

PROJECT 2:HOW TO CREATE NEW INSTANCE USING AMAZON MACHINE IMAGE

Creating image:

Steps:

1. To create image using AMI, go to EC2 and click on instances.
2. Select the instance that is created before and click on action.
3. In action, select image and template. In image and template, select create images.
4. Give name as anu-server-backup and description to the instances.

The screenshot displays the AWS Management Console interface for the EC2 service. The left-hand navigation pane shows the 'Instances' section selected. The main content area shows a list of instances, with 'theeksha-server' (Instance ID: i-0ea9e0253cd890123) highlighted. Below the list, the details for this instance are shown, including its AMI ID (ami-0c76bd4bd302b30ec), AMI name (al2023-ami-2023.6.20241121.0-kernel-6.1-x86_64), and platform details (Linux/UNIX). The instance is in a 'Running' state with all status checks passed.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
shree-server	i-0d106e350142be043	Running	t2.micro	2/2 checks passed	View alarms +	eu-west-2a	-	3.9.11
theeksha-server	i-0ea9e0253cd890123	Running	t2.micro	2/2 checks passed	View alarms +	eu-west-2a	-	3.8.30
shravya-server2	i-05323e87910dc9879	Running	t2.micro	2/2 checks passed	View alarms +	eu-west-2a	-	18.13
raksha-backup...	i-0f85f1881ad8dd408	Running	t2.micro	2/2 checks passed	View alarms +	eu-west-2a	-	18.17
shravya-server	i-097a0bccc05f66e15	Running	t2.micro	2/2 checks passed	View alarms +	eu-west-2a	-	35.17

i-0ea9e0253cd890123 (theeksha-server)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary

Instance details

AMI ID ami-0c76bd4bd302b30ec	Monitoring disabled	Platform details Linux/UNIX
AMI name al2023-ami-2023.6.20241121.0-kernel-6.1-x86_64	Allowed image -	Termination protection Disabled

AMI Summary

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

ami-0778b9f2fa372f0fa

EC2 Image Builder

Actions

Launch instance from AMI

Image summary for ami-0778b9f2fa372f0fa

AMI ID

ami-0778b9f2fa372f0fa

Image type

machine

Platform details

Linux/UNIX

Root device type

EBS

AMI name

theeksha1backup

Owner account ID

471112860190

Architecture

x86_64

Usage operation

RunInstances

Root device name

/dev/xvda

Status

Available

Source

471112860190/theeksha1backup

Virtualization type

hvm

Boot mode

uefi-preferred

State reason

-

Creation date

2024-12-10T06:41:50.000Z

Kernel ID

-

Description

theek-backup

Product codes

-

RAM disk ID

-

Deprecation time

-

Last launched time

-

Block devices

/dev/xvda=snap-081258b5b484faea6:10:true:gp3

Deregistration protection

Disabled

Allowed image

-

Source AMI ID

ami-0c76bd4bd302b30ec

Source AMI Region

eu-west-2

Permissions

Storage

Tags

Image share permission

Private

This image is only shared with account IDs, organizations, or OUs that you have specified.

Restrictions for sharing images publicly are managed using Block public access for AMIs setting under Data protection and security.

After Launching the backup server:

Dashboard

EC2 Global View

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i-0f3a94271e6819c01

Connect

Instance state

Actions

Instance summary for i-0f3a94271e6819c01 (theebackups)

Updated 1 minute ago

Instance ID

i-0f3a94271e6819c01

Public IPv4 address

18.175.237.243 | open address

Private IPv4 addresses

10.0.1.55

IPv6 address

-

Instance state

Running

Public IPv4 DNS

-

Hostname type

IP name: ip-10-0-1-55.eu-west-2.compute.internal

Private IP DNS name (IPv4 only)

ip-10-0-1-55.eu-west-2.compute.internal

Answer private resource DNS name

-

Instance type

t2.micro

Elastic IP addresses

-

Auto-assigned IP address

18.175.237.243 [Public IP]

VPC ID

vpc-0075af2e567a19c68 (theeksha-vpc)

AWS Compute Optimizer finding

User: arn:aws:iam:471112860190:user/Student44 is not a authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action

IAM Role

-

Subnet ID

subnet-08079d838ca266d50 (theeksha-subnet 1)

Auto Scaling Group name

-

IMDSv2

Required

Instance ARN

arn:aws:ec2:eu-west-2:471112860190:instance/i-0f3a

Managed

false

Final Result:

