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Rack, capture and then ship your data to Google Cloud

[Request Transfer Appliance \(https://console.cloud.google.com/storage/transferappliance\)](https://console.cloud.google.com/storage/transferappliance)

[View Documentation \(/transfer-appliance/docs/2.0/\)](/transfer-appliance/docs/2.0/)

Transfer Appliance is a secure, rackable high capacity storage server that you set up in your datacenter. You fill it with data and ship it to an ingest location where the data is uploaded to Google Cloud Storage. Your data is encrypted automatically, and remains safe until you decrypt it. Choose from 100TB or 480TB of raw capacity per appliance to move your data to Google Cloud quickly.



100TB version



480TB version



Step 1

## Request a Transfer Appliance

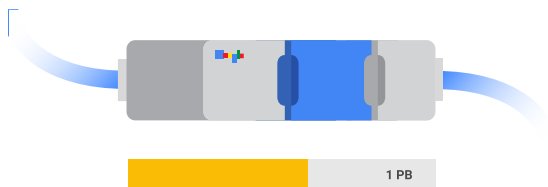
Submit a request online. We will work with you on an appropriate size and number.



Step 2

## Receive the appliance

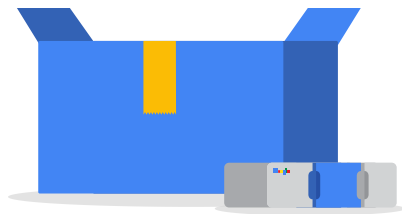
The appliance is shipped via common carriers in a tamper-evident case.



Step 3

## Fill appliance with up to a PB of data

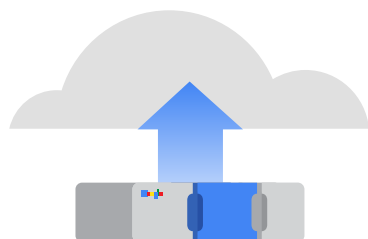
Rack appliance in your datacenter and connect to a network.  
Capture data. It's encrypted.



Step 4

### Ship the appliance back to Google

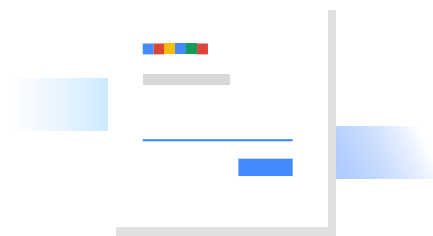
Use the provided return label and ship the appliance back to Google.



Step 5

### Google uploads data to Cloud

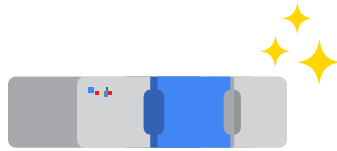
Google will notify you when your data is ready.



Step 6

### Access and place your data

Log into your console to decrypt your data and choose a storage bucket.



Step 7

### Google securely erases the appliance

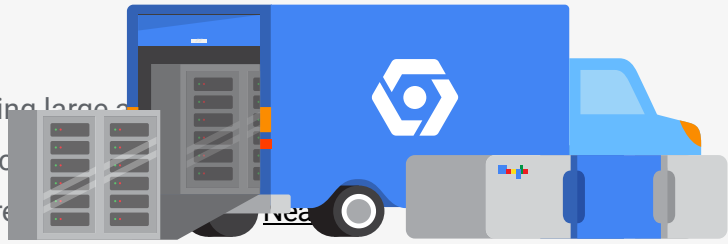
Google erases the appliance to NIST-800-88 standards.

Many organizations rely on data in order to conduct their business, collecting significant amounts of geographic, environmental, medical or financial data for analysis. If you need to transfer data from researchers, vendors or other sites to Google Cloud, Transfer Appliance can move that data for you. Once transferred to [Google Cloud Storage \(/storage/\)](#) or [BigQuery \(/bigquery/\)](#) your data is accessible via our Google Cloud Dataflow processing service for machine learning projects. Google Cloud Machine Learning Engine is a managed service that enables you to easily build machine learning models, that work on any type of data, of any size.

Many Google Cloud customers are looking to take advantage of hybrid architectures, supporting current operations with existing on-premises infrastructure but experimenting with the cloud. By transferring a copy of your data to Google Cloud you can decommission duplicate datasets,

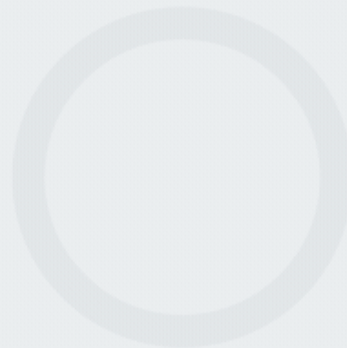
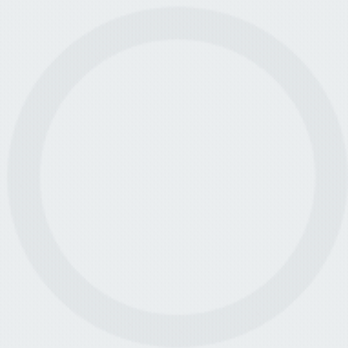
test cloud infrastructure and expose your data to machine learning and analysis.

Offline data transfer is suited for moving large data sets, backup images and archives to ultra low cost, highly available archival storage offered by **Nearline** and **Coldline** (/storage/archival/) storage classes. For other structured and unstructured data sets, whether they are small and frequently accessed or huge and rarely referenced, Google offers solutions like Google Cloud Storage, BigQuery or Dataproc to store and analyze that data.



Typical Network  
100Mbps

Transfer Appliance



0 Days

0 Days

Fast

Moving large amounts of data securely with Transfer Appliance can be significantly faster than uploading that data over the network. You can move up to a petabyte of data on a single Transfer Appliance more than 1000 days faster than with a 100Mbps connection.

## Scalable

Capture up to a petabyte of data on one Transfer Appliance. Or use multiple appliances to transfer more data. All without impacting your outbound network.

## Familiar

The Transfer Appliance is easily mounted into open rackspace in your datacenter and can be mounted as Network Attached Storage (NAS). A simple user interface will guide you through local data capture, and your Google Cloud Platform console will guide you through decryption and ingestion.

## Secure

We use tamper-evident seals on shipping cases to and from your data ingest site. Data is encrypted to AES256 standard at the moment of capture and you decrypt your own data once as it is ingested into its final storage bucket. Once the transfer is complete the appliance is erased per NIST-800-88 standards.

# Other ways to transfer data



## Online Transfer

Use your network to move data to Google Cloud Storage. Explore drag-n-drop, gsutil and JSON API ingest tools.

[EXPLORE](#)

(/storage/docs/cloud-console#\_uploadingdata)



## Transfer Service

Complete large-scale online data transfers from online and on-premises sources to Google Cloud Storage.

EXPLORE TRANSFER SERVICE

(/storage-transfer-service/)



## BigQuery Data Transfer Service

Schedule and automate data transfers from your SaaS applications to Google BigQuery.

EXPLORE

(/bigquery/transfer/)



“ Google Transfer Appliance moves petabytes of environmental and geographic data for Makani so we can find out where the wind is the most windy. ”

— Ruth Marsh

Technical Program Manager at Makani

First, you pay a usage fee for each appliance option, which includes a certain number of free days of onsite usage, 10 days for 100 TB and 25 days for 480 TB.

Second, you pay shipping costs for the appliance based on the standard carrier rates for your location and the shipping option you choose. Shipping costs are important considerations as shipping one 480Tb appliance is typically 70% cheaper than shipping five 100Tb appliances. Google will work with you to choose the best option based on your needs.

Third, if the appliance is kept for longer than the allotted free days, you incur a late fee.

And finally, you pay no data ingest fees into Google Cloud Storage. Once in Google Cloud Storage, you will pay the associated monthly storage and operations costs for your stored data.

Transfer Appliance option	Usage Fee	Free days of onsite usage	Late fee per day, beyond allotment	Typical 2-day shipping fee
100 TB	\$300	10	\$30	\$500
480 TB	\$1800	25	\$90	\$900



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UNIFIED OBJECT STORAGE

(/storage/)

UTILIZE OTHER SERVICES

(/storage/docs/google-integration/)