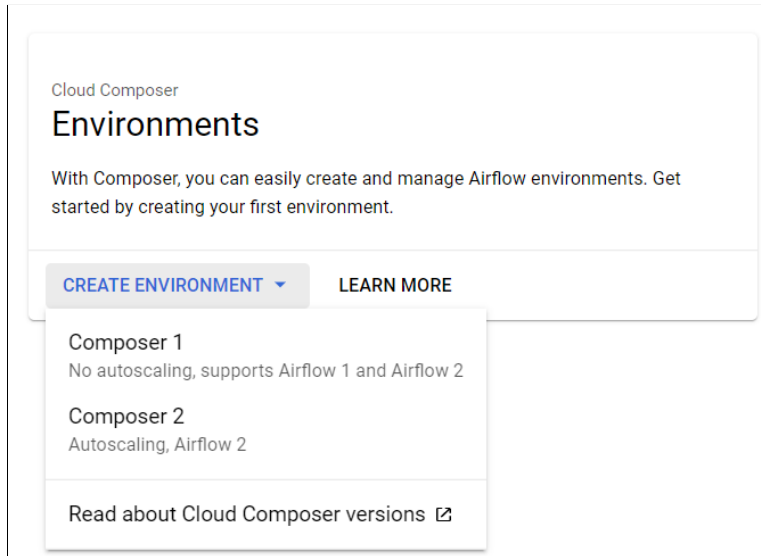


1. How to switch on Airflow instance in GCP?

Step-1 : Go to the composer page in the GCP console. Click on create environment and select Composer 1.



Step-2 : On the next page you need to fill in the details of the new airflow instance - Name, Location, Zone, Disk Size, Service Account, Image Version and Python Version. After filling everything click on CREATE to create the instance.

Google Cloud Platform

dsdmscloudproject

Search composer

Composer

Create environment

Name *

myairflowenv

Location *

asia-east2

Google Cloud Platform region in which the environment will be created.

Node configuration

The configuration information for the Google Kubernetes Engine nodes running the Airflow software.

Node count *

3

The number of nodes in the Google Kubernetes Engine cluster that will be used to run this environment.

Zone

asia-east2-a

Google Cloud Platform zone in which to deploy cluster nodes. Must specify location before selecting zone. [Learn more.](#)

Machine type

n1-standard-2

The Google Compute Engine machine type used for cluster instances. If unspecified, the machine type will default to 'n1-standard-1'. Must specify location before selecting machine type. [Learn more.](#)

Disk size (GB)

30

The disk size in GB used for node VMs. Minimum is 30 GB. If unspecified, defaults to 100 GB. Cannot be updated.

<https://www.googleapis.com/auth/cloud-platform>. Cannot be updated. [Learn more.](#)

Service account

441991837520-compute@developer.gserviceaccount.com

The Google Cloud Platform Service Account to be used by the node VMs. If a service account is not specified, the "default" Compute Engine service account is used. Cannot be updated.

Tags

The list of instance tags applied to all node VMs. Tags are used to identify valid sources or targets for network firewalls. Each tag with the list must comply with RFC1035. Cannot be updated.

Image version

composer-1.18.5-airflow-2.2.3

The image version to use in the created environment. Image version value includes Composer version and Airflow version. Must specify location before selecting image version.

Number of schedulers *

1

Your environment can run more than one Airflow scheduler at the same time.

Python version

3

The Python version to use in the created environment. Must specify an image version before selecting Python version.

✓ NETWORKING, AIRFLOW CONFIG OVERRIDES, AND ADDITIONAL FEATURES.

Beta API

Composer Beta API provides a set of functionality that is under preview and is not covered by any SLA and deprecation policy.

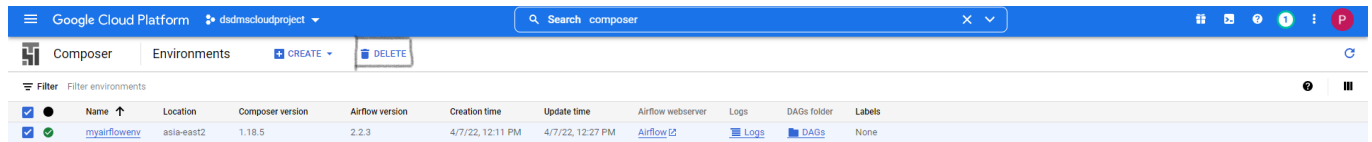
☐ Enforce the usage of Beta API **BETA**

CREATE

CANCEL

2. How to switch off/delete Airflow instance in GCP?

To delete the airflow instance, click on the instance which is running and then click on DELETE . It will delete the current airflow instance.

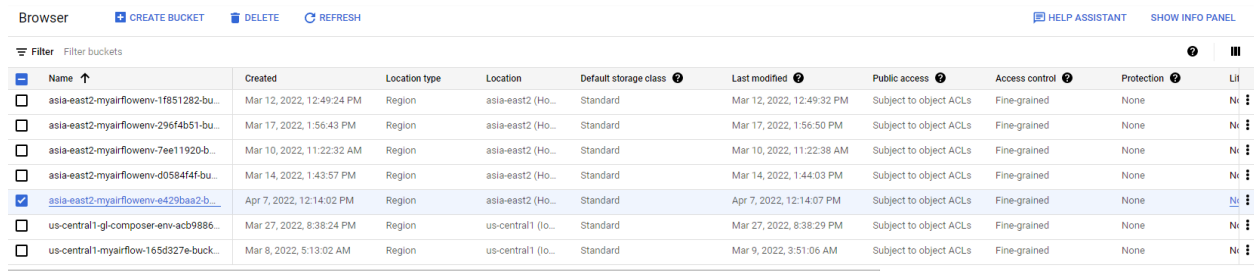


The screenshot shows the Google Cloud Platform interface for the 'Composer' service. The 'Environments' tab is selected, and a 'DELETE' button is highlighted. Below the navigation bar, there is a table of environments. The first environment, 'myairflowenv', is selected and highlighted in blue. The table columns include Name, Location, Composer version, Airflow version, Creation time, Update time, Airflow webserver, Logs, DAGs folder, and Labels.

Name	Location	Composer version	Airflow version	Creation time	Update time	Airflow webserver	Logs	DAGs folder	Labels
myairflowenv	asia-east2	1.18.5	2.2.3	4/7/22, 12:11 PM	4/7/22, 12:27 PM	Airflow	Logs	DAGs	None

3. How to delete a bucket?

To delete the bucket, select the bucket which you want to delete and then click on DELETE . It will delete that particular bucket.



The screenshot shows the Google Cloud Platform interface for the 'Storage' service. The 'Buckets' tab is selected, and a 'DELETE' button is highlighted. Below the navigation bar, there is a table of buckets. The bucket 'asia-east2-myairflowenv-e429baa2-b...' is selected and highlighted in blue. The table columns include Name, Created, Location type, Location, Default storage class, Last modified, Public access, Access control, Protection, and List.

Name	Created	Location type	Location	Default storage class	Last modified	Public access	Access control	Protection	List
asia-east2-myairflowenv-1f851282-bu...	Mar 12, 2022, 12:49:24 PM	Region	asia-east2 (Ho...	Standard	Mar 12, 2022, 12:49:32 PM	Subject to object ACLs	Fine-grained	None	N...
asia-east2-myairflowenv-296f4b51-bu...	Mar 17, 2022, 1:56:43 PM	Region	asia-east2 (Ho...	Standard	Mar 17, 2022, 1:56:50 PM	Subject to object ACLs	Fine-grained	None	N...
asia-east2-myairflowenv-7ee11920-b...	Mar 10, 2022, 11:22:32 AM	Region	asia-east2 (Ho...	Standard	Mar 10, 2022, 11:22:38 AM	Subject to object ACLs	Fine-grained	None	N...
asia-east2-myairflowenv-d0584f4f-bu...	Mar 14, 2022, 1:43:57 PM	Region	asia-east2 (Ho...	Standard	Mar 14, 2022, 1:44:03 PM	Subject to object ACLs	Fine-grained	None	N...
asia-east2-myairflowenv-e429baa2-b...	Apr 7, 2022, 12:14:02 PM	Region	asia-east2 (Ho...	Standard	Apr 7, 2022, 12:14:07 PM	Subject to object ACLs	Fine-grained	None	N...
us-central1-gl-composer-env-acb9886...	Mar 27, 2022, 8:38:24 PM	Region	us-central1 (lo...	Standard	Mar 27, 2022, 8:38:29 PM	Subject to object ACLs	Fine-grained	None	N...
us-central1-myairflow-165d327e-buck...	Mar 8, 2022, 5:13:02 AM	Region	us-central1 (lo...	Standard	Mar 9, 2022, 3:51:06 AM	Subject to object ACLs	Fine-grained	None	N...

4. How to monitor the credits burnt while using GCP?

On the console page go to the Billing section. Click on View detailed charges(Image-1). After navigation to the next page you will see the detailed breakdown of all the usage of credits with the time duration.(Image-2)

Image-1

The screenshot shows the Google Cloud Platform dashboard for the project 'dsdmscloudproject'. The interface is divided into several sections:

- Project info:** Displays project details such as Project name (dsdmscloudproject), Project number (441991837520), and Project ID (dsdms-new-project). It includes a link to 'Go to project settings' and a button to 'ADD PEOPLE TO THIS PROJECT'.
- Resources:** Lists various Google Cloud services used in the project, including BigQuery, SQL, Compute Engine, Storage, Cloud Functions, and App Engine.
- Trace:** Shows 'No trace data from the past 7 days' with a link to 'Get started with Trace'.
- API APIs:** A graph showing 'Requests (requests/sec)' over time, with a peak of 0.350/s. A link to 'Go to APIs overview' is provided.
- Google Cloud Platform status:** Indicates 'All services normal' with a link to 'Go to Cloud status dashboard'.
- Billing:** Shows 'Estimated charges' for the billing period April 1 - 7, 2022, as INR ₹0.00. It includes a link to 'View detailed charges'.
- Monitoring:** Offers options to 'Create my dashboard', 'Set up alerting policies', and 'Create uptime checks'. A link to 'View all dashboards' and 'Go to Monitoring' is also present.
- API Error Reporting:** Shows 'Top errors in last 24 hours' with a message: '0/3 nodes are available: 3 pod has unbound immediate PersistentVolumeClaims.' and a count of 3 errors.

Image-2

The screenshot displays the Google Cloud Platform Billing Reports page. The left sidebar shows navigation options: Billing account, Overview, Reports (selected), and Account management. The main content area is titled 'Reports' and includes a 'Cost trend' graph and a detailed table of billing data.

Cost trend: A line graph showing the cost trend from April 2 to April 30. The y-axis represents cost in INR, ranging from ₹0 to ₹1. The x-axis shows the dates. The cost remains at ₹0 throughout the period.

Billing Summary:

Period	Total Cost	Includes
April 1 - 7, 2022 (total cost)	₹0.00	Includes *₹120.57 in credits
April 2022 (forecasted total cost)	₹0.00	Includes *₹120.57 in credits

Cost trend details: 0% over March 25 - 31, 2022. ₹0.00 over March 2022.

Table of Billing Data:

SKU	Service	SKU ID	Usage	Cost	Discounts	Promotions and others	Subtotal
Standard Storage Hong Kong	Cloud Storage	01CD-TEAA-23AD	0 gibibyte month	₹0.00	—	₹0.00	₹0.00
Standard Storage US Regional	Cloud Storage	E9F0-4A5D-7BAD	0 gibibyte month	₹0.00	—	₹0.00	₹0.00
Static Ip Charge	Compute Engine	66A2-48EA-56BE	140.26 hour	₹105.82	—	-₹105.82	₹0.00
Storage PD Capacity	Compute Engine	D973-5D45-8AB2	2.35 gibibyte month	₹0.00	—	₹0.00	₹0.00
Storage PD Capacity in Hong Kong	Compute Engine	28D0-437A-CEAD	3.9 gibibyte month	₹14.74	—	-₹14.74	₹0.00

Filters: The right sidebar contains filters for Presets, Time range (Usage date selected), Current month, Group by (SKU), Folders & Organizations (All folders/organizations (1)), Projects (All projects (1)), Services (All services (10)), SKUs (All SKUs (334)), Locations (Filter by location data like region and zone), Credits (Promotions and others selected), and Promotions.