

## Question2:

Create a vpc with cidr 10.0.0.0/16 with private subnet and a machine in it with apache installed

without ssh ,also we need to serve an application from S3 bucket .

### Permissions policies (Selected 1/808) [Info](#)

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

9 matches < 1 > [Settings](#)

"s3" X

Clear filters

	Policy name <a href="#">↗</a>	Type	Description
<input type="checkbox"/>	AmazonDMSRedsh...	AWS m...	Provides access to manage S3 settings for Redshift endpoints for DMS.
<input checked="" type="checkbox"/>	AmazonS3FullAccess	AWS m...	Provides full access to all buckets via the AWS Management Console.
<input type="checkbox"/>	QuickSightAccessF...	AWS m...	Policy used by QuickSight team to access customer data produced by S3 ...

### Modify IAM role [Info](#)

Attach an IAM role to your instance.

Instance ID

I-0386232cf1b4ecf36 (my-web)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

s3-full-access ▼

[Create new IAM role](#)

Cancel

Update IAM role

```
[ 102.819432] cloud-init[1193]: All packages are up to date.
[ 102.869602] cloud-init[1193]: W: Failed to fetch http://us-east-1.ec2.archive.ubuntu.com/ubuntu/dists/jammy/InRelease Could not connect to mirror.
[ 102.931869] cloud-init[1193]: W: Failed to fetch http://us-east-1.ec2.archive.ubuntu.com/ubuntu/dists/jammy-updates/InRelease Unable to find required GPG key [3F56E283]
[ 102.948870] cloud-init[1193]: W: Failed to fetch http://us-east-1.ec2.archive.ubuntu.com/ubuntu/dists/jammy-backports/InRelease Unable to find required GPG key [3F56E283]
[ 102.972235] cloud-init[1193]: W: Failed to fetch http://security.ubuntu.com/ubuntu/dists/jammy-security/InRelease Cannot initiate the connection (104.19.1.10:80) - [Errno 111] Connection refused
[ 103.048283] cloud-init[1193]: W: Some index files failed to download. They have been ignored, or old ones used instead.
[ 103.060537] cloud-init[1193]: WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
[ 103.095870] cloud-init[1193]: Reading package lists...
[ 103.121365] cloud-init[1193]: Building dependency tree...
[ 103.128167] cloud-init[1193]: Reading state information...
[ 103.151474] cloud-init[1193]: The following additional packages will be installed:
[ 103.164261] cloud-init[1193]: apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
[ 103.184235] cloud-init[1193]: libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
[ 103.190887] cloud-init[1193]: ssl-cert
[ 103.195562] cloud-init[1193]: Suggested packages:
[ 103.202956] cloud-init[1193]: apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
[ 103.220174] cloud-init[1193]: bzip2-doc
[ 103.233552] cloud-init[1193]: The following NEW packages will be installed:
[ 103.243008] cloud-init[1193]: apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
[ 103.260261] cloud-init[1193]: libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
```

my web server I-03c97cf109b03b07f Running t2.micro - No alarms + us-east-1f

Instance: i-03c97cf109b03b07f (my web server)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary Info

Instance ID I-03c97cf109b03b07f (my web server)	Public IPv4 address -	Private IPv4 addresses 10.0.1.6
IPv6 address -	Instance state Pending	Public IPv4 DNS -

**Buckets (1)** Info

Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

Name	AWS Region	Access	Creation date
sprints-lab4and5	US East (N. Virginia) us-east-1	Bucket and objects not public	January 26, 2023, 09:25:49 (UTC+02:00)

Question3:

Create a lambda function to copy a text file to an s3 called targetBucket-yourname (search for the code)

Needed a video while triggering the lambda before

target-bucket-mansour Info

Objects Properties Permissions Metrics Management Access Points

**Objects (1)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI Copy URL Download Open Delete Actions

Create folder Upload

Find objects by prefix

Name	Type	Last modified	Size	Storage class
2023-01-16.csv	csv	January 26, 2023, 21:19:34 (UTC+02:00)	70.0 B	Standard

After

### Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

↻

Copy S3 URI

Copy URL

Download

Open

Delete

Actions ▼

Create folder

Upload

< 1 > ⚙

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	2023-01-16.csv	csv	January 26, 2023, 21:19:34 (UTC+02:00)	70.0 B	Standard
<input type="checkbox"/>	testfile	-	January 26, 2023, 23:45:38 (UTC+02:00)	0 B	Standard

lab4Q3 - /

lambda\_function.py

testfile

Execution results

Status: Succeeded Max memory used: 73 MB Time: 249.47 ms

Test Event Name

myevent

Response

null

Function Logs

START RequestId: ca6f7c0e-6e9b-443d-b95d-83dc3d1a8386 Version: \$LATEST  
 file / files uploaded successfully -\_-  
 END RequestId: ca6f7c0e-6e9b-443d-b95d-83dc3d1a8386  
 REPORT RequestId: ca6f7c0e-6e9b-443d-b95d-83dc3d1a8386 Duration: 249.47 ms Billed Duration: 250 ms Memory Size: 128 MB Max Memory U

Request ID

ca6f7c0e-6e9b-443d-b95d-83dc3d1a8386

File Edit Find View Go Tools Window Test Deploy

lab4Q3 - /

lambda\_function.py

testfile

lambda\_function ×

Execution results ×

```

1 import json
2 import boto3
3
4 s3 = boto3.resource('s3')
5
6 def lambda_handler(event, context):
7     bucket_name = 'target-bucket-mansour'
8     file_name = 'testfile'
9     s3.Bucket(bucket_name).put_object(Key=file_name)
10    print('file / files uploaded successfully -_-')
```

#### Question4:

Create a lambda function to be triggered when you upload a file to s3 called sourcebucket-yourname , the lambda will copy the uploaded file to an s3 with name target-bucket-yourname

```

graph TD
    subgraph Lab4Q4 [lab4Q4]
        Layers[Layers (0)]
    end
    S3[S3] -- "+ Add trigger" --> Lab4Q4
    Lab4Q4 -- "+ Add destination" --> S3
  
```

```

1 import boto3
2 import json
3
4 s3 = boto3.resource('s3')
5
6 def lambda_handler(event, context):
7     bucket = s3.Bucket('sourcebucket-mansour')
8     dest_bucket=s3.Bucket('target-bucket-mansour')
9
10    print(dest_bucket)
11    print(bucket)
12
13    for obj in bucket.objects.filter(Prefix='',Delimiter=''):
14        dest_key=obj.key
15        print(dest_key)
16        print('copy file ' + dest_key)
17        s3.Object(dest_bucket.name, dest_key).copy_from(CopySource= {'Bucket': obj.bucket_name, 'Key': obj.key})

```

## target-bucket-mansour [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

### Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	2023-01-16.csv	csv	January 26, 2023, 21:19:34 (UTC+02:00)	70.0 B	Standard

## sourcebucket-mansour [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

### Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	2023-01-16.csv	csv	January 26, 2023, 21:19:31 (UTC+02:00)	70.0 B	Standard

Sorry i couldn't record a video my laptop is an old model (pentium intel) i tried multiple times but either chrome crashes or the the os kills the record