

Cloud Computing – Lab 6

Anudit Nagar - E18CSE024

Create one Windows/Linux instance.

The screenshot shows the AWS Management Console with the 'Instances' page selected. The left sidebar contains navigation options like 'EC2 Dashboard', 'Events', 'Tags', 'Limits', and 'Instances'. The main content area displays a table of instances. One instance, 'lab6', is listed with ID 'i-02a5c8f21dcb88958', state 'Running', and type 't2.micro'. The status check shows 'Initializing'.

Name	Instance ID	Instance state	Instance type	Status check
lab6	i-02a5c8f21dcb88958	Running	t2.micro	Initializing

Create IAM Role

The screenshot shows the AWS IAM Management Console with the 'Summary' page for the 'lab6-lambda' role. The left sidebar contains navigation options like 'Dashboard', 'Access management', 'Groups', 'Users', 'Roles', 'Policies', 'Identity providers', 'Account settings', 'Access reports', 'Access analyzer', 'Archive rules', 'Analyzers', 'Settings', 'Credential report', 'Organization activity', and 'Service control policies (SCPs)'. The main content area displays the role's details, including its ARN, description, creation time, and last activity. The 'Permissions' tab is selected, showing that three policies are applied: 'AmazonEC2FullAccess' and 'AWSLambdaFullAccess'.

Property	Value
Role ARN	arn:aws:iam::501151665505:role/lab6-lambda
Role description	Allows Lambda functions to call AWS services on your behalf. Edit
Instance Profile ARNs	/
Path	/
Creation time	2021-02-18 14:23 UTC+0530
Last activity	Not accessed in the tracking period
Maximum session duration	1 hour Edit

Permissions

Permissions policies (3 policies applied)

- AmazonEC2FullAccess
- AWSLambdaFullAccess

Permissions boundary (not set)

Create and test a new lambda function.

The screenshot shows the AWS Lambda console interface. At the top, a green notification bar states: "Successfully created the function **lab6**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

The main heading is "lab6", with a "Throttle" button to its right. Below this is a section for "Function code" with an "Info" link. A toolbar contains "File", "Edit", "Find", "View", "Go", "Tools", "Window", "Test", "Deploy", and a green "Changes deployed" button.

The code editor displays the following Python code in a file named "lambda_function.py":

```
1 import boto3
2 region = 'us-east-1'
3 instances = ['i-02a5c8f21dcb88958']
4 ec2 = boto3.client('ec2', region_name=region)
5 def lambda_handler(event, context):
6     ec2.stop_instances(InstanceIds=instances)
7     print('stopped your instances: ' + str(instances))
```

The left sidebar shows the "Environment" section with a file explorer view containing a folder "lab6" and a file "lambda_function.py".

Create Trigger

Assignment

Instances | EC2 Management Console

Lambda

Lab Assignment 6.pdf


console.aws.amazon.com/lambda/home?region=us-east-1#/add/relation?fo

Search for services, features, marketplace products, and docs

Lambda > Add trigger

Add trigger

Trigger configuration

 EventBridge (CloudWatch Events)
aws events management-tools

Rule
Pick an existing rule, or create a new one.
voc-ec2-cw-rule

Rule description
ec2 state change events

Event pattern

```
"EC2 Instance State-change Notification"  
],  
"detail": {  
  "state": [  
    "running",  
    "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

Trigger the function and terminate the ec2 instance.

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and the text "Instances (1) Info". The left sidebar contains a menu with "EC2 Dashboard", "Events", "Tags", "Limits", and "Instances". The "Instances" section is expanded, showing "Instances" and "Instance Types". The main content area displays a table of instances. The table has columns for "Name", "Instance ID", "Instance state", "Instance type", and "Status check". One instance is listed: "lab6" with ID "i-02a5c8f21dcb88958", state "Terminated", and type "t2.micro".

Name	Instance ID	Instance state	Instance type	Status check
lab6	i-02a5c8f21dcb88958	Terminated	t2.micro	-