

Setting Up AWS to host my static files

Sign up to aws.amazon.com:

search S3 and click create a bucket:

General configurations:

in account, you can view your buckets, next we need to make some changes for it to be allowed for public use.

Amazon S3 > Buckets

Account snapshot

View Storage Lens dashboard

Buckets (2) Info

Refresh Copy ARN Empty Delete Create bucket

Find buckets by name

< 1 > ⚙

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
○	airsoft-workshop	EU (London) eu-west-2	<u>Objects can be public</u>	November 30, 2022, 19:32:29 (UTC+00:00)

click on the bucket

Amazon S3 > Buckets > airsoft-workshop

airsoft-workshop Info

Objects Properties Permissions Metrics Management Access Points

Objects (0)

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

Find objects by prefix

< 1 > ⚙

	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
No objects					
You don't have any objects in this bucket.					
<div>Upload</div>					

next click on properties and go to static website hosting
enable static website hosting...

Static website hosting

Edit

Static website hosting

Disabled

[input default index and error htmls, but these will not be used] and then save next head to the permissions tab...

Edit static website hosting Info

Static website hosting

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

Static website hosting

- ☐ Disable
- ☒ Enable

Hosting type

- ☒ Host a static website
Use the bucket endpoint as the web address. [Learn more](#)
- ☐ Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

i For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

index.html

Error document - optional

This is returned when an error occurs.

error.html

Next there are 3 changes to make...

Amazon S3 > Buckets > airsoft-workshop

airsoft-workshop Info

Objects | Properties | **Permissions** | Metrics | Management | Access Points

first CORS config, add allowed hosts

Edit cross-origin resource sharing (CORS) Info

Cross-origin resource sharing (CORS)

The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain in a different domain. [Learn more](#)

```
1  [
2  {
3    "AllowedHeaders": [
4      "Authorization"
5    ],
6    "AllowedMethods": [
7      "GET"
8    ],
9    "AllowedOrigins": [
10     "*"
11   ],
12   "ExposeHeaders": []
13 }
14 ]
```

2nd) open bucket policy, edit and use the policy generator in the top right

Edit bucket policy [Info](#)

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](#)

[Policy examples](#)[Policy generator](#)


Bucket ARN
arn:aws:s3:::airsoft-workshop

Policy

select type of policy = S3 bucket policy
Effect = Allow
Principle = * (indicates all)
AWS service = fixed
Actions = GetObject
Amazon Resource Name ARN = get from bucket policy rab (above in blue)

Bucket ARN

arn:aws:s3:::airsoft-workshop



AWS Policy Generator

The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see [key concepts in Using AWS Identity and Access Management](#). Here are [sample policies](#).

Step 1: Select Policy Type

A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy

S3 Bucket Policy

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a [description of elements](#) that you can use in statements.

Effect

☒ Allow ☐ Deny

Principal

*

AWS Service

Amazon S3

Actions

1 Action(s) Selected

Amazon Resource Name (ARN)

☐ GetMultiRegionAccessPoint

☐ GetMultiRegionAccessPointPolicy

☐ GetMultiRegionAccessPointPolicyStatus

☐ GetMultiRegionAccessPointRoutes

☒ GetObject

☐ GetObjectAcl

☐ GetObjectAttributes

☐ GetObjectLegalHold

☐ All Services ('*')

☐ All Actions ('*')

{BucketName}/{KeyName}.

d. You must enter a valid ARN.

Step 3: Generate Policy

A *policy* is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

Add one or more statements above to generate a policy.

click create statement then generate policy...

Add Conditions (Optional)

Add Statement

You added the following statements. Click the button below to Generate a policy.

Principal(s)	Effect	Action	Resource	Conditions
• *	Allow	• s3:GetObject	arn:aws:s3:::airsoft-workshop	None

Step 3: Generate Policy

A *policy* is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

Generate Policy

Start Over

now add this policy in the bucket policy, but do not save yet
add a /* onto the end of the resource policy

Policy JSON Document

Click below to edit. To save the policy, copy the text below to a text editor. Changes made below will not be reflected in the policy generator tool.

```
{
  "Id": "Policy1669838185457",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1669838126695",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::airsoft-workshop",
      "Principal": "*"
    }
  ]
}
```

This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether expressed or implied.

Close

now save changes

Also we need to change the object ownership... set the settings like so on the image to the right and then save.

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Buck

Bucket ARN

arn:aws:s3:::airsoft-workshop

Policy

```
1 {
2   "Id": "Policy1669838185457",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmnt1669838126695",
7       "Action": [
8         "s3:GetObject"
9       ],
10      "Effect": "Allow",
11      "Resource": "arn:aws:s3:::airsoft-workshop",
12      "Principal": "*"
13    }
14  ]
15 }
```


now inside permissions, edit access control list (ACL)
set the Everyone (Public Access)
Objects List to tick

Object Ownership

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ **ACLs disabled (recommended)**
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ **ACLs enabled**
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.




Enabling ACLs turns off the bucket owner enforced setting for Object Ownership
Once the bucket owner enforced setting is turned off, access control lists (ACLs) and their associated permissions are restored. Access to objects that you do not own will be based on ACLs and not the bucket policy.
☐ I acknowledge that ACLs will be restored.

Object Ownership

☒ **Bucket owner preferred**
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

☐ **Object writer**
The object writer remains the object owner.


 If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)

Cancel [Save changes](#)

Edit access control list (ACL) [Info](#)

Access control list (ACL)

Grant basic read/write permissions to other AWS accounts. [Learn more](#)

Grantee	Objects	Bucket ACL
Bucket owner (your AWS account) Canonical ID: 070a3eb8da2c08b2e41600ca131589f458475b6acf8f422d0086b3792e40a989	<input checked="" type="checkbox"/> List <input checked="" type="checkbox"/> Write	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	<input checked="" type="checkbox"/>  List <input type="checkbox"/> Write	<input type="checkbox"/> Read <input type="checkbox"/> Write

save changes. next we need to set up the IAM