Lab 27:

Demo on lambda fn to create EC2 Instance:

Lambda as a usecase and ec-2 full access as the permission policy.

Graphical user interface, text, application

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A screenshot of a computer

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Graphical user interface, text, application, email

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Lambda:

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Now, use the python code :

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import os

import boto3

AMI = os.environ['AMI']

INSTANCE\_TYPE = os.environ['INSTANCE\_TYPE']

KEY\_NAME = os.environ['KEY\_NAME']

SUBNET\_ID = os.environ['SUBNET\_ID']

REGION = os.environ['REGION']

ec2 = boto3.client('ec2', region\_name=REGION)

def lambda\_handler(event, context):

message = event['message']

init\_script = """#!/bin/bash

yum update -y

yum install -y httpd24

service httpd start

chkconfig httpd on

echo """ + message + """ > /var/www/html/index.html

shutdown -h +5"""

instance = ec2.run\_instances(

ImageId=AMI,

InstanceType=INSTANCE\_TYPE,

KeyName=KEY\_NAME,

SubnetId=SUBNET\_ID,

MaxCount=1,

MinCount=1,

InstanceInitiatedShutdownBehavior='terminate',

UserData=init\_script

)

instance\_id = instance['Instances'][0]['InstanceId']

print(instance\_id)

return(instance\_id)

Then create keypair:

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Create an event:  
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Go to congigurations tab and click on environmental variables:

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Add environmental variables:

AMI Image :

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Copy the highlighted part .

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Note :Copy default subnet id in your region

Click on test and BOOM! :

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Edit the inbound rules:

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Note:

Ec2 instance will be deleted after some time as it is set in the code accordingly.