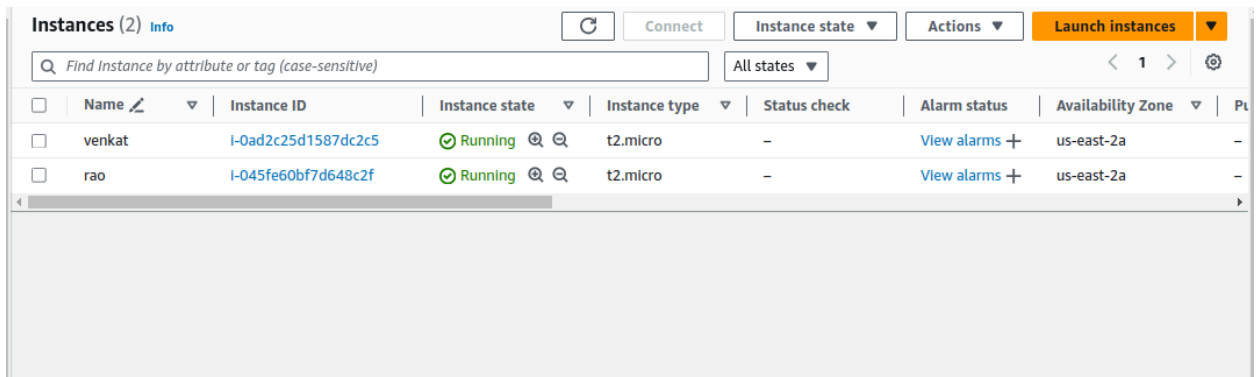


## AWS LAMBDA

- 1) Go to ec2 and launch 2 servers

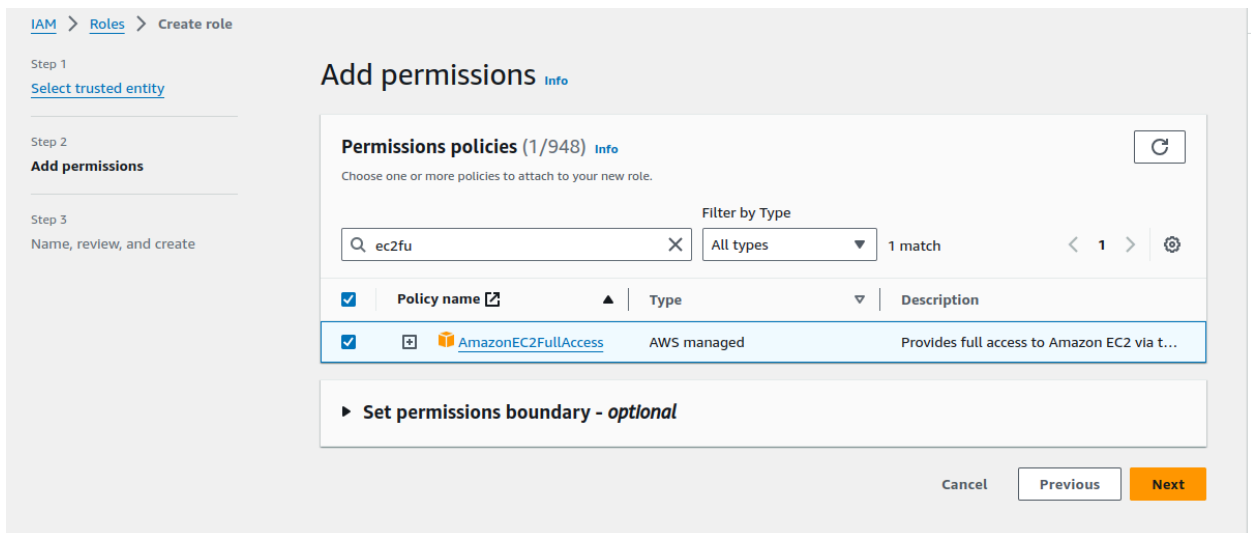


**Instances (2)** Info

Find Instance by attribute or tag (case-sensitive) All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Platform
<input type="checkbox"/>	venkat	i-0ad2c25d1587dc2c5	Running	t2.micro	-	<a href="#">View alarms +</a>	us-east-2a	-
<input type="checkbox"/>	rao	i-045fe60bf7d648c2f	Running	t2.micro	-	<a href="#">View alarms +</a>	us-east-2a	-

- 2) Name = venkat and rao
- 3) Go to iam and go to roles create role
- 4) Trusted entity type = aws service
- 5) Use case = lambda and click next
- 6) Add permissions = give ec2 full acces and click next



**IAM** > **Roles** > **Create role**

Step 1  
[Select trusted entity](#)

Step 2  
**Add permissions**

Step 3  
Name, review, and create

### Add permissions Info

**Permissions policies (1/948)** Info

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

Filter by Type

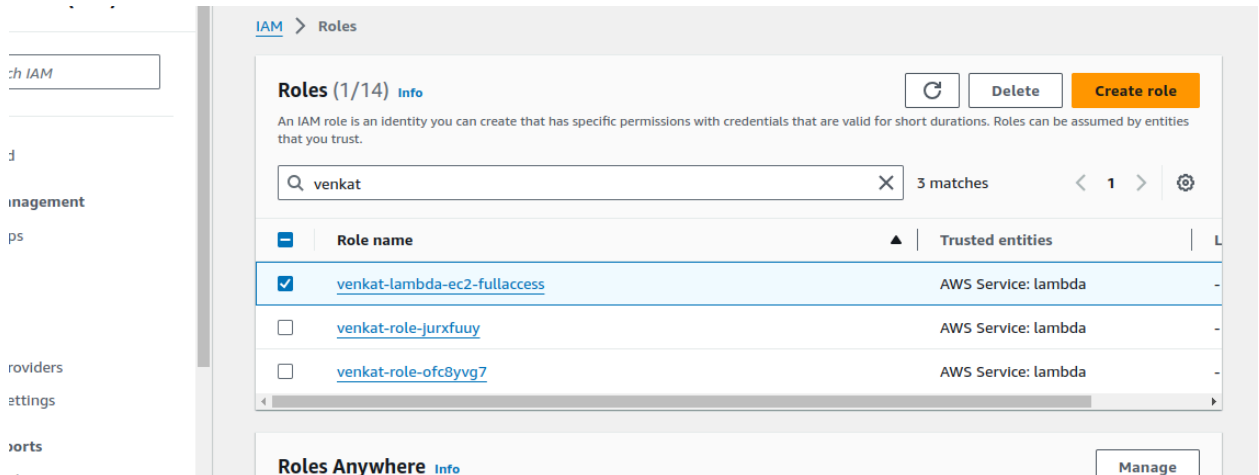
ec2fu 1 match

<input checked="" type="checkbox"/>	Policy name	Type	Description
<input checked="" type="checkbox"/>	AmazonEC2FullAccess	AWS managed	Provides full access to Amazon EC2 via t...

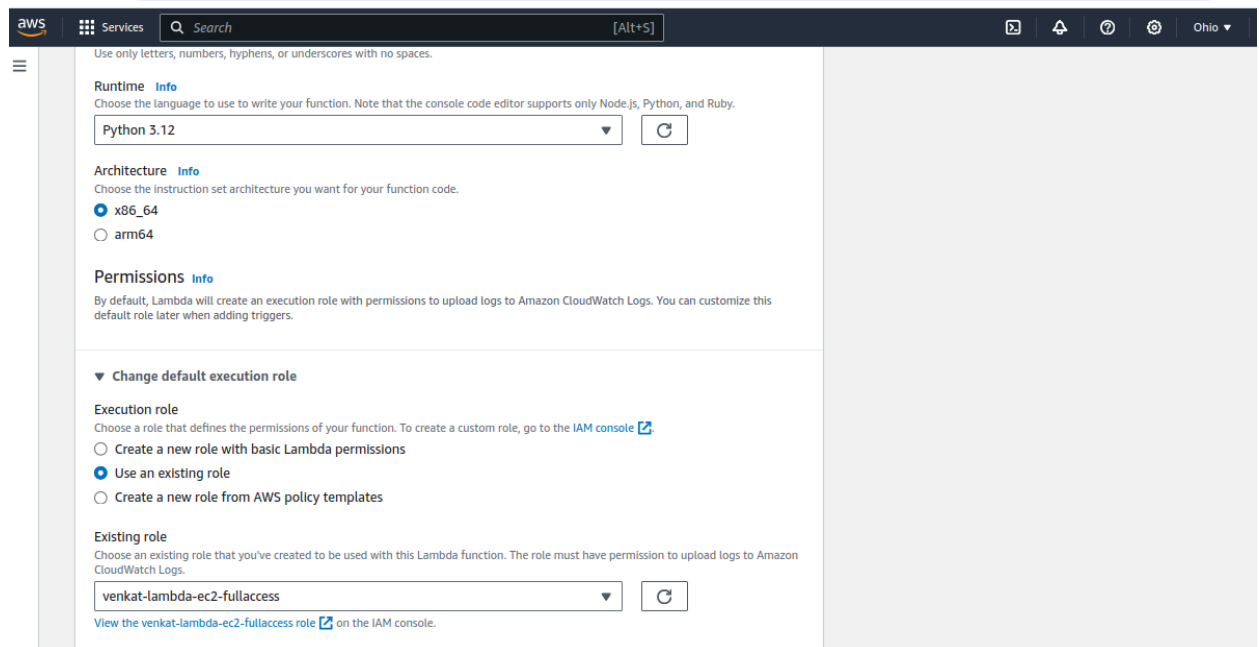
► Set permissions boundary - optional

Cancel Previous Next

- 7) Role name= venkat-lambda-ec2-fullaccess
- 8) Click crete role



- 9) Go lambda click create function
- 10) Select author from scratch
- 11) Function name= venkat
- 12) runtime= python
- 13) Click default execution role select = use an existing role select =venkat-lambda-ec2-fullaccess



- 14) Click create function
- 15) Go to google search = ec2 start and stop using aws lambda  
(<https://repost.aws/knowledge-center/start-stop-lambda-eventbridge>)

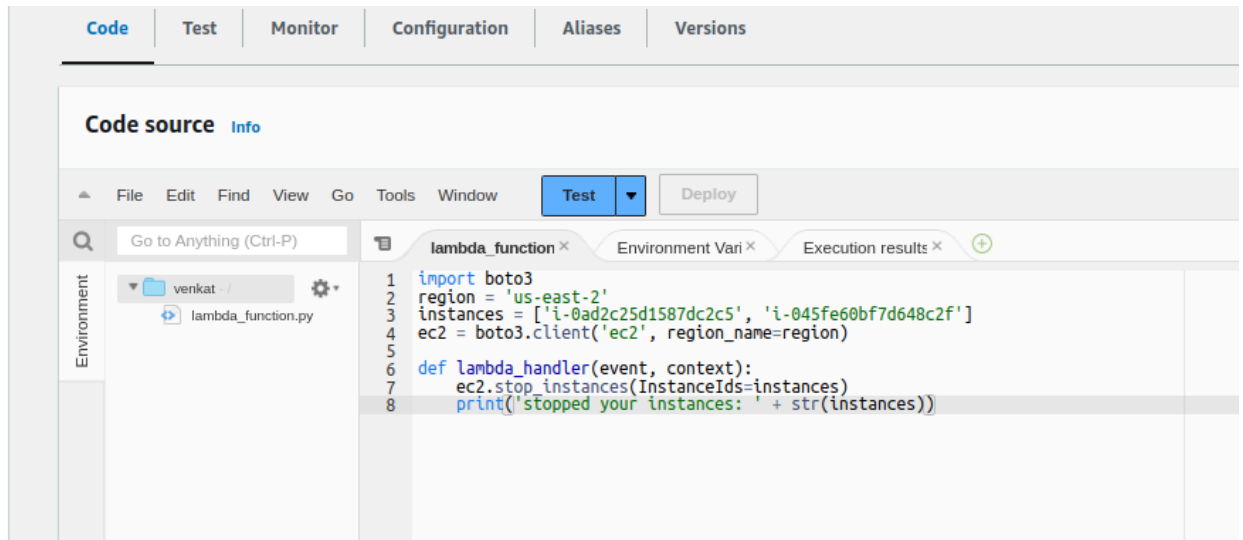
```
import boto3
region = 'us-west-1'
instances = ['i-12345cb6de4f78g9h', 'i-08ce9b2d7eccf6d26']
ec2 = boto3.client('ec2', region_name=region)

def lambda_handler(event, context):
```

```
ec2.stop_instances(InstanceIds=instances)
print('stopped your instances: ' + str(instances))
```

(⇒above script

16) Above script change ec2 instance ids and region after click deploy

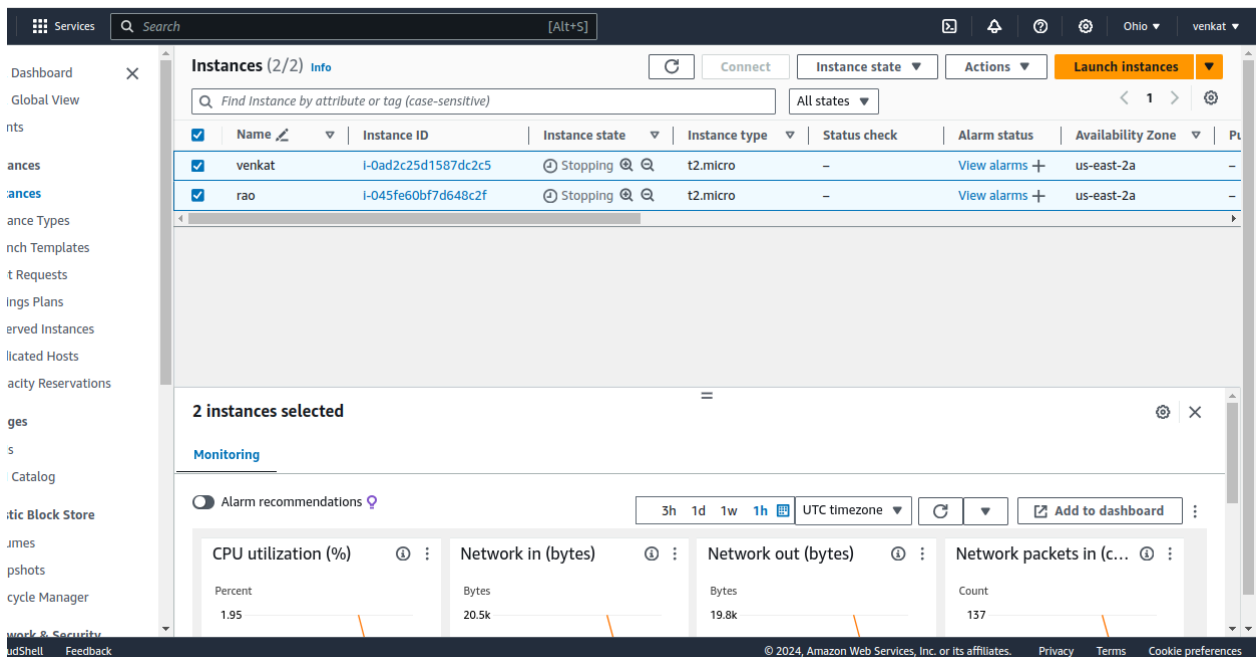


17) Now click test

18) Test event action= create new event

19) Event name= test1 click save

20) Click test the instance stopping go to ec2 check



21) Above script just change stop place use start and again deploy and test check ec2

instance

```
import boto3
```

```
region = 'us-east-2'
```

```
instances = ['i-0ad2c25d1587dc2c5', 'i-045fe60bf7d648c2f']
ec2 = boto3.client('ec2', region_name=region)
```

```
def lambda_handler(event, context):
    ec2.start_instances(InstanceIds=instances)
    print('started your instances: ' + str(instances))
```

22) Click deploy and click test

23) Go to ec2 instance check started or not

The screenshot shows the AWS Management Console 'Instances' page. It displays a table with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. Two instances are listed: 'venkat' (ID: i-0ad2c25d1587dc2c5) and 'rao' (ID: i-045fe60bf7d648c2f), both in a 'Running' state with 't2.micro' instance type. The status check shows 'Initializing'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
venkat	i-0ad2c25d1587dc2c5	Running	t2.micro	Initializing	View alarms +	us-east-2a
rao	i-045fe60bf7d648c2f	Running	t2.micro	Initializing	View alarms +	us-east-2a

24) Now go to amazon event bridge

25) Go to schedule and click create schedule

26) occurrence= recurring schedule

27) Schedule type= cron-based schedule

The screenshot shows the 'Specify schedule detail' page in the Amazon EventBridge console. It includes a sidebar with steps: Step 1 (Specify schedule detail), Step 2 (Select target), Step 3 (Settings), and Step 4 (Review and create schedule). The main form has two sections: 'Schedule name and description' and 'Schedule pattern'. In the first section, the 'Schedule name' is 'start-stop-venkat-servers' and the 'Description' is optional. In the second section, the 'Occurrence' is set to 'Recurring schedule'.

**Schedule name and description**

Schedule name: start-stop-venkat-servers  
Use only letters, numbers, dashes, dots or underscores. Max 64 characters.

Description - optional: Enter description  
Maximum of 512 characters.

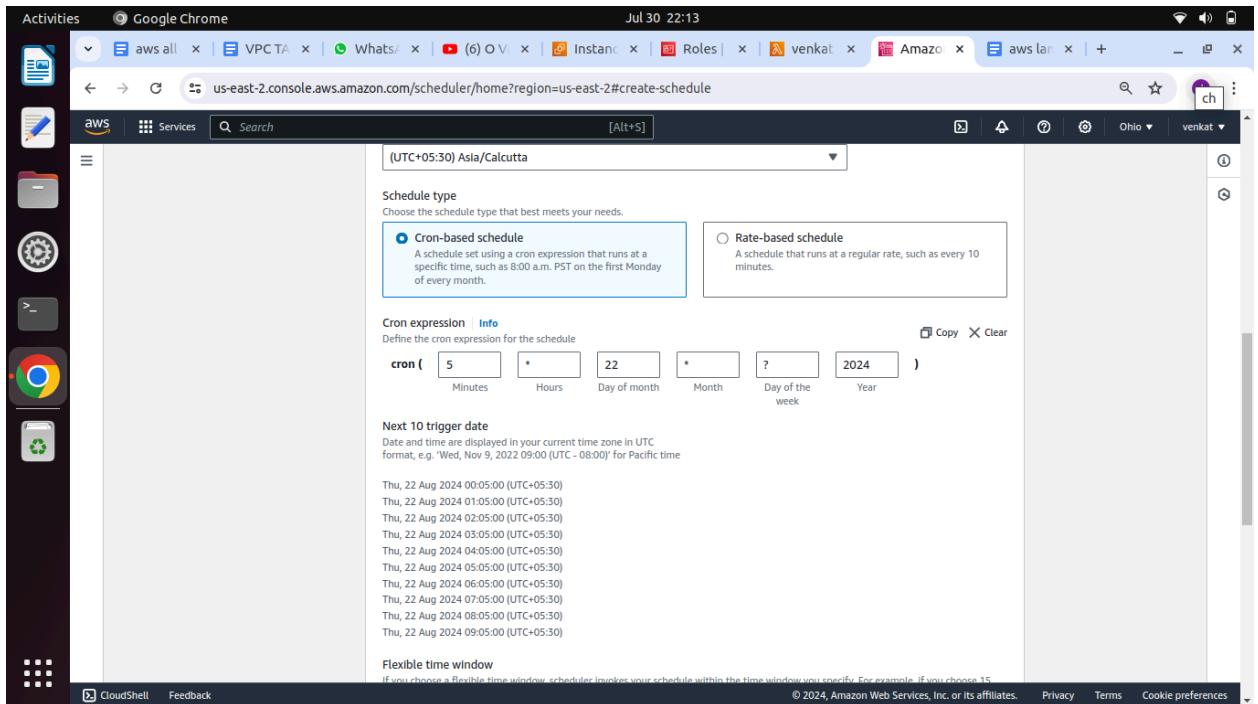
Schedule group: default  
Each schedule needs to be placed in a schedule group. By default, a schedule is placed in the 'Default' group. You can also [create your own schedule group](#). You can only add tags to a schedule group, not a schedule.

**Schedule pattern**

Occurrence: Info  
You can define a one-off or recurrent schedule.

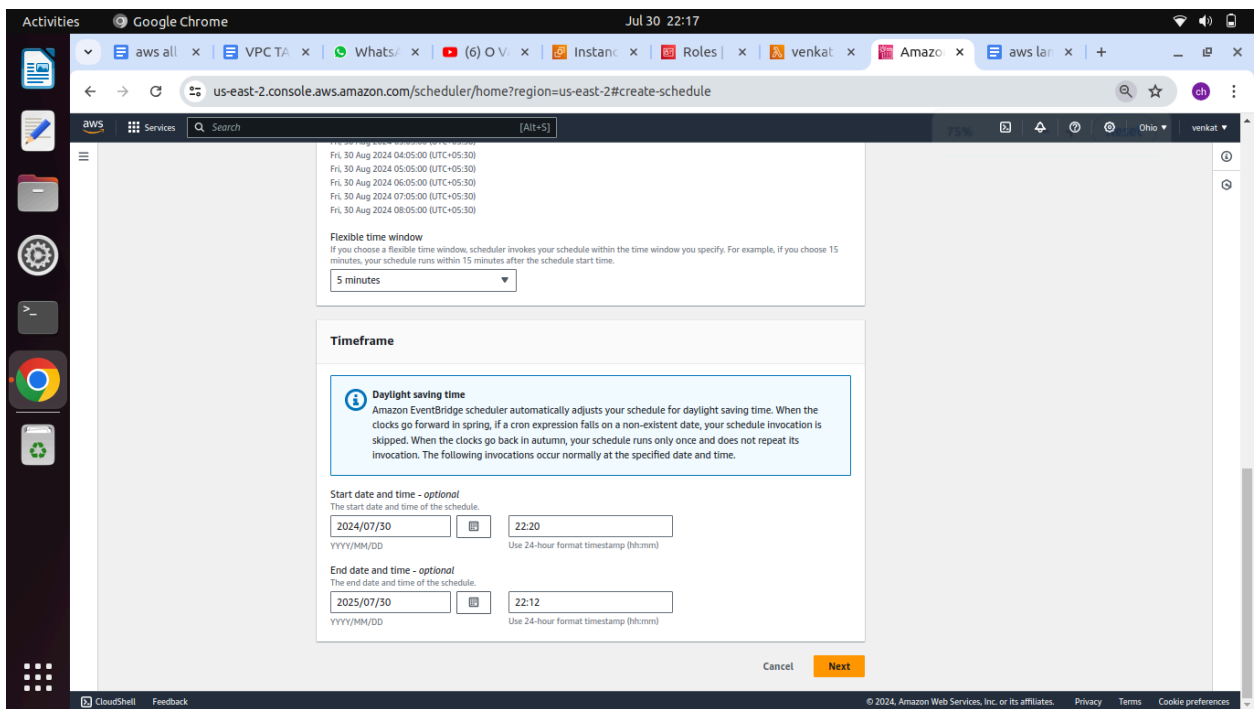
☐ One-off schedule ☒ Recurring schedule

Time zone: The time zone for the schedule.



28) cron= 5 \* 30 \* ? 2024

29) Flexible time window = 5 min use or set off



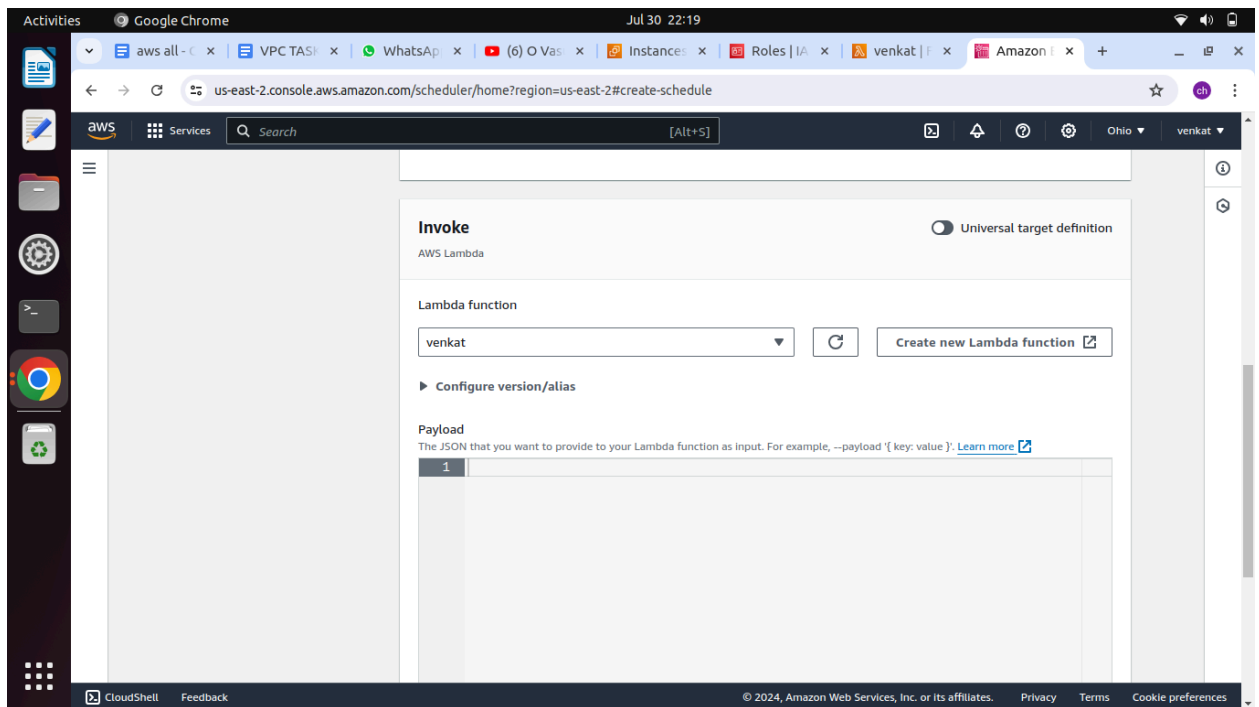
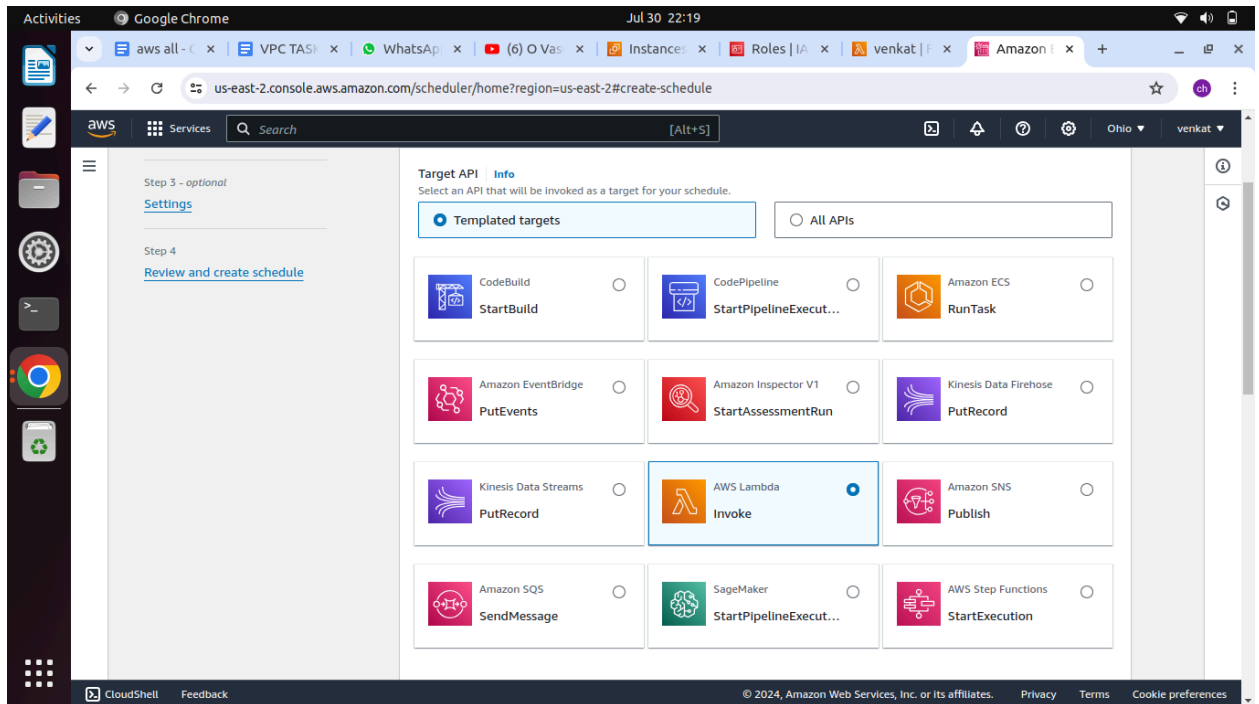
30) Star

31) Sto

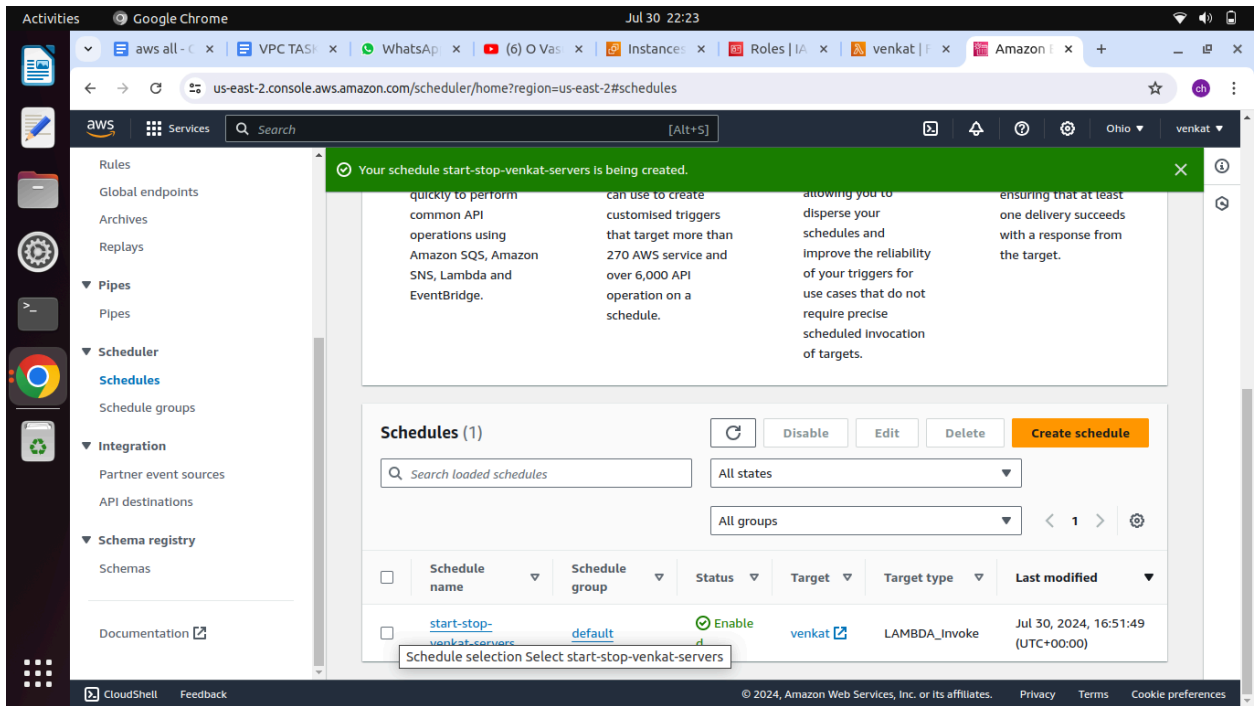
32) Click next

33) Target api= templated targets

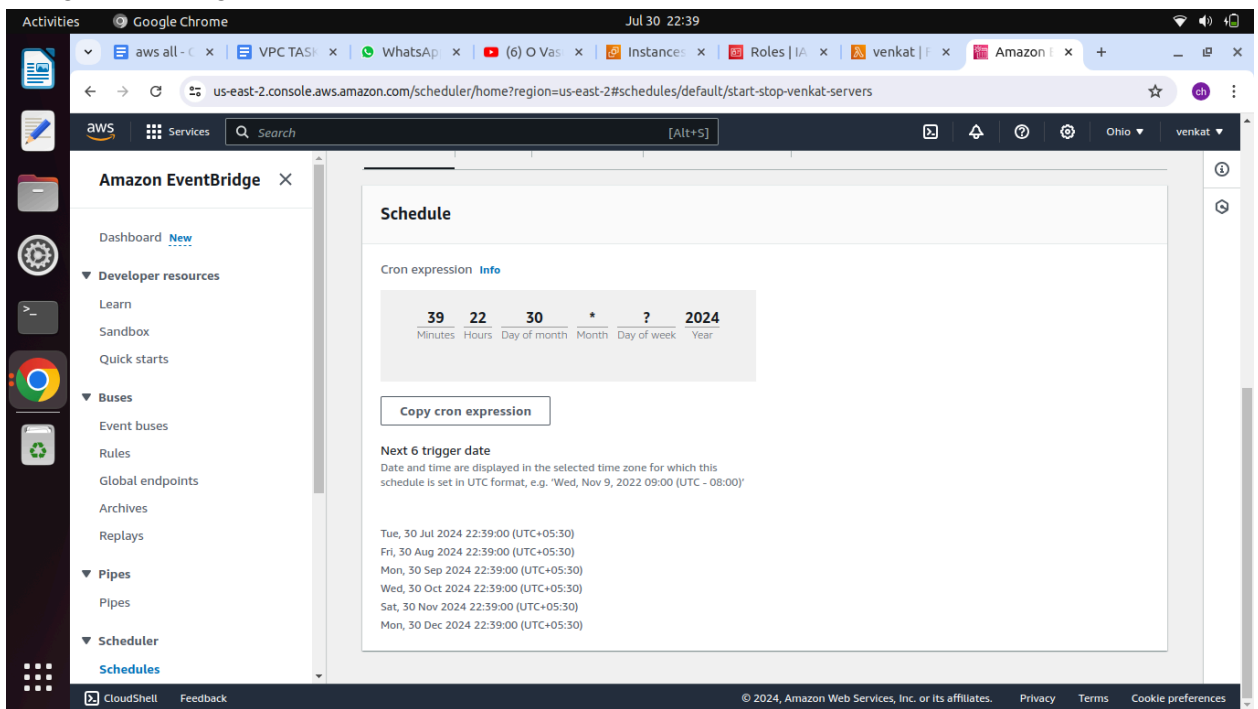
34) Select aws lambda invoke



- 35) Lambda function= venkat
- 36) Click next
- 37) Next and click crete policy



### 38) Using event bridge server stop



Activities Google Chrome Jul 30 22:40

aws all - x VPC TAS x WhatsApp x (6) O Vas x Instances x Roles | IA x venkat | i x Amazon i x +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#instances:

Bookmark this tab Ohio venkat

aws Services Search [Alt+S]

EC2 Dashboard x

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

CloudShell Feedback

Instances (2/2) Info

Find Instance by attribute or tag (case-sensitive) All states

Connect Instance state Actions Launch instances

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input checked="" type="checkbox"/>	venkat	i-0ad2c25d1587dc2c5	Stopping	t2.micro	-	View alarms +	us-east-2
<input checked="" type="checkbox"/>	rao	i-045fe60bf7d648c2f	Stopping	t2.micro	-	View alarms +	us-east-2

2 instances selected

Monitoring

Alarm recommendations

3h 1d 1w 1h UTC timezone Add to dashboard

CPU utilization (%) Network in (bytes) Network out (bytes) Network packets in (bytes)

Percent Bytes Bytes Count

1.95 20.5k 19.8k 137

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39) Same create another event start using same above steps

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