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I did everything in Google Cloud Console only. No command line: gsutil or gcloud

# Make a Storage Bucket

The screenshot shows the 'Create a Cloud Storage bucket' wizard in the Google Cloud Console. It's Step 2 of 8. The left sidebar shows 'Cloud Storage' selected. The main area has several sections:

- Name your bucket:** Name: bu-ds561-tigeryi
- Choose where to store your data:** Location: us-east1 (South Carolina), Location type: 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:** Protection tools: None (selected), Object versioning (for data recovery) (disabled)

**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

**ESTIMATE YOUR MONTHLY COST**

Item	Cost
us-east1 (South Carolina)	\$0.020 per GB-month

**Create a Cloud Storage bucket**

- In the Google Cloud console navigation menu, click **Buckets**. You can see its location by clicking the following button:
- On the **Buckets** page, click **Create**.
- In the **Name your bucket** field, enter a globally unique name (for example, `bucket-quickstart_feisty-gasket-398719`).
- Click **Continue**.
- In the **Choose where to store your data** section, select **Region**, and then select **us-central1 (Iowa)**.
- Click **Create**.
- In the **Public access will be prevented** window, do the following:
  - Clear **Enforce public access prevention on this bucket**.
  - Click **Confirm**.This action redirects you to the **Bucket details** page.

**PREVIOUS** **NEXT**

# Make a directory in Bucket

Create folder to make a directory in the bucket

The screenshot shows the Google Cloud Storage interface. On the left, there's a sidebar with 'Cloud Storage' selected, followed by 'Buckets', 'Monitoring', and 'Settings'. The main area is titled 'bu-ds561-tigeryi' and shows its location as 'us-east1 (South Carolina)', storage class as 'Standard', public access as 'Not public', and protection as 'None'. Below this, there are tabs for 'OBJECTS' and 'CONFIGURATION'. A modal window titled 'Create folder' is open in the center. It contains a note: 'Cloud Storage uses a flat namespace, so uploading objects to a folder simply appends a path prefix to object names.' Below this is a text input field labeled 'Name \*' with 'folder1' typed into it. At the bottom of the modal are 'CANCEL' and 'CREATE' buttons. In the background, a dark banner at the bottom says 'Created bucket bu-ds561-tigeryi!' with a close button.

# Copy file in the directory

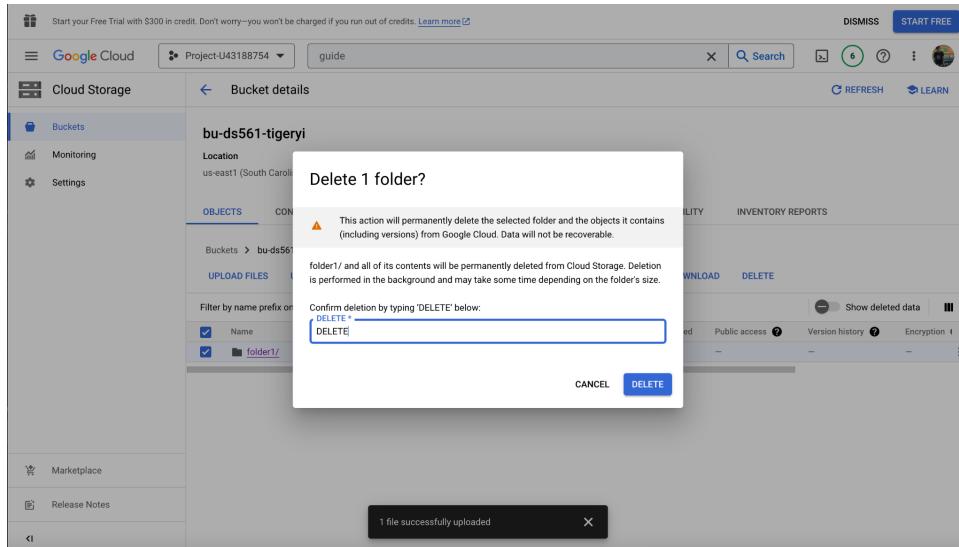
Upload file kitten.png to the directory folder-1

The screenshot shows the Google Cloud Storage interface. On the left, a sidebar lists 'Cloud Storage', 'Buckets' (selected), 'Monitoring', and 'Settings'. The main area is titled 'Bucket details' for 'bu-ds561-tigeryi'. It shows the bucket's location as 'us-east1 (South Carolina)', storage class as 'Standard', public access as 'Not public', and protection as 'None'. Below this, there are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', 'LIFECYCLE', 'OBSERVABILITY', and 'INVENTORY REPORTS'. The 'OBJECTS' tab is selected, showing a list of files under 'BUCKETS > bu-ds561-tigeryi > folder1'. The list includes 'kitten.png' (54.4 KB, image/png, created Sep 19, 2023, 11:27:23 AM). A success message at the bottom says '1 file successfully uploaded'.

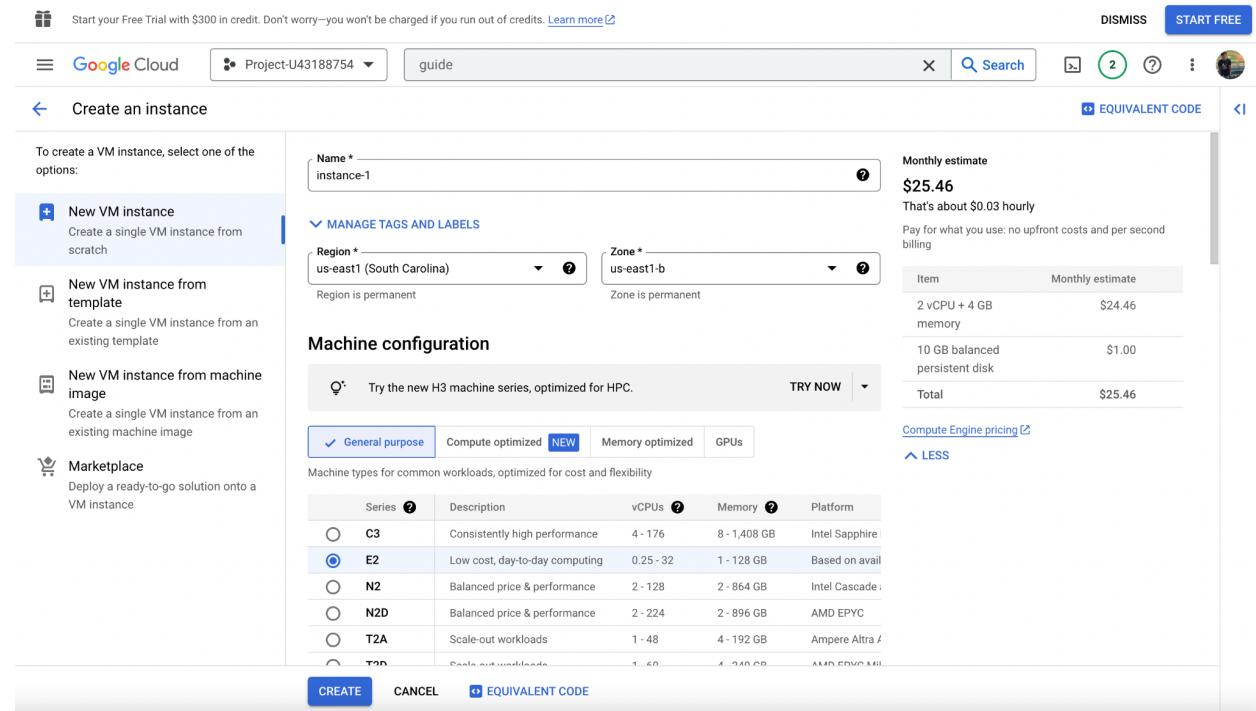
Name	Size	Type	Created	Storage class	Last modified	Public access
kitten.png	54.4 KB	image/png	Sep 19, 2023, 11:27:23 AM	Standard	Sep 19, 2023, 11:27:23 AM	Not public

# Delete the directory and file

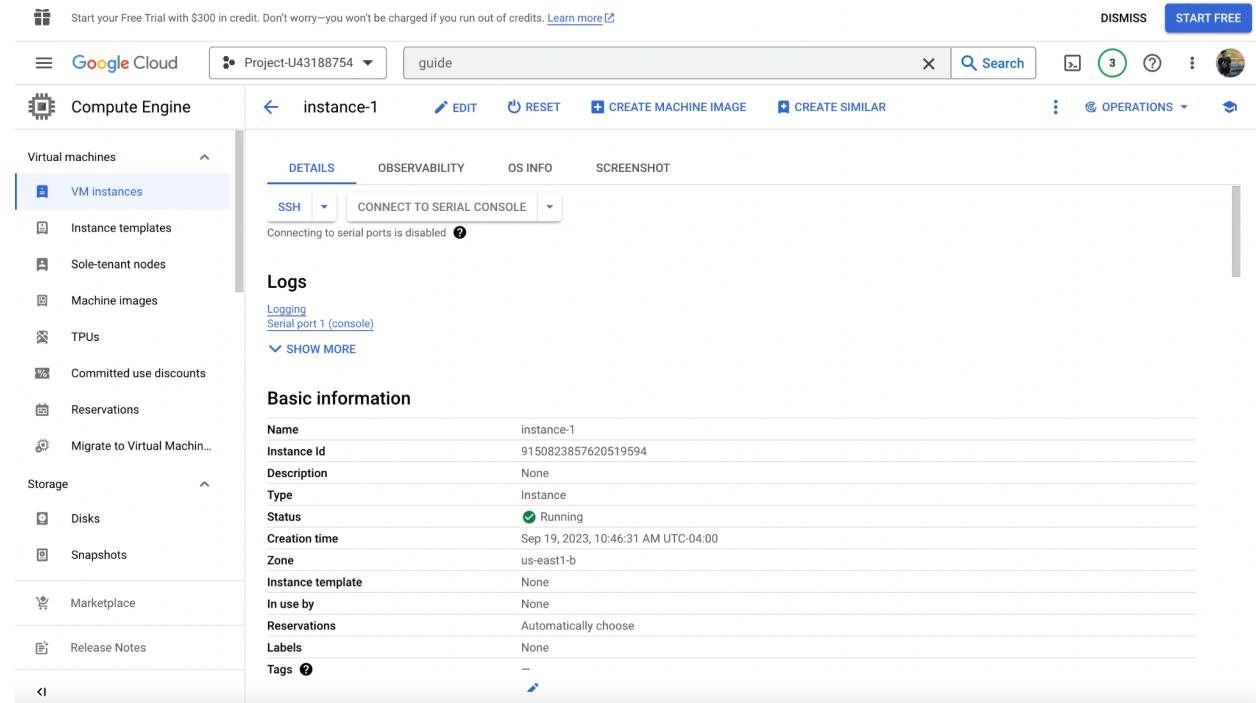
Select folder1 directory then click Delete



# Make VM



The screenshot shows the Google Cloud VM creation interface. At the top, there's a banner for a free trial with \$300 credit. The navigation bar includes 'Google Cloud', 'Project-U43188754', 'guide', a search bar, and various icons. Below the navigation is a left sidebar with options: 'New VM instance' (selected), 'New VM instance from template', 'New VM instance from machine image', and 'Marketplace'. The main form area has fields for 'Name' (set to 'instance-1'), 'Region' (set to 'us-east1 (South Carolina)'), 'Zone' (set to 'us-east1-b'), and a 'Machine configuration' section. The configuration dropdown is set to 'General purpose' and shows the 'Compute optimized' option is selected. A table lists machine types: C3, E2, N2, N2D, T2A, and T2B. The E2 row is highlighted with a blue circle. To the right, a 'Monthly estimate' table shows costs for 2 vCPU + 4 GB memory, 10 GB balanced persistent disk, and a total of \$25.46. There's also a link to 'Compute Engine pricing'.



The screenshot shows the Google Cloud VM details page for 'instance-1'. The left sidebar includes sections for Virtual machines (VM instances selected), Storage (Disks, Snapshots), Marketplace, and Release Notes. The main content area has tabs for DETAILS, OBSERVABILITY, OS INFO, and SCREENSHOT. Under DETAILS, there are tabs for SSH and CONNECT TO SERIAL CONSOLE. The Logs section shows 'Serial port 1 (console)' with a note that connecting to serial ports is disabled. The Basic information table provides details like Name (instance-1), Instance Id (9150823857620519594), Description (None), Type (Instance), Status (Running), Creation time (Sep 19, 2023, 10:46:31 AM UTC-04:00), Zone (us-east1-b), Instance template (None), In use by (None), Reservations (Automatically choose), Labels (None), and Tags (None).

# Pause VM

The screenshot shows the Google Cloud Compute Engine interface. On the left, there's a sidebar with 'Virtual machines' expanded, showing options like VM instances, Instance templates, Sole-tenant nodes, Machine images, TPUs, Committed use discounts, Reservations, and Migrate to Virtual Machine. The main area is titled 'VM instances' and shows one instance selected: '1 instance selected'. Below this are tabs for 'INSTANCES', 'OBSERVABILITY', and 'INSTANCE SCHEDULES'. A modal dialog is open in the center, titled 'Suspend instance-1?'. It contains the following text:

The instance will preserve its running state, similar to closing a laptop. You'll be billed for storage of the suspended VM state and any persistent disks it uses. [Learn more](#)

The instance won't be accessible while it's being suspended, which may take a few minutes.

At the bottom of the dialog are 'CANCEL' and 'SUSPEND' buttons. To the right of the dialog, there's a table with columns for External IP, Connect, and a row for '10.237.209.22 (nic0)'. Below the table are sections for 'VMs' and 'Patch management'. The status bar at the bottom of the dialog says 'Instance suspended'.

This screenshot shows the same Google Cloud Compute Engine interface after the instance has been suspended. The 'VM instances' table now lists the suspended instance: 'instance-1' with status 'STOPPED' (indicated by a red circle with a white exclamation mark). The 'Related actions' section remains the same as in the previous screenshot. At the bottom of the page, a dark overlay displays the message 'Instance suspended' with a close button 'X'.

# Delete VM

Click DELETE

The screenshot shows the Google Cloud Compute Engine interface. On the left, there's a sidebar with sections for Virtual machines, Storage, and Marketplace. The main area is titled 'VM instances' and shows a table with columns for Name, Zone, Status, Recommendations, Internal IP, External IP, and Connect. One instance, 'instance-1', is selected. A modal dialog box is centered over the table, asking 'Delete instance-1?'. The dialog contains the question 'Are you sure you want to delete instance "instance-1"? (This will also delete boot disk "instance-1")' and two buttons: 'CANCEL' and 'DELETE'. Below the dialog, there are related actions: 'Explore Backups', 'Explore VM logs', 'Set up firewall rules', 'Load balance between VMs', 'Patch management', and 'View metrics'.

# Make Service Account + access to bucket

The screenshot shows the 'Create service account' page in the Google Cloud IAM & Admin section. The left sidebar lists various IAM-related options like IAM, Identity & Organization, and Service Accounts. The main form has the following fields:

- Service account name:** service-account-tiger-1
- Service account ID:** service-account-tiger-1
- Email address:** service-account-tiger-1@feisty-gasket.398719.iam.gserviceaccount.com
- Service account description:** (empty)

Below the form are three optional steps:

- Grant this service account access to project (optional)**
- Grant users access to this service account (optional)**

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

The screenshot shows the 'Service accounts' page in the Google Cloud IAM & Admin section. The left sidebar is identical to the previous screen. The main area displays a table of service accounts for the project "Project-U43188754".

Email	Status	Name	Description	Key ID	Actions
feisty-gasket-398719@appspot.gserviceaccount.com	Enabled	App Engine default service account		No keys	⋮
946005535036-compute@developer.gserviceaccount.com	Enabled	Compute Engine default service account		No keys	⋮
service-account-tiger-1@feisty-gasket.398719.iam.gserviceaccount.com	Enabled	service-account-tiger-1		No keys	⋮

## Grant access to "bu-ds561-tigeryi"

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

 bu-ds561-tigeryi

### 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 create, replace, and delete objects; list objects in a bucket; create, delete, and list tag bindings; read object metadata when listing (excluding IAM policies); and read and edit bucket metadata, including IAM policies.

+ ADD ANOTHER ROLE

 SAVE

 CANCEL

# Delete Service Account

The screenshot shows the Google Cloud IAM & Admin interface. The top navigation bar includes the Google Cloud logo, project dropdown (Project-U43188754), search bar (service ac), and various icons. The main menu on the left is set to 'IAM & Admin' and 'IAM'. The central area displays 'Service accounts for project "Project-U43188754"'. A modal window titled 'Delete service account "service-account-tiger-1"' is open, containing a warning message about the不可逆性 of deletion and a list of what will be affected. Below the modal, the service account list shows one entry: 'service-account-tiger-1@feisty-gasket-398719.iam.gserviceaccount.com' (Enabled, No keys). At the bottom of the modal are 'CANCEL', 'DISABLE', and 'DELETE' buttons.

service account	Enabled	No keys
<a href="#">service-account-tiger-1@feisty-gasket-398719.iam.gserviceaccount.com</a>	<input checked="" type="checkbox"/>	service-account-tiger-1

# Delete Storage Bucket

The screenshot shows the Google Cloud Platform interface for Cloud Storage. A modal dialog box is open, asking for confirmation to delete the bucket 'bu-ds561-tigeryi'. The dialog includes a warning message about permanent deletion, a note that deletion is backgrounded, and a text input field for confirming the action with 'DELETE'.

**Delete bucket 'bu-ds561-tigeryi'?**

This action will permanently delete the bucket and the objects it contains (including versions) from Google Cloud. Data will not be recoverable.

You are deleting the bucket **bu-ds561-tigeryi**.

Deletion is performed in the background and may take some time depending on the size of the objects being deleted.

Confirm deletion by typing 'DELETE' below:

`DELETE *`  
`DELETE`

**CANCEL** **DELETE**

**Buckets** **Analytics** **New**

**Preview 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 the dashboards for each project.

**TRY NOW**

**Step 7 of 8**

**LEARN Tutorial**

**1. Click the `Objects` tab.**  
**2. Select the row containing `kitten.png`, and then click `Delete`.**  
**3. To confirm, click `Delete`.**

You have successfully completed basic tasks in Cloud Storage.  
To avoid incurring charges on your account and learn about the next steps, click **Next**.

**PREVIOUS** **NEXT**

Name	Created	Location type	Location	Default storage class
<a href="#">bu-ds561-tigeryi</a>	Sep 19, 2023, 10:30:43 AM	Region	us-east1	Standard