

1- Create s3 bucket upload files and then expose it publicly.

Amazon S3 > demo-bucket-sprints

demo-bucket-sprints [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](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#)

[Create folder](#) [Upload](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	DevOps BootCamp.pdf	pdf	November 9, 2021, 00:52:59 (UTC+02:00)	10.7 MB	Standard

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

[Edit](#)

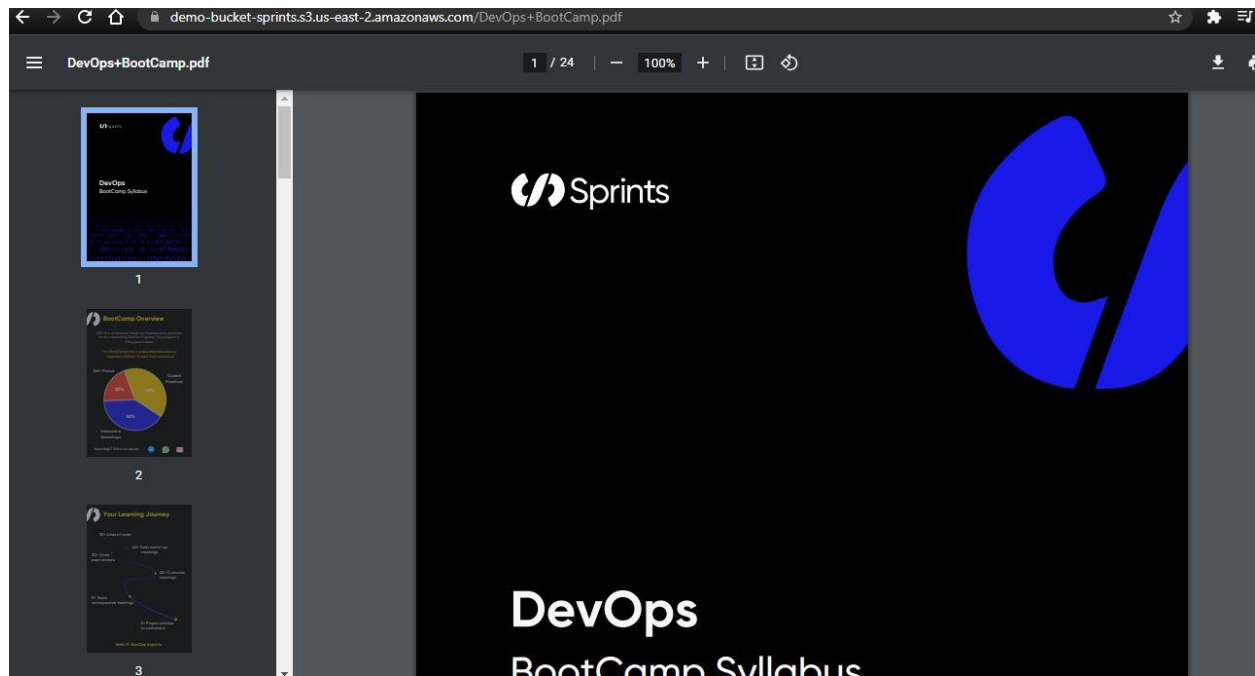
Block all public access
⚠ Off

- Block public access to buckets and objects granted through **new** access control lists (ACLs)
⚠ Off
- Block public access to buckets and objects granted through **any** access control lists (ACLs)
⚠ Off
- Block public access to buckets and objects granted through **new** public bucket or access point policies
⚠ Off
- Block public and cross-account access to buckets and objects through **any** public bucket or access point policies
⚠ Off

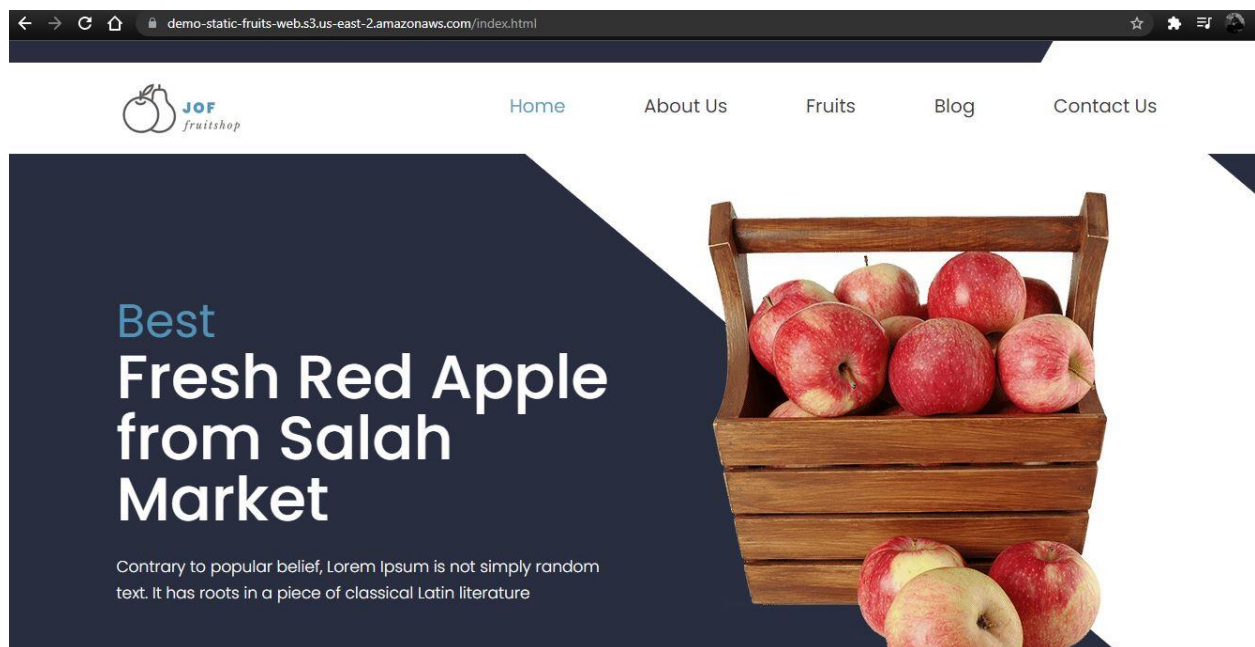
Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

[Edit](#) [Delete](#)



2- Create and configure s3 bucket upload static website and expose it publicly.



aws

Services

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Global

Support

Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

demo-static-fruits-web

Info

Publicly accessible

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (6)

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Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	css/	Folder	-	-	-
<input type="checkbox"/>	error.html	html	November 9, 2021, 01:03:43 (UTC+02:00)	70.0 B	Standard
<input type="checkbox"/>	fonts/	Folder	-	-	-
<input type="checkbox"/>	images/	Folder	-	-	-

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Requester pays

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. [Learn more](#)

Requester pays

Disabled

Edit

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

Enabled

Hosting type

Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://demo-static-fruits-web.s3-website.us-east-2.amazonaws.com>

Edit

Feedback

English (US)

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Cookie preference

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Edit

Delete

```
{
  "Version": "2012-10-17",
  "Id": "Policy1636412886015",
  "Statement": [
    {
      "Sid": "Stmt1636412884169",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::demo-static-fruits-web/*"
    }
  ]
}
```

Copy

3- Create image and snapshot from any running ec2.

The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for various AWS services. The main content area is titled 'EC2 Image Builder' and shows a list of images. A single image, 'backup-image', is listed with its AMI ID, source, owner, visibility, status, and creation date. Below the list, the 'Details' tab is selected, displaying the image's metadata.

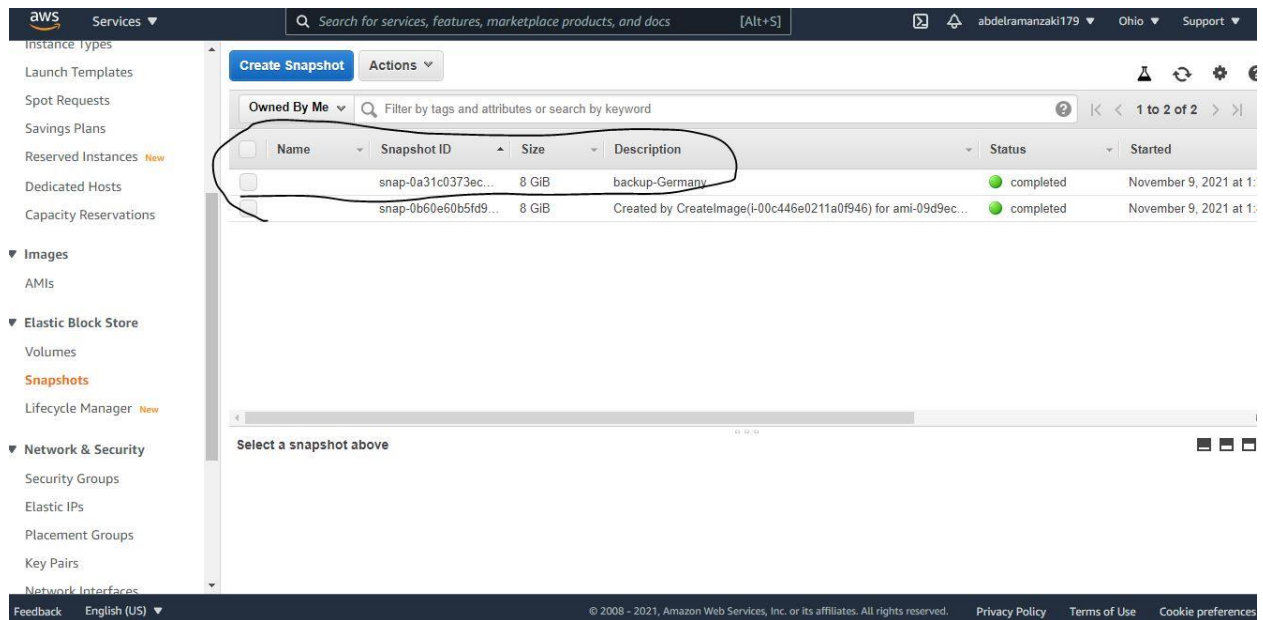
Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date
backup-image	ami-09d9ece7a449613e6	128531844412/...	128531844412	Private	available	November 9, 2021 at 1:41:3...	

Image: ami-09d9ece7a449613e6

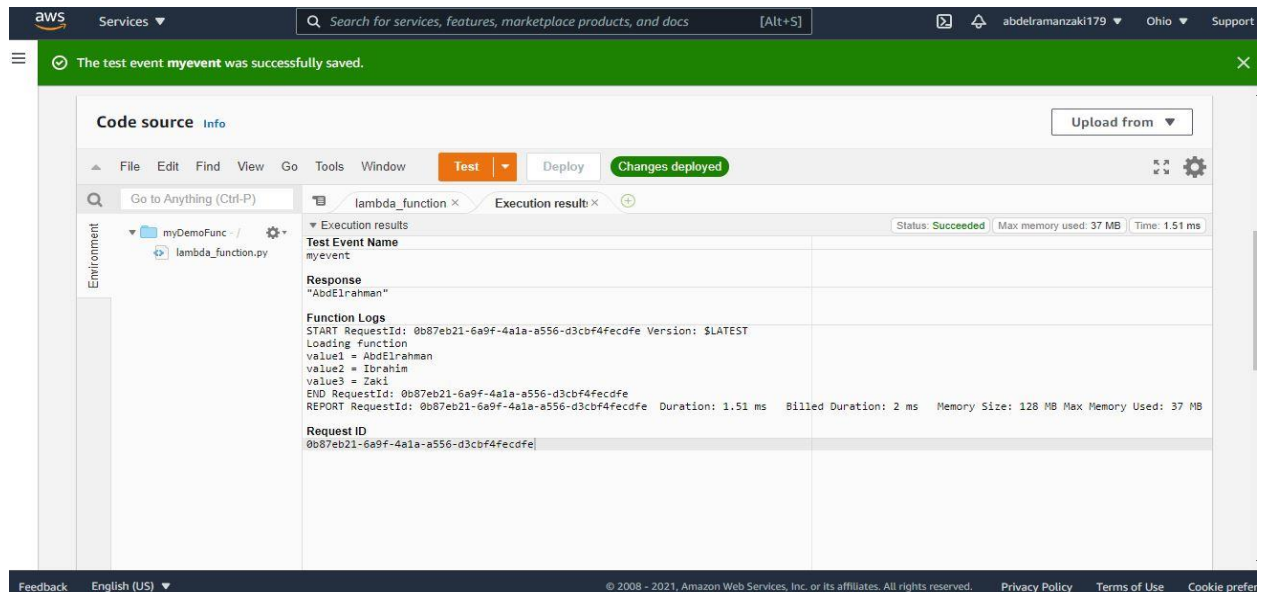
Details | Permissions | Tags

AMI ID: ami-09d9ece7a449613e6
Owner: 128531844412
AMI Name: backup-image
Source: 128531844412/backup-image

Edit



4- Create Lambda Function Hello World Python



The test event myevent was successfully saved.

Code

Test

Monitor

Configuration

Aliases

Versions

Code source

Info

Upload from

File

Edit

Find

View

Go

Tools

Window

Test

Deploy

Changes deployed

Go to Anything (Ctrl-P)

Environment

myDemoFunc

lambda_function.py

lambda_function

Execution results

```
1 import json
2
3 print('Loading function')
4
5
6 def lambda_handler(event, context):
7     #print("Received event: " + json.dumps(event, indent=2))
8     print("value1 = " + event['key1'])
9     print("value2 = " + event['key2'])
10    print("value3 = " + event['key3'])
11    return event['key1'] # Echo back the first key value
12    #raise Exception('Something went wrong')
13
```

Feedback

English (US)

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5- Create cloud-formation template for the below:

- Create VPC
- Create 2 sub (pub, private)
- Create 2 instances (one in pub, one in private)
- Create IGW, RT, NAT GW

