

Google Cloud Platform

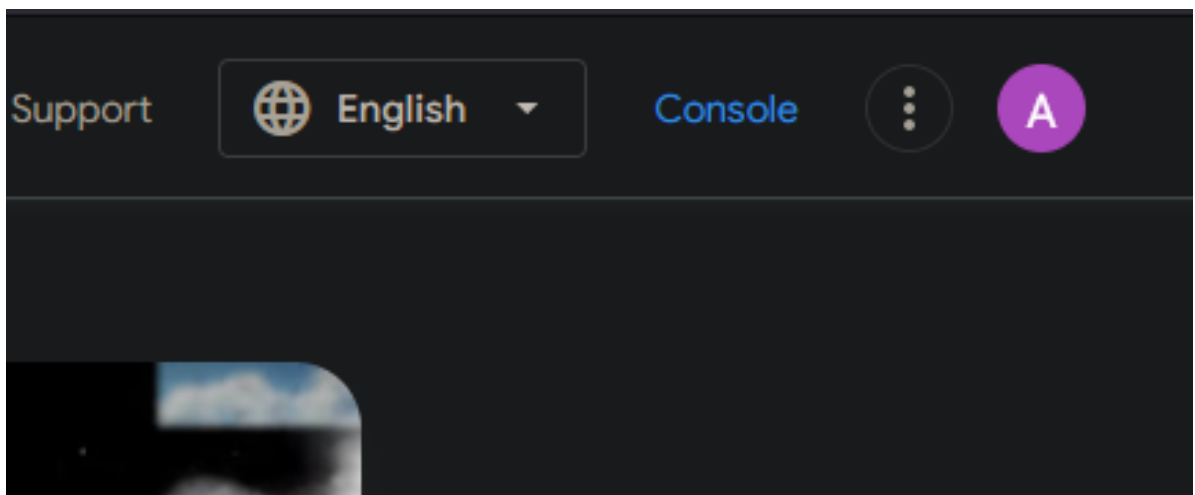
Static web page project

By Abdullah Aldrees.

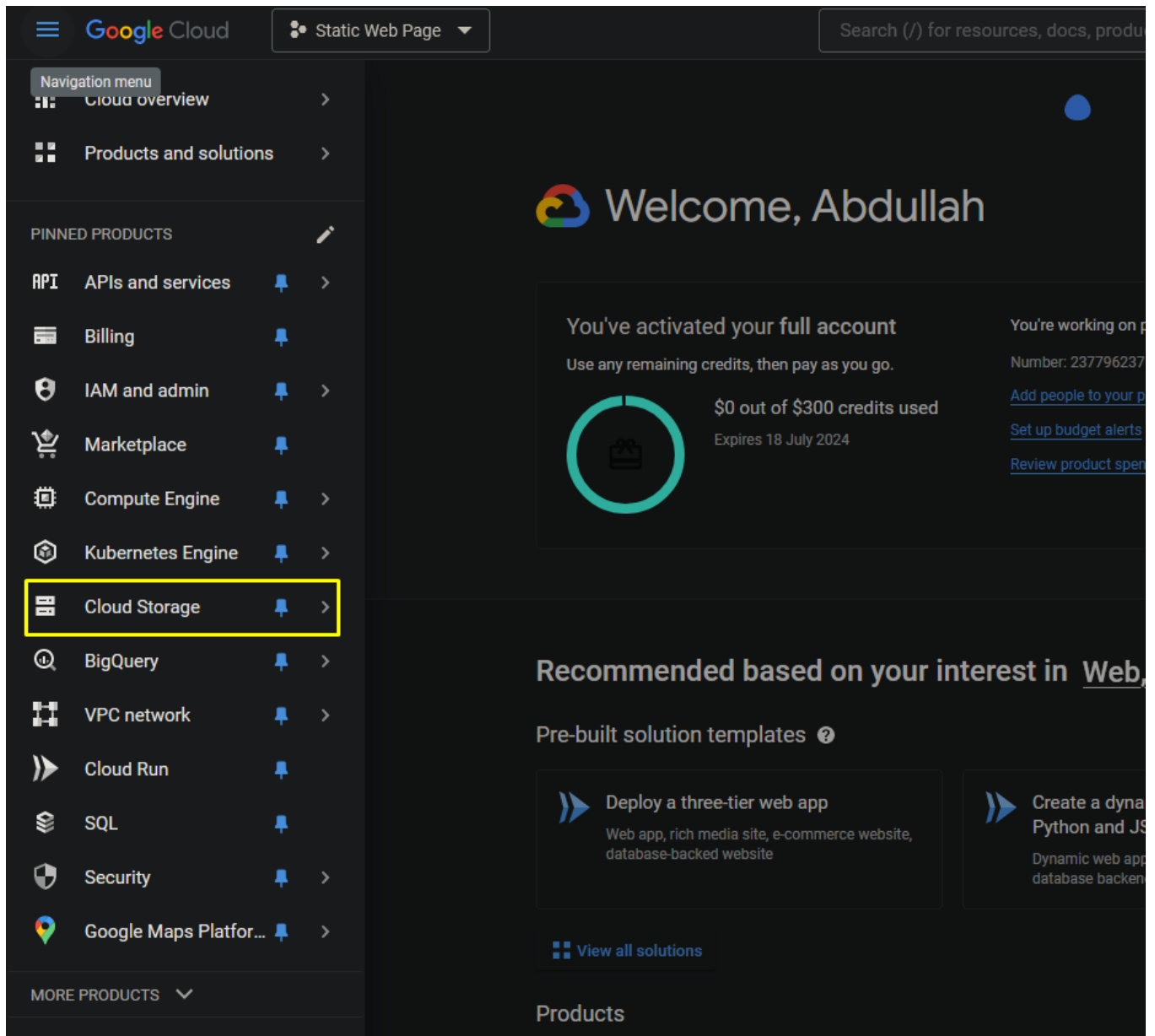
Guideline:

- **Make a Google cloud account, or sign in with your regular Google account.**
- **During signing in, you must enter any VISA card that you have. Then, activate it from the bar at the top of the page.**
- **Create your own project from the top left of the page.**

Login and go to Console:



From the nav bar, go to Cloud Storage:



Create your Bucket:

Google Cloud

Static Web Page

Search (/) for resources, docs, products and more

Search

GO TO PATH

LEARN

Cloud Storage

Buckets

Monitoring

Settings

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Buckets

CREATE

REFRESH

GO TO PATH

LEARN

Beginning on 29 April 2024, at-scale policy analysis and advanced IAM recommendation capabilities will require Security Command Centre Premium. [Learn more](#)

DISMISS

Filter

Filter buckets

No rows to display

Store and retrieve your data


Get started by creating a bucket – a container where you can organise and control access to your data and files in Cloud Storage.

CREATE BUCKET

TAKE QUICKSTART

https://console.cloud.google.com/storage?project=static-web-page-421116

Name it whatever you want:

 Create a Bucket

- Name your bucket**

Pick a globally unique, permanent name. [Naming guidelines](#)

Ex. 'example', 'example_bucket-1' or 'example.com'

Tip: Don't include any sensitive information

✓ LABELS (OPTIONAL)

CONTINUE
- Choose where to store your data**

Location: us (multiple regions in United States)
Location type: Multi-region
- Choose a storage class for your data**

Default storage class: Standard
- Choose how to control access to objects**


Public access prevention: On
Access control: Uniform
- Choose how to protect object data**


Soft-delete policy: Enabled
Object versioning: Disabled
Bucket retention policy: Disabled
Object retention: Disabled
Encryption type: Google-managed

CREATE


CANCEL

Continue:

 Create a Bucket



Name your bucket
Name: `abdullahsbucket`



Choose where to store your data

This choice defines the geographic placement of your data and affects cost, performance and availability. Cannot be changed later. [Learn more](#)

Location type

☒ **Multi-region**
Highest availability across largest area


☐ **Dual-region**
High availability and low latency across 2 regions


☐ **Region**
Lowest latency within a single region

asia (multiple regions in Asia) ▼


CONTINUE

Change the Access control to Fine-grained, then Continue:


 Create a Bucket




Name your bucket
Name: `abdullahsbucket`



Choose where to store your data
Location: `asia` (multiple regions in Asia)
Location type: `Multi-region`



Choose a storage class for your data
Default storage class: `Standard`



Choose how to control access to objects

Prevent public access


Restrict data from being publicly accessible via the Internet. Will prevent this bucket from being used for web hosting. [Learn more](#)

☒ Enforce public access prevention on this bucket

Access control

☐ **Uniform**

Ensure uniform access to all objects in the bucket by using only bucket-level permissions (IAM). This option becomes permanent after 90 days. [Learn more](#)

☒ **Fine-grained** 

Specify access to individual objects by using object-level permissions (ACLs) in addition to your bucket-level permissions (IAM). [Learn more](#)

CONTINUE

Finishing the bucket settings, create it:

←

Create a Bucket

Default storage class: Standard

✓

Choose how to control access to objects

Public access prevention: On

Access control: Fine-grained

•

Choose how to protect object data

Your data is always protected with Cloud Storage but you can also choose from these additional data protection options to add extra layers of security.

Data protection

☒

Soft-delete policy (for data recovery)

When enabled, deleted objects will be kept for a specified period after they're deleted and can be restored during this time. [Learn more](#)

Object retention period

Duration *

7

days

☐

Object versioning (for version control)

For restoring deleted or overwritten objects. To minimise the cost of storing versions, we recommend limiting the number of non-current versions per object and scheduling them to expire after a number of days. [Learn more](#)

☐

Retention (for compliance)

For preventing the deletion or modification of the bucket's objects for a specified period of time.

Data encryption ?

☒

Google-managed encryption key

No configuration required

☐

Customer-managed encryption key (CMEK)

Manage via [Google Cloud Key Management Service](#)

^

SHOW LESS

CREATE

CANCEL

An alert message will appear, continue:

←

Create a Bucket

✓

Name your bucket

Name: `abdullahsbucket`

✓

Choose where to store your data

Location: `asia` (multiple regions in Asia)
Location type: `Multi-region`

✓

Choose a storage class for your data

Default storage class: `Standard`

✓

Choose how to control access to objects

Public access prevention: `On`
Access control: `Fine-grained`

✓

Choose how to protect object data

Soft-delete policy: `Enabled`
Object versioning: `Disabled`
Bucket retention policy: `Disabled`
Object retention: `Disabled`
Encryption type: `Google-managed`

Good to know

📄

Location pricing

Storage rates vary depending on the storage class of your data and location of your bucket.[Pricing details](#)

Current configuration: `Multi-region / Standard`

Item	Cost
	026 per GB/month
	080 per GB written

Public access will be prevented

This bucket is set to prevent exposure of its data on the public Internet.

Keep this setting enabled unless you have a use case that requires public access (such as static website hosting). You can change it now or later. [Learn more](#)

☒ Enforce public access prevention on this bucket

☐ Don't show this message again

CANCEL

CONFIRM

PROCESSING...

CANCEL

After created, upload any file that you would like to have a specific public link for:

← Bucket details

GO TO PATH REFRESH LEARN

abdullahsbucket

Location

asia (multiple regions in Asia)

Storage class

Standard

Public access

Not public

Protection

Soft Delete

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↑

abdullahsbucket

⋮

Buckets > abdullahsbucket

UPLOAD FILES

UPLOAD FOLDERCREATE FOLDERTRANSFER DATA ▾MANAGE HOLDSEDIT RETENTIONDOWNLOADDELETE

Filter by name prefix only ▾Filter Filter objects and folders

Show Live objects only ▾

⋮

☐

Name

Size

Type

Created ?

Storage class

Last modified

Public access ?

Version history ?

Encryption ?

Object retention retain-until time ?

Retention expiry time

No rows to display

⏪

⏩

+

Your bucket is ready. Just add data.

Here are my uploaded files:

←

Bucket details

GO TO PATH

REFRESH

LEARN

abdullahsbucket

Location

asia (multiple regions in Asia)

Storage class

Standard

Public access

Not public

Protection

Soft Delete

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UPLOAD FILES

UPLOAD FOLDER

CREATE FOLDER

TRANSFER DATA ▾

MANAGE HOLDS

EDIT RETENTION

DOWNLOAD

DELETE





Filter by name prefix only ▾

Filter

Filter objects and folders

Show Live objects only ▾

⋮

<input type="checkbox"/>	Name	Size	Type	Created ?	Storage class	Last modified	Public access ?	Version history ?	Encrypti	
<input type="checkbox"/>	 index.html	1.6 KB	text/html	22 Apr 2024, 19:50:02	Standard	22 Apr 2024, 19:50:02	Not public	—	Google-	 ⋮
<input type="checkbox"/>	 styles.css	496 B	text/css	22 Apr 2024, 19:50:03	Standard	22 Apr 2024, 19:50:03	Not public	—	Google-	 ⋮

2 files successfully uploaded

Now go to permissions so we can make the files available and accessible to the public:

abdullahsbucket

Location

Storage class

Public access

Protection

asia (multiple regions in Asia)

Standard

Not public

Soft Delete

OBJECTS

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Upload Folder

Create Folder

Transfer Data

Manage Holds

Edit Retention

Download

Delete

abdullahsbucket

Filter by name prefix only

Filter

Filter objects and folders

Show Live objects only

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption
<input type="checkbox"/>	index.html	1.6 KB	text/html	22 Apr 2024, 19:50:02	Standard	22 Apr 2024, 19:50:02	Not public	—	Google-
<input type="checkbox"/>	styles.css	496 B	text/css	22 Apr 2024, 19:50:03	Standard	22 Apr 2024, 19:50:03	Not public	—	Google-

2 files successfully uploaded

Remove the prevention of being public to all users. Then, confirm:

[←](#) Bucket details [GO TO PATH](#) [REFRESH](#) [LEARN](#)

abdullahsbucket

Location

Storage class

Public access

Protection

asia (multiple regions in Asia) Standard Not public Soft Delete

OBJECTS

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Public access

Not public

This bucket is not publicly accessible because public access is being prevented. Because of this restriction, objects cannot be publicly shared over the Internet. [Learn more](#)

Principals restricted from bucket access:
allUsers, allAuthenticatedUsers

REMOVE PUBLIC ACCESS PREVENTION

Access control

Fine-grained: Object-level ACLs enabled

Access to objects can be granted through object access control lists (ACLs). To enforce a single set of permissions on the bucket and its objects, switch to uniform bucket-level access control. [Learn more](#)

SWITCH TO UNIFORM

Permissions

VIEW BY PRINCIPALS

VIEW BY ROLES

+ GRANT ACCESS

- REMOVE ACCESS

Filter

Enter property name or value

?

⋮

2 files successfully uploaded ✕

Remove public access prevention on this bucket?

You are about to remove the constraint that prevents public access to the bucket **abdullahsbucket**. Without public access prevention, objects in this bucket could be made accessible to anyone on the public Internet.



By allowing public access, any permissions that had been previously granted to **allUsers** or **allAuthenticatedUsers** will be restored. [Learn more about this setting](#)

CANCEL

CONFIRM

After the bucket files being public. Grant access to all users that have the file URL:

← Bucket details

GO TO PATHREFRESHLEARN

abdullahsbucket

Location

asia (multiple regions in Asia)

Storage class

Standard

Public access

Subject to object ACLs

Protection

Soft Delete

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Public access

Subject to object ACLs

One or more objects in this bucket could be public to the Internet if they grant access to `allUsers` or `allAuthenticatedUsers`. Check each object's permissions to see if they are public. To streamline permissions, you can switch to uniform access control. If objects should never be publicly accessible, you should also prevent public access to this bucket.[Learn more](#)

PREVENT PUBLIC ACCESS

Access control

Fine-grained: Object-level ACLs enabled

Access to objects can be granted through object access control lists (ACLs). To enforce a single set of permissions on the bucket and its objects, switch to uniform bucket-level access control. [Learn more](#)

SWITCH TO UNIFORM

Permissions

VIEW BY PRINCIPALS

VIEW BY ROLES

GRANT ACCESS

REMOVE ACCESS

Filter

Enter property name or value

Type	Principal	Name	Role	
	Editors of project: static-web-page-421116		Storage Legacy Bucket Owner	
	Owners of project: static-web-page-421116		Storage Legacy Bucket Owner	
	Viewers of project: static-web-page-421116		Storage Legacy Bucket Owner	


Public access is no longer prevented for this bucket

The first field those who would receive the grant. The second is what they can do which is only read:

Grant access to 'abdullahsbucket'


Grant principals access to this resource and add roles to specify what actions the principals can take. Optionally, add conditions to grant access to principals only when a specific criteria is met. [Learn more about IAM conditions](#)

Resource

 abdullahsbucket



Add principals

Principals are users, groups, domains or service accounts. [Learn more about principals in IAM](#)

New principals * 

Assign Roles

Roles are composed of sets of permissions and determine what the principal can do with this resource. [Learn more](#)

<p>Role * <input type="text" value="Storage Legacy Bucket Reader"/></p> <p>Grants permission to list a bucket's contents and read bucket metadata, excluding IAM policies. Also grants permission to read object metadata when listing objects (excluding IAM policies).</p>	<p>IAM condition (optional) </p> <p>IAM conditions disabled </p>
--	--

[+ ADD ANOTHER ROLE](#)

SAVE

CANCEL

Save then allow:

Static Web Page

Search (/) for resources, docs, products and more

← Bucket details

abdullahsbucket

Location

asia (multiple regions in Asia)

Storage class

Standard

Public access

Subject to object ACLs

Protection

Soft Delete

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IN

Public access

Subject to object ACLs

One or more objects in this bucket could be public to the Internet. If you want to prevent public access, you must first grant access to allUsers or allAuthenticatedUsers. Check the bucket's permissions to see if they are public. To streamline permissions, you can switch to uniform access. If objects should never be publicly accessible, you should also prevent public access to this bucket.[Learn more](#)

PREVENT PUBLIC ACCESS

Permissions

VIEW BY PRINCIPALS

VIEW BY ROLES

+ GRANT ACCESS

- REMOVE ACCESS

Filter

Enter property name or value

<input type="checkbox"/>	Type	Principal ↑	Name	Role	
<input type="checkbox"/>	Users	Editors of project: static-web-page-421116		Storage Legacy Bucket Owner	
<input type="checkbox"/>	Users	Owners of project: static-web-page-421116		Storage Legacy Bucket Owner	
<input type="checkbox"/>	Users	Viewers of project: static-web-page-421116		Storage Legacy Bucket Reader	

Public access is no longer prevented for this bucket.

Grant access to 'abdullahsbucket'

Grant principals access to this resource and add roles to specify what actions the principals can take. Optionally, add conditions to grant access to principals only when a specific criteria is met. [Learn more about IAM conditions](#)

Resource

abdullahsbucket

Add principals

Principals are users, groups, domains or service accounts. [Learn more about principals in IAM](#)

New principals *

of permissions and determine what the principal can do [Learn more](#)

Reader

IAM condition (optional) ?

IAM conditions disabled

bucket's metadata, grants metadata

when listing objects (excluding IAM policies).

+ ADD ANOTHER ROLE

SAVE

CANCEL

Are you sure that you want to make this resource public?

Adding allUsers or allAuthenticatedUsers to this resource will make it publicly accessible to anyone on the internet. If this resource contains data that should not be made public to everyone, cancel this action to prevent public access.[Learn more](#)

CANCEL

ALLOW PUBLIC ACCESS

Policy and permission updated, everything inside the bucket is public:

abdullahsbucket

Public to Internet: This bucket is publicly accessible because allUsers or allAuthenticatedUsers have one or more permissions. Remove these principals to stop public access.

EDIT ACCESSDISMISS

Location

Storage class

Public access

Protection

asia (multiple regions in Asia)

Standard

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DELETE



Filter by name prefix only

Filter

Filter objects and folders


Show


Live objects only

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	
<input type="checkbox"/>	 index.html	1.6 KB	text/html	22 Apr 2024, 19:50:02	Standard	22 Apr 2024, 19:50:02	<div>Public to Internet</div> Copy URL	—	<div>Download</div> <div>More</div>
<input type="checkbox"/>	 styles.css	496 B	text/css	22 Apr 2024, 19:50:03	Standard	22 Apr 2024, 19:50:03	<div>Public to Internet</div> Copy URL	—	<div>Download</div> <div>More</div>


Policy updated

Last thing is just take that file's URL and open it in another window then here it is!



 <https://storage.cloud.google.com/abdullahsbucket/index.html>

Welcome to Google Cloud Platform



Google Cloud

What is Google Cloud Platform?

Google Cloud Platform (GCP) is a suite of cloud computing services offered by Google. It provides a range of on-demand services including:

- **Compute:** Create and manage virtual machines (VMs)
- **Storage:** Store your data securely and reliably
- **Networking:** Connect your applications and resources
- **Big Data:** Analyze large datasets
- **Machine Learning:** Build and train machine learning models
- And many more!

What are Virtual Machines (VMs)?

A virtual machine (VM) is a software computer that emulates a physical computer. It allows you to run an operating system and applications on a virtualized server. VMs offer several benefits including:

- **Scalability:** Easily scale your resources up or down as needed
- **Cost-effectiveness:** Pay only for the resources you use
- **Flexibility:** Deploy different types of VMs for different applications
- **Isolation:** Applications running on VMs are isolated from each other

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