

Google cloud platform project

Deploy your static website on Google Cloud (Cloud Storage)

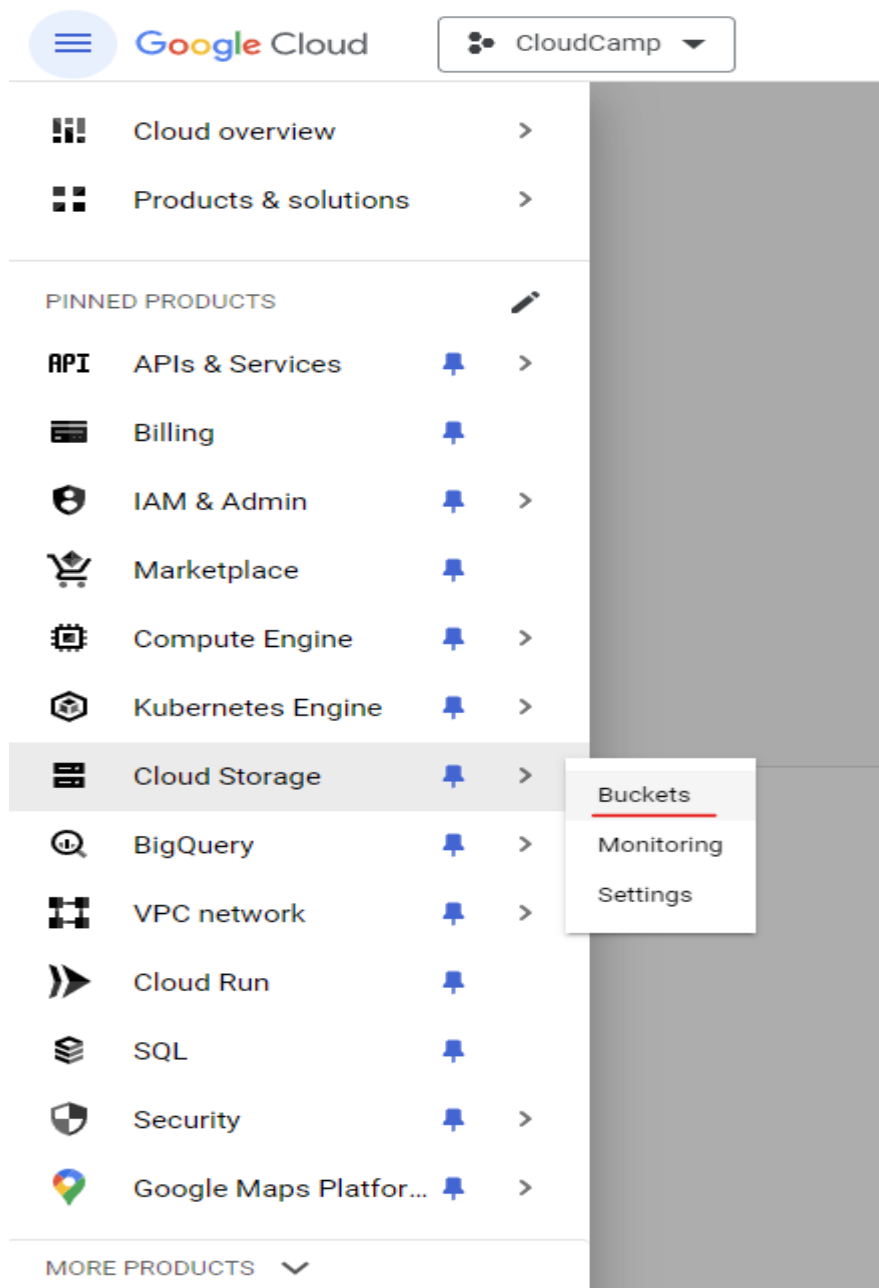
By Faisal Alkhayef

Guidelines:

1. Make your own GCP account.
2. Go to cloud storage and create your first bucket.
3. Upload your website and enable public access.

Bucket settings:

Go to bucket:



Create Bucket:

☐

Name ↑

Created

Location type


Location

Default storage class ?

Last modified

Public access ?

No rows to display



Store and retrieve your data


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

CREATE BUCKET

TAKE QUICKSTART

Bucket settings:

✓ Name your bucket

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


statix-web-bucket-01

Tip: Don't include any sensitive information

✓ LABELS (OPTIONAL)

CONTINUE

✓ 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

me-central1 (Doha) ▼

CONTINUE

✓ Choose a storage class for your data

A storage class sets costs for storage, retrieval, and operations, with minimal differences in uptime. Choose if you want objects to be managed automatically or specify a default storage class based on how long you plan to store your data and your workload or use case. [Learn more](#) 

- ☐ Autoclass 
Automatically transitions each object to Standard or Nearline class based on object-level activity, to optimize for cost and latency. Recommended if usage frequency may be unpredictable. Can be changed to a default class at any time. [Pricing details](#) 
- ☒ Set a default class
Applies to all objects in your bucket unless you manually modify the class per object or set object lifecycle rules. Best when your usage is highly predictable.
 - ☒ Standard 
Best for short-term storage and frequently accessed data
 - ☐ Nearline
Best for backups and data accessed less than once a month
 - ☐ Coldline
Best for disaster recovery and data accessed less than once a quarter
 - ☐ Archive
Best for long-term digital preservation of data accessed less than once a year

✓ 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

• 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 versioning (For version control)

For restoring deleted or overwritten objects. To minimize the cost of storing versions, we recommend limiting the number of noncurrent 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

CREATE

CANCEL

Upload Files:

Folder browser

statix-web-bucket-01

Buckets > statix-web-bucket-01

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
No rows to display							

Your bucket is ready. Just add data.

Drop files and folders here or use the upload button. To move a lot of data from another bucket or cloud storage provider, create a transfer job.

UPLOAD FILES

CREATE TRANSFER JOB

After uploading the web page, we need to make it public.

Click on permissions:

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

OBSERVABILITY

INVENTORY REPORTS

Folder browser

statix-web-bucket-01

Buckets > statix-web-bucket-01

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	
<input type="checkbox"/>	<div><div></div>index.html</div>	2.1 KB	text/html	Apr 20, 2024, 11:09	<div><div></div><div></div></div>

Click on Grant Access:

statix-web-bucket-01

Location

Storage class

Public access

Protection

me-central1 (Doha)

Standard

Subject to object ACLs

None

<

OBJECTS

CONFIGURATION

PERMISSIONS

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LIFECYCLE

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INVENTORY REPORTS

>

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

New principals: allUsers

Grant access to "statix-web-bucket-01"

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

statix-web-bucket-01

Add principals

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

New principals *

allUsers

?

Assign roles

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

Select a role *

IAM condition (optional) ?

IAM conditions disabled

+ ADD ANOTHER ROLE

SAVE

CANCEL

Select Role:

Grant access to "statix-web-bucket-01"

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

 statix-web-bucket-01

Add principals

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

New principals *

allUsers

?

Assign roles

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

Select a role *IAM condition (optional) ?

Filter Filter by role or permission

Cloud Composer

Cloud Dataplex

Cloud Deploy

Cloud Migration

Cloud Storage Legacy

Dataflow

Dataproc

Roles

Storage Legacy Bucket Owner

Storage Legacy Bucket Reader

Storage Legacy Bucket Writer

Storage Legacy Object Owner

Storage Legacy Object Reader

MANAGE ROLES

Storage Legacy Object Reader

Grants permission to view objects and their metadata, excluding ACLs.

Save:

Grant access to "statix-web-bucket-01"

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

 statix-web-bucket-01

Add principals

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

New principals *

allUsers

?

Assign roles

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


Role *

Storage Legacy Object Reader

▼

IAM condition (optional) ?

IAM conditions disabled



Grants permission to view objects and their metadata, excluding ACLs.

[+ ADD ANOTHER ROLE](#)

SAVE

CANCEL

Are you sure 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

After Refreshing, you'll notice that the file is now Public.

[←](#)

Bucket details

[GO TO PATH](#)
[REFRESH](#)
[LEARN](#)

statix-web-bucket-01

Location

Storage class

Public access

Protection

me-central1 (Doha)

Standard

⚠️ Public to internet

None

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

OBSERVABILITY

INVENTORY REPORTS

Folder browser

statix-web-bucket-01

Toggle panel "Folder browser"

Buckets > statix-web-bucket-01

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	Public access	Version history
<input type="checkbox"/>	index.html	⚠️ Public to internet Copy URL	—

Now return to your bucket and click on the 3 dots then Edit website configuration:

Buckets

[+ CREATE](#)
[REFRESH](#)

[GO TO PATH](#)
[LEARN](#)

1

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

DISMISS

Soft Delete is now available

When enabled on a bucket, Soft Delete protects objects from accidental or malicious deletions. A 7 day Soft Delete policy has been added to all existing buckets. This is the default policy for new buckets.

LEARN MORE

Transfer

New

Power near real-time analytics and replication with event-driven transfers

You can now capture changes faster at your Google Cloud Storage and Amazon S3 sources via event-driven transfers, enabling you to act on your data in near real time. To get started, create a transfer job with a Pub/Sub- or AWS S3-based event stream configured to send event notifications when objects are created or updated.

CREATE TRANSFER JOB

LEARN MORE

Filter

Filter buckets

?

⋮

<input type="checkbox"/>	Name ↑	Created	Location type	Location	Default storage class ?	Last modified
<input type="checkbox"/>	statix-web-bucket-01	Apr 20, 2024, 11:06:06 PM	Region	me-central1	Standard	Apr 20, 2024, 11:19:01 PM

Edit access

Edit tags

Edit labels

Edit website configuration

Edit default storage class

Delete bucket

Transfer data in

Transfer data out

Create restore job

Export to Cloud Pub/Sub

Process with Cloud Functions

Scan with Sensitive Data Protection

Write the main file then Save.

statix-web-bucket-01 website configuration

Configure index and error pages for any static website associated with statix-web-bucket-01. [Learn more](#)

Index (main) page suffix

index.html

Specify a suffix to append to the URL when visitors request your top-level domain or URLs without associated objects. Ex. With the suffix index.html, example.com serves visitors content from the object example.com/index.html (if it exists).


Error (404 not found) page


Specify an object to serve when visitors request a URL that directs to no object or index page. Ex. A user visits example.com/dir — if neither that URL nor example.com/dir/index.html directs to an object, the error page is served.

CANCEL

SAVE

Finally go to your index.html and copy the url

Filter by name prefix only ▼		Filter	Filter objects and folders	Show	Live objects only ▼	⋮
<input type="checkbox"/>	Name	Public access ?		Version		
<input type="checkbox"/>	 index.html	⚠ Public to internet <u>Copy URL</u>		—		⬇ ⋮

 <https://storage.googleapis.com/statix-web-bucket-01/index.html>

Now your first static website on GCP is running!



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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Hope this helps.