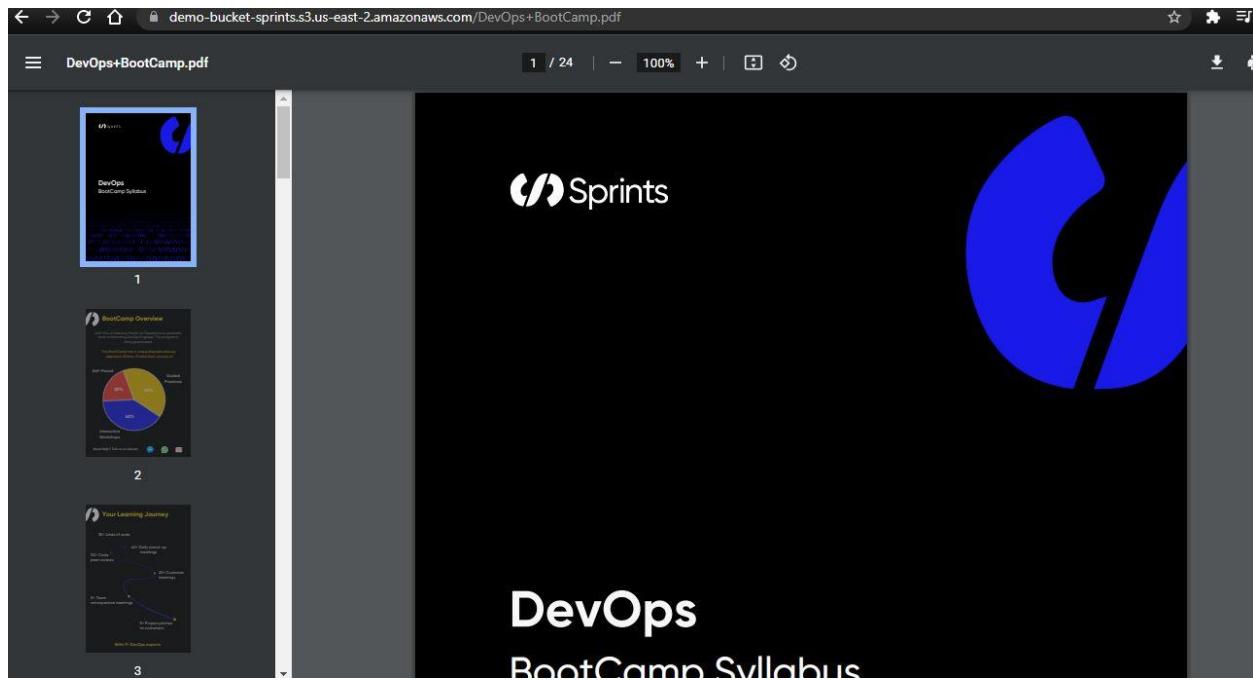


1- Create s3 bucket upload files and then expose it publicly.

The screenshot shows the AWS S3 console interface. On the left, there's a sidebar with 'Buckets' listed under 'Amazon S3'. The main area shows the 'demo-bucket-sprints' bucket. At the top, there are tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Below the tabs, there's a section titled 'Objects (1)'. A single object, 'DevOps BootCamp.pdf', is listed. The object details show it's a PDF file, last modified on November 9, 2021, at 00:52:59 (UTC+02:00), and has a size of 10.7 MB. The storage class is Standard. The entire row for this object is circled in red.

The screenshot shows the 'Block public access (bucket settings)' section of the AWS S3 bucket configuration. It includes a warning about the impact of turning off public access. There are five settings listed under 'Block all public access': 'Block public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. All these settings are currently set to 'Off'. The 'Edit' button is visible above the settings. Below this section is the 'Bucket policy' section, which contains a note about bucket policies and a 'No policy to display' message. There are 'Edit' and 'Delete' buttons for the policy.



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

JOF
fruitshop

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Best Fresh Red Apple from Salah Market

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature

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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 3

AWS Marketplace for S3

demo-static-fruits-web Info

Publicly accessible

Objects Properties Permissions Metrics Management Access Points

Objects (6)

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](#)

[Actions](#)

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

Find objects by prefix

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

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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 3

AWS Marketplace for S3

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

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](#)

[Edit](#)

[http://demo-static-fruits-web.s3-website.us-east-2.amazonaws.com](#)

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 with the EC2 Image Builder service selected. The left sidebar navigation includes 'Instances', 'Images' (with 'AMIs' selected), and 'Elastic Block Store'. The main content area displays a table of AMIs under the heading 'Owned by me'. One entry is visible:

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...	

Below the table, a detailed view of the 'backup-image' AMI is shown. The 'Details' tab is selected, displaying the following information:

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

Name	Snapshot ID	Size	Description	Status	Started
snap-a31c0373ec...	8 GiB	backup-Germany	Completed	Completed	November 9, 2021 at 1:15:10 PM
snap-0b60e60b5fd9...	8 GiB	Created by CreateImage(i-00c446e0211a0f946) for ami-09d9ec...	Completed	Completed	November 9, 2021 at 1:15:10 PM

4- Create Lambda Function Hello World Python

The test event `myevent` was successfully saved.

Code source Info

Test Deployment **Changes deployed**

Execution result

Test Event Name
myevent

Response
"AbdElrahman"

Function Logs

```
START RequestId: 0b87eb21-6a9f-4a1a-a556-d3cbf4fecfde Version: $LATEST
Loading function
value1 = AbdElrahman
value2 = Ibrahim
value3 = Zaki
END RequestId: 0b87eb21-6a9f-4a1a-a556-d3cbf4fecfde
REPORT RequestId: 0b87eb21-6a9f-4a1a-a556-d3cbf4fecfde Duration: 1.51 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 37 MB
Request ID
0b87eb21-6a9f-4a1a-a556-d3cbf4fecfde|
```

The test event **myevent** was successfully saved.

Code | Test | Monitor | Configuration | Aliases | Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy Changes deployed

Go to Anything (Ctrl-P) lambda_function Execution results

Environment myDemoFunc / lambda_function.py

```
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')
```

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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

