

PRACTICAL-05

NAME: K.Nitin reddy

REGNO: 20000330510

SEC NO: 13

Create function [Info](#)

AWS Serverless Application Repository applications have moved to [Create application](#).

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.

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.

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**

► **Advanced settings**

Cancel **Create function**

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EC2 > Instances > Launch an instance

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name

Ec2lambda

Add additional tags

Application and OS Images (Amazon Machine Image)

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Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

5

Browse more AMIs

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type
ami-0b5eea76982371e91 (64-bit (x86)) / ami-03a45a5ac83713307 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20221210.1 x86_64 HVM gp2

Architecture

AMI ID

64-bit (x86)

ami-0b5eea76982371e91

Verified provider

Instance type

t2.micro

Family: t2 1 vCPU 1 GB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour

Free tier eligible

Compare instance types

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

lambdaec2

Create new key pair

Network settings

Network

vpc-0e4a8bc3c0894512f

Subnet

No preference (Default subnet in any availability zone)

Auto-assign public IP

Enable

Firewall (security groups)

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-5' with the following rules:

Allow SSH traffic from

Anywhere

Allow HTTPS traffic from the internet

Allow HTTP traffic from the internet

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage

1x

8

GiB

gp2

Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems

Advanced details

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-0b5eea76982371e91

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750

Cancel

Launch instance

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IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Select trusted entity [Info](#)

Trusted entity type

☒ **AWS service**
Allow AWS services like EC2, Lambda, or others to perform actions in this account.

☐ **AWS account**
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

☐ **Web identity**
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

☐ **SAML 2.0 federation**
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

☐ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

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.

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lambdaec2.pem

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Kusumanth Reddy Gade

IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

Ec2 Lambda

Maximum 64 characters. Use alphanumeric and "+, @, _" characters.

Description

Add a short explanation for this role.

Allows Lambda functions to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and "+, @, _" characters.

Step 1: Select trusted entities

Edit

1 {

2 "Version": "2012-10-17",

3 "Statement": [

4 {

5 "Effect": "Allow",

6 "Action": [

7 "sts:AssumeRole"

8],

9 "Principal": {

10 "Service": [

11 "lambda.amazonaws.com"

12]

13 }

14 }]

15 }

16 }

Step 2: Add permissions

Edit

Permissions policy summary

Policy name	Type	Attached as
No permissions added		

Tags

Add tags - optional

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add tag

You can add up to 50 more tags.

Cancel

Previous

Create role

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Documentation

Create policy

12

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 editorJSON

Import managed policy

Expand allCollapse all

EC2 (2 actions)

CloneRemove

ServiceEC2

ActionsWrite

StartInstances

StopInstances

JSON

Import managed policy

Use all

Close

EC2

Write

StartInstances

StopInstances

Resources

Specific

All resources

Instance

arn:aws:ec2:us-east-1:409604559153:instance/i-030fc8f3506191

EDIT

Any in this account

Add ARN to restrict access

license-configurat...

You have not specified resource with type license-configuration

Any in this account

Add ARN to restrict access

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Create policy

12

Review policy

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

Name*

lambda

Maximum 128 characters. Use alphanumeric and *+_,@,~ characters.

Summary

Filter

Service	Access level	Resource	Request condition
Allow (1 of 357 services) Show remaining 356			
EC2	Limited: Write	InstanceID string like i-030fc8f3506191798	None

y

its policy, provide the required information and review this policy.

Name*

lambda

Maximum 128 characters. Use alphanumeric and *+_,@,~ characters.

* Required

Summary

Filter

Service	Access level	Resource	Request condition
Allow (1 of 357 services) Show remaining 356			
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Cancel

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Create policy

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