

# Google cloud platform project

## Deploy your static website on Google Cloud (Cloud Storage)

by Alshaimaa Alamer

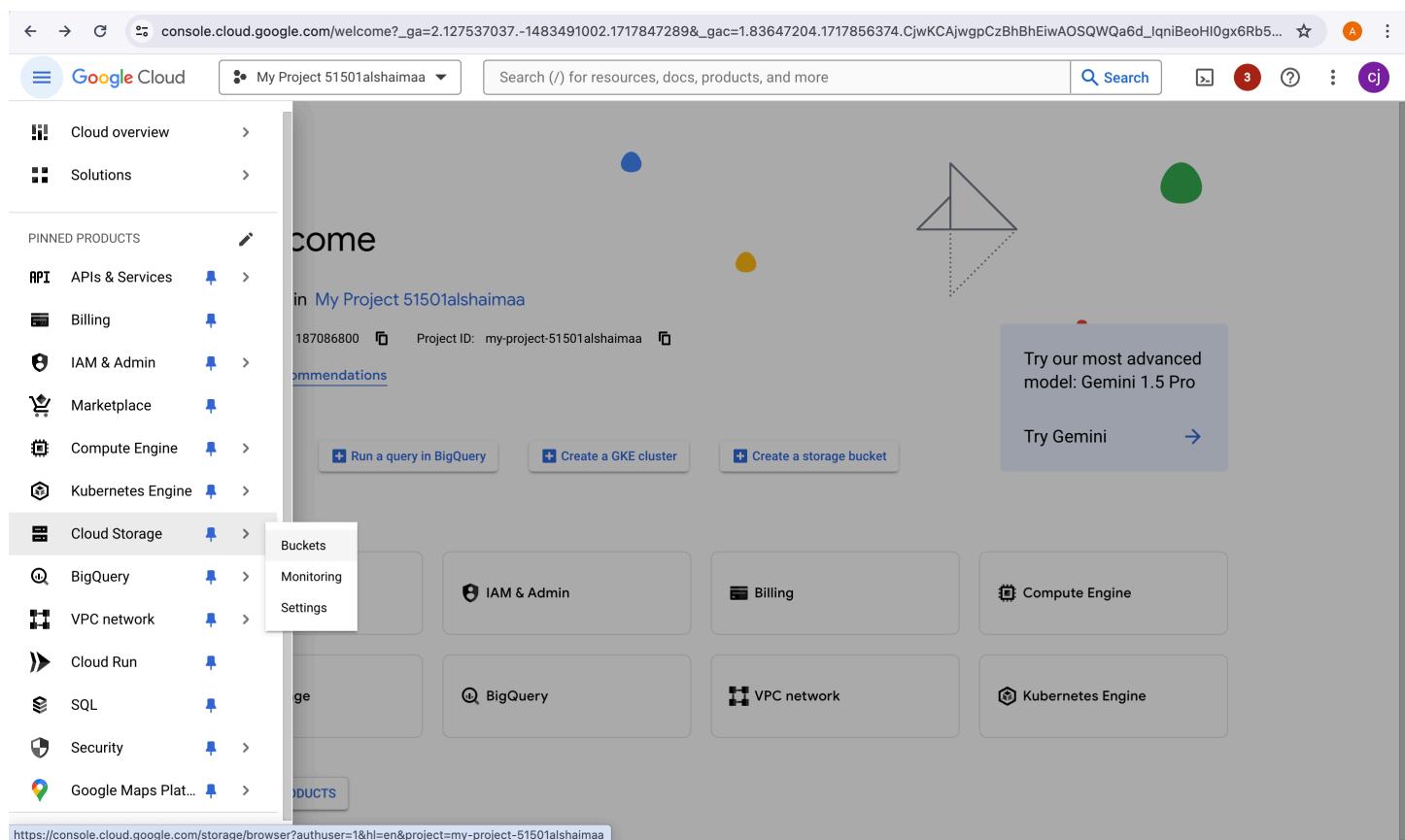
### Guidelines:

- 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.



← → ⌂ console.cloud.google.com/storage/browser?authuser=1&hl=en&project=my-project-51501alshaimaa&prefix=&forceOnBucketsSortingFiltering=true

Google Cloud My Project 51501alshaimaa Search (/) for resources, docs, products, and more

Cloud Storage Buckets + CREATE C REFRESH GO TO PATH LEARN

Buckets Monitoring Settings

Security View security recommendations Improve security by applying security recommendations to your buckets.

GET PREMIUM LEARN MORE

Filter Filter buckets

Name	Created	Location type	Location	Default storage class	Last modified	Public
<a href="#">my-first-web-gcp122</a>	Jun 8, 2024, 6:37:24 PM	Region	me-central1	Standard	Jun 8, 2024, 6:41:19 PM	Subj
<a href="#">my-first-web-gcp1222</a>	Jun 8, 2024, 6:12:42 PM	Region	me-central1	Standard	Jun 8, 2024, 6:15:00 PM	⚠ F
<a href="#">my-first-web-on-gcp1</a>	Jun 8, 2024, 5:23:43 PM	Region	me-central1	Standard	Jun 8, 2024, 5:23:43 PM	Not pri
<a href="#">my-first-web-on-gcp11</a>	Jun 8, 2024, 5:25:21 PM	Region	me-central1	Standard	Jun 8, 2024, 6:08:22 PM	⚠ F
<a href="#">my-project-51501alshaimaa.appspot.com</a>	Apr 18, 2024, 5:20:26 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:26 PM	Subj
<a href="#">staging.my-project-51501alshaimaa.app...</a>	Apr 18, 2024, 5:20:27 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:27 PM	Subj

Marketplace Release Notes

<https://console.cloud.google.com/storage/create-bucket?authuser=1&hl=en&project=my-project-51501alshaimaa>

then you hit create

← → ⌂ console.cloud.google.com/storage/browser?authuser=1&hl=en&project=my-project-51501alshaimaa&prefix=&forceOnBucketsSortingFiltering=true

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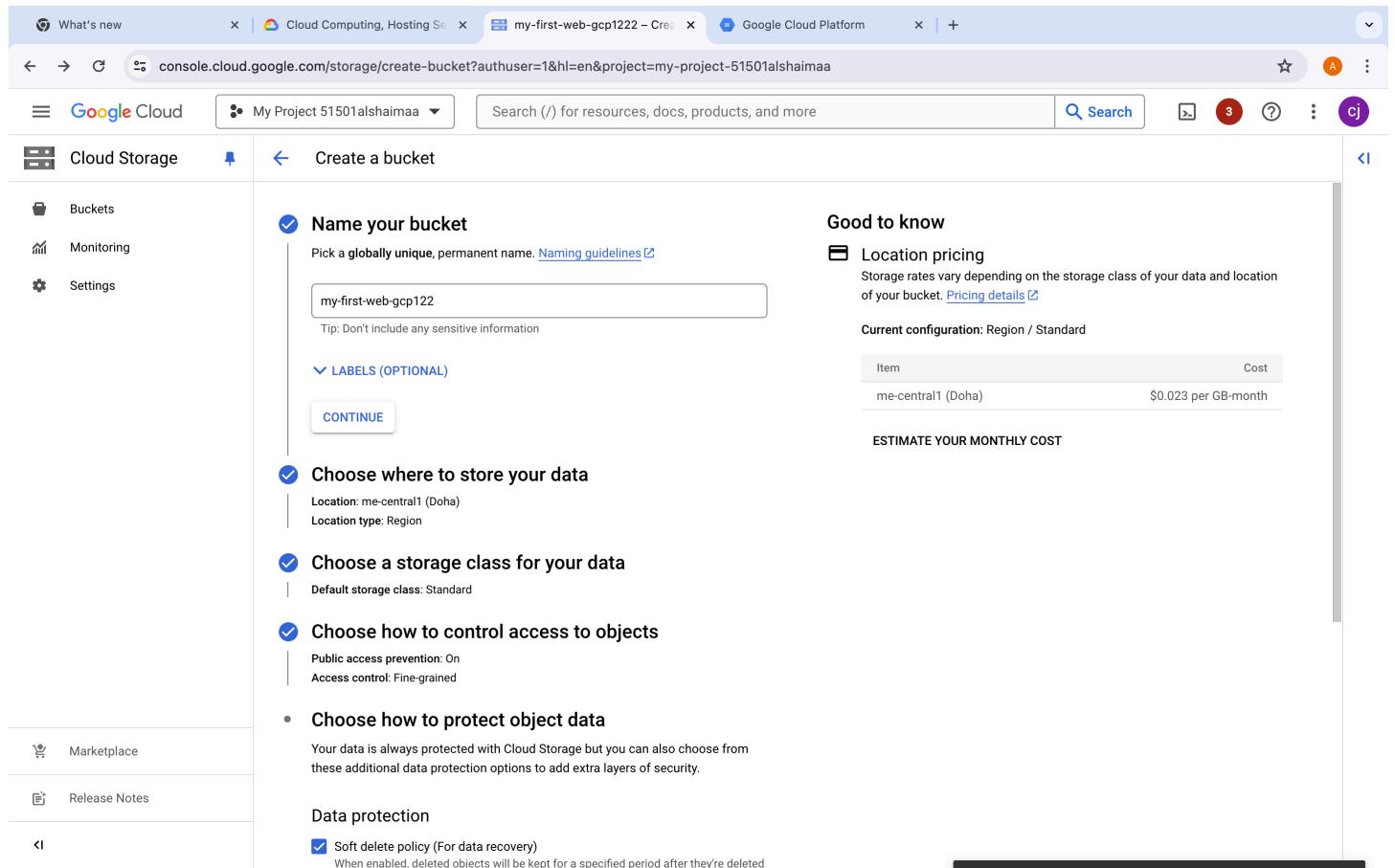
Filter Filter buckets

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<a href="#">my-first-web-on-gcp11</a>	Jun 8, 2024, 5:25:21 PM	Region	me-central1	Standard	Jun 8, 2024, 6:08:22 PM	⚠ F
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<a href="#">staging.my-project-51501alshaimaa.app...</a>	Apr 18, 2024, 5:20:27 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:27 PM	Subj

Marketplace Release Notes

<https://console.cloud.google.com/storage/create-bucket?authuser=1&hl=en&project=my-project-51501alshaimaa>

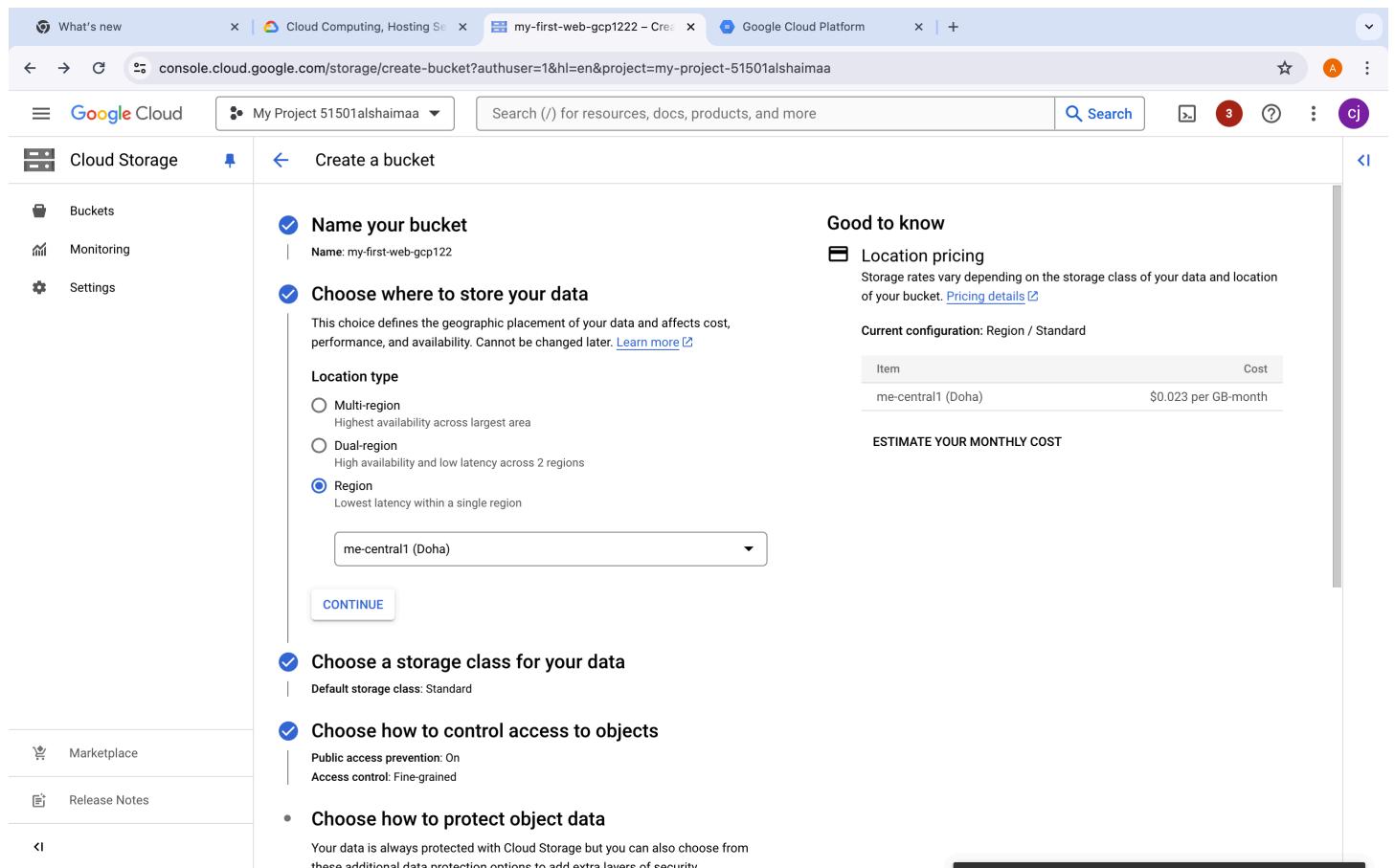
# The bucket settings.



This screenshot shows the first step of the 'Create a bucket' wizard in the Google Cloud Platform. The left sidebar shows 'Cloud Storage' selected. The main area has a title 'Create a bucket' and several configuration steps:

- Name your bucket**: A checked checkbox. Below it, a text input field contains 'my-first-web-gcp122'. A tip below the field says 'Tip: Don't include any sensitive information'. A 'CONTINUE' button is at the bottom of this section.
- Choose where to store your data**: A checked checkbox. Below it, it says 'Location: me-central1 (Doha)' and 'Location type: Region'.
- Choose a storage class for your data**: A checked checkbox. Below it, it says 'Default storage class: Standard'.
- Choose how to control access to objects**: A checked checkbox. Below it, it says 'Public access prevention: On' and 'Access control: Fine-grained'.
- Choose how to protect object data**: An unchecked bullet point. Below it, it says '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.' A 'Data protection' section shows a checked checkbox for 'Soft delete policy (For data recovery)'. A note below it says 'When enabled, deleted objects will be kept for a specified period after they're deleted'.

**Good to know** and **Location pricing** sections are on the right, along with an 'ESTIMATE YOUR MONTHLY COST' table.



This screenshot shows the same 'Create a bucket' wizard step as the previous one, but with different location settings. The 'Location type' section shows 'Region' selected, with 'me-central1 (Doha)' chosen in a dropdown menu. The rest of the configuration steps and the right-hand sections are identical to the first screenshot.

What's new | Cloud Computing, Hosting Services | my-first-web-gcp1222 - Create | Google Cloud Platform

console.cloud.google.com/storage/create-bucket?authuser=1&hl=en&project=my-project-51501alshaimaa

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Cloud Storage Create a bucket

Name: my-first-web-gcp122

**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**

**Choose how to control access to objects**

Public access prevention: On

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

Cloud Computing, Hosting Services | Create a bucket - Cloud Storage | +

console.cloud.google.com/storage/create-bucket?authuser=1&hl=en&project=my-project-51501alshaimaa

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Cloud Storage Create a bucket

Location type: 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**

**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**

Screenshot of the Google Cloud Storage 'Create a bucket' interface.

The left sidebar shows 'Google Cloud' and 'Cloud Storage' selected. Under 'Cloud Storage', there are links for 'Buckets', 'Monitoring', and 'Settings'. The main area is titled 'Create a bucket' and includes the following sections:

- CHOOSE A STORAGE CLASS FOR YOUR DATA**: Default storage class: Standard. Location: me-central1 (Doha). Cost: \$0.023 per GB-month.
- Choose how to control access to objects**: Public access prevention: On. Access control: Fine-grained.
- Estimate your monthly cost**
- 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) is checked. Description: 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 is set to 7 days.
  - Object versioning (For version control)**: Description: 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)**: Description: For preventing the deletion or modification of the bucket's objects for a specified period of time.
- DATA ENCRYPTION**

At the bottom are 'CREATE' and 'CANCEL' buttons.

Then hit create, then conform.

to do the public access

Screenshot of the Google Cloud Storage 'Bucket details' interface for the 'my-first-web-on-gcp11' bucket.

The left sidebar shows 'Google Cloud' and 'Cloud Storage' selected. Under 'Cloud Storage', there are links for 'Buckets', 'Monitoring', and 'Settings'. The main area is titled 'Bucket details' for 'my-first-web-on-gcp11'.

Bucket details summary:

- Location: me-central1 (Doha)
- Storage class: Standard
- Public access: Not public
- Protection: Soft Delete

The 'OBJECTS' tab is selected, showing the following interface:

- Breadcrumbs: Buckets > my-first-web-on-gcp11
- Action buttons: UPLOAD FILES, UPLOAD FOLDER, CREATE FOLDER, TRANSFER DATA, MANAGE HOLDS, EDIT RETENTION, DOWNLOAD, DELETE
- Filter: Filter by name prefix only, Filter objects and folders, Show Live objects only
- Table headers: Name, Size, Type, Created, Storage class, Last modified, Public access, Version history, Encryption, Object retention retain until time
- Message: No rows to display

A modal at the bottom right says 'Created bucket my-first-web-on-gcp11'.

Cloud Computing, Hosting Services > my-first-web-on-gcp11 – Buckets

console.cloud.google.com/storage/browser?authuser=1&hl=en&project=my-project-51501alshaimaa&prefix=&forceOnBucketsSortingFiltering=true

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Cloud Storage Buckets + CREATE C REFRESH GO TO PATH LEARN

Buckets Monitoring Settings Marketplace Release Notes

View security recommendations Improve security by applying security recommendations to your buckets.

GET PREMIUM LEARN MORE

Filter buckets

Name ↑	Created	Location type	Location	Default storage class	Last modified	Public
<a href="#">my-first-web-on-gcp1</a>	Jun 8, 2024, 5:23:43 PM	Region	me-central1	Standard	Jun 8, 2024, 5:23:43 PM	Not public
<a href="#">my-first-web-on-gcp11</a>	Jun 8, 2024, 7:05:44 PM	Region	me-central1	Standard	Jun 8, 2024, 7:05:44 PM	Not public
<a href="#">my-project-51501alshaimaa.appspot.com</a>	Apr 18, 2024, 5:20:26 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:26 PM	Subject to Google Terms
<a href="#">staging.my-project-51501alshaimaa.appspot.com</a>	Apr 18, 2024, 5:20:27 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:27 PM	Subject to Google Terms

Created bucket my-first-web-on-gcp11

Cloud Computing, Hosting Services > my-first-web-on-gcp11 – Buckets

console.cloud.google.com/storage/browser?authuser=1&hl=en&project=my-project-51501alshaimaa&prefix=&forceOnBucketsSortingFiltering=true

Google Cloud My Project 51501alshaimaa Search (/) for resources, docs, products, and more Q s Edit access

Cloud Storage Buckets + CREATE C REFRESH

Buckets Monitoring Settings Marketplace Release Notes

View security recommendations Improve security by applying security recommendations to your buckets.

GET PREMIUM LEARN MORE

Filter buckets

Name ↑	Created	Location type	Location	Default storage class	Last modified	Public
<a href="#">my-first-web-on-gcp1</a>	Jun 8, 2024, 5:23:43 PM	Region	me-central1	Standard	Jun 8, 2024, 5:23:43 PM	Not public
<a href="#">my-first-web-on-gcp11</a>	Jun 8, 2024, 7:05:44 PM	Region	me-central1	Standard	Jun 8, 2024, 7:05:44 PM	Not public
<a href="#">my-project-51501alshaimaa.appspot.com</a>	Apr 18, 2024, 5:20:26 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:26 PM	Subject to Google Terms
<a href="#">staging.my-project-51501alshaimaa.appspot.com</a>	Apr 18, 2024, 5:20:27 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:27 PM	Subject to Google Terms

Created bucket my-first-web-on-gcp11

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

The screenshot shows the Google Cloud Storage console for the project 'my-project-51501alshaimaa'. A new bucket named 'my-first-web-on-gcp1' has been created. The permissions page is open, showing 'Public access' set to 'Not public' and 'Access control' with 'Fine-grained: Object-level ACLs enabled'. The bucket list table shows four buckets: 'my-first-web-on-gcp1' (selected), 'my-first-web-on-gcp11', 'my-project-51501alshaimaa.appspot.com', and 'staging.my-project-51501alshaimaa.app...'. A notification at the bottom indicates the creation of the bucket.

Name	Created	Location type
<a href="#">my-first-web-on-gcp1</a>	Jun 8, 2024, 5:23:43 PM	Region
<a href="#">my-first-web-on-gcp11</a>	Jun 8, 2024, 7:05:44 PM	Region
<a href="#">my-project-51501alshaimaa.appspot.com</a>	Apr 18, 2024, 5:20:26 PM	Multi-region
<a href="#">staging.my-project-51501alshaimaa.app...</a>	Apr 18, 2024, 5:20:27 PM	Multi-region

then conform

you go back to your project by clicking on it

The screenshot shows the Google Cloud Storage console interface. At the top, there's a navigation bar with tabs for 'Cloud Computing, Hosting Services' and 'my-first-web-on-gcp11 – Cloud Storage'. Below the navigation is a search bar and a 'Search' button. The main area is titled 'Cloud Storage' and shows '1 bucket selected'. There are buttons for 'DELETE', 'PERMISSIONS', 'TAGS', and 'LABELS'. A sidebar on the left has links for 'Buckets', 'Monitoring', and 'Settings'. A modal window titled 'View security recommendations' is open, featuring a lock icon and a message: 'Improve security by applying security recommendations to your buckets.' It includes 'GET PREMIUM' and 'LEARN MORE' buttons. The main table lists four buckets:

Name	Created	Location type	Location	Default storage class	Last modified	Public
<a href="#">my-first-web-on-gcp1</a>	Jun 8, 2024, 5:23:43 PM	Region	me-central1	Standard	Jun 8, 2024, 7:09:37 PM	Subject to review
<a href="#">my-first-web-on-gcp11</a>	Jun 8, 2024, 7:05:44 PM	Region	me-central1	Standard	Jun 8, 2024, 7:05:44 PM	Not public
<a href="#">my-project-51501alshaimaa.appspot.com</a>	Apr 18, 2024, 5:20:26 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:26 PM	Subject to review
<a href="#">staging.my-project-51501alshaimaa.app...</a>	Apr 18, 2024, 5:20:27 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:27 PM	Subject to review

At the bottom left, there are links for 'Marketplace' and 'Release Notes'. The URL in the address bar is <https://console.cloud.google.com/storage/browser/my-first-web-on-gcp1;tab=objects?forceOnBucketsSortingFiltering=true&authuser=1&hl=en&project=my-project-51501alshaimaa>.

## Bucket console:

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

The screenshot shows the Google Cloud Storage interface. On the left, a sidebar menu includes 'Buckets', 'Monitoring', and 'Settings'. The main area displays the 'my-first-web-on-gcp1' bucket details. It shows the location as 'me-central1 (Doha)', storage class as 'Standard', public access as 'Subject to object ACLs', and protection as 'None'. Below this, there are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', 'LIFECYCLE', 'OBSERVABILITY', 'INVENTORY REPORTS', and 'OPERATIONS'. The 'OBJECTS' tab is selected, showing a list of objects under 'my-first-web-on-gcp1'. The list is currently empty, displaying the message 'No rows to display'. At the bottom of the list, there is a large circular icon with a plus sign and a document icon.

Click on permissions and follow the steps.

The screenshot shows the same Google Cloud Storage interface as before, but now with a file named 'index.html' listed in the 'OBJECTS' section. The file details are: Name: index.html, Size: 2.1 KB, Type: text/html, Created: Jun 8, 2024, 7:12:40 PM, Storage class: Standard, Last modified: Jun 8, 2024, 7:12:40 PM, Public access: Not public. A success message at the bottom of the list says '1 file successfully uploaded'.

After you select the files click on permissions and click on

## Grant access.

The screenshot shows the Google Cloud Storage Bucket details page for 'my-first-web-on-gcp1'. The 'PERMISSIONS' tab is selected. The 'Public access' section indicates 'None' and provides instructions for granting access to 'allUsers' or 'allAuthenticatedUsers'. The 'Access control' section states 'Fine-grained: Object-level ACLs enabled' and offers a 'SWITCH TO UNIFORM' option. Below this, the 'Permissions' section shows a table of principals and their roles:

Type	Principal	Name	Role	Inheritance
<input type="checkbox"/>	Editors of project: my-project-51501alshaimaa		Storage Legacy Bucket Owner	
<input type="checkbox"/>	Owners of project: my-project-51501alshaimaa		Storage Legacy Bucket Owner	

## New principal choose allUsers.

The screenshot shows the 'Grant access to "my-first-web-on-gcp1"' dialog. It includes sections for 'Resource' (set to 'my-first-web-on-gcp1'), 'Add principals' (with a field containing 'allUsers'), and 'Assign roles' (with a dropdown set to 'Storage Legacy Object Reader'). The 'Assign roles' section also includes an 'IAM condition (optional)' field and a note about grants for objects and metadata. At the bottom are 'SAVE' and 'CANCEL' buttons.

Now select the role.

The screenshot shows the Google Cloud Storage Bucket details page for a bucket named "my-first-web-on-gcp1". The left sidebar shows "Cloud Storage" selected under "Buckets". The main area displays the "Permissions" section, specifically the "VIEW BY ROLES" tab. A modal dialog titled "Grant access to 'my-first-web-on-gcp1'" is open, listing various Google services and their corresponding IAM roles. The "Cloud Storage Legacy" role is selected. The right side of the dialog provides a detailed description of the "Storage Legacy Object Reader" role, stating it grants permission to view objects and their metadata. At the bottom of the dialog are "SAVE" and "CANCEL" buttons.

After that “save” the Grant access then “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-gcp1'. The left sidebar has 'Buckets' selected. The main area shows the bucket configuration with 'Location: me-central1 (Doha)', 'Storage class: Standard', 'Public access: Public to internet' (warning icon), and 'Protection: None'. Below this is a table of objects:

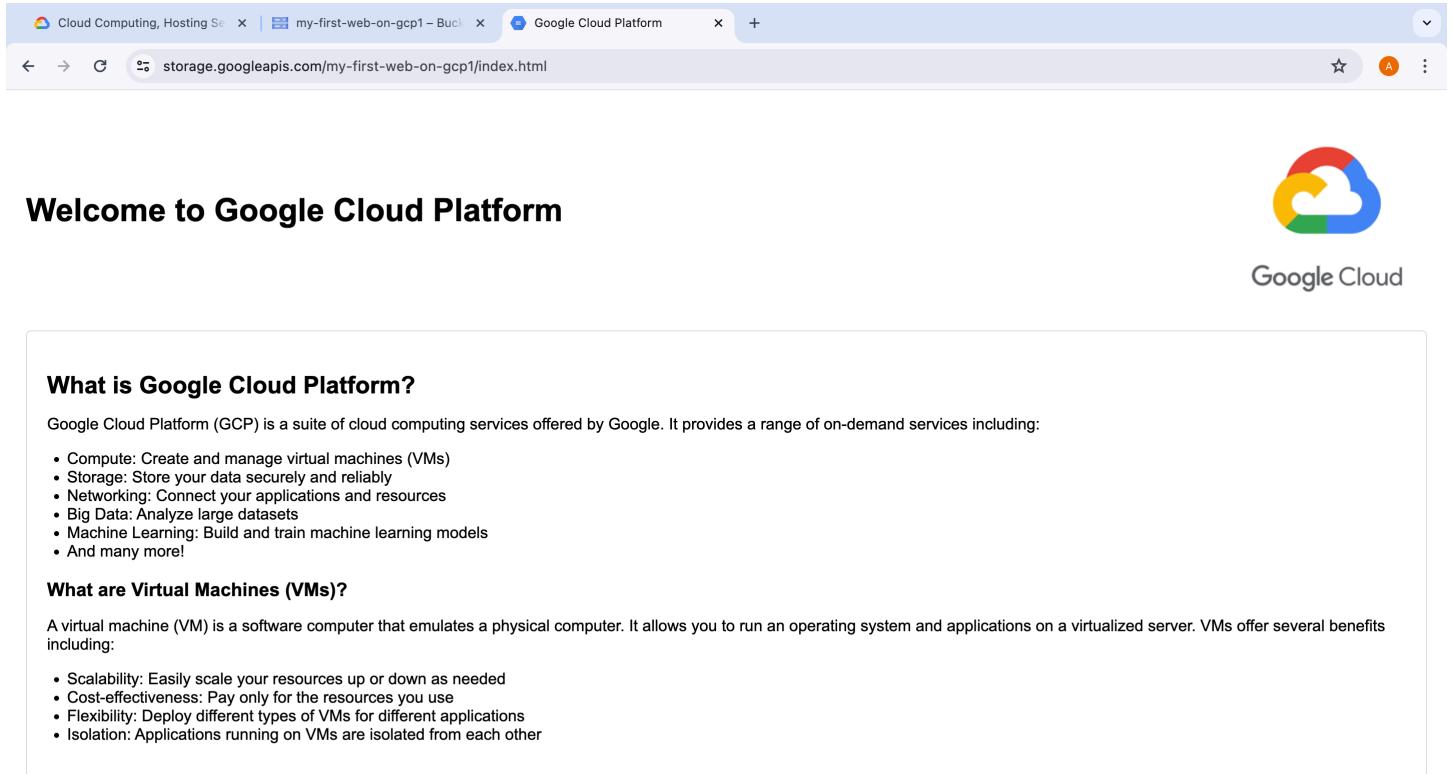
Name	Size	Type	Created	Storage class	Last modified	Public access
index.html	2.1 KB	text/html	Jun 8, 2024, 7:12:40 PM	Standard	Jun 8, 2024, 7:12:40 PM	Public to internet

A message 'Policy updated' is displayed in a toast at the bottom.

then copy URL

The screenshot shows the same Google Cloud Storage 'Bucket details' page for 'my-first-web-on-gcp1'. The 'index.html' object row now includes a 'Copy URL' button next to the public access link. A tooltip 'Copy public URL' is shown over this button. The rest of the interface is identical to the first screenshot.

then we past it on the browser



The screenshot shows a web browser window with three tabs open. The active tab is titled "storage.googleapis.com/my-first-web-on-gcp1/index.html". The page content is the "Welcome to Google Cloud Platform" page. It features the Google Cloud logo (a stylized multi-colored cloud icon) and the text "Google Cloud". Below this, there is a section titled "What is Google Cloud Platform?" followed by a list of services. Another section titled "What are Virtual Machines (VMs)?" is also present. At the bottom left, there is a copyright notice: "© 2024 Google Cloud Platform".

**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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