Cloud Composer

A fully managed workflow orchestration service built on Apache Airflow.

New customers get $300 in free credits to spend on Composer or other Google Cloud products during the first 90 days.

- Author, schedule, and monitor pipelines that span across hybrid and multi-cloud environments
- Built on the Apache Airflow open source project and operated using Python
- Frees you from lock-in and is easy to use

BENEFITS

Fully managed workflow orchestration

Cloud Composer's managed nature and Apache Airflow compatibility allows you to focus on authoring, scheduling, and monitoring your workflows as opposed to provisioning resources.

Integrates with other Google Cloud products

End-to-end integration with Google Cloud products including BigQuery, Dataflow, Dataproc, Datastore, Cloud Storage, Pub/Sub, and AI Platform gives users the freedom to fully orchestrate their pipeline.

Supports hybrid and multi-cloud

Author, schedule, and monitor your workflows through a single orchestration tool—whether your pipeline lives on-premises, in multiple clouds, or fully within Google Cloud.

Key features

Hybrid and multi-cloud

Ease your transition to the cloud or maintain a hybrid data environment by orchestrating workflows that cross between on-premises and the public cloud. Create workflows that connect data, processing, and services across clouds to give you a unified data environment.

Open source

Cloud Composer is built upon Apache Airflow, giving users freedom from lock-in and portability. This open source project, which Google is contributing back into,

provides freedom from lock-in for customers as well as integration with a broad number of platforms, which will only expand as the Airflow community grows.

Easy orchestration

Cloud Composer pipelines are configured as directed acyclic graphs (DAGs) using Python, making it easy for any user. One-click deployment yields instant access to a rich library of connectors and multiple graphical representations of your workflow in action, making troubleshooting easy. Automatic synchronization of your directed acyclic graphs ensures your jobs stay on schedule.

All features

Multi-cloud	Create workflows that connect data, processing, and services across clouds, giving you a unified data environment.
Open source	Cloud Composer is built upon Apache Airflow, giving users freedom from lock-in and portability.
Hybrid	Ease your transition to the cloud or maintain a hybrid data environment by orchestrating workflows that cross between on-premises and the public cloud.
Integrated	Built-in integration with BigQuery, Dataflow, Dataproc, Datastore, Cloud Storage, Pub/Sub, AI Platform, and more, giving you the ability to orchestrate end-to-end Google Cloud workloads.
Python programming language	Leverage existing Python skills to dynamically author and schedule workflows within Cloud Composer.
Reliability	Increase reliability of your workflows through easy-to-use charts for monitoring and troubleshooting the root cause of an issue.

Fully managed	Cloud Composer's managed nature allows you to focus on authoring, scheduling, and monitoring your workflows as opposed to provisioning resources.
Networking and security	During environment creation, Cloud Composer provides the following configuration options: Cloud Composer environment with a route-based GKE cluster (default), Private IP Cloud Composer environment, Cloud Composer environment with a VPC Native GKE cluster using alias IP addresses, Shared VPC.