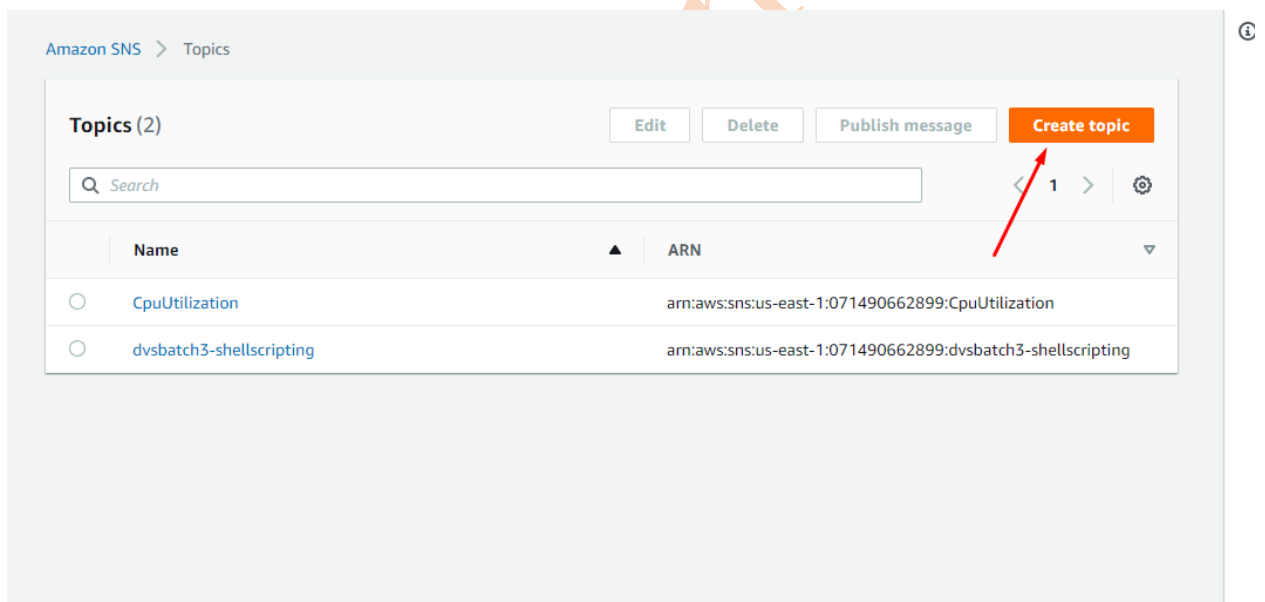
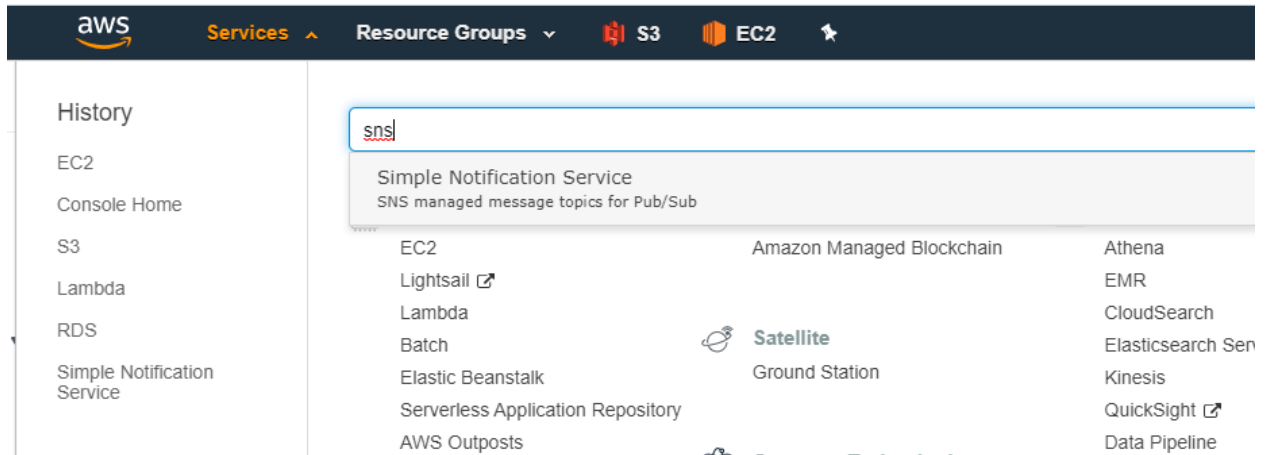


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Lambda Configuration ::

1. SNS Configuration :



DVS Technologies Aws & Devops

Create topic

Details

Name

Ec2ServerStatus

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](#)

Ec2ServerStatus

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*

► 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

ARN

arn:aws:sns:us-east-1:071490662899:Ec2ServerStatus

Topic owner

071490662899

Subscriptions

Access policy

Delivery retry policy (HTTP/S)

Delivery status logging

Encryption

Tags

Subscriptions (0)

Edit

Delete

Request confirmation

Confirm subscription

Create subscription

Q Search

< 1 > ⚙

ID

▼

Endpoint

▼

Status

▼

Protocol

▲

No subscriptions found

You don't have any subscriptions to this topic.

Create subscription

DVS Technologies Aws & Devops

Details

Topic ARN

Protocol
The type of endpoint to subscribe

Endpoint
An email address that can receive notifications from Amazon SNS.

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

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

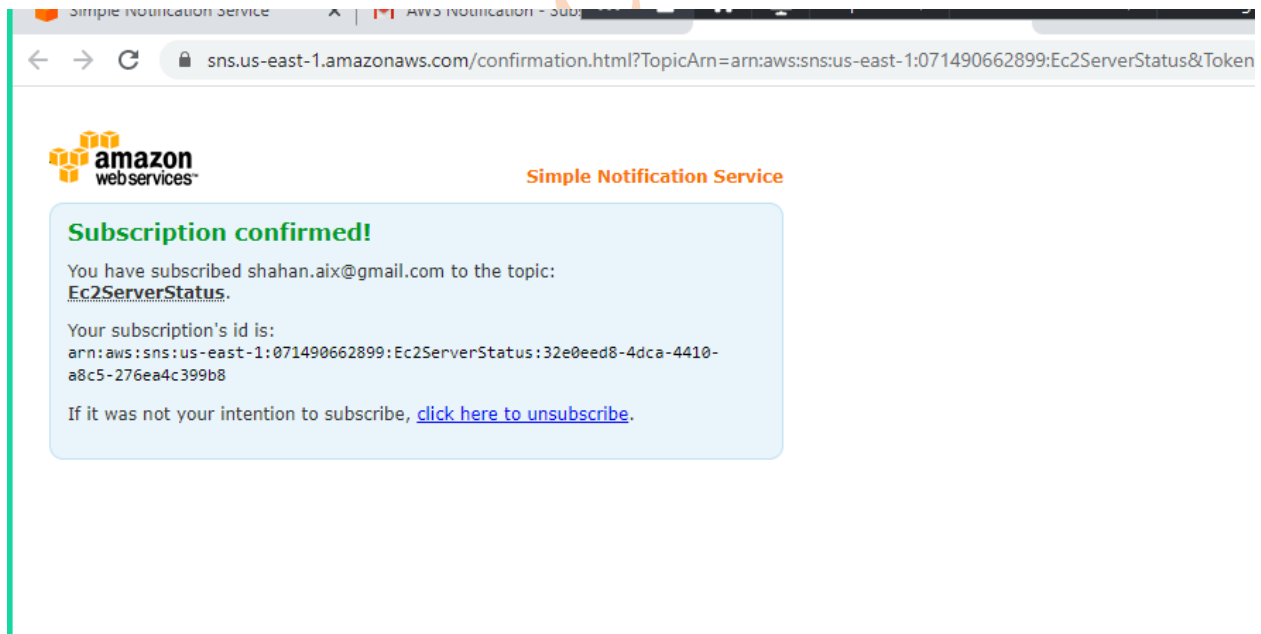
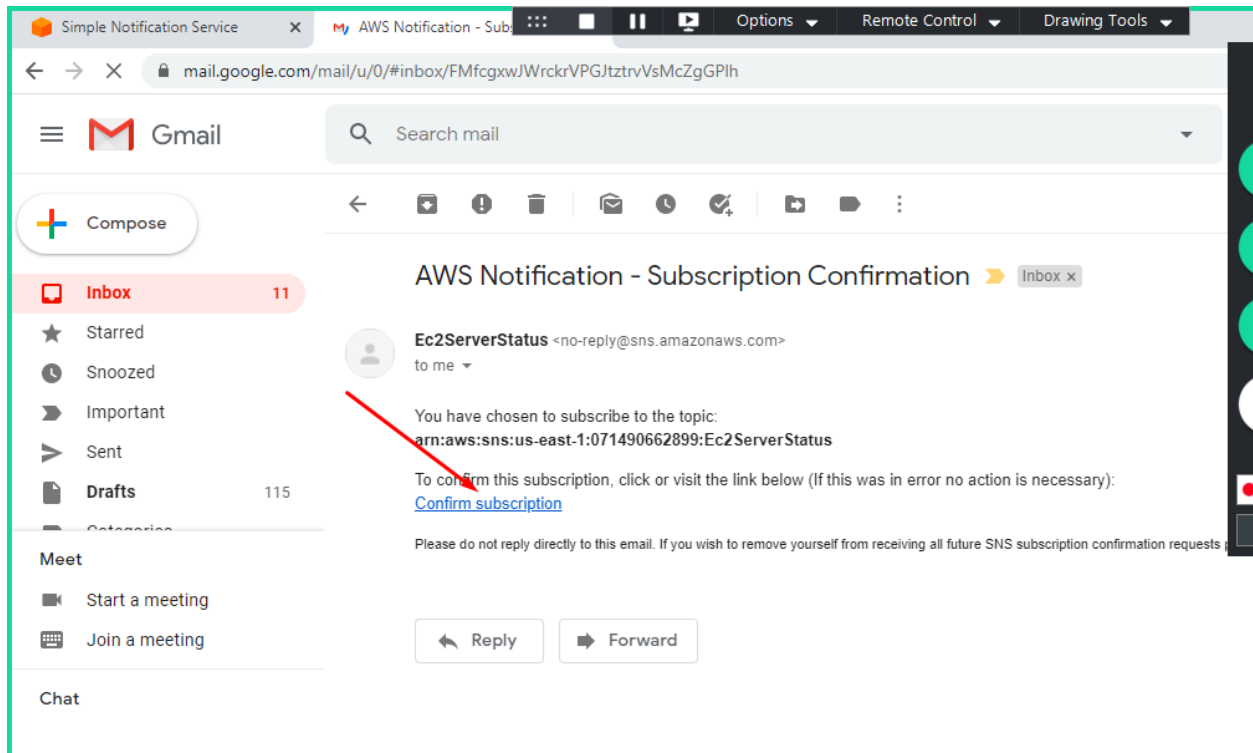
Redrive policy (dead-letter queue) - optional
Send undeliverable messages to a dead-letter queue. [Info](#)

[Cancel](#) [Create subscription](#)

Details

ARN arn:aws:sns:us-east-1:071490662899:Ec2ServerStatus:32e0eed8-4dca-4410-a8c5-276ea4c399b8	Status ⌚ Pending confirmation
Endpoint shahan.aix@gmail.com	Protocol EMAIL
Topic Ec2ServerStatus	

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DVS Technologies Aws & Devops

Amazon SNS > Topics > Ec2ServerStatus > Subscription: 32e0eed8-4dca-4410-a8c5-276ea4c399b8

Subscription: 32e0eed8-4dca-4410-a8c5-276ea4c399b8

Edit

Delete

Details

ARN

arn:aws:sns:us-east-1:071490662899:Ec2ServerStatus:32e0eed8-4dca-4410-a8c5-276ea4c399b8

Endpoint

shahan.aix@gmail.com

Topic

[Ec2ServerStatus](#)

Status

Confirmed

Protocol

EMAIL

Subscription filter policy

Redrive policy (dead-letter queue)

Subscription filter policy

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

2. Policy Creation ::

Identity and Access Management (IAM)

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

Welcome to Identity and Access Management

IAM users sign-in link:
<https://071490662899.signin.aws.amazon.com/console> [Customize](#)

IAM Resources

Users: 7	Roles: 19
Groups: 1	Identity Providers: 0
Customer Managed Policies: 9	

Security Status 2 out of 5 complete

- Delete your root access keys
- Activate MFA on your root account
- Create individual IAM users
- Use groups to assign permissions
- Apply an IAM password policy

DVS Technologies Aws & Devops

Create policy **Policy actions** ▾

Filter policies ▾

	Policy name ▾	Type	Used as	Description
<input type="radio"/>	AccessAnalyzerServiceRoleP...	AWS managed	None	Allow Ac
<input type="radio"/>	AdministratorAccess	Job function	Permissions policy (1)	Provides
<input type="radio"/>	AlexaForBusinessDeviceSetup	AWS managed	None	Provide c
<input type="radio"/>	AlexaForBusinessFullAccess	AWS managed	None	Grants fu
<input type="radio"/>	AlexaForBusinessGatewayEx...	AWS managed	None	Provide c
<input type="radio"/>	AlexaForBusinessLifesizeDel...	AWS managed	None	Provide a
<input type="radio"/>	AlexaForBusinessNetworkPr...	AWS managed	None	This polic
<input type="radio"/>	AlexaForBusinessPolyDelega...	AWS managed	None	Provide a
<input type="radio"/>	AlexaForBusinessReadOnlyA...	AWS managed	None	Provide r
<input type="radio"/>	AmazonAPIGatewayAdminist...	AWS managed	None	Provides
<input type="radio"/>	AmazonAPIGatewayInvokeF...	AWS managed	None	Provides
<input type="radio"/>	AmazonAPIGatewayPushTo...	AWS managed	None	Allows AI
<input type="radio"/>	AmazonAppFlowFullAccess	AWS managed	None	Provides

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](#)

[Expand all](#) | [Collapse all](#)

▼ **SNS (1 action)** [Clone](#) | [Remove](#)

▶ **Service** [SNS](#)

▶ **Actions** [Write](#)
[Publish](#)

▼ **Resources** [close](#) ☐ [Specific](#)
☒ [All resources](#)

▶ **Request conditions** [Specify request conditions \(optional\)](#)

[Add additional permissions](#)

Character count: 117 of 6,144. [Cancel](#) [Review policy](#)

DVS Technologies Aws & Devops

▶ Actions Write
Publish

▼ Resources ☐ Specific
[close](#) ☒ All resources

▶ Request conditions [Specify request conditions \(optional\)](#)

▼ CloudWatch Logs (All actions) [Clone](#) [Remove](#)

▶ Service CloudWatch Logs

▶ Actions Manual actions

▼ Resources ☐ Specific
[close](#) ☒ All resources

▶ Request conditions [Specify request conditions \(optional\)](#)

[Add additional permissions](#)

Character count: 128 of 6,144.

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

Name*

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

Description

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

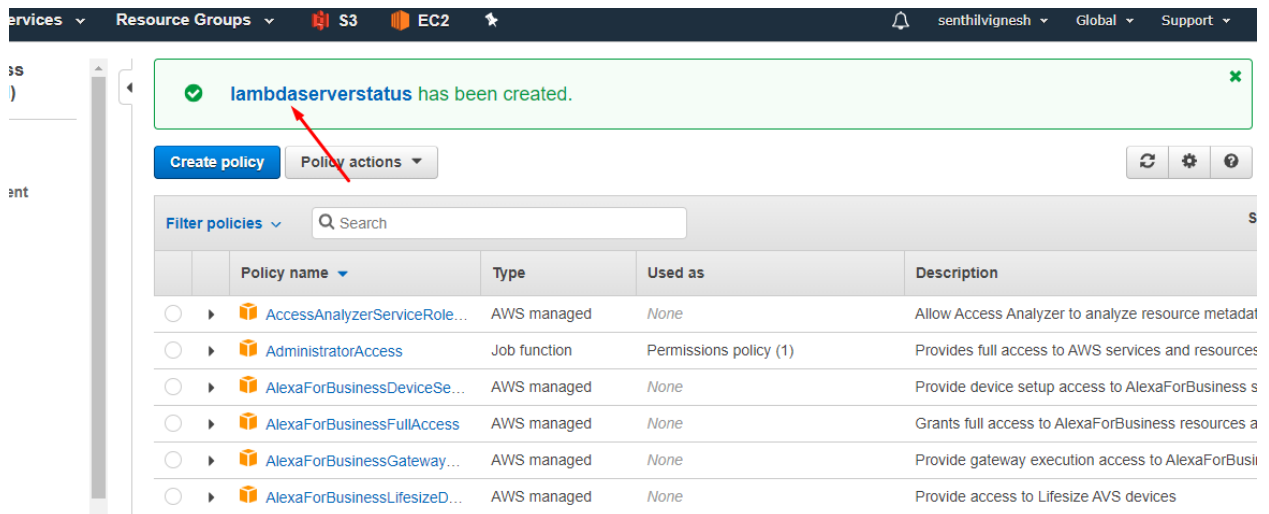
Summary

Service ▼	Access level	Resource	Request condition
Allow (2 of 234 services) Show remaining 232			
CloudWatch Logs	Full access	All resources	None
SNS	Limited: Write	All resources	None

* Required

[Cancel](#) [Previous](#) [Create policy](#)

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services ▾ Resource Groups ▾ S3 EC2 ☆

sentilvignesh ▾ Global ▾ Support ▾

is)

ent

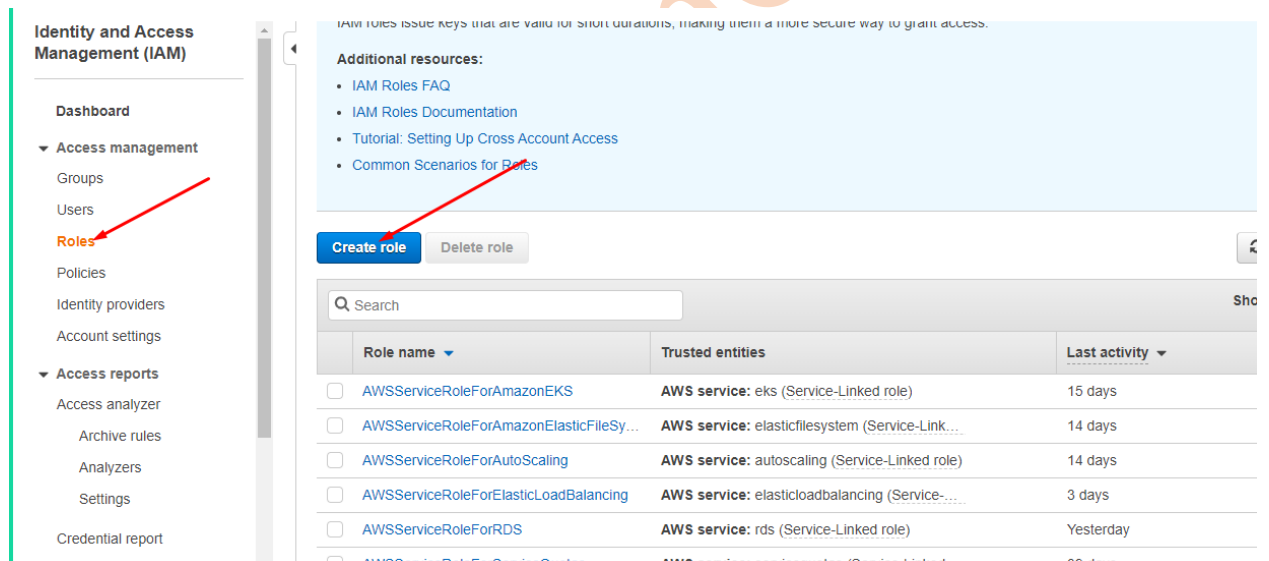
lambdaserverstatus has been created.

Create policy Policy actions ▾

Filter policies ▾ Search

	Policy name ▾	Type	Used as	Description
<input type="radio"/>	AccessAnalyzerServiceRole...	AWS managed	None	Allow Access Analyzer to analyze resource metadat
<input type="radio"/>	AdministratorAccess	Job function	Permissions policy (1)	Provides full access to AWS services and resources
<input type="radio"/>	AlexaForBusinessDeviceSe...	AWS managed	None	Provide device setup access to AlexaForBusiness s
<input type="radio"/>	AlexaForBusinessFullAccess	AWS managed	None	Grants full access to AlexaForBusiness resources a
<input type="radio"/>	AlexaForBusinessGateway...	AWS managed	None	Provide gateway execution access to AlexaForBusi
<input type="radio"/>	AlexaForBusinessLifeseD...	AWS managed	None	Provide access to Lifesize AVS devices

3. Configuring ROLE ::



Identity and Access Management (IAM)

Dashboard

Access management

- Groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analizers
- Settings
- Credential report

IAM roles issue keys that are valid for short durations, making them a more secure way to grant access.

Additional resources:

- [IAM Roles FAQ](#)
- [IAM Roles Documentation](#)
- [Tutorial: Setting Up Cross Account Access](#)
- [Common Scenarios for Roles](#)

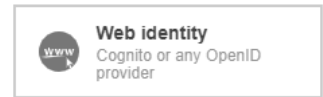
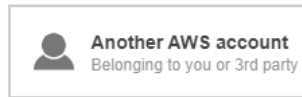
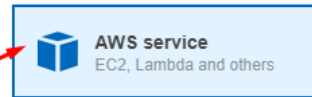
Create role Delete role

Search

Role name ▾	Trusted entities	Last activity ▾
<input type="checkbox"/> AWSServiceRoleForAmazonEKS	AWS service: eks (Service-Linked role)	15 days
<input type="checkbox"/> AWSServiceRoleForAmazonElasticFileSy...	AWS service: elasticfilesystem (Service-Link...	14 days
<input type="checkbox"/> AWSServiceRoleForAutoScaling	AWS service: autoscaling (Service-Linked role)	14 days
<input type="checkbox"/> AWSServiceRoleForElasticLoadBalancing	AWS service: elasticloadbalancing (Service-....	3 days
<input type="checkbox"/> AWSServiceRoleForRDS	AWS service: rds (Service-Linked role)	Yesterday
<input type="checkbox"/> AWSServiceRoleForServiceQuintac	AWS service: servicequintac (Service-Linked	20 days

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Select type of trusted entity



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

[API Gateway](#)

[CodeGuru](#)

[ElastiCache](#)

[Kinesis](#)

[AWS Backup](#)

[CodeStar Notifications](#)

[Elastic Beanstalk](#)

[Lake Formation](#)

[AWS Chatbot](#)

[Comprehend](#)

[Elastic Container Service](#)

[Lambda](#)

[AWS Support](#)

[Config](#)

[Elastic Transcoder](#)

[Lex](#)

* Required

▼ Attach permissions policies

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

Create policy ↻

Filter policies Showing 1 result

	Policy name	Used as
<input checked="" type="checkbox"/>	lambda server status	None

* 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**

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Create role

1 2 3 4

Review

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

Role name*
Use alphanumeric and '+', '@', '-' characters. Maximum 64 characters.

Role description
Maximum 1000 characters. Use alphanumeric and '+', '@', '-' characters.

Trusted entities AWS service: lambda.amazonaws.com

Policies [lambdaserverstatus](#)

Permissions boundary Permissions boundary is not set

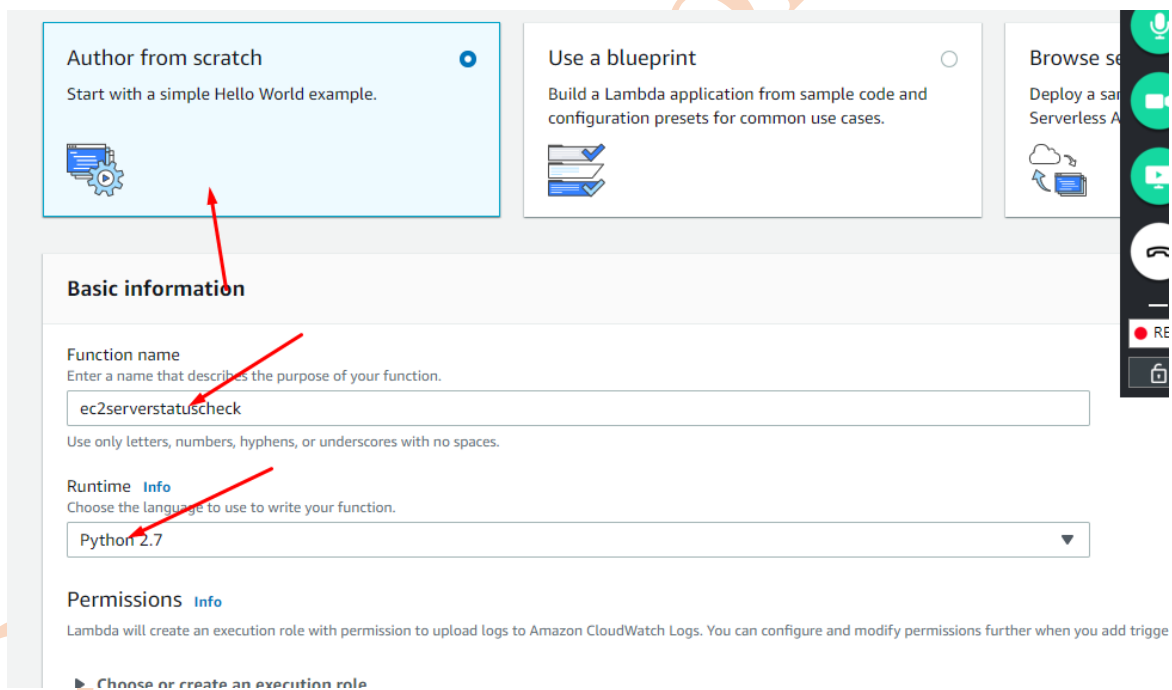
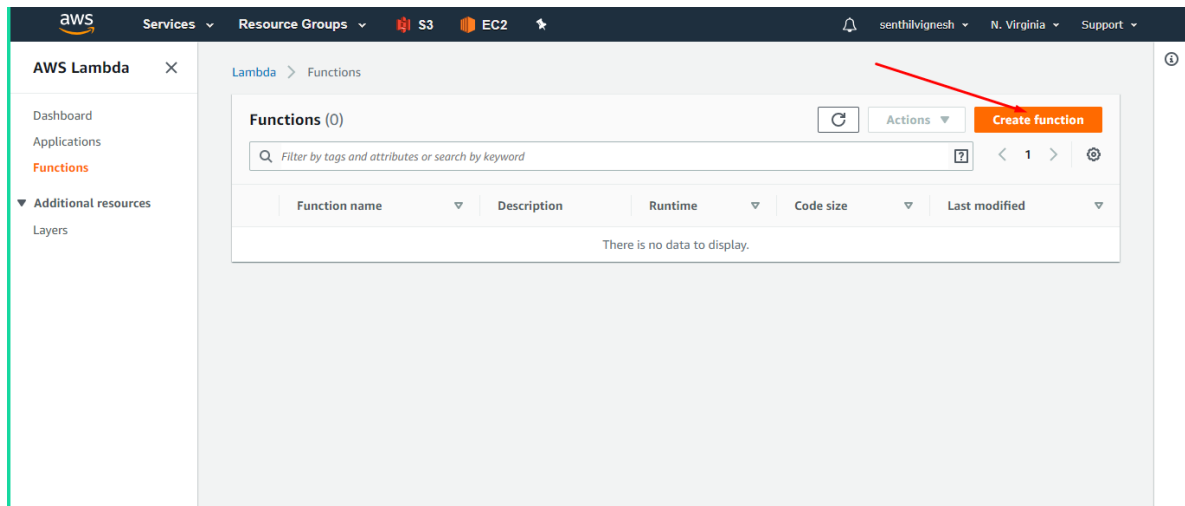
No tags were added.

* Required

Cancel Previous **Create role**

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4. Lambda Creation ::



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Permissions [Info](#)

Lambda will create an execution role with permission to upload logs to Amazon CloudWatch Logs. You can configure and modify permissions further when you add triggers.

▼ Choose or create an 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.

[View the lambda-serverstatuscheck role on the IAM console.](#)

Cancel [Create function](#)

5. Configuring Lambda python Function ::

Python code:

```
1 import boto3
2 client = boto3.client('sns')
3
4 def lambda_handler(event, context):
5     # TODO implement
6     print(event)
7     instance_id = event['detail']['instance-id']
8     #MAKE SURE YOU ARE CHANGING THE ARN BELOW
9     client.publish(
10         TopicArn='arn:aws:sns:us-east-1:071490662899:Ec2ServerStatus',
11         Message='your instance with id '+instance_id+' got stopped please check it ')
12
```

Replace with your SNS ARN value

ec2serverstatuscheck

Introduce Quotations ACTIONS Select a test event Test Save

ec2serverstatuscheck

Unsaved changes

Layers (0)

+ Add trigger

+ Add destination

Function code [Info](#)

Actions ▼

DVS Technologies Aws & Devops

Function code [Info](#)

Throttle Qualifiers Actions Select a test event Test **Save**

Environment

- ec2serverstatuscheck
- lambda_function.py

lambda_function

```
1 import boto3
2 client = boto3.client('sns')
3
4 def lambda_handler(event, context):
5     # TODO implement
6     print(event)
7     print(context)
8     instance_id = event['detail']['instance-id']
9     #MAKE SURE YOU ARE CHANGING THE ARN BELOW
10    client.publish(
11        TopicArn='arn:aws:sns:us-east-1:071490662899:Ec2ServerStatus',
12        Message='your instance with id '+instance_id+' got stopped please check it ')
13
```

copy your code

▼ Designer


+ Add trigger

ec2serverstatuscheck

Layers (0)

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Trigger configuration

 **EventBridge (CloudWatch Events)**
aws events management-tools ▼

Rule
Pick an existing rule, or create a new one.

Create a new rule ▼

Select or create a new rule

Rule name*
Enter a name to uniquely identify your rule.

lambdaec2RULE

Rule description
Provide an optional description for your rule.

lambdaec2RULE

Rule type
Trigger your target based on an event pattern, or based on an automated schedule.

☐ Event pattern

☒ Schedule expression

Schedule expression*
Self-trigger your target on an automated schedule using Cron or rate expressions. Cron expressions are in UTC.

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Rule type
Trigger your target based on an event pattern, or based on an automated schedule.

☒ Event pattern
☐ Schedule expression

EC2

EC2 instance state-change notification

☒ Detail

Detail

☐ Instances ☒ State

State

☒ pending ☒ stopped ☒ terminated

▼ Event pattern preview

```
{
  "source": [
    "aws.ec2"
  ],
  "detail-type": [
    "EC2 Instance State-change Notification"
  ],
  "detail": {
    "state": [
      "pending",
      "stopped",
      "terminated"
    ]
  }
}
```

Lambda will add the necessary permissions for Amazon EventBridge (CloudWatch Events) to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

☒ Enable trigger
Enable the trigger now, or create it in a disabled state for testing (recommended).

Cancel Add

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