

Google cloud platform project

Deploy your static website on Google Cloud (Cloud Storage)

by Abdulaziz alqahtani

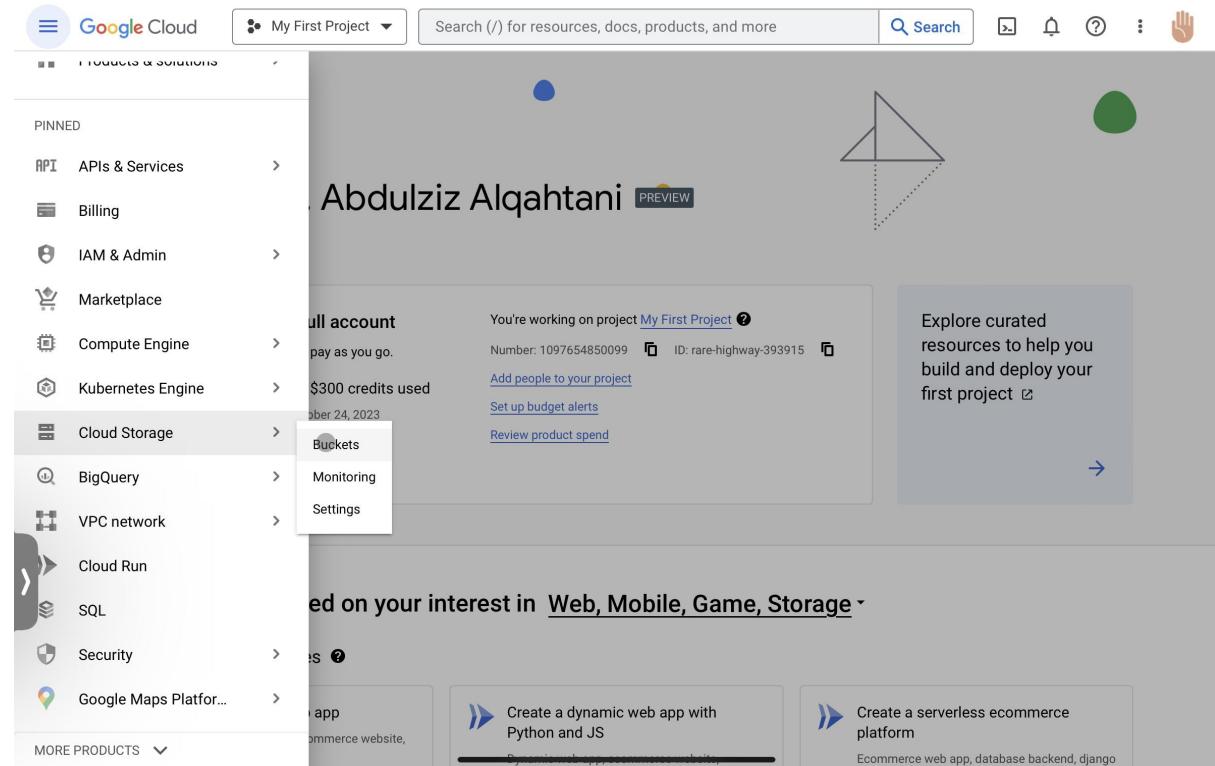
Guidelines:

- First make your own GCP account.
- second after you make your account go to cloud storage and create your first bucket
- third upload your website and enable public access

Hands-on-deck \$:~

Bucket settings:

here you make your first Bucket.



And click on create.

The screenshot shows the Google Cloud Storage dashboard. At the top, there's a banner for the 'Try The New Cloud Storage Monitoring Dashboard'. Below it, a section titled 'View security recommendations' is visible. On the left sidebar, there are links for 'Buckets', 'Monitoring', and 'Settings'. The main area shows a table with columns: Name, Created, Location type, Location, and Default storage class. A message says 'No rows to display'. On the right side, there's a sidebar titled 'Get started with Cloud Storage' containing several sections like 'Host a static website', 'Create transfers', 'Discover object storage with the gsutil tool', 'Use cases for Cloud Storage', 'Terraform samples', and 'Architecture guides for storage'.

The bucket settings.

The screenshot shows the 'Create a bucket' wizard. The first step, 'Name your bucket', is active. It asks for a globally unique name, with 'my-first-web-on-gcp' entered. There's a note: 'Tip: Don't include any sensitive information'. Below it, there's a section for 'LABELS (OPTIONAL)' with a 'CONTINUE' button. The next steps are 'Choose where to store your data', 'Choose a storage class for your data', and 'Choose how to control access to objects'. To the right, a 'Good to know' section includes 'Location pricing' (with a note about varying rates by region and storage class) and a table showing current configuration: 'Multi-region / Standard'. The table lists items like 'us (multiple regions in United States)' and 'With default replication' with their respective costs. At the bottom, there's a section for 'ESTIMATE YOUR MONTHLY COST'.

Choose the region.

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Cloud Storage Create a bucket HELP ASSISTANT

Buckets Monitoring Settings

Name your bucket
Name: my-first-web-on-gcp

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)

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: Region / Standard

Item	Cost
me-central1 (Doha)	\$0.023 per GB-month

ESTIMATE YOUR MONTHLY COST

CONTINUE

Marketplace Release Notes

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Cloud Storage Create a bucket HELP ASSISTANT

Buckets Monitoring Settings

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](#)

us (multiple regions in United States)

With default replication

ESTIMATE YOUR MONTHLY COST

CONTINUE

Marketplace Release Notes

The screenshot shows the 'Create a bucket' wizard in the Google Cloud Platform. The left sidebar shows 'Cloud Storage' with 'Buckets' selected. The main area is titled 'Choose how to control access to objects'. It includes sections for 'Prevent public access' (checkbox for 'Enforce public access prevention on this bucket'), 'Access control' (radio buttons for 'Uniform' and 'Fine-grained', with 'Fine-grained' selected), and 'CONTINUE' and 'CREATE' buttons.

Choose how to control access to objects

ESTIMATE YOUR MONTHLY COST

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

Protection tools: None
Data encryption: Google-managed

Unable to create your bucket at this time. Try again or contact your administrator.

CREATE **CANCEL**

Now click create.

The screenshot shows the 'Create a bucket' wizard in the Google Cloud Platform. The left sidebar shows 'Cloud Storage' with 'Buckets' selected. The main area is titled 'Choose a storage class for your data'. It includes sections for 'Default storage class: Standard', 'Choose how to control access to objects' (with 'Public access prevention: On' and 'Access control: Uniform' selected), 'Choose how to protect object data' (with 'None' selected for protection tools), and a table for estimating monthly costs. A 'DATA ENCRYPTION' section is also present.

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

Item	Cost
us (multiple regions in United States)	\$0.026 per GB-month
With default replication	\$0.020 per GB written

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 prevent data loss. Note that object versioning and retention policies cannot be used together.

Protection tools

None
 Object versioning (for data recovery)
 Retention policy (for compliance)

DATA ENCRYPTION

CREATE **CANCEL**

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Cloud Storage Create a bucket

Buckets Monitoring Settings

Name your bucket
Name: my-first-web-on-gcp

Choose where to store your data
Location: me-central1 (Doha)
Location type: Region

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

Choose how to control access to objects
Public access prevention: Off
Access control: Fine-grained

Choose how to protect object data
Protection tools: None
Data encryption: Google-managed

PROCESSING... CANCEL

Marketplace

Release Notes

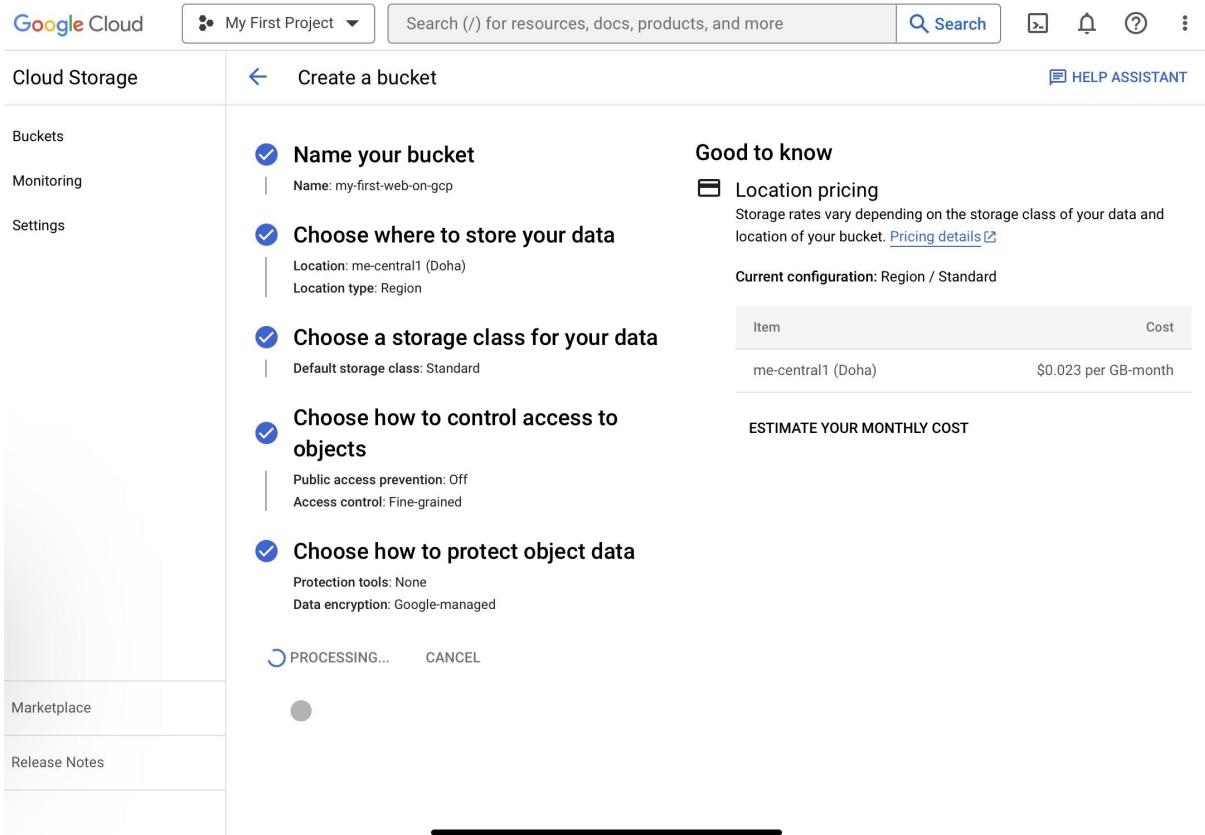
Good to know

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

Current configuration: Region / Standard

Item	Cost
me-central1 (Doha)	\$0.023 per GB-month

ESTIMATE YOUR MONTHLY COST



Bucket console:

After we create our first bucket, we'll upload our website from click on the upload button.

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Cloud Storage Bucket details

Buckets Monitoring Settings

my-first-web-on-gcp

Location	Storage class	Public access	Protection
me-central1 (Doha)	Standard	Subject to object ACLs	None

OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE OBSERVABILITY INVENTORY

Buckets > my-first-web-on-gcp

UPLOAD FILES UPLOAD FOLDER CREATE FOLDER TRANSFER DATA MANAGE HOLDS DOWNLOAD DELETE

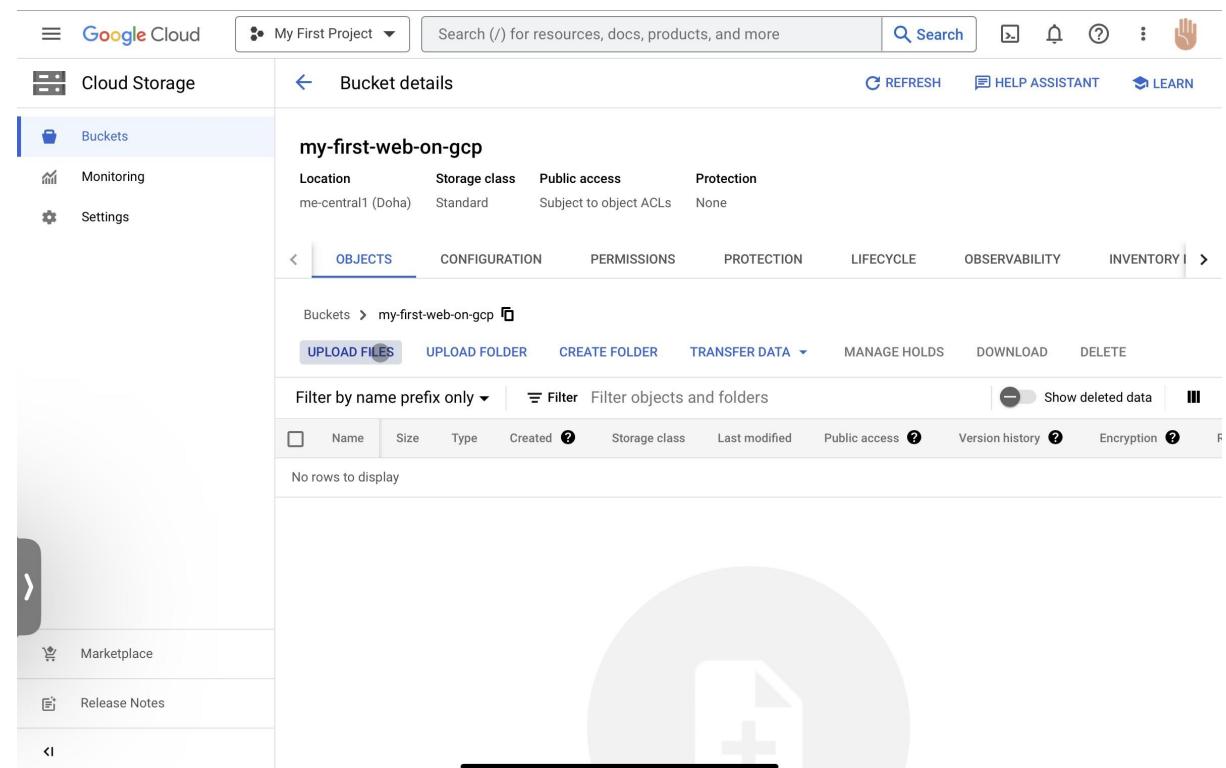
Filter by name prefix only Filter objects and folders Show deleted data

Name Size Type Created Storage class Last modified Public access Version history Encryption

No rows to display

Marketplace

Release Notes



The screenshot shows the Google Cloud Storage 'Bucket details' page for the bucket 'my-first-web-on-gcp'. The left sidebar has 'Buckets' selected. The main area shows the bucket configuration with location 'me-central1 (Doha)', storage class 'Standard', public access 'Subject to object ACLs', and protection 'None'. Below is a table of objects:

Name	Size	Type	Created	Storage class	Last modified
index.html	2 KB	text/html	Aug 8, 2023, 6:33:07 PM	Standard	Aug 8, 2023, 6:33:07 PM
styles.css	1.2 KB	text/css	Aug 8, 2023, 6:33:08 PM	Standard	Aug 8, 2023, 6:33:08 PM

A modal window titled 'Uploads and My First Project operations' is open, showing a progress bar for 'Uploading 2 files' with 'index.html' and 'styles.css' both marked as 'Complete'. A message at the bottom says '2 files successfully uploaded'.

After we have uploaded the site, we have to make it public.

The screenshot shows the Google Cloud Storage 'Bucket details' page for the bucket 'my-first-web-on-gcp'. The left sidebar has 'Buckets' selected. The main area shows the bucket configuration with location 'me-central1 (Doha)', storage class 'Standard', public access 'Subject to object ACLs', and protection 'None'. Below is a table of objects:

Name	Last modified	Public access	Version history	Encryption
index.html	Aug 8, 2023, 6:33:07 PM	Not public	—	Google-managed
styles.css	Aug 8, 2023, 6:33:08 PM	Not public	—	Google-managed

A modal window titled 'Uploads and My First Project operations' is open, showing a progress bar for 'Uploading 2 files' with 'index.html' and 'styles.css' both marked as 'Complete'. A message at the bottom says '2 files successfully uploaded'.

Click on permissions and follow the steps.

The screenshot shows the Google Cloud Storage 'Bucket details' page for 'my-first-web-on-gcp'. The left sidebar has 'Buckets' selected. The main area shows the 'OBJECTS' tab is active, displaying two files: 'index.html' and 'styles.css'. Both files were uploaded on Aug 8, 2023, at 6:33:07 PM, are not public, and have Google-managed encryption. A 'Filter by name prefix only' dropdown and a 'Filter objects and folders' input field are visible above the list.

After you select the files click on permissions and click on Grant access.

The screenshot shows the 'PERMISSIONS' tab selected in the Google Cloud Storage 'Bucket details' page for 'my-first-web-on-gcp'. The left sidebar has 'Buckets' selected. The main area is divided into two sections: 'Public access' and 'Access control'. Under 'Public access', it says 'Subject to object ACLs' and provides instructions about granting access to the internet. Under 'Access control', it says 'Fine-grained: Object-level ACLs enabled' and provides instructions about using object access control lists (ACLs). A 'PREVENT PUBLIC ACCESS' button is also present. At the bottom, there are tabs for 'VIEW BY PRINCIPALS' and 'VIEW BY ROLES', and buttons for 'GRANT ACCESS' and 'REMOVE ACCESS'.

New principal choose **allUsers**.

The screenshot shows the Google Cloud IAM interface for granting access to a bucket named "my-first-web-on-gcp". In the "Add principals" section, the input field contains "allUsers". Below it, the "Assign roles" section shows a dropdown menu for selecting a role. A tooltip for "Storage Legacy Object Reader" is visible, stating: "Grants permission to view objects and their metadata, excluding ACLs." At the bottom are "SAVE" and "CANCEL" buttons.

Now select the role.

The screenshot shows the Google Cloud IAM interface for granting access to a bucket named "my-first-web-on-gcp". A modal window titled "Filter Type to filter" is open, listing various services and their associated roles. The "Storage Legacy Object Reader" role under the "Cloud Storage Legacy" section is highlighted. A tooltip for this role is visible, stating: "Grants permission to view objects and their metadata, excluding ACLs." At the bottom are "SAVE" and "CANCEL" buttons.

After that save the Grant access.

The screenshot shows the Google Cloud IAM interface for granting access to a bucket named "my-first-web-on-gcp".

Left Sidebar: Shows Cloud Storage, Buckets, Monitoring, and Settings.

Top Bar: Shows "Google Cloud" and "My First Project".

Header: "Grant access to \"my-first-web-on-gcp\"".

Information: "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: "my-first-web-on-gcp".

Add principals: "New principals * allUsers".

Assign roles: "Role * Storage Legacy Object Reader".

Buttons: "SAVE" and "CANCEL".

The screenshot shows the Google Cloud IAM interface for granting access to a bucket, with a confirmation dialog overlay.

Left Sidebar: Shows Cloud Storage, Buckets, Monitoring, and Settings.

Top Bar: Shows "Google Cloud" and "My First Project".

Header: "Grant access to \"my-first-web-on-gcp\"".

Information: "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: "my-first-web-on-gcp".

Add principals: "Are you sure you want to make this resource public?"

Message: "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](#)".

Buttons: "CANCEL" and "ALLOW PUBLIC ACCESS".

Get back to Objects and click refresh.

The screenshot shows the Google Cloud Storage 'Bucket details' page for 'my-first-web-on-gcp'. The left sidebar has 'Cloud Storage' selected under 'Buckets'. The main area shows the bucket name 'my-first-web-on-gcp' with a warning: 'Public to internet: This bucket is publicly accessible because allUsers or allAuthenticatedUsers have one or more permissions. Remove these principals to stop public access.' Below this are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', 'LIFECYCLE', 'OBSERVABILITY', and 'INVENTORY'. The 'OBJECTS' tab is active, showing two files: 'index.html' and 'styles.css'. Both files were uploaded on August 8, 2023, at 6:33:07 PM, are not public, and are Google-managed. There are download and delete icons for each file.

As we see now the website is public.

This screenshot is identical to the previous one, showing the same Google Cloud Storage 'Bucket details' page for 'my-first-web-on-gcp'. The interface, the warning message, the file list, and the file details for 'index.html' and 'styles.css' are all the same, indicating that no changes have been made since the last refresh.

Return to the bucket and select the three dots button and do the following.

The screenshot shows the 'Bucket details' page for 'my-first-web-on-gcp'. On the left, a sidebar lists 'Buckets', 'Monitoring', and 'Settings'. The main area displays bucket information: Location (me-central1 (Doha)), Storage class (Standard), Public access (Public to internet), and Protection (None). A warning message states: 'Public to internet: This bucket is publicly accessible because allUsers or allAuthenticatedUsers have one or more permissions. Remove these principals to stop public access.' Below this are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', 'LIFECYCLE', 'OBSERVABILITY', and 'INVENTORY'. Under 'OBJECTS', there are buttons for 'UPLOAD FILES', 'UPLOAD FOLDER', 'CREATE FOLDER', 'TRANSFER DATA', 'MANAGE HOLDS', 'DOWNLOAD', and 'DELETE'. A table lists objects: 'index.html' (2 KB, text/html, Aug 8, 2023, 6:33:07 PM, Standard) and 'styles.css' (1.2 KB, text/css, Aug 8, 2023, 6:33:08 PM, Standard).

The screenshot shows the 'Buckets' page. On the left, a sidebar lists 'Buckets', 'Monitoring', and 'Settings'. The main area features a 'Try The New Cloud Storage Monitoring Dashboard' section with a 'TRY NOW' button. Below it is a 'View security recommendations' section with a 'VIEW IN TABLE' and 'LEARN MORE' button. A table lists buckets: 'my-first-web-on-gcp' (Aug 8, 2023, 6:28:44 PM, Region, me-central1, Standard). A button at the bottom right says 'More actions for my-first-web-on-gcp'.

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Cloud Storage Buckets CREATE REFRESH

Buckets Monitoring Settings

Try The New Cloud Storage Monitoring Dashboard

Check out the new Cloud Storage monitoring dashboard and Bucket Observability pages! Powered by Cloud Operations, you can customize these dashboards for each project.

TRY NOW

View security recommendations

Improve security by applying security recommendations to your buckets. The security which buckets have excess permissions.

VIEW IN TABLE LEARN MORE

Filter buckets

Name ↑	Created	Location type	Location	Default storage class	Scan with Sensitive Data Protection
my-first-web-on-gcp	Aug 8, 2023, 6:28:44 PM	Region	me-central1	Standard	Aug 8, 2023, 6:37

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Edit access Edit tags Edit labels Edit website configuration Edit default storage class Delete bucket Transfer data in Transfer data out Export to Cloud Pub/Sub Process with Cloud Functions

Write the main file.

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Cloud Storage 1 bucket selected DELETE PERMISSIONS TAGS LABELS

Buckets Monitoring Settings

Try The New Cloud Storage Monitoring Dashboard

Configure index and error pages for any static website associated with my-first-web-on-gcp. 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.

my-first-web-on-gcp

CANCEL SAVE

Default storage class Last modified

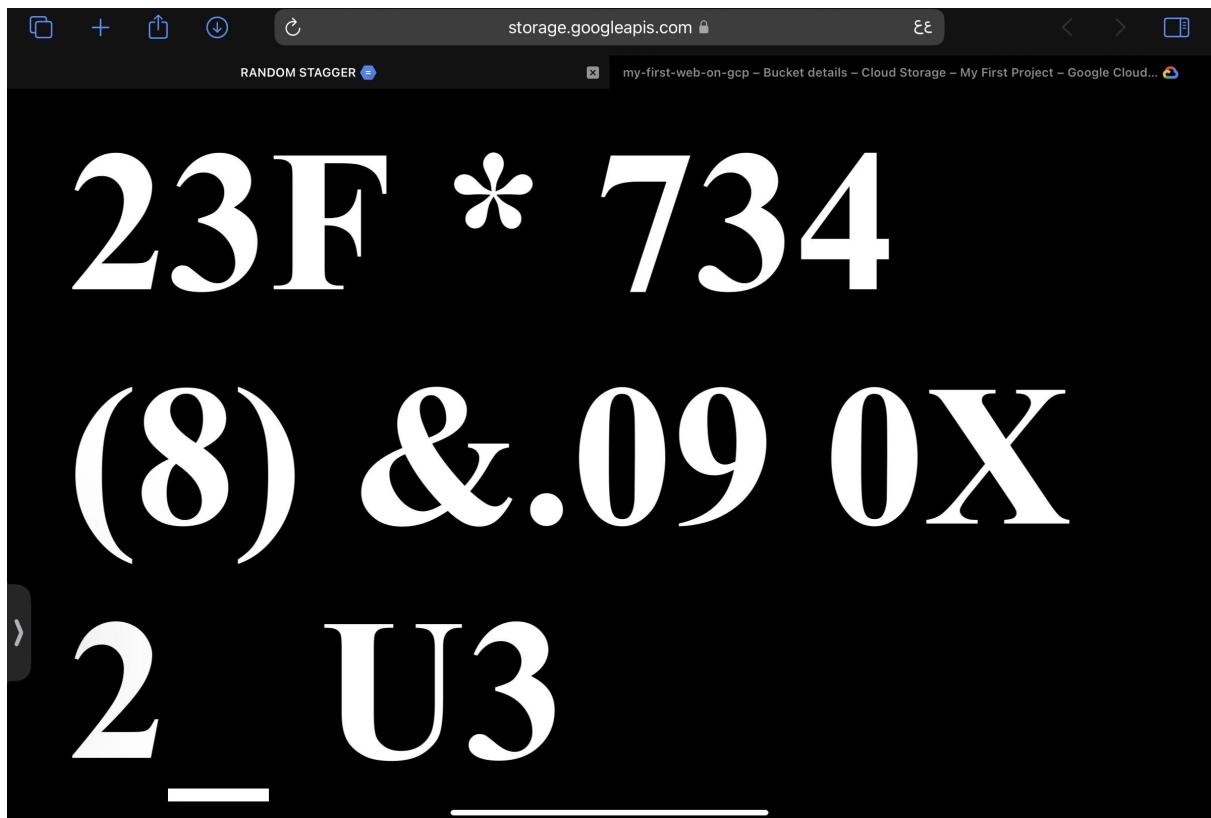
Default storage class	Last modified
Standard	Aug 8, 2023, 6:37

Manage Resources Marketplace Release Notes

Finally go to your index.html and copy the URL.

The screenshot shows the Google Cloud Platform interface. On the left, a sidebar lists 'Cloud Storage', 'Buckets' (selected), 'Monitoring', and 'Settings'. The main area is titled 'Bucket details' for 'my-first-web-on-gcp'. It shows the bucket's location as 'me-central1 (Doha)', storage class as 'Standard', public access as 'Public to internet', and protection as 'None'. Below this, tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', and 'LIFECYCLE' are visible. Under 'OBJECTS', there are buttons for 'UPLOAD FILES', 'UPLOAD FOLDER', 'CREATE FOLDER', 'TRANSFER DATA', and 'MANAGE HOLD'. A table lists objects: 'index.html' (2 KB, text/html, created Aug 8, 2023) and 'styles.css' (1.2 KB, text/css, created Aug 8, 2023). A context menu on the right side of the table includes options like 'Copy Public URL', 'Copy Authenticated URL', 'Copy gsutil URI', 'Edit metadata', 'Edit access', 'Copy', 'Move', and 'Rename'. Below the table, there are links for 'Export to Cloud Pub/Sub' and 'Scan with Sensitive Data Protection'. At the bottom of the table, there are download and more options icons. The browser window below shows the deployed website at <https://storage.googleapis.com/my-first-web-on-gcp/index.html>. The page title is 'RANDOM STAGGER' and the URL is 'storage.googleapis.com/my-first-web-on-gcp/index.html'. The browser interface includes standard navigation buttons and a status bar with 'First Project - Google Cloud...'. Arabic text 'تقدير الخصوصية' is visible at the bottom of the browser window.

Congratulations on the first static website on GCP.



I hope that the project will help you.