



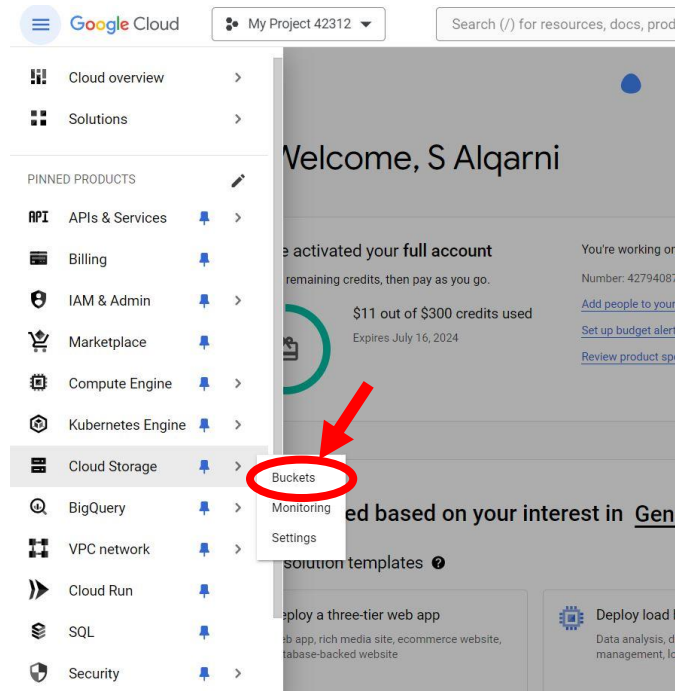
**Google Cloud platform project**

**Static website on Google Cloud (Cloud Storage)**

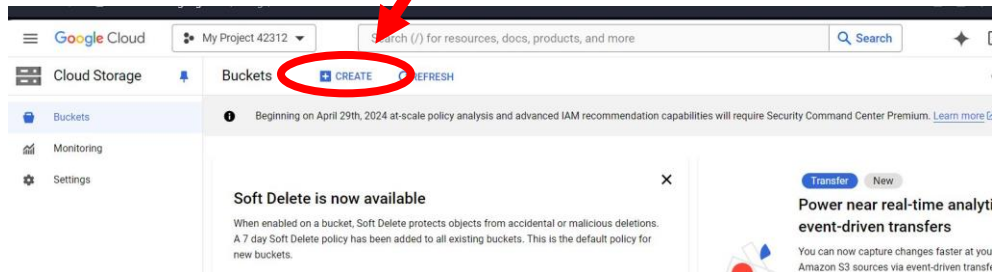
**By: Sadeem Khalid Alqarni**

## 1. Bucket Settings

Here to make Bucket (Cloud Storage > Bucket)

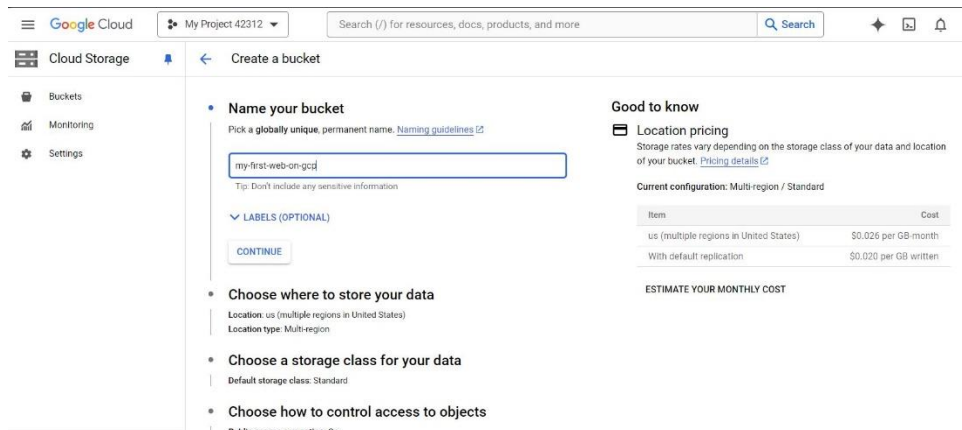


## 2. Click on Create.



## 3. The bucket settings.

Give a name for the bucket and click continue.



#### 4. choose your region.

Click on **Region** and choose your region and click on continue.

**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)

CONTINUE

#### 5. choose a Storage class for the Data.

Click on set a default class and choose standards.

**Choose where to store your data**

Location: me-central1 (Doha)  
Location type: Region

**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

CONTINUE

#### 6. Choose how to control access to objects.

Click on Fine-grained

**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

## 7. Choose how to protect object data

Choose soft delete and click Create

- 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 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.

## 8. Bucket console:

After we create the Bucket, we will upload our website from click on the upload button.

The screenshot displays the Google Cloud Storage Bucket console for a bucket named 'my-first-web-on-gcp'. The left sidebar shows navigation options: Buckets, Monitoring, and Settings. The main content area has tabs for OBJECTS, CONFIGURATION, PERMISSIONS, PROTECTION, LIFECYCLE, OBSERVABILITY, INVENTORY REPORTS, and OPERATIONS. The 'OBJECTS' tab is active, showing a table of objects. A red arrow points to the 'UPLOAD FILES' button. Below the table, a notification states '1 file successfully uploaded'.

Name	Size	Type	Created	Storage class	Last modified	Public access	Version
index.html	2.1 KB	text/html	Apr 27, 2024, 8:09:42 PM	Standard	Apr 27, 2024, 8:09:42 PM	Not public	—

Now we have to make it public

**my-first-web-on-gcp**

Location	Storage class	Public access	Protection
me-central1 (Doha)	Standard	Subject to object ACLs	Soft Delete

**OBJECTS** CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTS OPERATIONS

Buckets > my-first-web-on-gcp

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

Filter by name prefix only Filter objects and folders Show Live objects only

Name	Type	Created	Storage class	Last modified	Public access	Version history
index.html	text/html	Apr 27, 2024, 8:09:42 PM	Standard	Apr 27, 2024, 8:09:42 PM	Not public	—

## 9. Select the file and click on permissions and follow the steps: Now click on grant access

← Bucket details GO TO PATH REFRESH LE

**PERMISSIONS** OBJECTS CONFIGURATION PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTS OPERATIONS

**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

Choose from new principal **allUsers**

← Bucket details

**PERMISSIONS** OBJECTS CONFIGURATION PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTS OPERATIONS

**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**

**Permissions**

VIEW BY PRINCIPALS VIEW BY ROLES

**GRANT ACCESS** REMOVE ACCESS

Filter Enter property name or value

Type	Principal	Public access
🔗	427940878520@cloudbuild.g	Public access

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**

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

New principals \* **allUsers**

**Assign roles**

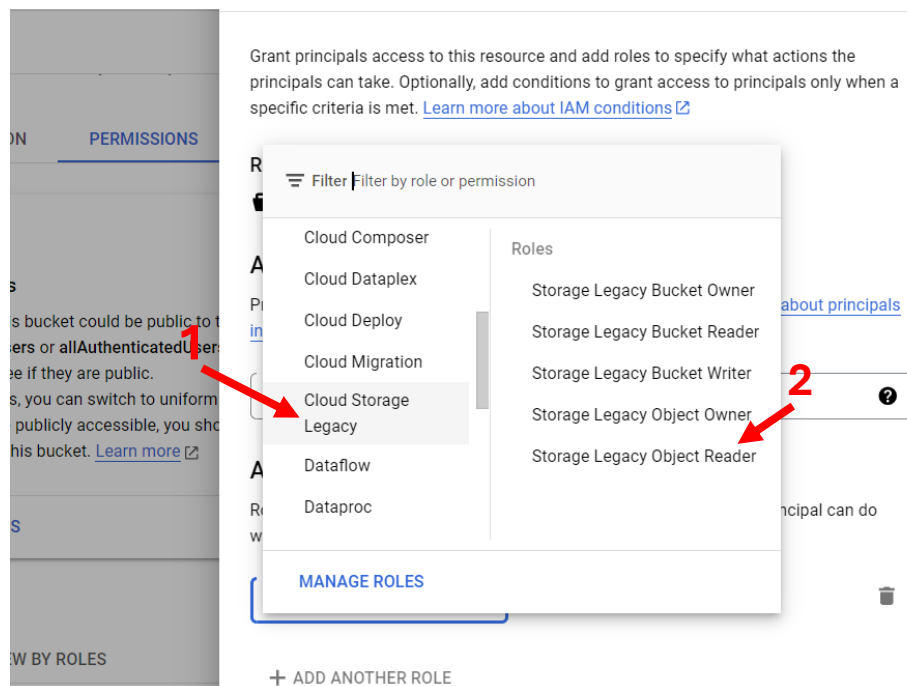
Roles are composed of sets of permissions and determine what the principal can do with this resource. [Learn more](#)

Select a role \* IAM condition (optional) IAM conditions disabled

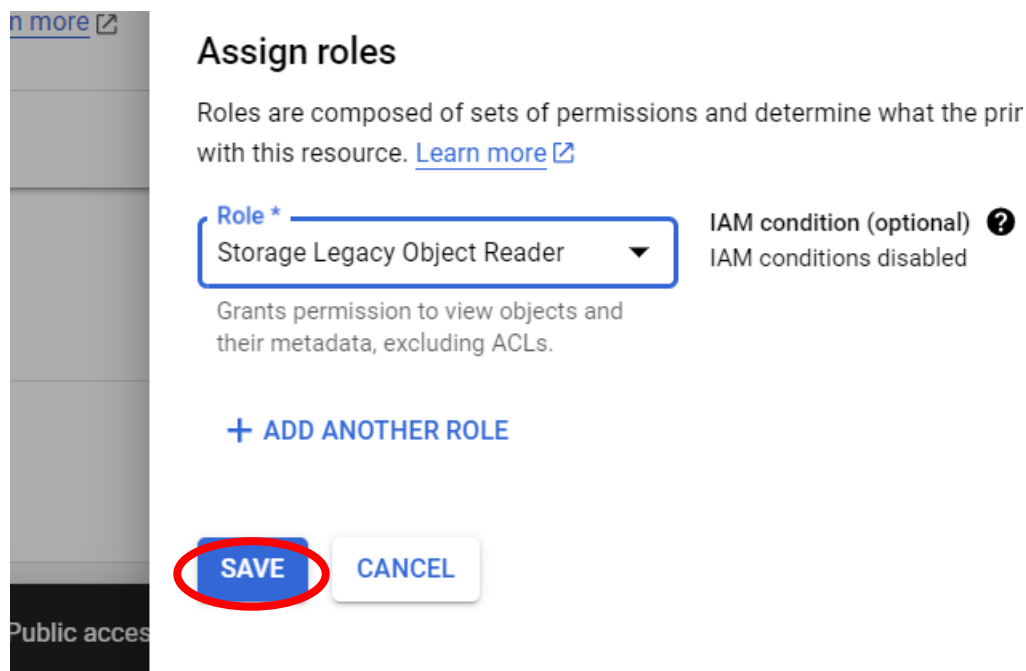
+ ADD ANOTHER ROLE

**SAVE CANCEL**

Now select the role (Cloud Storage Legacy > Storage Legacy Object Reader)



After that, save the grant access and allow public access



## 10. Get back to the objects and click refresh

as we see now the website is public

The screenshot shows the 'my-first-web-on-gcp' bucket details page. At the top, a warning 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, a table lists bucket properties: Location (me-central1 (Doha)), Storage class (Standard), Public access (Public to internet), and Protection (Soft Delete). The 'OBJECTS' tab is selected, showing a list of objects. The first object is 'index.html', which is publicly accessible. A red box highlights the 'index.html' object in the table.

Location	Storage class	Public access	Protection
me-central1 (Doha)	Standard	Public to internet	Soft Delete

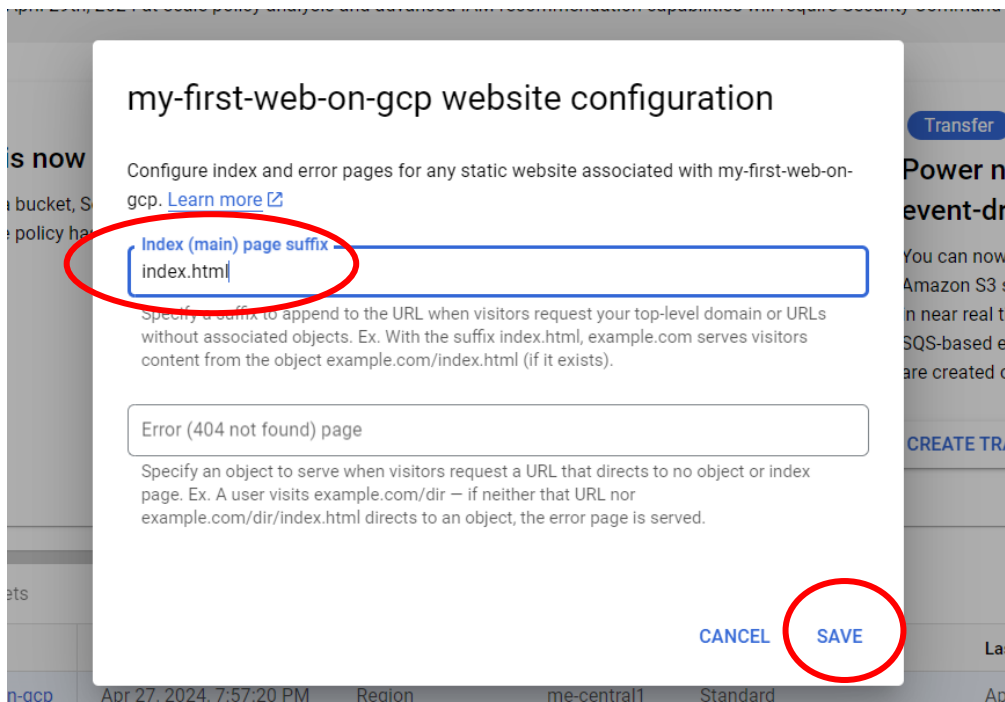
Name	Created	Public access	Version history	Encryption	Object retention
index.html	Apr 24, 8:09:42 PM	Public to internet	Copy URL	Google-managed	—

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

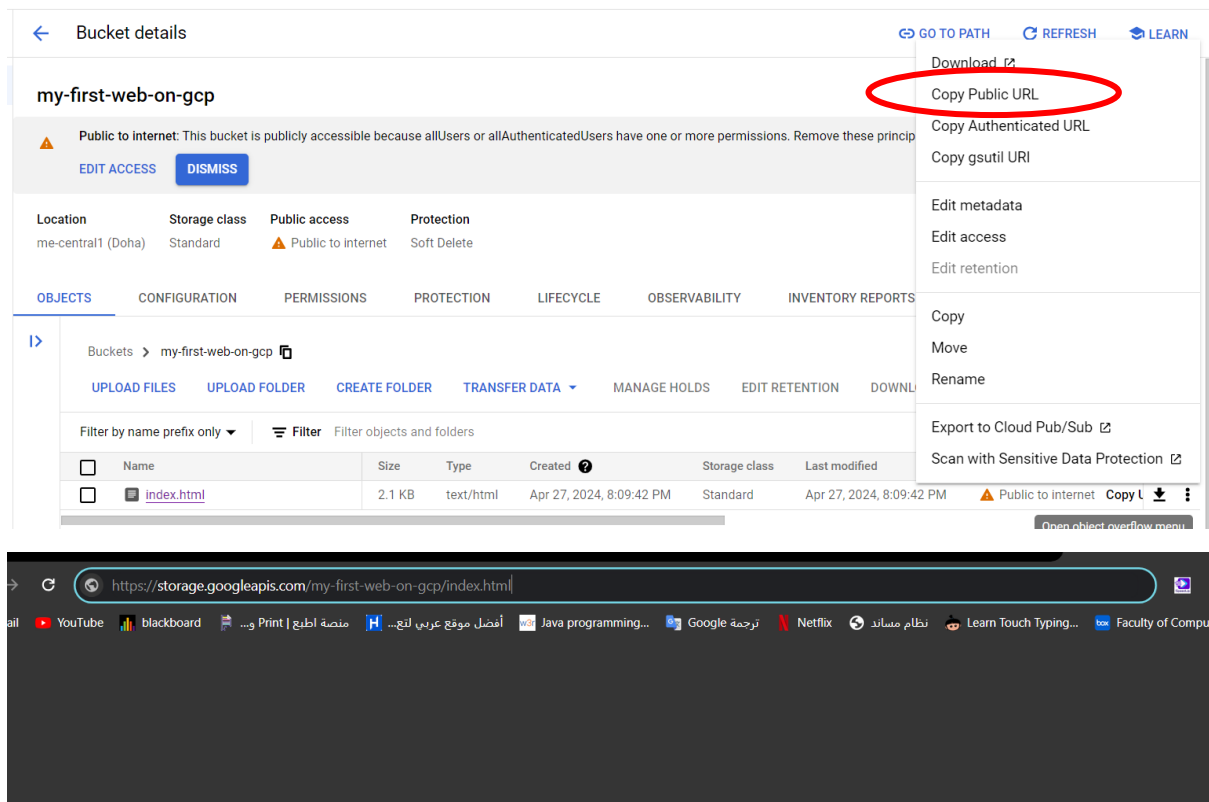
The screenshot shows the bucket details page for 'my-first-web-on-gcp'. A table lists bucket properties: Name (my-first-web-on-gcp), Created (Apr 27, 2024, 7:57:20 PM), Location type (Region), Location (me-central1), Default storage class (Standard), Last modified (Apr 27, 2024, 8:48:00 PM), Public access (Public to internet), and Access control (Fine-grained). A red circle highlights the three dots menu icon next to the bucket name. A dropdown menu is open, showing various actions. The 'Edit website configuration' option is highlighted with a red arrow.

Name	Created	Location type	Location	Default storage class	Last modified	Public access	Access control
my-first-web-on-gcp	Apr 27, 2024, 7:57:20 PM	Region	me-central1	Standard	Apr 27, 2024, 8:48:00 PM	Public to internet	Fine-grained

- 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

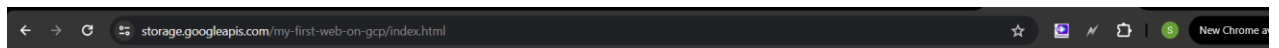


Finally, go to your index.html and copy the URL.





# Congratulations!



## 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