

Google Cloud Platform project

Deploy your static website on Google Cloud (Cloud Storage)



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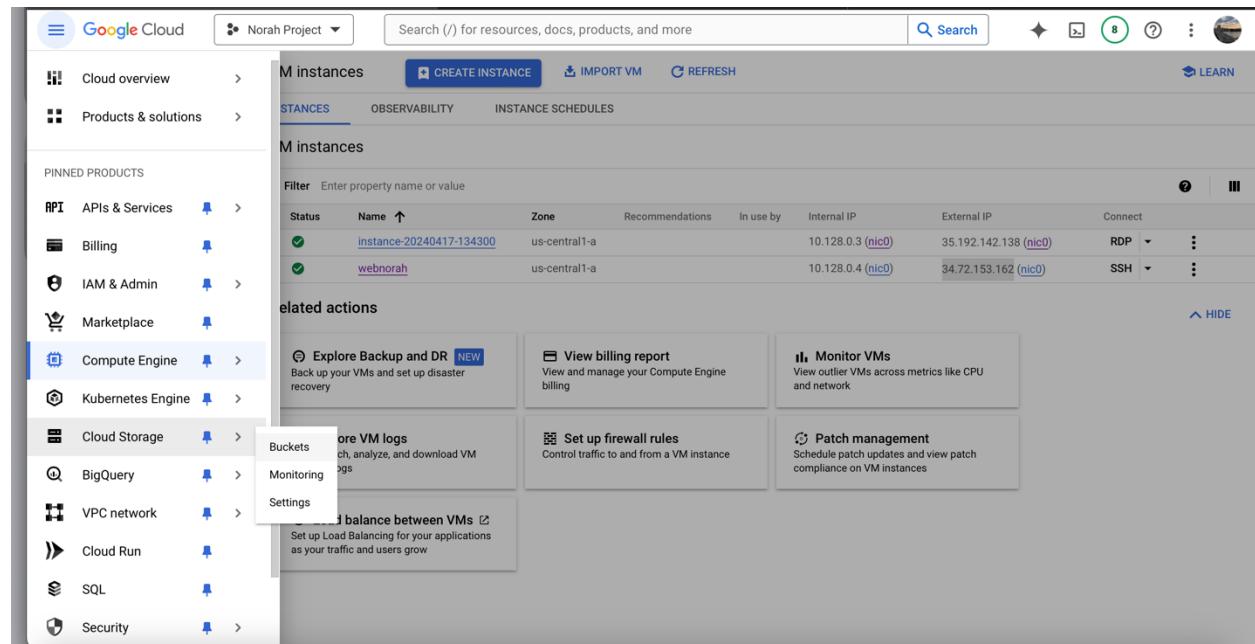
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Guidelines:

- 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.



Click on “create”

The screenshot shows the Google Cloud Storage Buckets page. At the top right, there is a search bar and a 'CREATE' button, which is circled in blue with an arrow pointing to it from above. Below the search bar is a refresh button. The main area displays a table of existing buckets, including columns for Name, Created, Location type, Location, Default storage class, Last modified, and Public. The buckets listed are 'norah-project-420513.appspot.com', 'norahbucket', and 'staging.norah-project-420513.appspot.com'. The interface includes a sidebar with 'Buckets', 'Monitoring', and 'Settings' options.

The bucket settings

The screenshot shows the 'Create a bucket' wizard. On the left, there is a sidebar with 'Buckets', 'Monitoring', and 'Settings' options. The main area has a back arrow and the title 'Create a bucket'. The first step, 'Name your bucket', is shown with a text input field containing 'norahbucket'. Below it is a tip: 'Tip: Don't include any sensitive information'. There is also a 'LABELS (OPTIONAL)' section with a dropdown menu. A 'CONTINUE' button is at the bottom of this section. To the right, there is a 'Good to know' section with a 'Location pricing' table. The table shows costs for 'us (multiple regions in United States)' and 'With default replication'. Below the table is a 'ESTIMATE YOUR MONTHLY COST' section. At the bottom of the wizard are 'CREATE' and 'CANCEL' buttons.

Choose the region

Google Cloud Norah Project Search (/) for resources, docs, products, and more

Cloud Storage Create a bucket

Buckets Monitoring Settings Marketplace Release Notes

Name your bucket
Name: norahbucket

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
us (multiple regions in United States)

Dual-region
High availability and low latency across 2 regions

Region
Lowest latency within a single region

CONTINUE

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

Google Cloud Norah Project Search (/) for resources, docs, products, and more

Cloud Storage Create a bucket

Buckets Monitoring Settings Marketplace Release Notes

Name your bucket
Name: norahbucket

Choose where to store your data
Location: us (multiple regions in United States)
Location type: Multi-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](#)

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

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

Google Cloud Norah Project Search (/) for resources, docs, products, and more Search

Cloud Storage Create a bucket

Name your bucket
Name: norahbucket

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

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

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

Marketplace Release Notes

Google Cloud Norah Project Search (/) for resources, docs, products, and more Search

Cloud Storage Create a bucket

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
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 nonconcurrent 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

Marketplace Release Notes

Now click on create

The screenshot shows the 'Create a bucket' wizard in the Google Cloud Storage interface. On the left, a sidebar lists 'Buckets', 'Monitoring', and 'Settings'. The main area has five steps: 'Name your bucket' (norahbucket), 'Choose where to store your data' (Location: us, Multi-region), 'Choose a storage class for your data' (Standard), 'Choose how to control access to objects' (Public access prevention: On, Access control: Uniform), and 'Choose how to protect object data' (Soft delete policy: Enabled, Object versioning: Disabled, Bucket retention policy: Disabled, Object retention: Disabled, Encryption type: Google-managed). A 'CREATE' button at the bottom is circled in blue, with an arrow pointing to it from below. To the right, a 'Good to know' section includes 'Location pricing' (Storage rates vary depending on the storage class of your data and location of your bucket) and 'Current configuration: Multi-region / Standard'. Below this is a table showing costs: 'us (multiple regions in United States)' at '\$0.026 per GB-month' and 'With default replication' at '\$0.020 per GB written'. A 'ESTIMATE YOUR MONTHLY COST' link is also present.

Bucket console:

After we create our first bucket, we'll upload our website by clicking on the upload button.

The screenshot shows the 'Bucket details' page for 'norahbucket'. The sidebar on the left shows 'Buckets' selected. The main area displays bucket information: Location (us), Storage class (Standard), Public access (Not public), and Protection (Soft Delete). Below this are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', 'LIFECYCLE', 'OBSERVABILITY', 'INVENTORY REPORTS', and 'OPERATIONS'. Under 'OBJECTS', there's a 'Folder browser' showing 'norahbucket'. At the top of the page, there's a navigation bar with 'UPLOAD FILES' (which is highlighted in blue), 'UPLOAD FOLDER', 'CREATE FOLDER', 'TRANSFER DATA', 'EDIT RETENTION', 'DOWNLOAD', and 'DELETE'. A large blue arrow points to the 'UPLOAD FILES' button. Below the navigation bar are filters for 'Filter by name prefix only', 'Filter objects and folders', and sorting options for 'Name', 'Size', 'Type', 'Created', and 'Storage class'.

The screenshot shows the Google Cloud Storage 'OBJECTS' tab for a bucket named 'norahbucket'. A file named 'index.html' has been uploaded. The permissions column for this file is highlighted with a red box. It shows three access levels: 'Public access', 'Not public', and 'Not public'. Below the table, a message box says '1 file successfully uploaded'.

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

The screenshot shows the Google Cloud Storage 'OBJECTS' tab for the same 'norahbucket'. The 'index.html' file is selected, indicated by a blue border around its row in the table.

After you select the file click on permissions and click on Grant access

The screenshot shows the 'Bucket details' page for the 'norahbucket'. The 'PERMISSIONS' tab is selected. On the left, under 'Public access', it says 'Not public' and provides a link to 'PREVENT PUBLIC ACCESS'. On the right, under 'Access control', it says 'Uniform: No object-level ACLs enabled' and provides a link to 'Learn more'. At the bottom, there is a 'Permissions' section with 'VIEW BY PRINCIPALS' and 'VIEW BY ROLES' tabs. The 'GRANT ACCESS' button is highlighted with a large blue arrow pointing towards it. The 'allUsers' principal is selected, and the 'Storage Legacy Object Reader' role is assigned.

For the New principal chooses “allUsers”

Grant access to "norahbucket"

Resource
norahbucket

Add principals

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

New principals *

allUsers
allAuthenticatedUsers

with this resource. [Learn more](#)

IAM condition (optional) [?](#)
+ ADD IAM CONDITION

Select a role * [?](#)

+ ADD ANOTHER ROLE

SAVE **CANCEL**

Now select the role.

Grant access to "norahbucket"

Resource
norahbucket

Add principals

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

New principals *

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 Deploy	Roles
Cloud Migration	Storage Legacy Bucket Owner
Cloud Storage Legacy	Storage Legacy Bucket Reader
Dataflow	Storage Legacy Bucket Writer
Dataproc	Storage Legacy Object Owner
Firebase	Storage Legacy Object Reader
Firebase Products	

Storage Legacy Object Reader
Grants permission to view objects and their metadata, excluding ACLs.

MANAGE ROLES

Click on “save”

Grant access to "norahbucket"

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
norahbucket

Add principals

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

New principals * [?](#)

Assign roles

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

Role * IAM condition (optional) [?](#) [+ ADD IAM CONDITION](#) [-](#)

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

+ ADD ANOTHER ROLE

SAVE **CANCEL**

Allow the access

Grant access to "norahbucket"

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
norahbucket

Add principals

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

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](#)

ALLOW PUBLIC ACCESS **CANCEL**

SAVE **CANCEL**

Get back to Objects and click refresh.

The screenshot shows the Google Cloud Storage Bucket details page for 'norahbucket'. The bucket is located in 'us (multiple regions in United States)' with a 'Standard' storage class, 'Public access' set to 'Public to internet', and 'Protection' set to 'Soft Delete'. A blue arrow points to the 'REFRESH' button at the top right of the page. The 'OBJECTS' tab is selected, showing a 'Folder browser' with one object: 'index.html'. The object details are: Name: index.html, Size: 2.1 KB, Type: text/html, Created: Apr 18, 2024, 4:54:51 PM, Storage class: Standard.

As we see now the website is public.

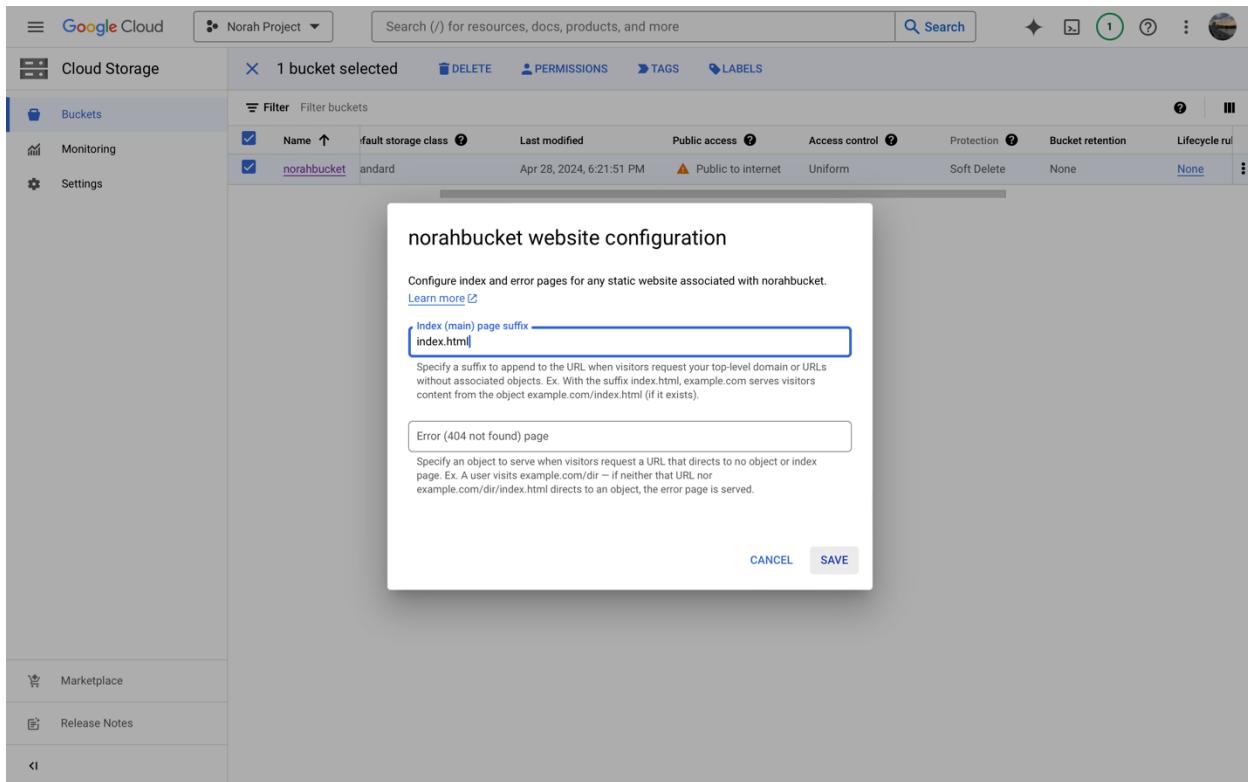
The screenshot shows the Google Cloud Storage Bucket objects page for 'norahbucket'. The object 'index.html' has its 'Public access' status highlighted with a blue box, showing 'Public to internet'. Other object details are: Name: index.html, Last modified: 24, 4:54:51 PM, Version history: -, Copy URL: -.

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

This screenshot shows the 'Bucket details' page for the 'norahbucket'. On the left, a sidebar menu is open with 'Buckets' selected. A blue arrow points to this selection. The main content area displays the bucket's configuration, including its location (us), storage class (Standard), public access (Public to internet), and protection (Soft Delete). Below this, there are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', 'LIFECYCLE', 'OBSERVABILITY', 'INVENTORY REPORTS', and 'OPERATIONS'. Under the 'OBJECTS' tab, a 'Folder browser' section shows a single object named 'index.html'. There are buttons for 'UPLOAD FILES', 'UPLOAD FOLDER', 'CREATE FOLDER', 'TRANSFER DATA', 'MANAGE HOLDS', and 'EDIT RETENTION'. A table lists the object with columns for Name, Ed, Public access, Version history, and a 'Copy URL' button. At the bottom of the table are filter and sorting options.

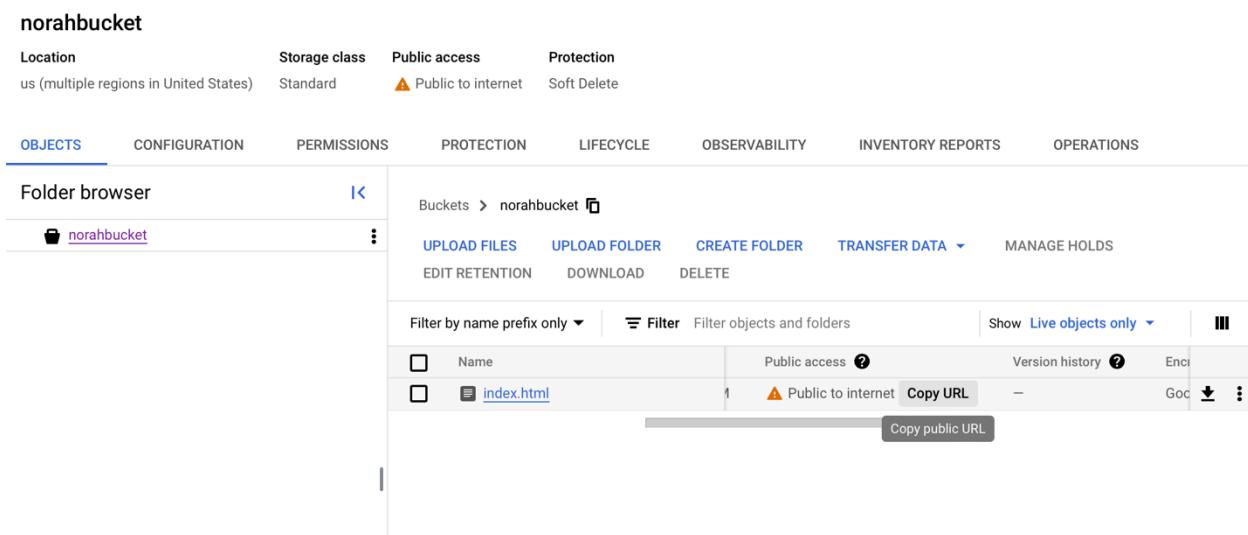
This screenshot shows the 'Buckets' list page. A blue arrow points to the three-dot menu icon next to the 'norahbucket' entry. A context menu is open, listing several options: 'Edit access', 'Edit tags', 'Edit labels', 'Edit website configuration' (which is highlighted with a black box and a blue arrow pointing to it), 'Edit default storage class', 'Delete bucket', 'Transfer data in', 'Transfer data out', 'Create restore job', 'Export to Cloud Pub/Sub', 'Process with Cloud Functions', and 'Scan with Sensitive Data Protection'.

Write the main file



The screenshot shows the Google Cloud Storage interface. A modal window titled "norahbucket website configuration" is open. It contains fields for "Index (main) page suffix" (set to "index.html") and "Error (404 not found) page". Both fields have descriptive text below them. At the bottom right of the modal are "CANCEL" and "SAVE" buttons. The background shows a list of buckets, with "norahbucket" selected. The bucket details show it is standard storage class, public access is set to "Public to internet", and protection is "Soft Delete".

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



The screenshot shows the Google Cloud Storage object browser for the "norahbucket". The left sidebar shows the bucket structure with "norahbucket" at the root. The main area displays a single object named "index.html". The object details show it has "Public access" set to "Public to internet" and a "Copy URL" button is visible. Other tabs like Configuration, Permissions, Protection, Lifecycle, Observability, Inventory Reports, and Operations are also present.



Now you have your static web on GCP!

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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I hope this project inspired you!