This AWS Lambda function will help you to automatically push GuardDuty findings to an SNS topic which can be used by ITSM tools for their workflows.

## Step-1

- Create a SNS Topic for Lambda to publish the GuardDuty Findings.
- Navigate to AWS SNS Console



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## Create topic

### Details

#### Type [Info](#)

Topic type cannot be modified after topic is created

☐ FIFO (first-in, first-out)

- Strictly-preserved message ordering
- Exactly-once message delivery
- High throughput, up to 300 publishes/second
- Subscription protocols: SQS

☒ Standard

- Best-effort message ordering
- At-least once message delivery
- Highest throughput in publishes/second
- Subscription protocols: SQS, Lambda, HTTP, SMS, email, mobile application endpoints

#### Name

JJTech-GuarDuty-SNS

Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (\_).

#### Display name - optional

To use this topic with SMS subscriptions, enter a display name. Only the first 10 characters are displayed in an SMS message. [Info](#)

JJTech-GuarDuty-SNS

Maximum 100 characters, including hyphens (-) and underscores (\_).

#### ► Encryption - optional

Amazon SNS provides in-transit encryption by default. Enabling server-side encryption adds at-rest encryption to your topic.

#### ► Access policy - optional

This policy defines who can access your topic. By default, only the topic owner can publish or subscribe to the topic. [Info](#)

#### ► Delivery retry policy (HTTP/S) - optional

The policy defines how Amazon SNS retries failed deliveries to HTTP/S endpoints. To modify the default settings, expand this section. [Info](#)

#### ► Delivery status logging - optional

These settings configure the logging of message delivery status to CloudWatch Logs. [Info](#)

#### ► Tags - optional

A tag is a metadata label that you can assign to an Amazon SNS topic. Each tag consists of a key and an optional value. You can use tags to search and filter your topics and track your costs. [Learn more](#)

Cancel

Create topic

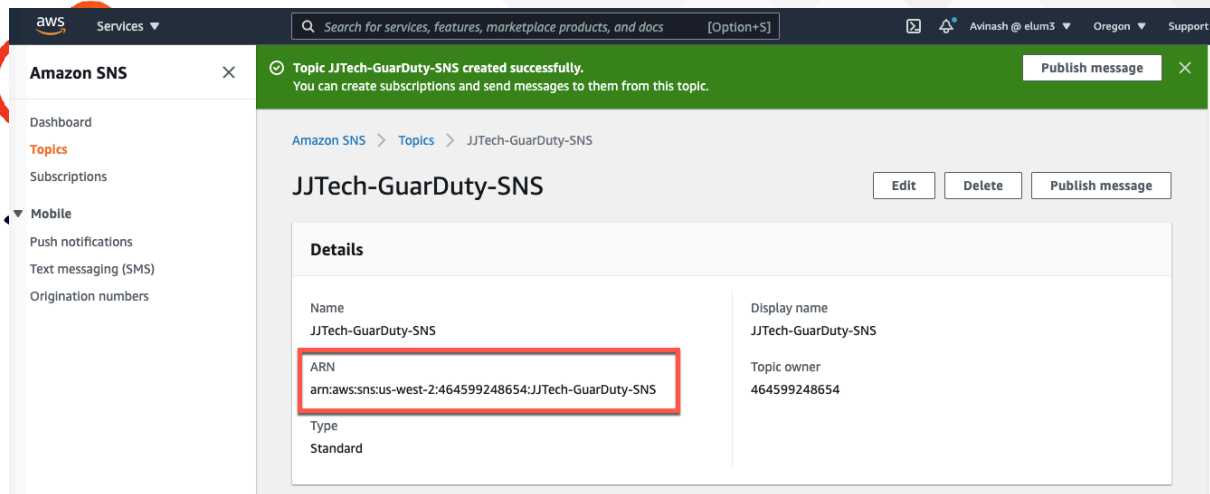
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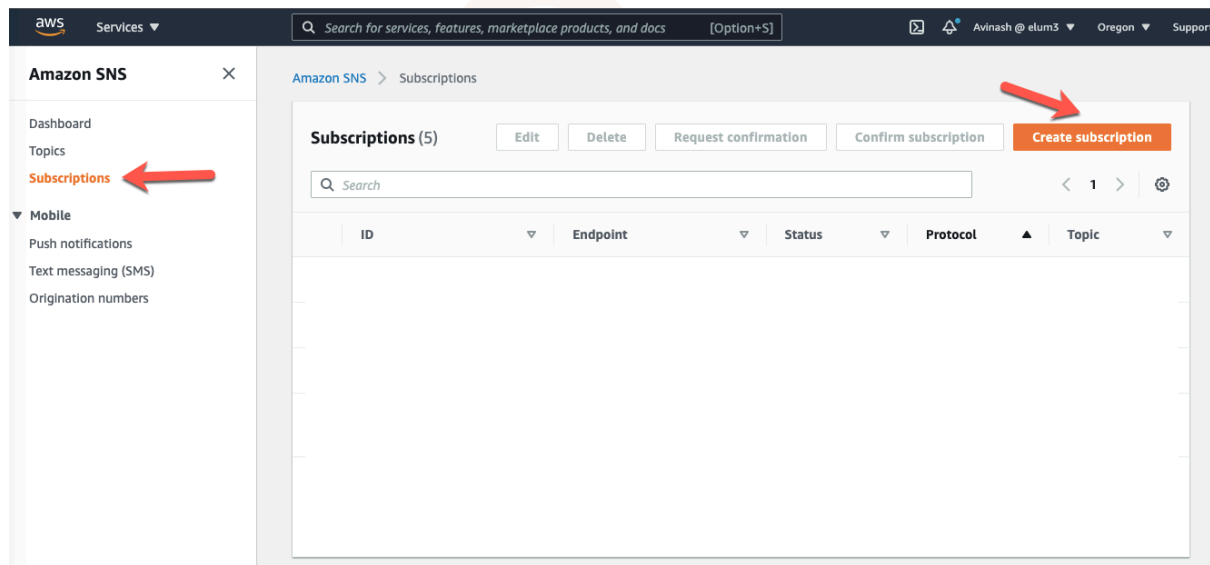
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- Now you can subscribe the SNS topic with your mail id.



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## Create subscription

### Details

#### Topic ARN

arn:aws:sns:us-west-2:464599248654:JJTech-GuarDuty-SNS

#### Protocol

The type of endpoint to subscribe

Email

#### Endpoint

An email address that can receive notifications from Amazon SNS.

avinash\_mamidi@jjtechinc.co

After your subscription is created, you must confirm it. [Info](#)

#### Subscription filter policy - optional

This policy filters the messages that a subscriber receives. [Info](#)

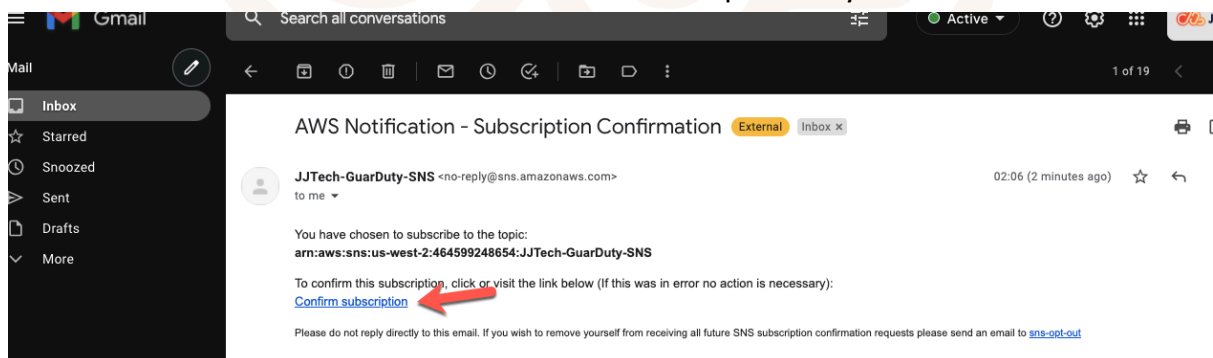
#### Redrive policy (dead-letter queue) - optional

Send undeliverable messages to a dead-letter queue. [Info](#)

Cancel

Create subscription

- You will receive a mail to confirm the subscription to your mail



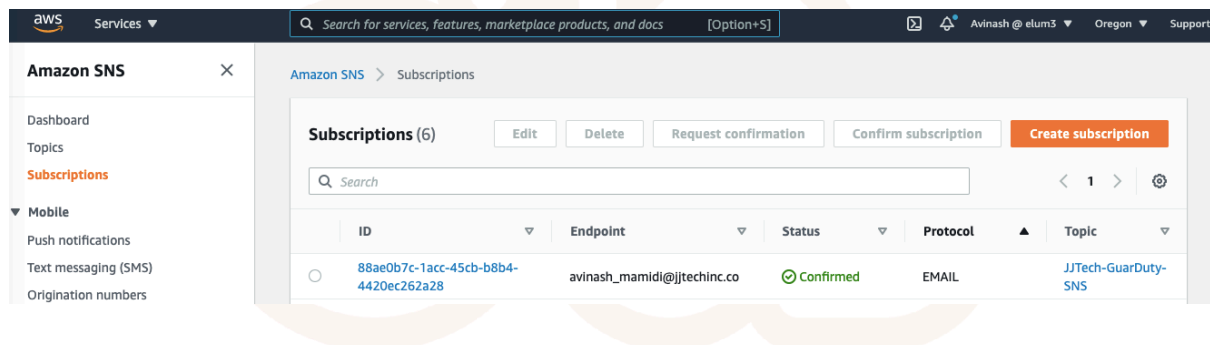
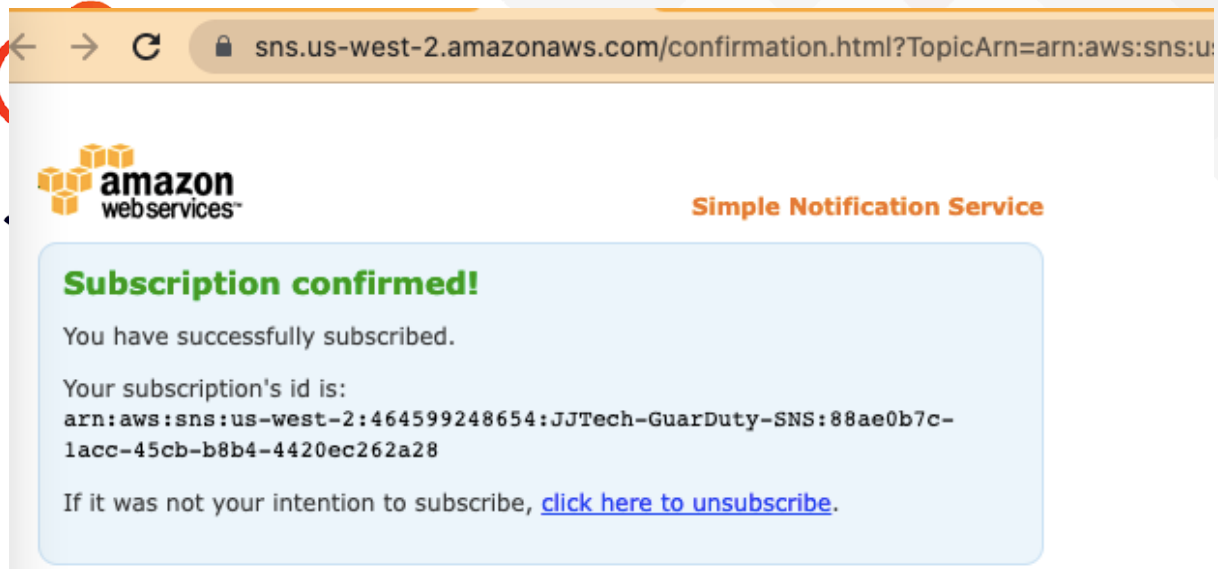
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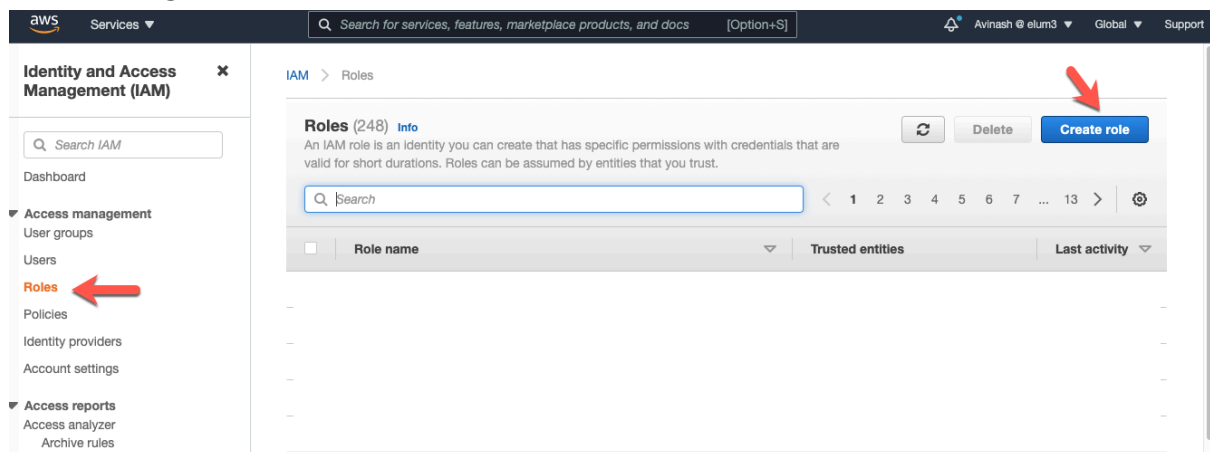
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## Step-2 : Create a IAM role for the Lambda function


- Navigate to IAM Console





## Create role


1 2 3 4

### Select type of trusted entity

**AWS service**  
EC2, Lambda and others

**Another AWS account**  
Belonging to you or 3rd party

**Web identity**  
Cognito or any OpenID provider

**SAML 2.0 federation**  
Your corporate directory

Allows AWS services to perform actions on your behalf. [Learn more](#)

### Choose a use case

#### Common use cases

##### EC2

Allows EC2 instances to call AWS services on your behalf.

##### Lambda

Allows Lambda functions to call AWS services on your behalf.

#### Or select a service to view its use cases

<a href="#">API Gateway</a>	<a href="#">CloudWatch Events</a>	<a href="#">EMR</a>	<a href="#">IoT SiteWise</a>	<a href="#">RAM</a>
<a href="#">AWS Backup</a>	<a href="#">CodeBuild</a>	<a href="#">EMR Containers</a>	<a href="#">IoT Things Graph</a>	<a href="#">RDS</a>
<a href="#">AWS Chatbot</a>	<a href="#">CodeDeploy</a>	<a href="#">ElastiCache</a>	<a href="#">KMS</a>	<a href="#">Redshift</a>
<a href="#">AWS Marketplace</a>	<a href="#">CodeGuru</a>	<a href="#">Elastic Beanstalk</a>	<a href="#">Kinesis</a>	<a href="#">Rekognition</a>
<a href="#">AWS Support</a>	<a href="#">CodeStar Notifications</a>	<a href="#">Elastic Container Registry</a>	<a href="#">Lake Formation</a>	<a href="#">RoboMaker</a>

\* Required

Cancel

Next: Permissions

## Create role

1 2 3 4

### Attach permissions policies


Choose one or more policies to attach to your new role.

Create policy



Filter policies

Showing 23 results

<input checked="" type="checkbox"/>	Policy name	Used as
<input checked="" type="checkbox"/>	 <a href="#">AWSLambdaBasicExecutionRole</a>	Permissions policy (12)
<input type="checkbox"/>	<a href="#">AWSLambdaBasicExecutionRole-0457599d-4b38-4305-b151-902785f8129f</a>	Permissions policy (1)
<input type="checkbox"/>	<a href="#">AWSLambdaBasicExecutionRole-0711a140-9353-49c2-b7c3-92f815022c2b</a>	Permissions policy (1)
<input type="checkbox"/>	<a href="#">AWSLambdaBasicExecutionRole-0c444622-3756-4643-9407-882745b780f6</a>	Permissions policy (1)
<input type="checkbox"/>	<a href="#">AWSLambdaBasicExecutionRole-22739936-14ff-4c3e-9d0b-86203c68ca4a</a>	Permissions policy (1)
<input type="checkbox"/>	<a href="#">AWSLambdaBasicExecutionRole-2a548e4d-30d7-411c-9dde-59eae2caf03a</a>	Permissions policy (1)
<input type="checkbox"/>	<a href="#">AWSLambdaBasicExecutionRole-33d56a2e-e2f6-449f-85a3-ea9995745d60</a>	Permissions policy (1)
<input type="checkbox"/>	<a href="#">AWSLambdaBasicExecutionRole-376732c7-5125-4ef2-a13a-acb539df12d8</a>	Permissions policy (1)

### Set permissions boundary

\* Required

Cancel

Previous

Next: Tags

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## Create role

1 2 3 4

### Add tags (optional)

IAM tags are key-value pairs you can add to your role. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this role. [Learn more](#)

Key	Value (optional)	Remove
<input type="text" value="Add new key"/>	<input type="text"/>	

You can add 50 more tags.

Cancel

Previous

Next: Review

## Create role

1 2 3 4

### Review

Provide the required information below and review this role before you create it.

Role name\* JJTech-GuardDuty-Lambda-Role

Use alphanumeric and '+=, @-\_' characters. Maximum 64 characters.

Role description Allows Lambda functions to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+=, @-\_' characters.

Trusted entities AWS service: lambda.amazonaws.com

Policies  AWSLambdaBasicExecutionRole [↗](#)

Permissions boundary Permissions boundary is not set

No tags were added.

\* Required

Cancel

Previous

Create role

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- Navigate to the role you created

**Identity and Access Management (IAM)**

Dashboard

- Access management
  - User groups
  - Users
  - Roles**
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access analyzer
    - Archive rules
    - Analyzers
    - Settings
  - Credential report
  - Organization activity
  - Service control policies (SCPs)

**Summary**

Role ARN: arn:aws:iam::464599248654:role/JJTech-GuardDuty-Lambda-Role

Role description: Allows Lambda functions to call AWS services on your behalf.

Instance Profile ARNs: /

Path: /

Creation time: 2021-11-04 02:30 UTC+0530

Last activity: Not accessed in the tracking period

Maximum session duration: 1 hour

**Permissions**

Permissions policies (1 policy applied)

[Attach policies](#)

[Add inline policy](#)

Policy name	Policy type
AWSLambdaBasicExecutionRole	AWS managed policy

- Update the SNS Topic ARN which was created in Step - 1

## Create policy

A policy defines the AWS permissions that you can assign to a user, group, or role. You can create and edit a policy in the visual editor and using JSON. [Learn more](#)

**Visual editor** **JSON**

[Import managed policy](#)

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "VisualEditor0",
6       "Effect": "Allow",
7       "Action": "sns:Publish",
8       "Resource": "arn:aws:sns:us-west-2:464599248654:JJTech-GuardDuty-SNS"
9     }
10  ]
11 }
```

Character count: 170 of 10,240.

[Cancel](#) [Review policy](#)

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## JJ Tech

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "VisualEditor0",
      "Effect": "Allow",
      "Action": "sns:Publish",
      "Resource": "<ARN-OF-YOUR-SNS-TOPIC>"
    }
  ]
}
```

### Create policy

1 2

### Review policy

Before you create this policy, provide the required information and review this policy.

Name\* SNS-topic-access

Maximum 128 characters. Use alphanumeric and '+,=,@,\_' characters.

#### Summary

Filter			
Service	Access level	Resource	Request condition
Allow (1 of 299 services) Show remaining 298			
SNS	Limited: Write	TopicName   string like   JJTech-GuarDuty-SNS	None

\* Required

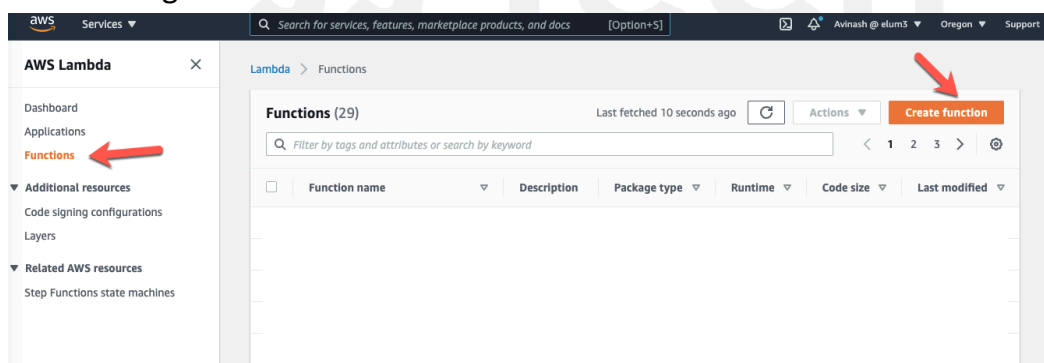
Cancel

Previous

Create policy

## Step 3: Create Lambda Function

- Navigate to Lambda console



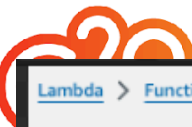
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Lambda > Functions > Create function

## Create function [Info](#)

Choose one of the following options to create your function.

☒ **Author from scratch**  
Start with a simple Hello World example.

☐ **Use a blueprint**  
Build a Lambda application from sample code and configuration presets for common use cases.

☐ **Container image**  
Select a container image to deploy for your function.

### Basic information

**Function name**  
Enter a name that describes the purpose of your function.

JJtech-GuardDuty-lambda

Use only letters, numbers, hyphens, or underscores with no spaces.

**Runtime** [Info](#)  
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.12

**Architecture** [Info](#)  
Choose the instruction set architecture you want for your function code.

☒ x86\_64

☐ arm64

**Permissions** [Info](#)  
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

▼ **Change default execution role**

**Execution role**  
Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

☐ Create a new role with basic Lambda permissions

☒ Use an existing role

☐ Create a new role from AWS policy templates

**Existing role**  
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

lambdaGuardDuty

[View the lambdaGuardDuty role](#) on the IAM console.

► **Advanced settings**

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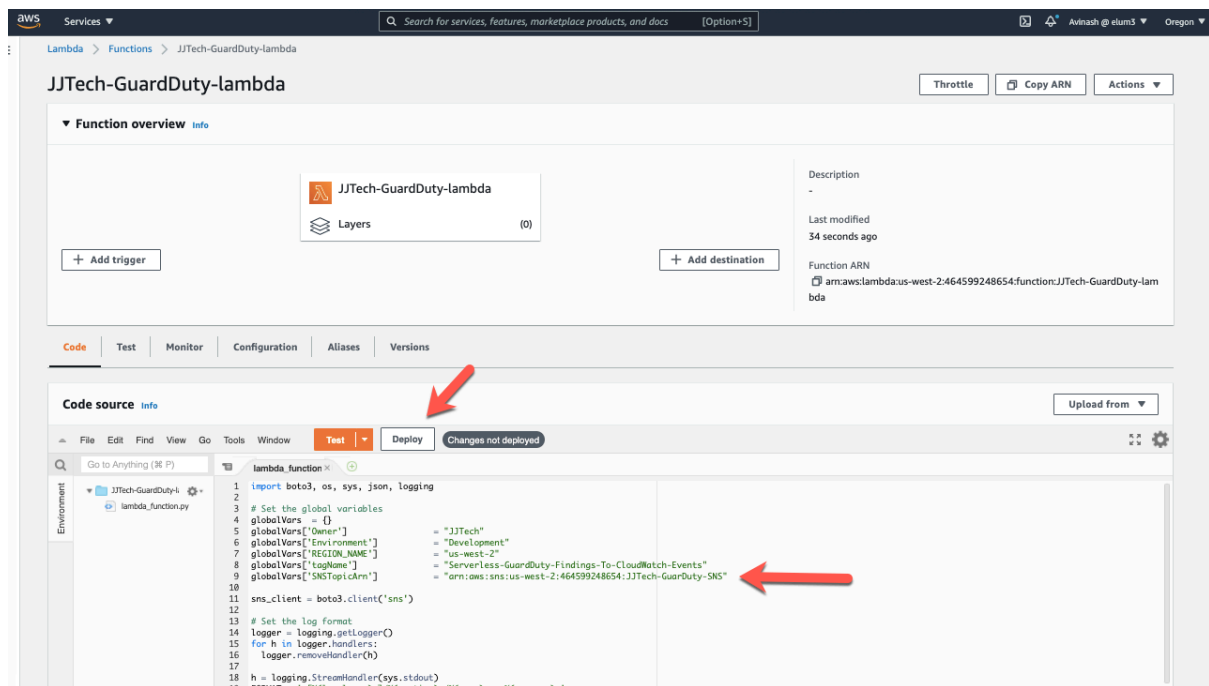
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- Get the lambda code
- Change line 6 with your SNS topic ARN you created at Step 1
- Then Deploy the new code to the lambda function



- Now we have to increase the lambda timeout
  - select the lambda function > click on the configuration tab > General Configuration and click on Edit

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Lambda > Functions > lambda4GuardDuty

### lambda4GuardDuty

Throttle Copy ARN Actions

Function overview Info

Export to Application Composer Download

Diagram Template

lambda4GuardDuty

Layers (0)

EventBridge (CloudWatch Events)

+ Add trigger

+ Add destination

Description

Last modified 1 hour ago

Function ARN [arn:aws:lambda:us-east-1:666572520784:function:lambda4GuardDuty](#)

Function URL [Info](#)

Code Test Monitor **Configuration** Aliases Versions

General configuration Info

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC

General configuration

Description

Timeout 15 min 0 sec

Memory 128 MB

SnapStart [Info](#)

None

Ephemeral storage 512 MB

Edit

## Edit basic settings

**Basic settings** Info

Description - optional

Memory (MB) Info

Your function is allocated CPU proportional to the memory configured.

128 MB

Set memory to between 128 MB and 10240 MB

Timeout

15 min 0 sec

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

☒ Use an existing role

☐ Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

JJTech-GuardDuty-Lambda-Role

[View the JJTech-GuardDuty-Lambda-Role role](#) on the IAM console.

Cancel Save

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## STEP 4: Create Cloudwatch rule to trigger the lambda

- Create Cloudwatch rule to trigger lambda whenever New GuardDuty finding is available. So that we will get notified with the details to our mail
- Navigate to EventBridge console

The screenshot shows the Amazon EventBridge console interface. At the top, it says 'Application Integration' and 'Amazon EventBridge Build event-driven applications at scale'. Below this, a description states: 'Amazon EventBridge is a serverless event bus that makes it easier to build event-driven applications at scale using events generated from your applications, Integrated Software-as-a-Service (SaaS) applications, and AWS services.' On the right side, there's a 'Create a new rule' section with a description: 'Create a rule. Choose an AWS service, SaaS app or custom app as event source, define event pattern, and attach an AWS service or SaaS apps via API Destination as target(s).' Below this description are two buttons: 'Create rule' (highlighted with a red arrow) and 'View rules'. Further down, there's a 'Schema registry' section with instructions: 'Find existing AWS service event schemas, generate one from an event bus, or create your own custom schemas.' and 'Automatically generate code bindings and IDE integrations for events in EventBridge.' Below this is a 'Go to schema registry' button. At the bottom left, there's a 'How it works' section with a diagram showing the flow from 'AWS Services' and 'Custom Apps' through 'Amazon EventBridge' to 'Schema Registry', 'Schema Discovery', 'Default event bus', and finally to 'AWS Lambda' and 'Amazon SNS' via 'Code Binding'.

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**EventBridge - Learning content**

Tell us what topics you would like to see more learning material for (tutorials, videos, blog posts, etc.).

[Provide Feedback](#)

## Create rule

A rule watches for certain events and then routes them to AWS targets that you choose. You can create a rule that performs an AWS action automatically when another AWS action happens, or a rule that performs an AWS action regularly on a set schedule.

### Name and description

Name

JJTech-GuardDuty-Trigger

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

Description - optional

JJTech-GuardDuty-Trigger

### Define pattern

Build or customize an Event Pattern or set a Schedule to invoke Targets.

☒ Event pattern [Info](#)

Build a pattern to match events

☐ Schedule [Info](#)

Invoke your targets on a schedule

#### Event matching pattern

You can use pre-defined pattern provided by a service or create a custom pattern

☒ Pre-defined pattern by service☐ Custom pattern

#### Service provider

AWS services or custom/partner services

AWS

#### Service name

The name of partner service selected as the event source

GuardDuty

#### Event type

The type of events as the source of the matching pattern

GuardDuty Finding

#### Event pattern

[Copy](#)[Edit](#)

```
1 {
2   "source": ["aws.guardduty"],
3   "detail-type": ["GuardDuty Finding"]
4 }
```

[▶ Sample event\(s\)](#)[▶ Test event pattern](#)

### Select event bus

Select an event bus for this rule.

☒ AWS default event bus☐ Custom or partner event bus☒ Enable the rule on the selected event bus

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**Select targets**

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

**Target** Remove

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

Lambda function

Function

JJTech-GuardDuty-lambda

- ▶ Configure version/alias
- ▶ Configure input
- ▶ Retry policy and dead-letter queue

Add target

**Tags - optional**

Key	Value	
<input type="text" value="Enter key"/>	<input type="text" value="Enter value"/>	<span>Remove tag</span>

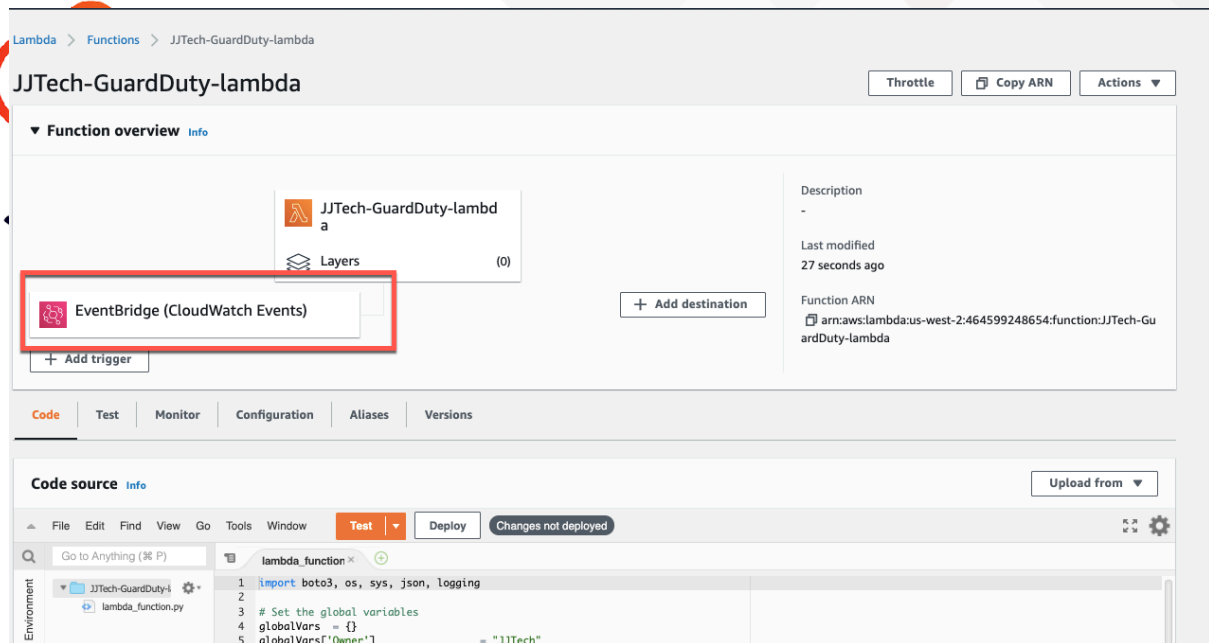
Add tag

Cancel Create

- Now if you navigate to Lambda console you should see below trigger to be configured

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## Step 5: Test the solution

- Navigate to Amazon GuardDuty console
- Let's create some sample findings in Guardduty

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**GuardDuty**

Findings  
Usage  
**Settings**  
Lists  
S3 Protection  
Accounts

What's New  
Partners

Enter account ID (12 digits)

This account will be assigned the two GuardDuty roles required to administer GuardDuty policy in your organization.

Delegate

**Findings export options** Info

Findings are automatically sent to CloudWatch Events. You can also export findings to an S3 bucket. New findings are exported within 5 minutes. You can modify the frequency for updated findings below.

Frequency for updated findings  
Update CWE and S3 every 6 hours (default) Save

**S3 bucket**

You have not configured findings export to S3 [Configure now](#)

**Sample findings** Info

Sample findings help you visualize and analyze the finding types that GuardDuty generates. When you generate sample findings, GuardDuty populates your current findings list with one sample finding for each finding type.

[Generate sample findings](#)

**GuardDuty**

Findings  
Usage

Settings  
Lists  
S3 Protection  
Accounts

What's New  
Partners

New feature: GuardDuty is now available in the AWS Asia Pacific (Osaka) Region. You can now extend your continuous security monitoring and threat detection to the AWS Asia Pacific (Osaka) Region. [Learn more](#)

GuardDuty > Findings Showing 74 of 74 12 30 32

**Findings** Info

[Suppress Findings](#) Info

Saved rules No saved rules

Current Add filter criteria

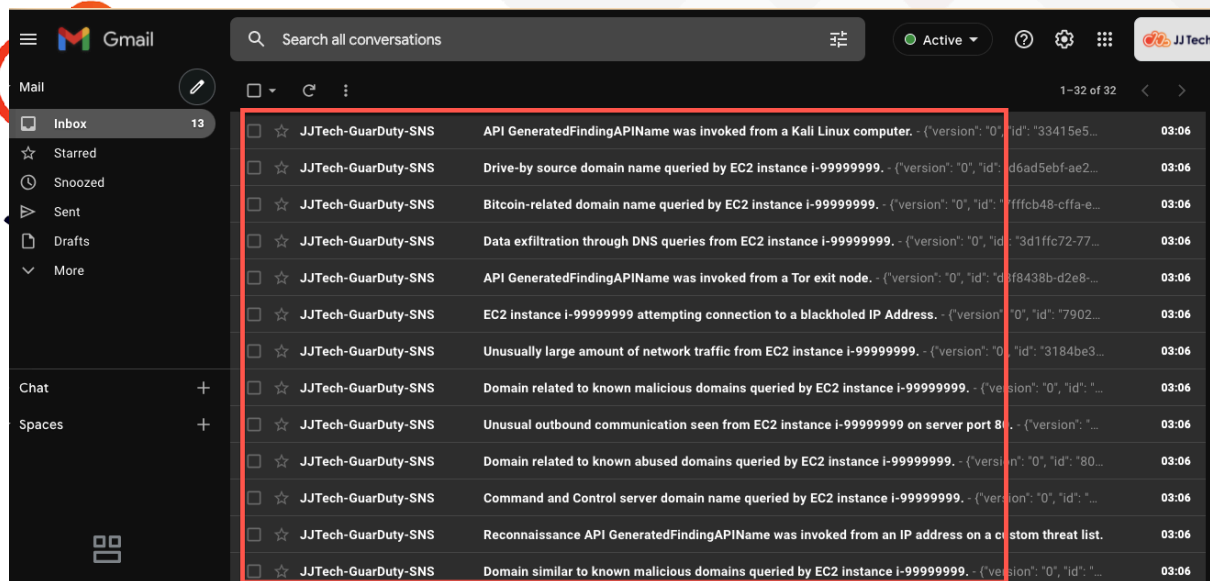
	Finding type	Resource	Last seen	Count
<input type="checkbox"/>	[SAMPLE] Behavior:EC2/TrafficVolumeUnusual	Instance: i-999999999	a few second...	1
<input type="checkbox"/>	[SAMPLE] Exfiltration:IAMUser/AnomalousBehavior	GeneratedFindingUserName: GeneratedFindingAccessKe	a few second...	1
<input type="checkbox"/>	[SAMPLE] UnauthorizedAccess:IAMUser/TorIPCaller	GeneratedFindingUserName: GeneratedFindingAccessKe	a few second...	1
<input type="checkbox"/>	[SAMPLE] UnauthorizedAccess:IAMUser/ConsoleLoginSuccess.B	GeneratedFindingUserName: GeneratedFindingAccessKe	a few second...	1
<input type="checkbox"/>	[SAMPLE] CryptoCurrency:EC2/BitcoinTool.BIDNS	Instance: i-999999999	a few second...	1
<input type="checkbox"/>	[SAMPLE] UnauthorizedAccess:IAMUser/MaliciousIPCaller	GeneratedFindingUserName: GeneratedFindingAccessKe	a few second...	1
<input type="checkbox"/>	[SAMPLE] Exfiltration:S3/ObjectRead.Unusual	GeneratedFindingUserName: GeneratedFindingAccessKe	a few second...	1
<input type="checkbox"/>	[SAMPLE] Stealth:S3/ServerAccessLoggingDisabled	GeneratedFindingUserName: GeneratedFindingAccessKe	a few second...	1
<input type="checkbox"/>	[SAMPLE] UnauthorizedAccess:EC2/MaliciousIPCaller.Custom	Instance: i-999999999	a few second...	1

- You will receive mails whenever new finding is available in GuardDuty
- Based on the issue you have to fix them

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- For example If an EC2 instance got compromised try to terminate
- If an EC2 instance is getting malicious traffic try to block them in NACL or restrict access to respective networks in Security group and so on

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# JJ Tech

## AMAZON INSPECTOR.

**GOAL: USE AMAZON Inspector to inspect the security posture of EC2 instances based on CIS benchmarks**

steps:

1. Enable Amazon Inspector in the region
2. launch 3 Amazon Linux 2 instance with necessary SSM permissions to enable these instance to be "managed Instances"
3. create a one time scan and view the Inspector results

### Enable Inspector in your Region

we have to enable inspector in the Account and region

The screenshot shows the 'Activate Inspector' page in the AWS console. On the left, there's a sidebar with 'Inspector' and 'Activate Inspector' links. The main content area has a header 'Activate Inspector' with an 'Info' link. Below this, the 'Delegated administrator' section includes a 'Delegate' button and a text box for the 'Delegated administrator account ID' containing '666572520784'. An orange arrow points to this ID with the word 'optional' next to it. The 'Service permissions' section has a 'View role permissions' button. At the bottom right, there is an 'Activate Inspector' button.

Once enabled, then we can see the details of inspector in the inspector console.

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### Launch 3 EC2 managed instances.

- navigate to EC2 console and launch 3 EC2 instances based on Amazon Linux 2 ami
- Attach an Instance Profile (role) with SSM permissions so Systems Manager can manage these nodes.
- ensure all instance have a common tag (for simplicity)

e.g **Name: inspectorInstance**

### Create an inspector check based on CIS level 2 (supported CIS level for Amazon Linux 2).

- navigate to the inspector console
- click on “On-demand scans” and “create new scan”
- Provide necessary details
  - name: CIS-test-scan
  - key= **Name** , Value= **inspectorInstance** (based on the tag on EC2 instances)
  - CIS Benchmark Level = LEVEL\_2
  - Target accounts = self
  - schedule = One time scan
- Click on “create”
- All tag instances are scanned after the create is complete.

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