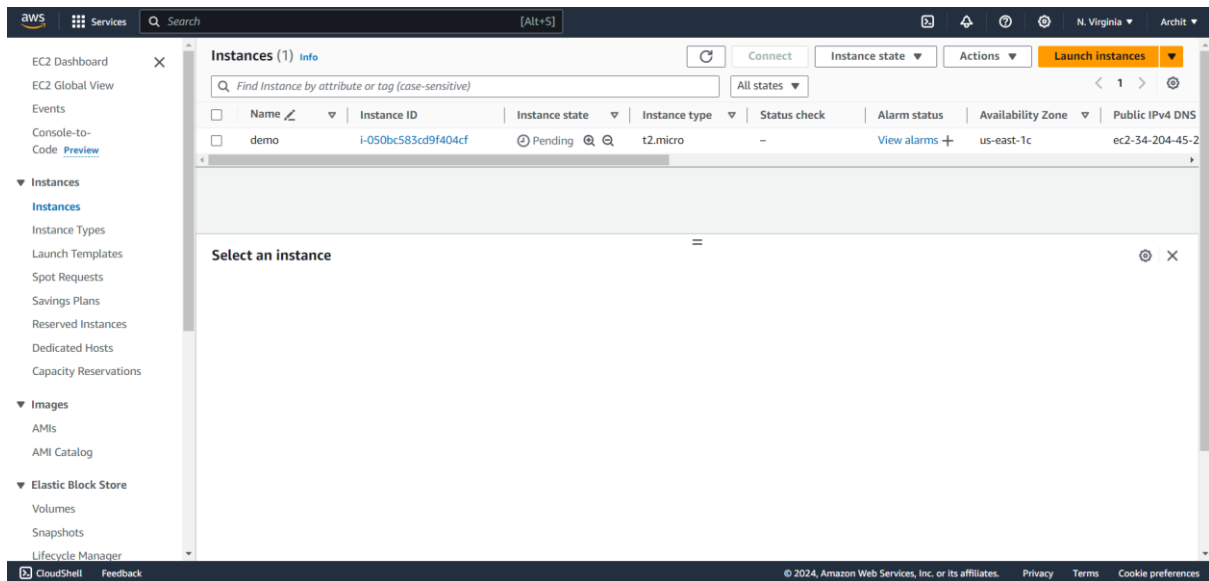
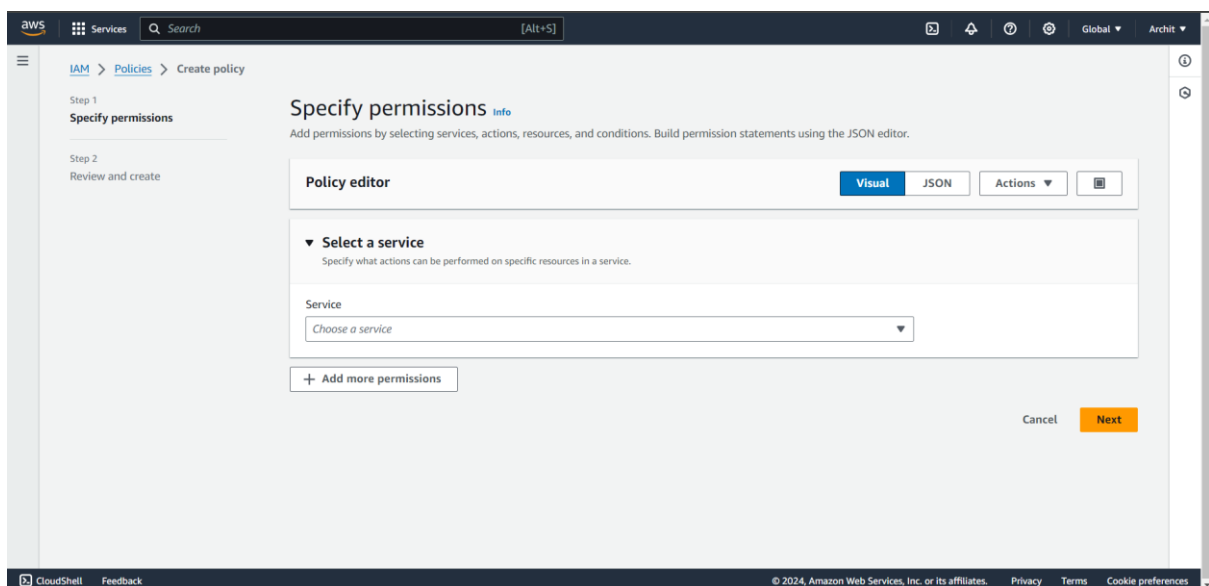


Creating schedules for stopping Instances in Lambda functions and CloudWatch

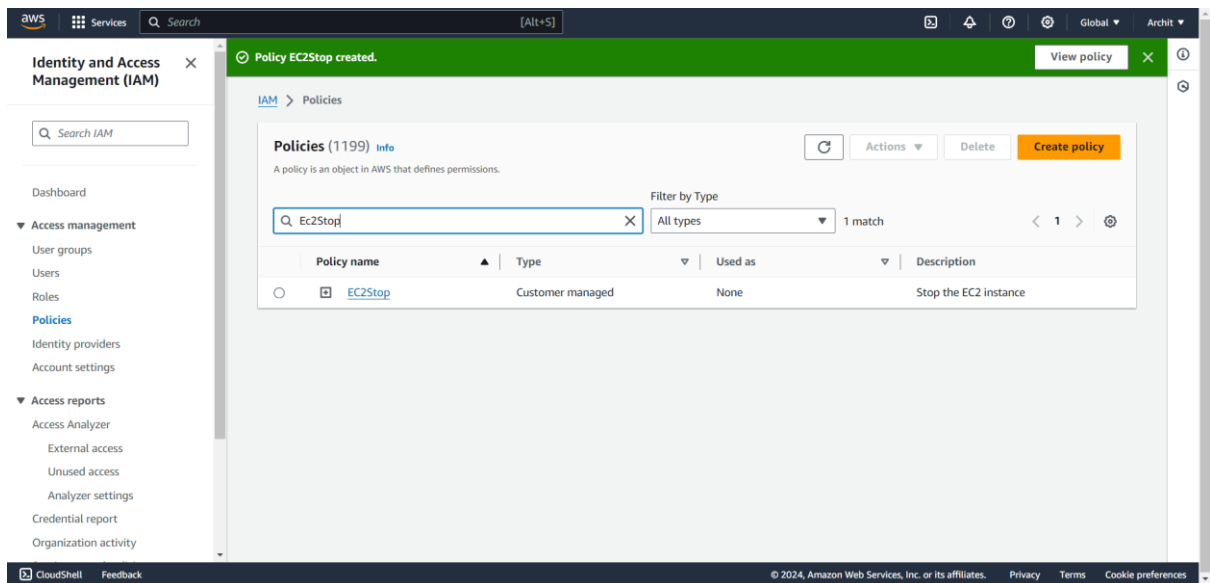
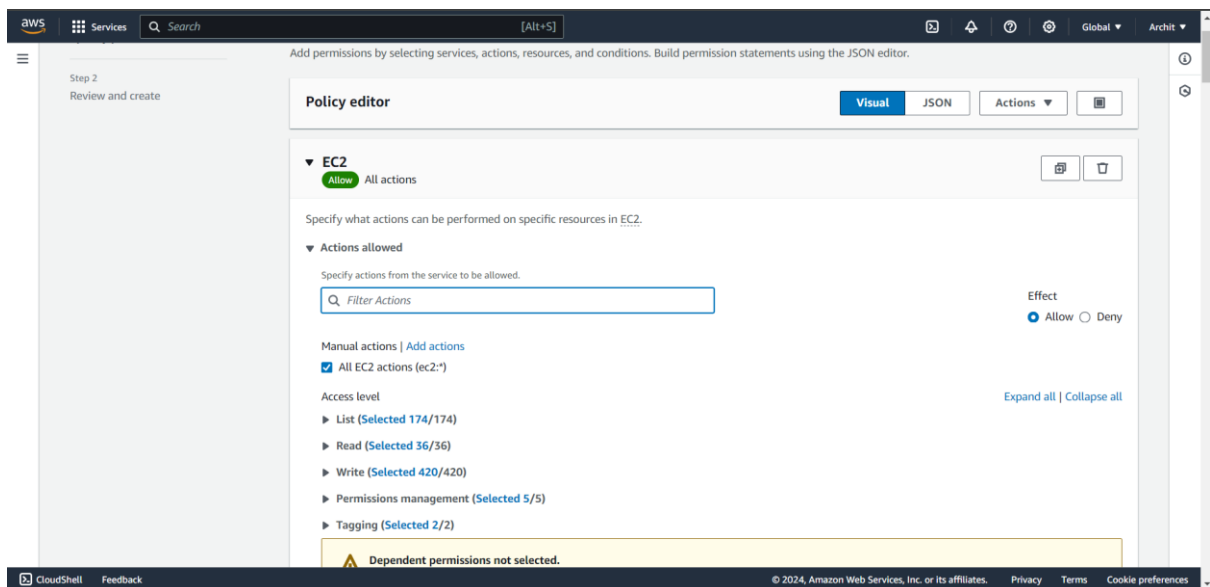
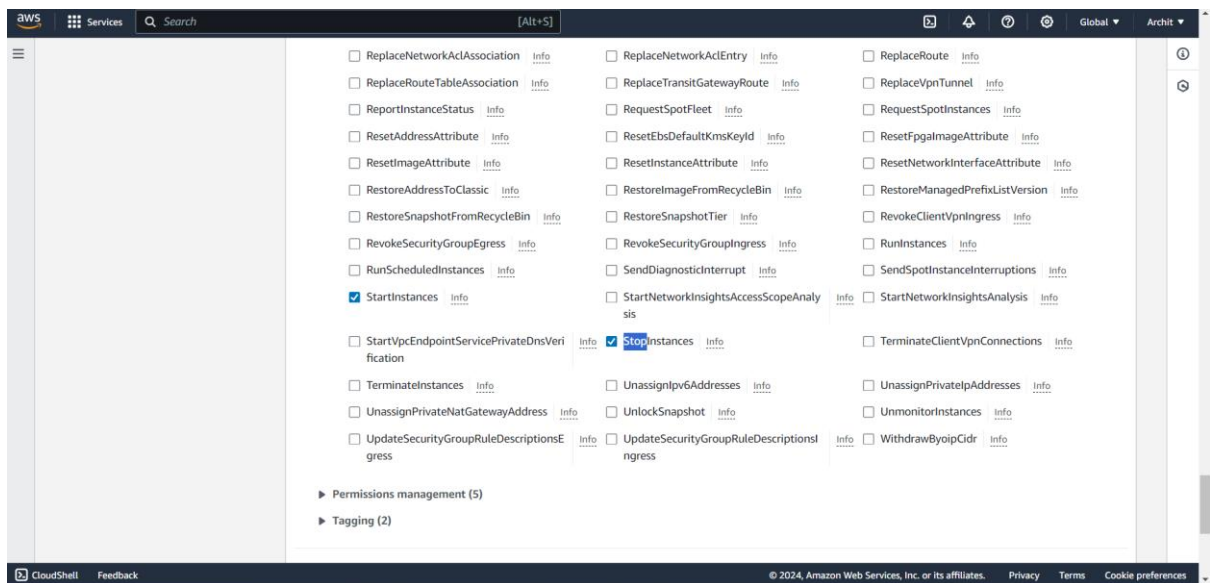
Step 1- Create & Launch an EC2 Instance



Step 2 -Go to IAM roles & Create the policies



Step 3- Select ec2 @all ec2 actions



Step 4- Create Role & Attach the Policy to it

This screenshot shows the 'Select trusted entity' step in the AWS IAM console. The left sidebar indicates the current step is Step 1. The main content area is titled 'Select trusted entity' and contains two sections: 'Trusted entity type' and 'Use case'. In the 'Trusted entity type' section, 'AWS service' is selected, with options for 'AWS account', 'Web identity', 'SAML 2.0 federation', and 'Custom trust policy'. The 'Use case' section has a dropdown menu set to 'Lambda'.

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.

Service or use case
Lambda

Choose a use case for the specified service.
Use case
☒ Lambda

This screenshot shows the 'Add permissions' step in the AWS IAM console. The left sidebar indicates the current step is Step 2. The main content area is titled 'Add permissions' and contains a search bar for 'Permissions policies (1/929)'. A search for 'Ec2stop' has been performed, showing one result: 'EC2Stop' (Customer managed) with the description 'Stop the EC2 instance'. The 'Policy name' checkbox is checked. Below the search results, there is a section for 'Set permissions boundary - optional'.

Permissions policies (1/929)

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

Filter by Type
All types 1 match

Search: Ec2stop

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Policy name	Type	Description
<input checked="" type="checkbox"/>	EC2Stop	Customer managed	Stop the EC2 instance

► Set permissions boundary - optional

Cancel Previous Next

This screenshot shows the 'Name, review, and create' step in the AWS IAM console. The left sidebar indicates the current step is Step 3. The main content area is titled 'Name, review, and create' and contains two sections: 'Role details' and 'Step 1: Select trusted entities'. In the 'Role details' section, the 'Role name' is 'Ec2stoprole' and the 'Description' is 'Allows Lambda functions to call AWS services on your behalf.' In the 'Step 1: Select trusted entities' section, there is a 'Trust policy' section with a JSON snippet.

Role details

Role name
Enter a meaningful name to identify this role.
Ec2stoprole
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 letters [A-Z and a-z], numbers [0-9], tabs, new lines, or any of the following characters: _+=, @-/\[\]\#%&*<~>`

Step 1: Select trusted entities

Trust policy

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Effect": "Allow",
```

Step 5- go to lambda

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.

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.

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

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 Ec2stoprole role](#) on the IAM console.

► Advanced settings

Step 5- write code (change region & instance id in code)

```
import boto3

region = 'us-east-1c'

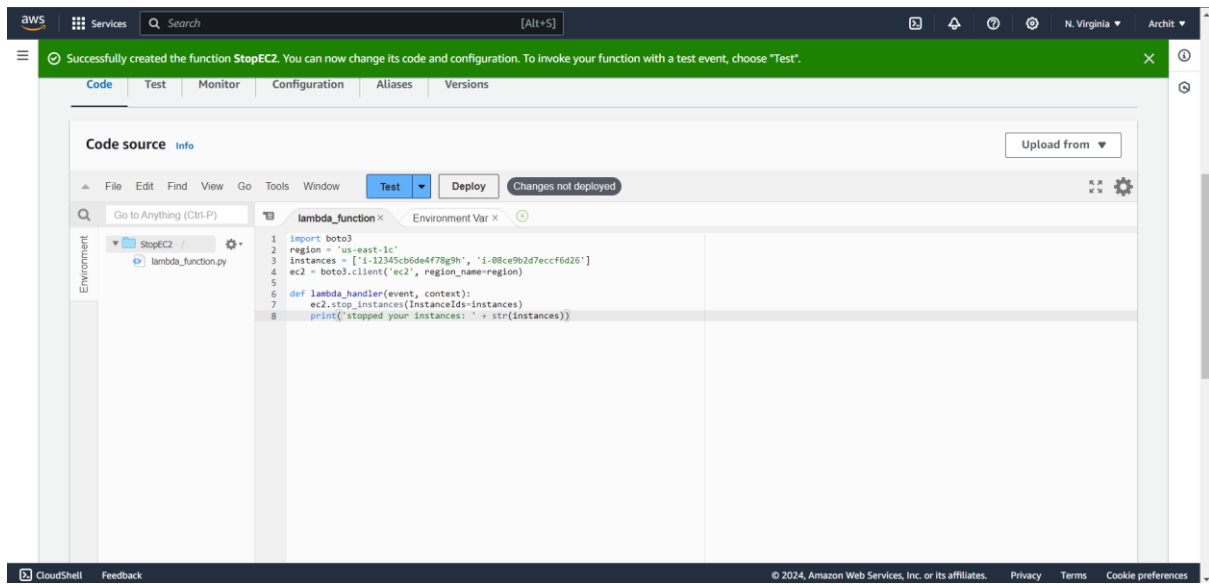
instances = ['i-12345cb6de4f78g9h', 'i-08ce9b2d7eccf6d26']

ec2 = boto3.client('ec2', region_name=region)

def lambda_handler(event, context):

    ec2.stop_instances(InstanceIds=instances)

    print('stopped your instances: ' + str(instances))
```



Step 8- Deploy & Create test event

