

This document describes how to launch a rehydrator instance and configure it so you can access and rehydrate your data.

Encrypted data in a Transfer Appliance is uploaded to a staging location in Cloud Storage. Google owns and manages the staging location. You are billed for data stored in the staging location. See [Pricing \(/transfer-appliance/docs/2.0/pricing\)](/transfer-appliance/docs/2.0/pricing) and [Questions \(/transfer-appliance/docs/2.0/billing-questions\)](/transfer-appliance/docs/2.0/billing-questions) for more information.

- To rehydrate your data, you need a Cloud Storage destination bucket. If you don't already have one, see [Creating Storage Buckets \(/storage/docs/creating-buckets\)](/storage/docs/creating-buckets).

★ **Important:** If [VPC \(/vpc/docs/vpc\)](/vpc/docs/vpc) is enabled in your project, the destination bucket must be within your VPC perimeter.

! **Caution:** If you decide to use a Google Cloud project that is different from the project you initially indicated, you must inform Google by emailing [Transfer Appliance support](https://mail.google.com/mail/u/0/?view=cm&fs=1&tf=1&source=mailto&to=data-support@google.com) (<https://mail.google.com/mail/u/0/?view=cm&fs=1&tf=1&source=mailto&to=data-support@google.com>). Using a different project for rehydration without first notifying Google prevents the rehydrator from accessing the staging location.

- A Compute Engine default service account. Verify that the following account is listed in **IAM & Admin > Service Accounts**:

If it isn't listed, create it by starting a single Compute Engine virtual machine. After the virtual machine starts successfully, you may stop it if you have no other use for it.

- If [VPC \(/vpc/docs/vpc\)](/vpc/docs/vpc) is enabled in your project, ensure that [Private Google Access \(/vpc/docs/configure-private-google-access\)](/vpc/docs/configure-private-google-access) is also enabled for the subnet for the Rehydrator VM.

- If you want to configure optional email alerts so you can receive updates about rehydration jobs, you must use a Gmail account.
- You must have the username and password of the email account that you want to use as the sender of email alerts.

1. To launch the Rehydrator User Interface, go to [the Rehydrator page](https://console.cloud.google.com/marketplace/details/data-public/transfer) (<https://console.cloud.google.com/marketplace/details/data-public/transfer>) on [Google Cloud Marketplace](https://cloud.google.com/marketplace/) (<https://cloud.google.com/marketplace/>).
2. Click **Launch on Compute Engine**. The **New Transfer Appliance deployment** page appears.
3. Select the Google Cloud project where you want to deploy the Rehydrator instance. Create the Rehydrator instance in the same project as the destination bucket that receives the rehydrated data. To specify a destination bucket, see [Setting the target path or prefix](/transfer-appliance/docs/2.0/rehydrating-data#setting_the_target_path_or_prefix) (/transfer-appliance/docs/2.0/rehydrating-data#setting_the_target_path_or_prefix).
4. For the **Deployment name**, enter a name to identify the deployment.
5. For the **Zone**, select the desired compute zone.

To improve performance, create the Rehydrator instance in the same zone or multi-zone region as the Cloud Storage destination buckets.
6. Verify that the default options are selected for the following options:
 - **Machine type** - 16 vCPU, 104 GB memory
 - **Disk type** - Standard Persistent Disk
 - **Disk size in GB** - 1024
7. To enable external traffic, select any or all of the following **Firewall** checkboxes:
 - **Allow HTTP traffic**
 - **Allow HTTPS traffic**
 - **Allow RDP traffic**
8. Click **More** to display **External IP** and **IP forwarding** options.
9. To deploy a Rehydrator instance that only uses a private IP, select **None** from the **External IP** drop-down, and ensure that [VPC](/vpc/docs/vpc) (</vpc/docs/vpc>) is configured for the selected subnet.

10. Click **Deploy**.

The deployment tracking page appears, in which you can track the progress of the Rehydrator deployment. Once the deployment process completes, the post-deployment information page appears. This page displays information about the deployment and provides links for accessing and managing the Rehydrator instance.

11. Make a note of the values for **Site address**, **Rehydrator Username**, and **Rehydrator Password**. You need this information to sign in to the Rehydrator User Interface.

To configure the Transfer Appliance Rehydrator User Interface so you can access and rehydrate your data, do the following:

1. To access the Transfer Appliance Rehydrator User Interface, open a browser and enter the URL that was provided as the **Site address** value when you deployed the instance.
2. The first time you connect to the Rehydrator a security warning is displayed, asking whether you trust the site. Click **Advanced**, then proceed to the site.
3. Sign in using the **Rehydrator Username** and **Rehydrator Password** credentials you noted when you deployed the instance.

The appliance list is displayed.

4. Select the Transfer Appliance whose data you want to rehydrate from the list.
5. In **Destination Bucket Name**, enter the name of the destination bucket for the rehydrated data.
6. Enter your the encryption credentials that you set when you received Transfer Appliance.

★ **Note:** No encryption credentials are stored on the Rehydrator instance. If the Rehydrator instance restarts, you are prompted to provide the encryption password and passphrase again.

7. Click **Submit**. When the Rehydrator instance completes configuration, it displays a dashboard of pending rehydration jobs based on the data in your staging location.
8. The first time you sign in, you are asked whether you want to take the optional tour of the user interface. Click **OK** to take the tour, otherwise click **Cancel**.

You can optionally configure email alerts. Email alerts are sent for significant events regarding rehydration job status.

Email notifications do not function within VPC.

To configure email alerts, do the following:

1. Open the Transfer Appliance Rehydrator User Interface.
2. Click the **Settings** icon and click **Email Notification**.
3. For the **Sender Email Address**, enter a valid Gmail account to be used as the sender of all notifications.
4. For the **Sender Email Password**, enter your Gmail account password.
5. For the **SMTP Server**, enter **smtp.gmail.com**.
6. For the **Port**, enter **465**.
7. For the **Connection**, select **TLS**.
8. For the **Recipient(s)**, enter a comma-delimited list of email addresses to send notifications to.
9. Click **Save**.

Start [rehydrating data](/transfer-appliance/docs/2.0/rehydrating-data) (/transfer-appliance/docs/2.0/rehydrating-data).