

Google cloud platform project

Deploy your static website on Google Cloud (Cloud Storage)

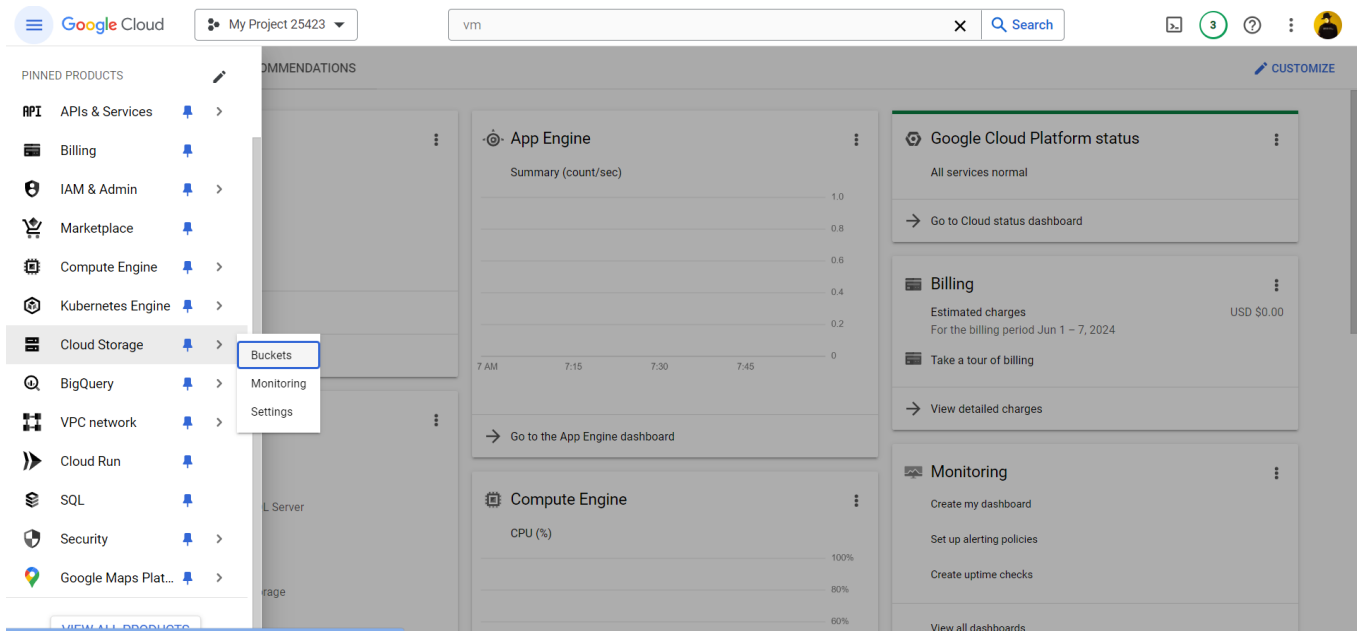
by Abdulrahman Bawazeer

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

Bucket settings:

here you make your first Bucket.



And click on create.

The screenshot shows the Google Cloud console interface for the 'My Project 25423'. The 'Cloud Storage' section is active, and the 'Buckets' tab is selected. A banner at the top indicates that beginning on April 29th, 2024, at-scale policy analysis and advanced IAM recommendation capabilities will require Security Command Center Premium. Below the banner, a 'View security recommendations' card is displayed, suggesting improvements to bucket security. The main content area shows a table of buckets with columns for Name, Created, Location type, Location, Default storage class, Last modified, and Public access. The table lists three buckets: 'centered-song-420514.appspot.com', 'staging.centered-song-420514.appspot.com', and 'web-ss'. The left sidebar contains links to Buckets, Monitoring, and Settings. The bottom of the sidebar has links to Marketplace and Release Notes.

Name	Created	Location type	Location	Default storage class	Last modified	Public access
centered-song-420514.appspot.com	Apr 18, 2024, 5:20:24 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:24 PM	Subject to object ACLs
staging.centered-song-420514.appspot.com	Apr 18, 2024, 5:20:25 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:25 PM	Subject to object ACLs
web-ss	Apr 18, 2024, 4:41:18 PM	Multi-region	us	Standard	Apr 18, 2024, 4:50:09 PM	Public to internet

The bucket settings.

The screenshot shows the 'Create a bucket' wizard in the Google Cloud console. The wizard is divided into several sections: 'Name your bucket', 'Choose where to store your data', 'Choose a storage class for your data', 'Choose how to control access to objects', and 'Choose how to protect object data'. The 'Name your bucket' section is currently active, showing a text input field with the value 'google-project'. To the right, a 'Good to know' section provides information about location pricing, including a table of storage rates. The 'Current configuration' is shown as 'Multi-region / Standard'. The 'ESTIMATE YOUR MONTHLY COST' section is also visible.

Name your bucket
Pick a globally unique, permanent name. [Naming guidelines](#)
google-project
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

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

ESTIMATE YOUR MONTHLY COST

Choose the region.

←

→

↺

console.cloud.google.com/storage/create-bucket?project=centered-song-420514

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Google Cloud

My Project 25423

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🔍 Search

📄 3

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⋮

👤

☰ Cloud Storage

📁 Buckets

📊 Monitoring

⚙️ Settings

🛒 Marketplace

📄 Release Notes

⏪

← Create a bucket

⏪

✓ Name your bucket

| Name: dx-project

✓ 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

| Default storage class: Standard

• Choose how to control access to objects

| Prevent public access

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

☰ Cloud Storage

📁 Buckets

📊 Monitoring

⚙️ Settings

🛒 Marketplace

📄 Release Notes

⏪

← Create a bucket

⏪

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

CONTINUE

Google Cloud My Project 25423 vm Search

Cloud Storage Create a bucket

Buckets Monitoring Settings

ESTIMATE YOUR MONTHLY COST

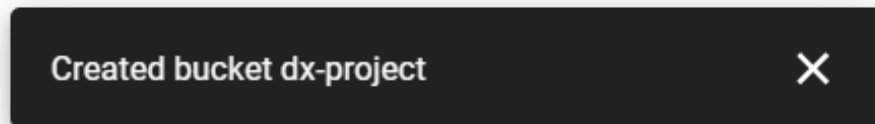
- Choose how to control access to objects
 - Prevent public access
 - Restrict data from being publicly accessible via the internet. Will prevent this bucket from being used for web hosting. [Learn more](#)
 - ☒ Enforce public access prevention on this bucket
 - Access control
 - ☐ Uniform
 - Ensure 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

Now click create.



Bucket console:

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

Google Cloud My Project 25423 vm Search

Cloud Storage Bucket details

Buckets Monitoring Settings

GO TO PATH REFRESH LEARN

dx-project

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

OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTS OPERATIONS

Folder browser

dx-project

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	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption
No rows to display								

Created bucket dx-project

←

Bucket details

GO TO PATH

REFRESH

LEARN

dx-project

Location

me-central1 (Doha)

Storage class

Standard

Public access

Subject to object ACLs

Protection

None

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

OBSERVABILITY

INVENTORY REPORTS

OPERATIONS

Folder browser

dx-project

Buckets > dx-project

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	
<input type="checkbox"/>	 index.html	2.1 KB	text/html	Jun 8, 2024, 8:06:23 AM	Standard	Jun 8, 2024, 8:0	 

1 file successfully uploaded

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

←

Bucket details

GO TO PATH

REFRESH

LEARN

dx-project

Location

me-central1 (Doha)

Storage class

Standard

Public access

Subject to object ACLs

Protection

None

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

OBSERVABILITY

INVENTORY REPORTS

OPERATIONS

Folder browser

dx-project

Buckets > dx-project

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	
<input type="checkbox"/>	 index.html	2.1 KB	text/html	Jun 8, 2024, 8:06:23 AM	Standard	Jun 8, 2024, 8:0	 

1 file successfully uploaded

Click on permissions and follow the steps.

The screenshot shows the Google Cloud Storage 'Bucket details' page for a bucket named 'dx-project' in the 'me-central1 (Doha)' location. The 'OBJECTS' tab is selected, displaying a table of objects. A file named 'index.html' is listed with a last modified date of 'Jun 8, 2024, 8:06:23 AM'. A notification at the bottom states '1 file successfully uploaded'.

Name	Last modified	Public access	Version history	Encryption	Object retention retain until time	Refer
index.html	Jun 8, 2024, 8:06:23 AM	Not public	—	Google-managed	—	—

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

The screenshot shows the 'PERMISSIONS' tab of the 'Bucket details' page. It displays two main sections: 'Public access' and 'Access control'. The 'Public access' section is set to 'Subject to object ACLs'. The 'Access control' section is set to 'Fine-grained: Object-level ACLs enabled'. Below these sections is the 'Permissions' table, which is currently empty. A notification at the bottom states '1 file successfully uploaded'.

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](#)

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](#)

Permissions

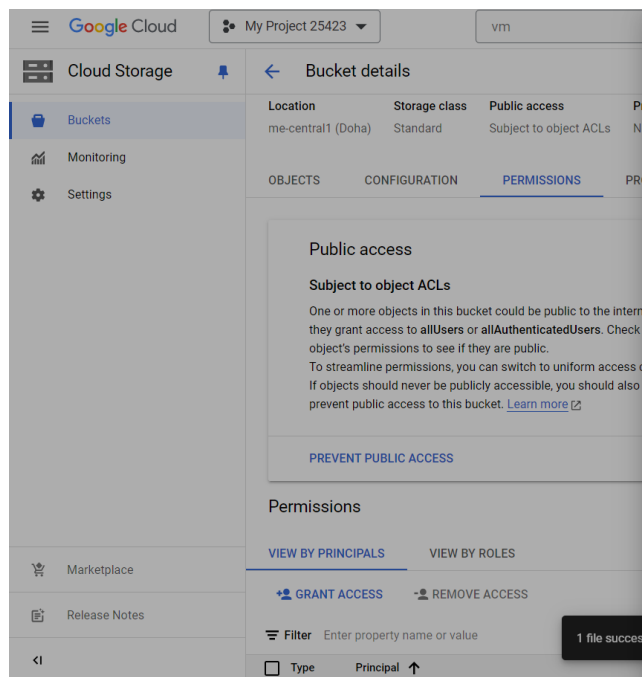
[VIEW BY PRINCIPALS](#) [VIEW BY ROLES](#)

[+ GRANT ACCESS](#) [- REMOVE ACCESS](#)

Filter: Enter property name or value

Type	Principal	Name	Role	Inheritance
------	-----------	------	------	-------------

New principal choose **allUsers**.



Grant access to "dx-project"

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

dx-project

Add principals

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

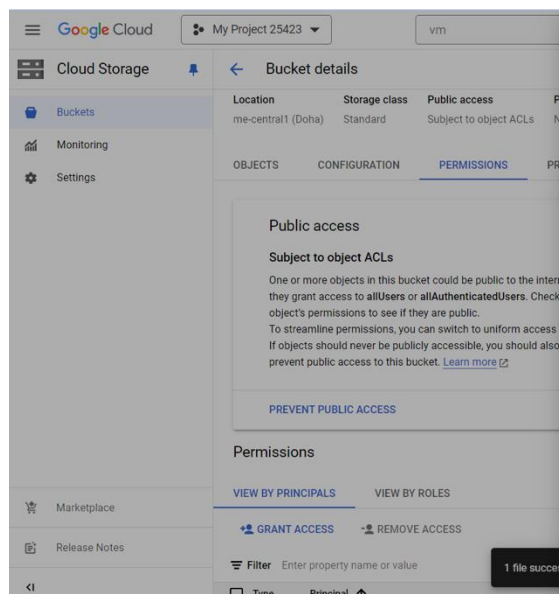
New principals *
allUsers

Assign roles

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

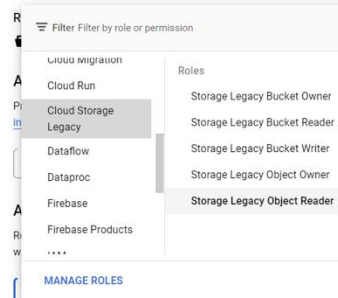
SAVE CANCEL

Now select the role.



Grant access to "dx-project"

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](#)



+ ADD ANOTHER ROLE

SAVE CANCEL

After that save the Grant access.

The image consists of two screenshots of the Google Cloud console interface, showing the process of granting access to a bucket.

Top Screenshot: The 'Grant access to "dx-project"' dialog is open. The 'Resource' is 'dx-project'. Under 'Add principals', 'allUsers' is selected. Under 'Assign roles', 'Storage Legacy Object Reader' is selected. The 'SAVE' button is highlighted.

Bottom Screenshot: The same dialog is shown, but a confirmation modal is displayed in the foreground. The modal asks: "Are you sure you want to make this resource public?". It includes a warning: "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." The modal has 'CANCEL' and 'ALLOW PUBLIC ACCESS' buttons.

Get back to Objects and click refresh.

The screenshot shows the Google Cloud Storage 'Bucket details' page for a bucket named 'dx-project'. A prominent warning banner at the top 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, the bucket's metadata is displayed: Location (me-central1 (Doha)), Storage class (Standard), Public access (Public to internet), and Protection (None). The 'OBJECTS' tab is selected, showing a table with one object: 'index.html' (2.1 KB, text/html, created on Jun 8, 2024, 8:06:23 AM). The 'Public access' column for this object shows a warning icon and the text 'Public to internet'. The left sidebar contains navigation links for Buckets, Monitoring, and Settings. The top navigation bar includes the Google Cloud logo, project name 'My Project 25423', a search bar, and user profile icons.

As we see now the website is public

This screenshot is identical to the one above, showing the 'Bucket details' page for 'dx-project'. It confirms the bucket's public status with the same warning banner and object list. The 'index.html' object is clearly marked as 'Public to internet'. The interface elements, including the sidebar, top navigation, and tabs, are consistent with the previous view.

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

Google Cloud

My Project 25423

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

Search

3

Cloud Storage

Buckets

CREATE

REFRESH

GO TO PATH

LEARN

Buckets

Monitoring

Settings

Marketplace

Release Notes

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

DISMISS

Security

View security recommendations

Improve security by applying security recommendations to your buckets.

GET PREMIUM

LEARN MORE

Filter

Filter buckets

<input type="checkbox"/>	Name ↑	Created	Location type	Location	Default storage class	Last modified	Public access	
<input type="checkbox"/>	centered-song-420514.appspot.com	Apr 18, 2024, 5:20:24 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:24 PM	Subject to object ACLs	
<input type="checkbox"/>	dx-project	Jun 8, 2024, 8:04:14 AM	Region	me-central1	Standard	Jun 8, 2024, 8:11:26 AM	Public to internet	
<input type="checkbox"/>	staging.centered-song-420514.appspot.com	Apr 18, 2024, 5:20:25 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:25 PM		More actions for dx-project
<input type="checkbox"/>	web-ss	Apr 18, 2024, 4:41:18 PM	Multi-region	us	Standard	Apr 18, 2024, 4:50:09 PM	Public to internet	

Marketplace

Release Notes

Google Cloud

My Project 25423

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

Search

3

Cloud Storage

Buckets

CREATE

REFRESH

GO TO PATH

LEARN

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<input type="checkbox"/>	dx-project	Jun 8, 2024, 8:04:14 AM	Region	me-central1	Standard	Jun 8, 2024, 8:11:26 AM	Public to internet	
<input type="checkbox"/>	staging.centered-song-420514.appspot.com	Apr 18, 2024, 5:20:25 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:25 PM		More actions for dx-project
<input type="checkbox"/>	web-ss	Apr 18, 2024, 4:41:18 PM	Multi-region	us	Standard	Apr 18, 2024, 4:50:09 PM	Public to internet	

Marketplace

Release Notes

Google Cloud

My Project 25423

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

Search

3

Cloud Storage

Buckets

CREATE

REFRESH

GO TO PATH

LEARN

Buckets

Monitoring

Settings

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

Security

View security recommendations

Improve security by applying security recommendations to your buckets.

GET PREMIUM

LEARN MORE

Filter

Filter buckets

<input type="checkbox"/>	Name ↑	Created	Location type	Location	Default storage class	Last modified	Public access
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<input type="checkbox"/>	dx-project	Jun 8, 2024, 8:04:14 AM	Region	me-central1	Standard	Jun 8, 2024, 8:11:26 AM	Public to internet
<input type="checkbox"/>	staging.centered-song-420514.appspot.com	Apr 18, 2024, 5:20:25 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:25 PM	Subject to object ACLs
<input type="checkbox"/>	web-ss	Apr 18, 2024, 4:41:18 PM	Multi-region	us	Standard	Apr 18, 2024, 4:50:09 PM	Public to internet

Marketplace

Release Notes

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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

Create restore job

Export to Cloud Pub/Sub

Process with Cloud Functions

Scan with Sensitive Data Protection

Write the main file.

Google Cloud

My Project 25423

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

Search

3

Cloud Storage

1 bucket selected

DELETE

PERMISSIONS

TAGS

LABELS

Buckets

Monitoring

Settings

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

Security

View security recommendations

Improve security by applying security recommendations to your buckets.

GET PREMIUM

Filter

Filter buckets

<input type="checkbox"/>	Name ↑	Created	Location type	Location	Default storage class	Last modified	Public access
<input type="checkbox"/>	centered-song-420514.appspot.com	Apr 18, 2024, 5:20:24 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:24 PM	Subject to object ACLs
<input checked="" type="checkbox"/>	dx-project	Jun 8, 2024, 8:04:14 AM	Region	me-central1	Standard	Jun 8, 2024, 8:11:26 AM	Public to internet
<input type="checkbox"/>	staging.centered-song-420514.appspot.com	Apr 18, 2024, 5:20:25 PM	Multi-region	us	Standard	Apr 18, 2024, 5:20:25 PM	Subject to object ACLs
<input type="checkbox"/>	web-ss	Apr 18, 2024, 4:41:18 PM	Multi-region	us	Standard	Apr 18, 2024, 4:50:09 PM	Public to internet

Marketplace

Release Notes

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dx-project website configuration

Configure index and error pages for any static website associated with dx-project. [Learn more](#)

Index (main) page suffix

index.html

Error (404 not found) page

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).

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

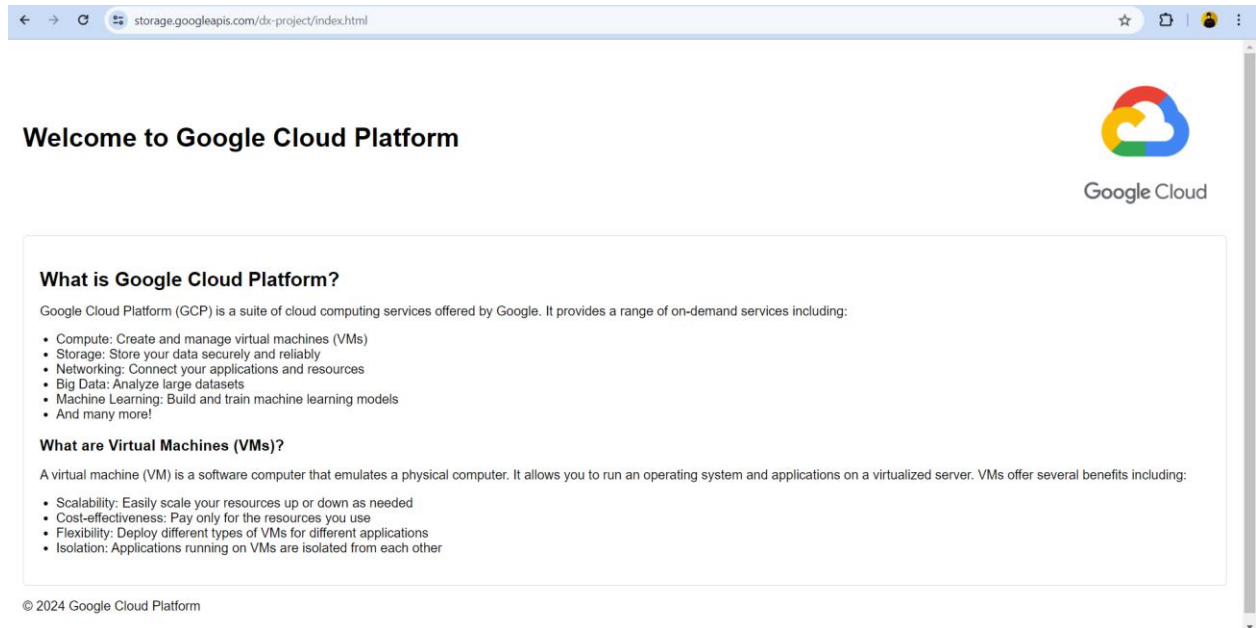
Finally go to your index.html and copy the URL.

The screenshot shows the Google Cloud Storage interface for a project named 'My Project 25423'. The left sidebar contains navigation links for Cloud Storage, Buckets, Monitoring, and Settings. The main area displays the 'Bucket details' for 'dx-project'. A warning message indicates the bucket is public to the internet. Below this, a table shows bucket properties: Location (me-central1 (Doha)), Storage class (Standard), Public access (Public to internet), and Protection (None). The 'OBJECTS' tab is selected, showing a list of objects. A table lists the objects with columns: Name, Size, Type, Created, Storage class, and Last modified. One object, 'index.html', is listed with a size of 2.1 KB, type of text/html, and created on Jun 8, 2024, at 8:06:23 AM. A context menu is open over the 'index.html' object, showing options like Download, Copy Public URL, Copy Authenticated URL, Copy gsutil URI, Edit metadata, Edit access, Edit retention, Copy, Move, Rename, Export to Cloud Pub/Sub, and Scan with Sensitive Data Protection.

Name	Size	Type	Created	Storage class	Last modified
index.html	2.1 KB	text/html	Jun 8, 2024, 8:06:23 AM	Standard	Jun 8, 2024, 8:06:23 AM

The screenshot shows a web browser window with the address bar displaying the URL 'https://storage.googleapis.com/dx-project/index.html'. The browser's search bar also shows the same URL. The background of the browser window features a colorful geometric pattern and the Google logo.

Congratulations on the first static website on GCP.



I hope that the project will help you.