



Migrating Workspaces from Legacy Workbench to Researcher Workbench 2.0

Overview	1
Before You Begin Migration	2
Step 1: Confirm Eligibility and Access Requirements	2
Important Notes	3
Step 1 Complete?	3
Step 2: Prepare and Clean Up Your Workspaces	3
Review and categorize all workspaces	4
Preserve cohort and dataset logic before migration	4
Delete unneeded workspaces and stored files	4
How to delete a workspace	5
Review and Address Persistent Disks (PDs)	6
Address workspaces using CDR v3-v6	8
Step 2: Workspace Clean-Up Complete?	9
Start a Workspace Migration	9
Step 3: Migrate Your Workspace	9
How to Migrate a Workspace	9
During Migration	11
Step 3 Complete?	12
After You Have Migrated	12
Step 4: Validate and Continue Work in Researcher Workbench 2.0	12
Confirm Your Migrated Workspace	12
Update Code and Re-Create Analysis Objects (If Needed)	13
Consider Deleting Your Legacy Workspace	14
Step 4 Complete?	15
What Happens If You Do Not Migrate a Workspace	15
Recommendation and Resources	15
Additional Resources	16

Overview

The [Researcher Workbench 2.0](#) offers an updated user experience with optimized tools, improved performance, and more to support your research. To take full advantage of the powerful platform capabilities, you can migrate your workspaces from the legacy Workbench to Researcher Workbench 2.0 using a user-interface prompted tool.

This guide provides essential information on accessing the Researcher Workbench 2.0, preparing your existing workspaces for migration, completing workspace migration, and updating your migrated workspace for use in Researcher Workbench 2.0. Please review all sections carefully to ensure a successful migration. **All workspaces must be fully migrated by June 30, 2026 after which Researcher Workbench 2.0 will serve as the central workbench platform.**



Figure 1 - Workspace Migration Process Overview

Before You Begin Migration

Step 1: Confirm Eligibility and Access Requirements

Before you can begin migrating a workspace to Researcher Workbench 2.0, you must confirm that both you and your workspace meet the migration eligibility requirements outlined below. Migration cannot proceed until all required items are completed.

- Your annual *All of Us* data [access requirements](#) are complete and up to date. If these requirements are expired, you will be unable to access workspaces in Researcher Workbench. Once a year, you are required to complete three steps to maintain your access to the Researcher Workbench and the *All of Us* dataset:
 - Complete refresher modules of the Responsible Conduct of Research Training.
 - Re-attest to the Data User Code of Conduct.
 - Update and/or confirm personal contact information and institutional affiliation.
- You have signed in to Researcher Workbench 2.0
 - You must log in to Researcher Workbench 2.0 at least once before migration. To learn more, please see detailed information in the Researcher Workbench 2.0 getting started guide [here](#).
 - During your first login, you will be prompted to review and accept the Verily Terms of Service (TOS).
 - Accepting the TOS confirms your eligibility to create and manage workspaces in Researcher Workbench 2.0.
- Your workspace(s) is associated with an active billing account
 - Both your legacy workspace and your Researcher Workbench 2.0 workspace must be linked to a valid billing account for migration to succeed.
 - You can use one of the following billing options:
 - Your initial [All of Us credits](#) (if available and not expired or exhausted), or
 - A personal or institutional Google Cloud Platform (GCP) billing account
 - Before migrating, confirm that the legacy workspace is linked to either the *All of Us* initial credits or a valid [GCP billing account](#).
 - Researcher Workbench 2.0 must also have an active billing pod available. As with the legacy workbench, the pod determines the billing source for storage and compute resources. Migration cannot proceed without an active billing pod.
 - For more information about billing pods, see the [Billing and Managing Cost](#) section of the [Researcher Workbench 2.0 Getting Started Guide](#).
- Coordinate with your collaborators
 - Workspace migration can be initiated by any workspace collaborator. Meaning, if the workspace has multiple owners, writers or readers, any collaborator can initiate workspace migration. If your workspace has multiple collaborators, please coordinate accordingly. Once a workspace has been successfully migrated, all collaborators will see a “Migrated” signage in the workspace

Important Notes

While preparing for migration, please take note of the following:

- You can still duplicate existing workspaces in legacy Workbench, which are required to update older CDR versions (v3-6) to a supported version (CDR v7-8).
- Your legacy workspace will not be locked after migration. However, changes made in Researcher Workbench 1.0 after migration will not automatically sync to Researcher Workbench 2.0.

Step 1 Confirm Eligibility - Completion Checklist

Before moving on to the next step, please confirm that you have

- Confirmed all *All of Us* annual data access requirements are up to date
- Logged into Researcher Workbench 2.0 and accepted the Verily Terms of Service
- Your legacy workspace is linked to a valid billing account, and a billing pod is available in Researcher Workbench 2.0

Once all items are complete, you are ready to continue preparing your workspace for migration.

Step 2: Prepare and Clean Up Your Workspaces

Before beginning migration, we recommend reviewing and preparing your existing workspaces to ensure only essential workspaces and files are migrated. There are several workspace requirements to meet eligibility for migration.

- Your workspace uses a supported CDR version.
 - Only workspaces using **CDR version 7 or 8** are eligible for migration.
 - Workspaces using CDR versions 3-6 will not be migrated by default.
 - If you wish to continue working in a workspace that has an older CDR, you must duplicate the workspace and select CDR v7 or v8.
 - The duplicated workspace can then be migrated.
- All required files are stored in the workspace bucket.
 - Persistent disks are **not supported** in Researcher Workbench W 2.0.
 - Any files stored on a persistent disk in legacy Workbench must be moved to the workspace bucket *before* migration.
 - **Important:** If persistent disk contents are not moved prior to migration, those files will not be included in migration. However, the disk will remain in the legacy Workbench until you delete it.
 - To learn more about migrating files from the persistent disk to the workspace bucket, please see these support resources:
 - [Persistent Disk: Managing & Deleting](#)
 - [Cloud Storage Options | Office Hours](#)
 - [Accessing Files in the Workspace Bucket or Persistent Disk](#)
 - ['gc_data_storage' Package: Storing and Managing Data in the RW \(GCP\) - Featured Workspace](#)

Review and categorize all workspaces

Review your list of workspaces in legacy Workbench and decide which workspaces you want to migrate, archive or permanently delete (if no longer needed).

If your project work is split across multiple workspaces, consider consolidating related work into a smaller number of workspaces prior to migration.

Note: Workspaces that are not manually migrated will be archived through a system-led archival process. Archived workspaces are not active for analysis but maybe recovered during the retention period. More information on this process will be provided soon.

Preserve cohort and dataset logic before migration

If you used [Cohort Builder or Dataset Builder](#) in legacyWorkbench:

- Record your inclusion and exclusion criteria, concept definitions, and logic.
- Cohorts, datasets, and concept sets created using the legacy Workbench point-and-click tools will **not be migrated**.
- However, any query or script using the Cohort Builder and Dataset Builder that is saved within a notebook or another file in your workspace bucket will be available in the file that is migrated.

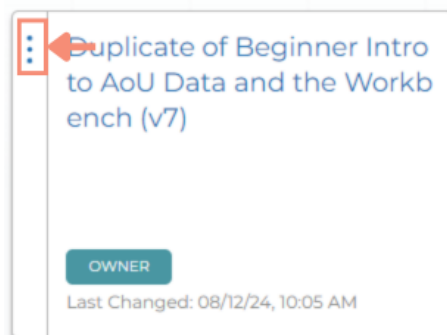
You will be able to recreate these results in Researcher Workbench 2.0 using the [Data Explorer](#) tool.

Delete unneeded workspaces and stored files

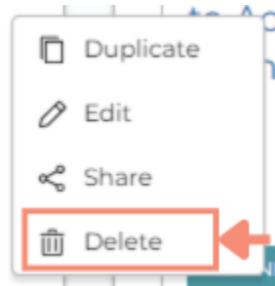
Deleting unused workspaces and files streamlines migration and reduces ongoing storage costs.

How to delete a workspace

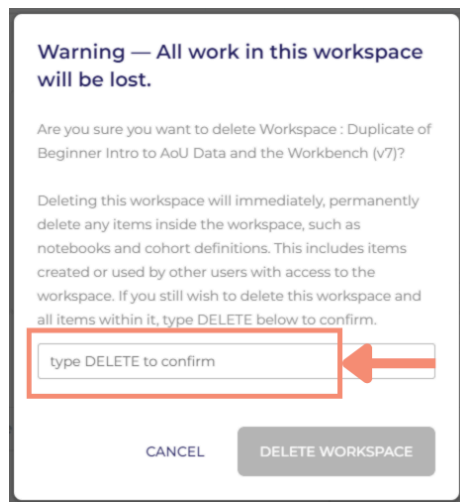
1. Click “”



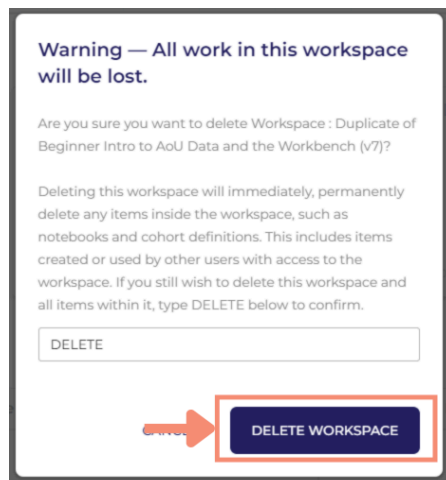
2. Select "Delete"



3. Type "DELETE"

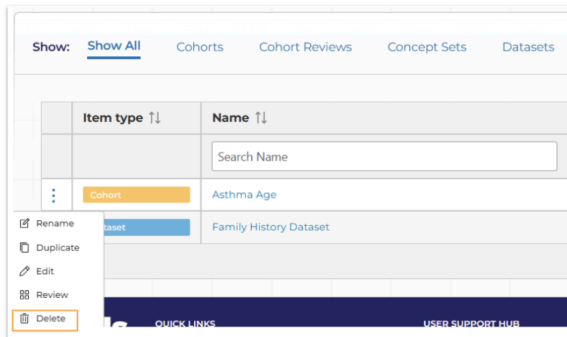


4. Click "Delete Workspace" to confirm you want to permanently delete your workspace.



Note: Deleted workspaces and files **cannot** be recovered.

We recommend you also delete any cohorts, concept sets, datasets, and notebooks in your workspace that were created for testing purposes.



For additional guidance, see [Managing Workspaces](#).

Review and Address Persistent Disks (PDs)

Persistent disks are not supported in Researcher Workbench 2.0. Files stored on persistent disks are not included in workspace migration and must be moved to the workspace bucket to be retained. To review workspaces using a persistent disk, select 'Cloud Environments' under 'Data Access Requirements' in the menu. For more information about persistent disk, see these resources:

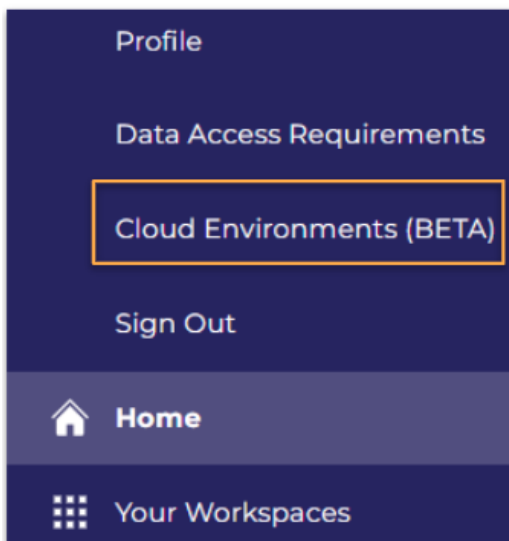
- [Persistent Disk: Managing & Deleting](#)
- [Cloud Storage Options | Office Hours](#)
- [Accessing Files in the Workspace Bucket or Persistent Disk](#)

Deleting Persistent Disks Option 1


- Click on the 



- Select "Cloud Environments" in the menu.



- Click the “Delete” button under “Action”

Created	Last accessed	Cost / month (\$4.80 total)	Action
Apr 10, 2025, 4:19 PM	Apr 10, 2025, 4:22 PM	\$4.80	 Delete

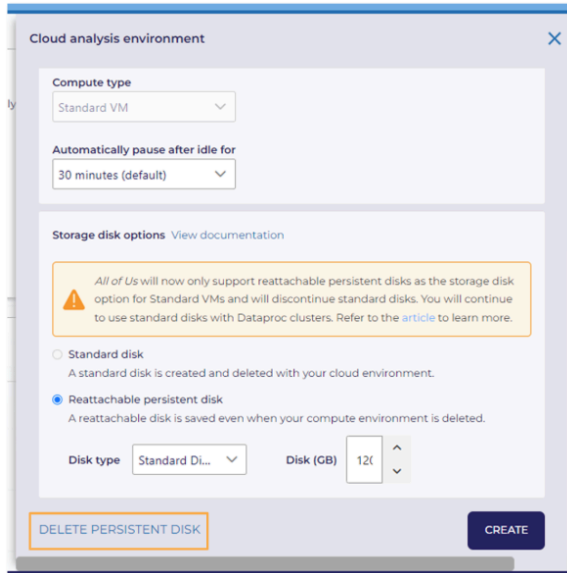
Note: If you have a running environment, you will not be able to delete a persistent disk. You will need to delete the cloud analysis environment, then delete the disk.

Deleting Persistent Disks Option 2

- In the workspace, click on the **Jupyter** icon.



- In the pop-up, if you see the option to ‘DELETE PERSISTENT DISK’ at the bottom in blue, then you **DO** have an active PD being used. If you do not see this option, or it is grayed out, then you **DO NOT** have an active PD being used.



- Migrate files from the persistent disk to the workspace bucket when applicable.

Manage workspaces using CDR v3-v6

As previously noted, workspaces using CDR v3-v6 are **not eligible** for migration. You have the following options:

- Delete the workspace (if it is no longer needed), or
- Duplicate the workspace and upgrade it to CDR v7 or v8 in preparation for migration

If you do not plan to upgrade or migrate the workspace but want to keep a record of your work, such as code, scripts or summary statistics, you may download **allowable** files for local storage (for example, notebook files like .ipynb or .json). Please note that **participant-level data may not be downloaded**, in accordance with the [Data User Code of Conduct](#). All Jupyter notebook outputs, .R or .Rmd, or SAS outputs must be cleared prior to downloading. Before downloading any files from the Researcher Workbench, please review the following policies and resources:

- Review all files to ensure they are in compliance with *All of Us* policies.
 - [Data and Statistics Dissemination Policy](#)
 - [Data User Code of Conduct](#)
- Consider submitting an [All of Us Large Download Exemption Intake Form](#) before downloading large files.
- Clear all notebook outputs before downloading a Jupyter notebook
- See [this support article](#) to learn how to download files.

Step 2: Workspace Clean-up - Completion Checklist

Before moving on to migration, confirm that you have

- Categorized your workspaces (migrate, archive, delete)

- Recorded cohort/dataset logic
- Deleted unused workspaces and files
- Moved all persistent disk files to the workspace bucket
- Updated or duplicated older CDR (v3-v6) workspaces, if needed

Once the steps are complete, your workspaces are ready for migration.

Start a Workspace Migration

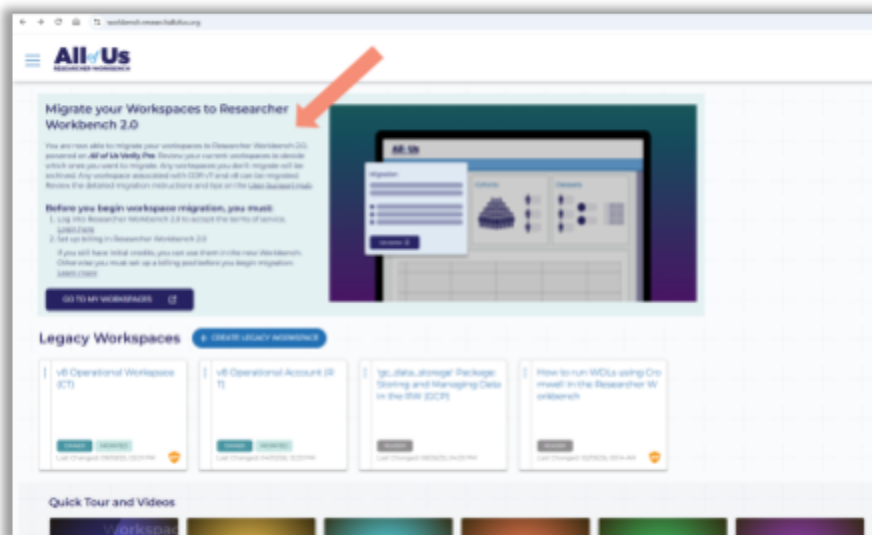
Step 3: Migrate Your Workspace

Once you have confirmed eligibility and prepared your workspace, you can begin migrating your workspace to Researcher Workbench 2.0. **Note:** Workspace migration can only be initiated by **any collaborator**. If your workspace has multiple collaborators, please coordinate accordingly before proceeding.

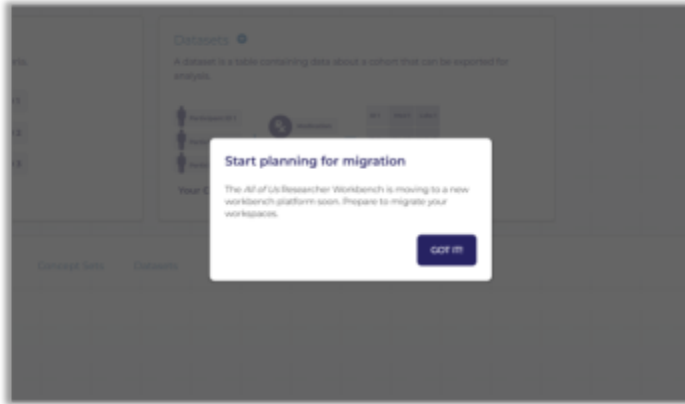
Workspace migration is initiated from legacy Workbench and applies to its existing workspaces. Once logged into your Workbench account, guided prompts are available to help ensure a successful migration.

How to Migrate a Workspace

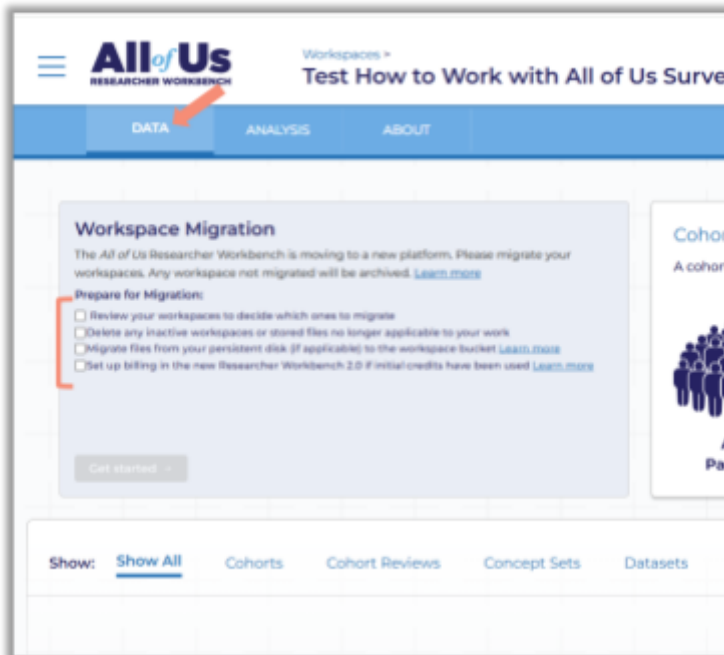
1. Log into legacy Workbench at <https://workbench.researchallofus.org/login>.
2. On the landing page, there is information on the migration process with quick links. Select “Go to workspaces” to open a list of your workspaces.

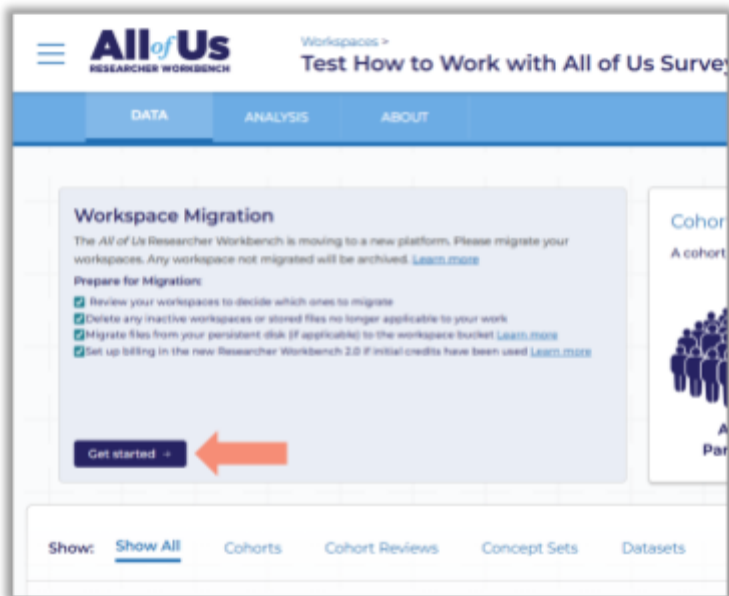


3. Select the Researcher Workbench 1.0 workspace you want to migrate. You'll be prompted to begin the migration process.



4. Under the “Data” tab of your workspace, review the eligibility checks and informational guidance. Then select “Get Started.”





5. On the next page, select the billing pod you want the Researcher Workbench 2.0 to use.
 - a. **Note:** Researcher Workbench 2.0 billing pods you have added within the last few hours may not immediately display in the drop-down menu below. If you've recently been added to a billing pod and don't see it listed as an option, please check back in 24 hours.



6. Select "Start migration" to initiate the migration.

The migration process is now automated and will

- Create a new Researcher Workbench 2.0 workspace
- Transfer all files stored in the workspace bucket
- Copy required workspace metadata and access policies

During Migration

While migration is in progress:

- No additional action is required from you
- You may continue to access legacy Workbench, but your workspace may be temporarily unavailable while migration is in progress. The time required to complete migration may vary depending on the size of your workspace.

Once migration finishes

- Your workspace will be available in Researcher Workbench 2.0.
 - To view your workspace in Researcher Workbench 2.0, open the Researcher Workbench 2.0 landing page and select the “**Workspaces**” tab. Your migrated workspace will appear in the list and will have the same title as it had in Researcher Workbench 1.0 at time of migration. To learn more about workspaces in Researcher Workbench 2.0, see [here](#).
- You are ready to review and validate your migrated workspace.

After You Have Migrated

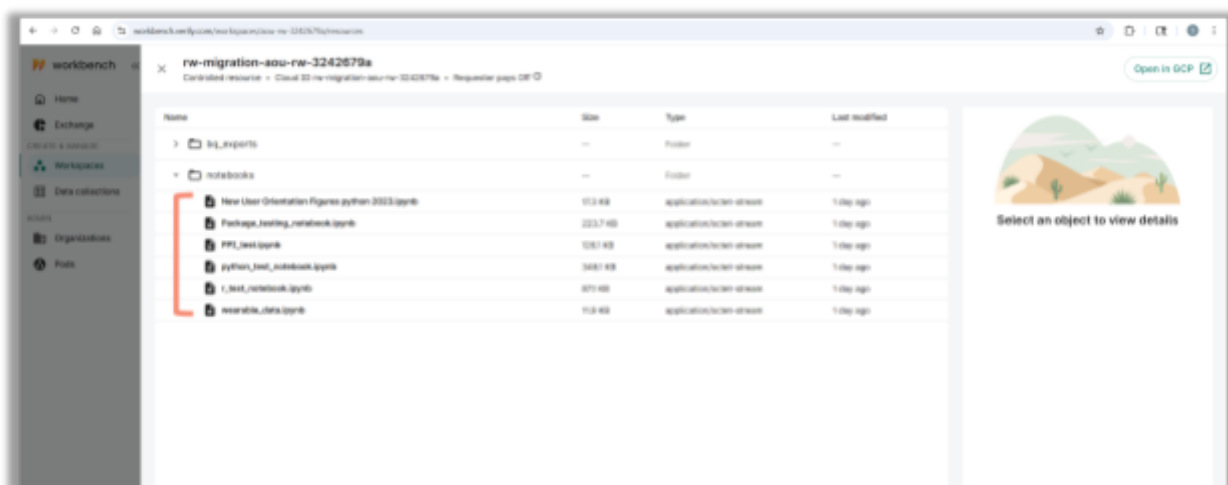
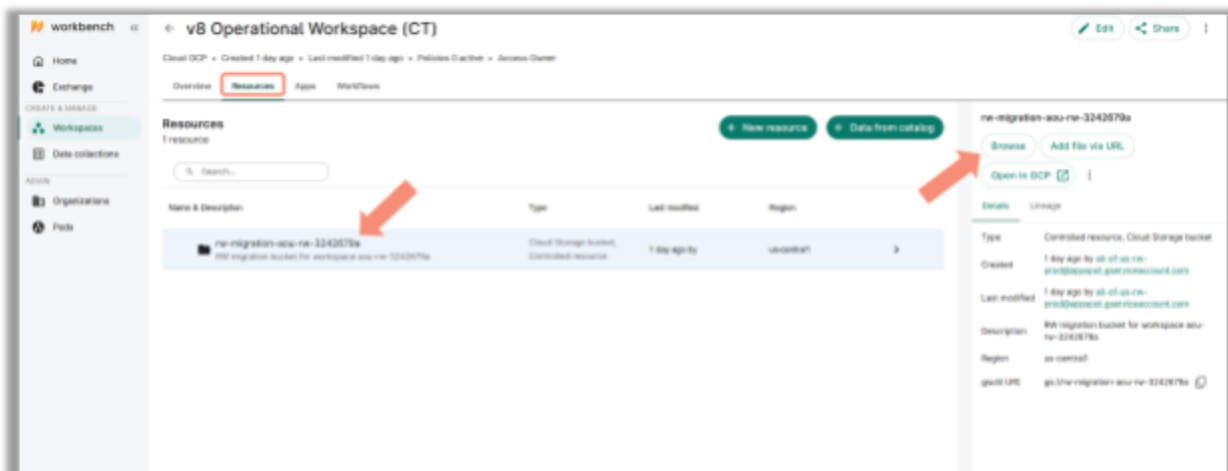
Step 4: Validate and Continue Work in Researcher Workbench 2.0

After your workspace migration to Researcher Workbench 2.0 is complete, you should review your migrated workspace and take a few follow-up steps before continuing your analysis.

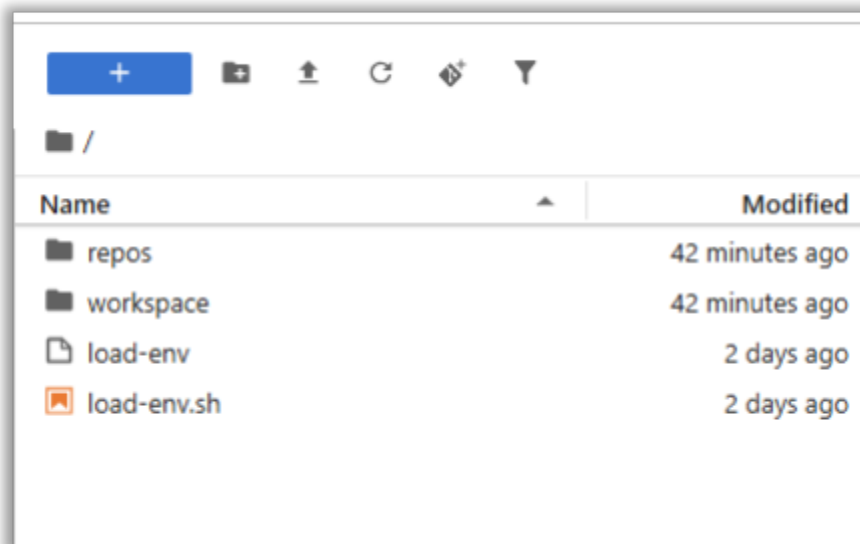
Confirm Your Migrated Workspace

Once migration finishes

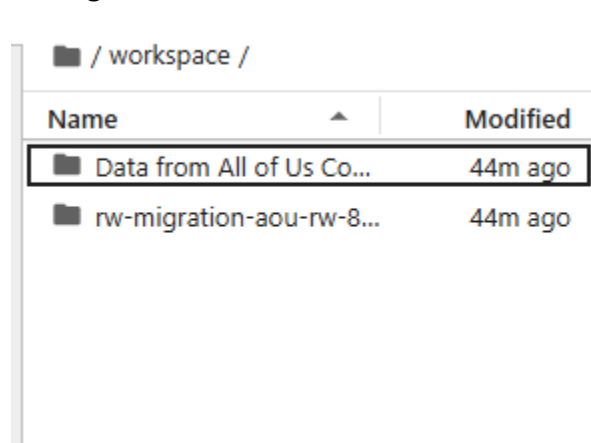
- Open the migrated workspace in Researcher Workbench 2.0
- Navigate to the Resources tab to confirm that your workspace files are present. Your bucket contents will be relocated to a folder named rw-migration-XXXX, where XXXX is an alphanumeric string. To view a preview of the bucket contents, select “Browse.”



- Alternatively, you can view your notebooks through the Jupyter File Management System.
- Workspace buckets within Researcher Workbench 2.0 are configured with an auto-mount feature. Your migrated files will be placed within the auto-mounted bucket which is called **workspace**.



- By double-clicking the **workspace** folder, you will be taken to the next folder level which will then contain your migrated bucket contents from legacy Workbench. Your migrated data will be in a folder starting with **rw-migration-aou-rw-XXXXXXXX**.



- Verify that notebooks, scripts, and data files open as expected.

Workspace files stored in the workspace bucket should now be accessible in Researcher Workbench 2.0. You may also access files using command-line tools (e.g., gsutil) from supported analysis environments such as JupyterLab. To learn more about storage in Researcher Workbench 2.0, please review [this Office Hours session](#).

Note: Following workspace migration, there may be a brief delay before resources appear. Please allow up to 30 minutes for content to populate in the Google Cloud Storage (GCS) bucket, and wait at least 30 minutes before creating an app environment in the migrated workspace.

Update Code and Re-Create Analysis Objects

After migration, some changes may be required before resuming analysis in Researcher Workbench 2.0. These changes are expected due to differences in tooling, data references, and environment setup between legacy Workbench and Researcher Workbench 2.0.

Helpful tips:

- Familiarize yourself with Researcher Workbench 2.0 by reviewing tips and recommendations in Featured Workspaces:
 - [All of Us Tutorial Workspace: Workspace Migration Registered Tier](#)
 - [All of Us Tutorial Workspace: Workspace Migration Controlled Tier](#)
 - [All of Us Tutorial Workspace: Getting Started with Registered Tier Data \(v8\)](#)
 - [All of Us Tutorial Workspace: Getting Started with Controlled Tier Data \(v8\)](#)
- Update SQL queries to reference appropriate CDR resources in Researcher Workbench 2.0
 - For example, remove use of RW 1.0 explicit paths such as “fc-aou-cdr-prod-ct.R2024Q3R8” and use the “wb-affable-acorn-7941.R2024Q3R9.” See [Featured Workspaces](#) to ensure appropriate CDR reference.
- Recreate cohorts and datasets as needed.
 - Use the [Data Explorer tool](#) in Researcher Workbench 2.0 to rebuild the cohorts, datasets, and concept sets that were not migrated.
- Set up your environment.
 - Follow the setup guidance in the Featured Workspaces to configure environment variables.
- Reinstall additional packages.
 - Custom Python or R packages may need to be re-installed.

Some analysis tools and features may become available at different times in Researcher Workbench 2.0. If a tool you previously used is not yet available, refer to the Featured Workspaces for recommended alternatives or updated workflows.

Consider Deleting Your Legacy Workspace

After migration, your workspace will still exist in Researcher Workbench 1.0 until the legacy platform is retired. While you may continue editing your legacy workspace, consider the following:

- Changes made to the workspace after migration will **not** automatically sync to Researcher Workbench 2.0.
- To reflect any updates made in the legacy workspace after migration to Researcher Workbench 2.0, you must return to the legacy workspace and re-sync the files for migration. Note: Re-syncing a previously migrated workspace will overwrite the files that were migrated earlier.

- You will continue **to incur storage costs** for legacy Workbench workspaces until they are deleted.

Recommendation: Once you have confirmed your work is complete and functioning in Researcher Workbench 2.0, delete the corresponding legacy Workbench workspace to avoid unnecessary storage costs. We highly recommend continuing analysis in Researcher Workbench 2.0 after a workspace has been migrated to prevent file override issues.

Step 4 Validation - Completion Checklist

Before fully transitioning your work to Researcher Workbench 2.0, confirm that you have:

- Opened and reviewed the migrated workspace in Researcher Workbench 2.0
- Verified that all expected files are present
- Updated SQL queries or code where required
- Recreated cohorts or datasets using the Data Explorer
- Confirmed your analysis runs successfully in Researcher Workbench 2.0

Once these steps are complete, you can continue your research in Researcher Workbench 2.0.

What Happens If You Do Not Migrate a Workspace

Workspaces that are not manually migrated will be archived through a system-led archival process. Archived workspaces are not active for analysis but may be recovered during the retention period. More information on this process will be provided soon.

Recommendation and Resources

If you plan to continue working with a legacy workspace, we **strongly recommend** migrating it to Researcher Workbench 2.0. Migration ensures immediate access, avoids delays associated with restoration, and provides the most seamless transition to the new platform.

Workspace Status

	Migrated Workspace	Archived Workspace	Deleted Workspace
Workspace availability	✓ Fully active and available for analysis	— Not active for analysis	✗ Permanently removed
Files in the workspace bucket	✓ Copied to Researcher Workbench 2.0	Moved to archival storage	✗ Permanently deleted
Persistent disk files	✗ Not migrated	✗ Not archived	✗ Permanently deleted

	(move to bucket pre-migration)		
Cohorts, datasets, concept sets	✗ Not migrated (must be recreated)	✗ Not archived	✗ Permanently deleted
Metadata	✓ Preserved	✓ Preserved	✗ Not preserved
Recovery	— N/A - workspace remains active	✓ Available during retention period	✗ No
Retention period	Ongoing	TBD	✗ None
Costs	Standard Researcher Workbench 2.0 storage and compute costs	TBD	✗ No ongoing costs
Recommended for	Active, ongoing research	Workspaces not selected for active migration	Work that is no longer needed

Additional Resources

The resources below provide step-by-step guidance, troubleshooting support, and opportunities to learn more about Researcher Workbench 2.0 during and after workspace migration.

- [Researcher Workbench 2.0](#)
 - [Getting Started in Researcher Workbench 2.0](#)
 - [Researcher Workbench 2.0 Glossary of Terms and Comparison Guide](#)
 - [Researcher Workbench 2.0 FAQs](#)
- Featured and Tutorial Workspaces
 - [All of Us Tutorial Workspace: Getting Started with Registered Tier Data \(v8\)](#)
 - [All of Us Tutorial Workspace: Getting Started with Controlled Tier Data \(v8\)](#)
- Workspace and Storage Management
 - [Managing Workspaces](#)
 - [Accessing Files](#)
 - [Persistent Disk: Managing and Deleting](#)
 - [Billing and Cost Management in RW 2.0](#)
- Support and Help
 - [Office Hours](#)
 - [Help Desk Support](#)
 - [New User Orientation](#)