

WorkshopPLUS: Azure Databricks Essentials



Azure Databricks Notebooks and Jobs

Template Version: 2.0

Introduction

During this lab, you will learn how to manage notebooks

Estimated Time

45 minutes

Objectives

At the end of this lab, you will be able to:

- Create/Delete notebooks
- Export/Import notebooks
- Attach/Detach notebooks
- Create dashboards using notebooks
- Create jobs and run notebooks via jobs on scheduled basis

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Lab: Manage Notebooks and Jobs

During this lab, you will learn how do manage notebooks in Azure Databricks.

Exercise 1: Create/Delete, Export/Import, Attach/Detach notebooks

This exercise shows how to work with notebooks.

Tasks

1. Start a cluster

You will use the same cluster that was created in the previous lab. If your cluster is in Terminated state, hover over the cluster and click on the play icon to start the cluster

Compute

[All-purpose compute](#) [Job compute](#) [SQL warehouses](#) [Vector Search](#) [Pools](#) [Policies](#) [Apps](#)

Q Filter compute yo...

Created by ▾

☐ Only pinned

Create with Personal Compute ▾

Create compute

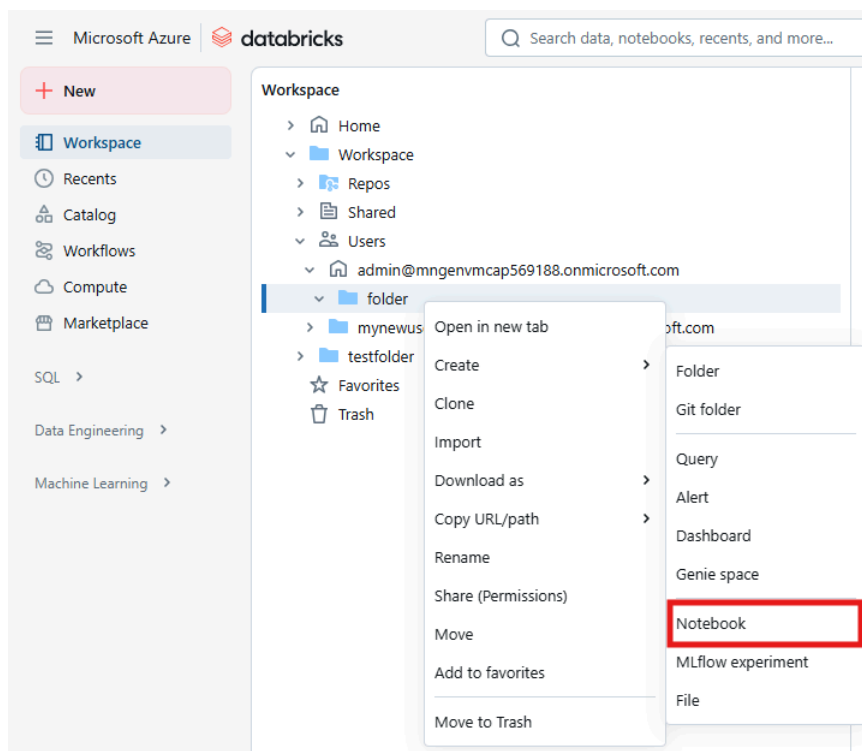
State ▴▾	Name	Policy	Runtime	Active ...	Active c...	Active ...	Source	Creator	Notebo...	
	Databricks Lab Cluster	-	12.2	-	-	-	UI	System A...	-	

2. Create a Notebook

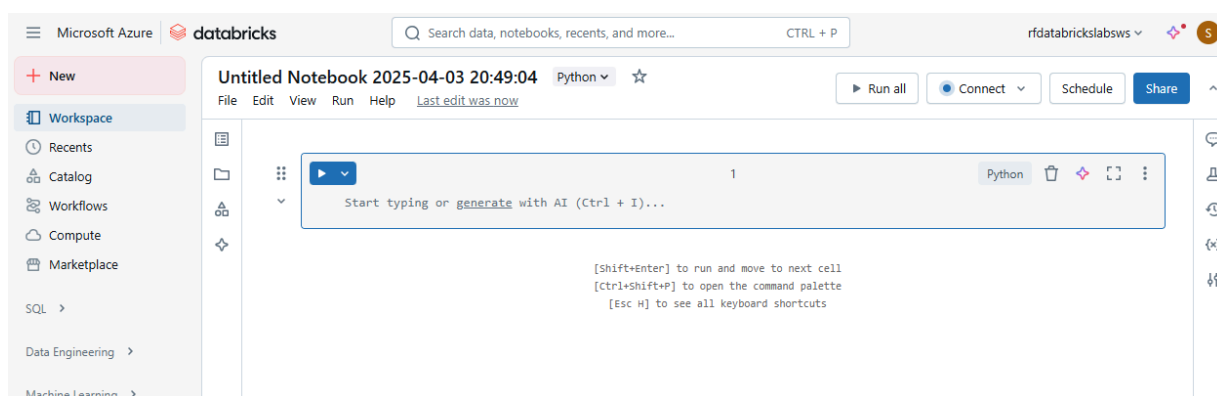
Once the cluster is started, click on Workspaces or on the Home button on the sidebar pane.

You can use an existing folder created in the previous lab to perform the next step.

In the Workspace or a user folder, click the dropdown and select Create -> Notebook.



The notebook will be created and opened.

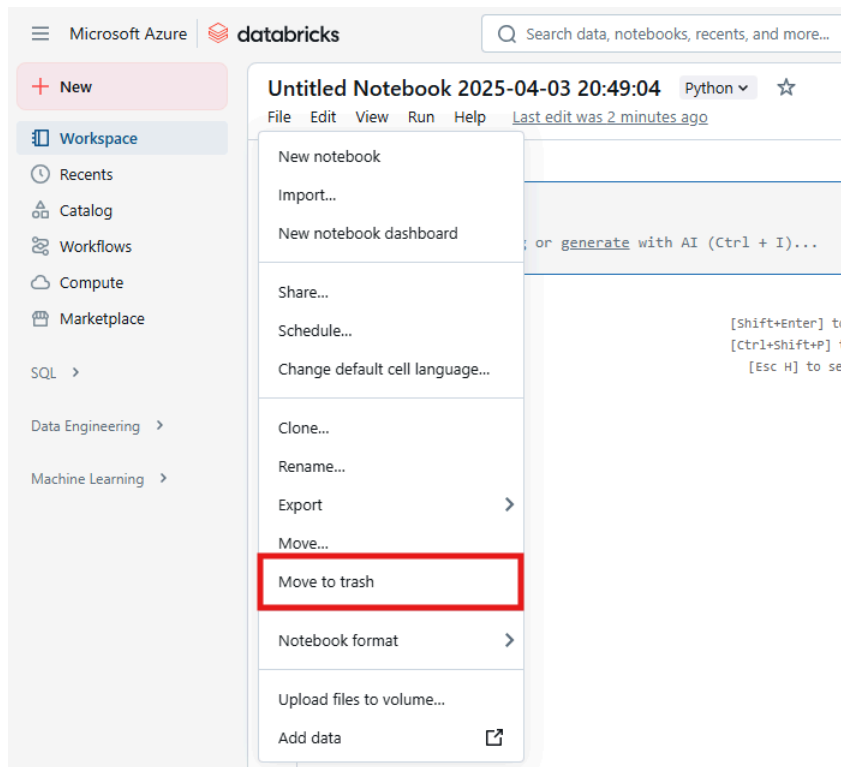


3. How to Delete a Notebook

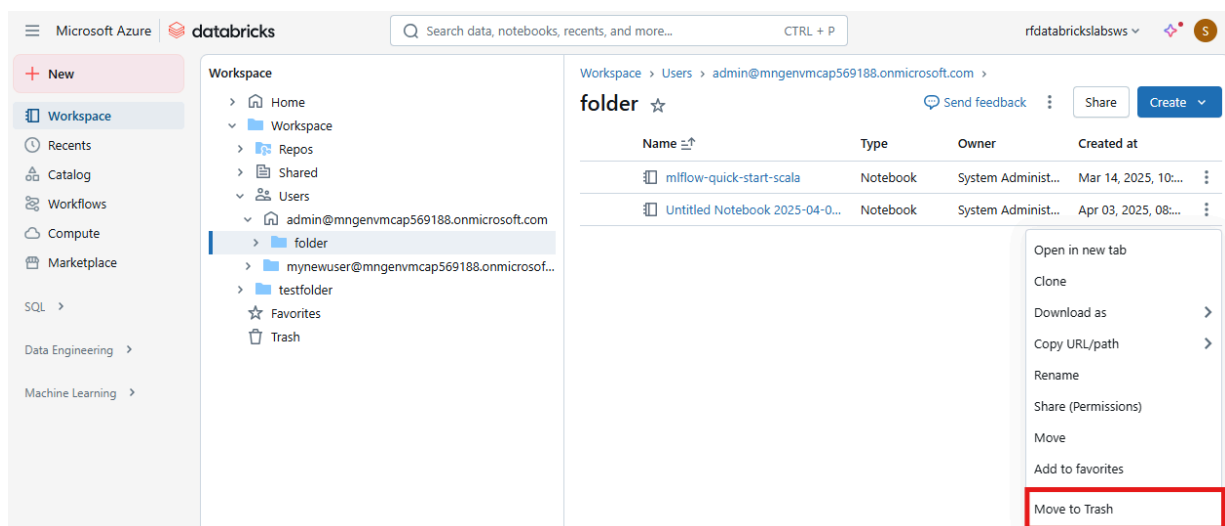
To delete a notebook, do one of the following:

Note: Do not perform the step of deleting the notebook yet. We will need the notebook for next step

Click on the **File** menu while the notebook is opened and click on **"Move to Trash"**

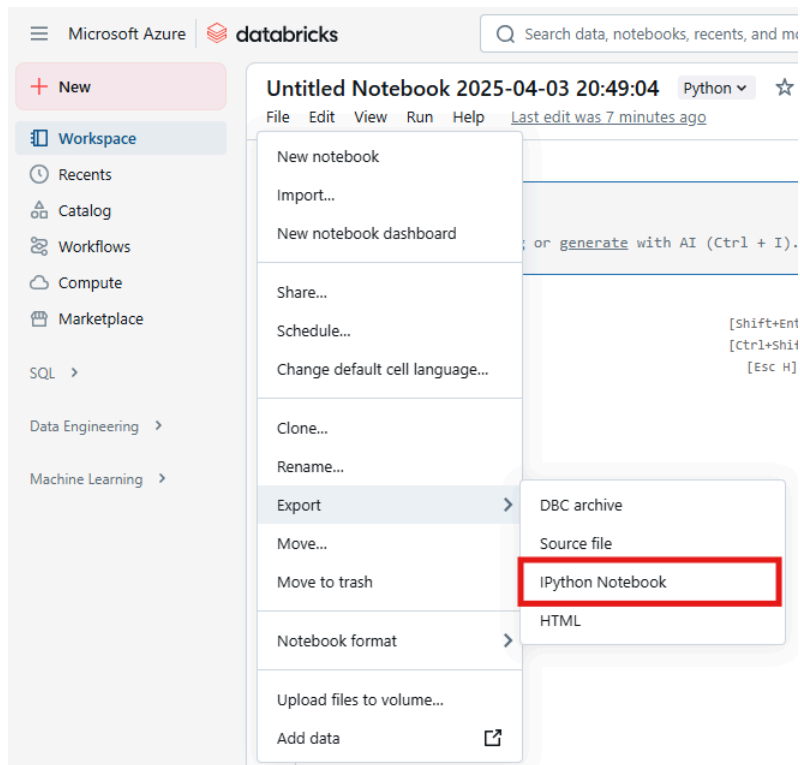


Or, select the notebook from the folder location and select **Move to Trash**

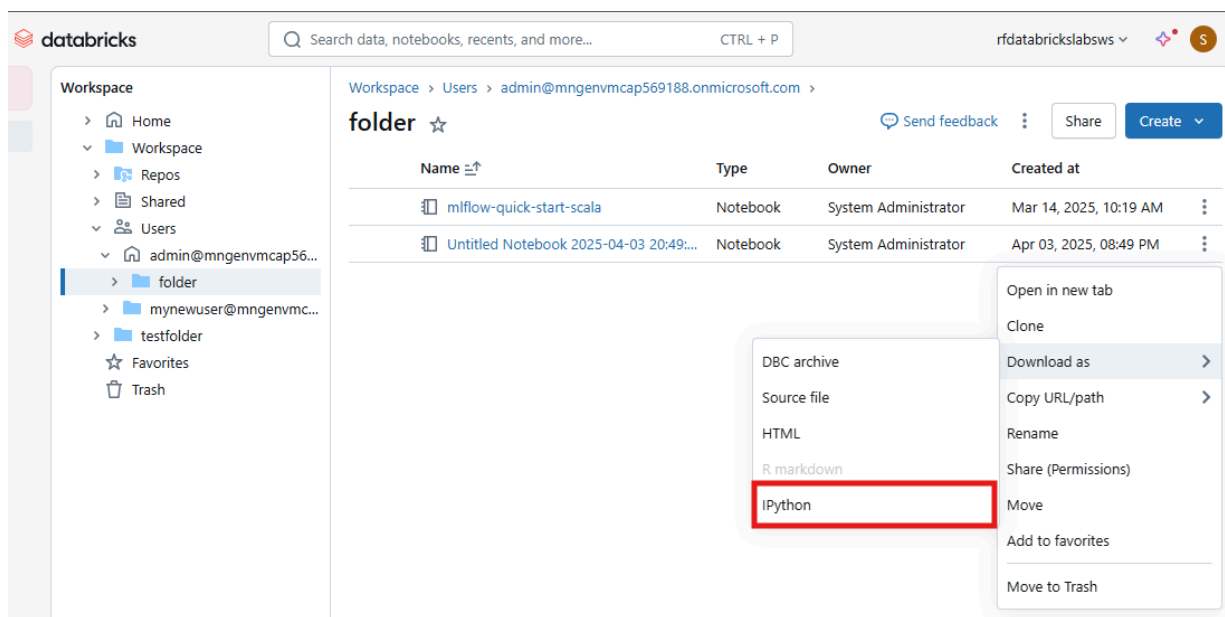


4. Export a Notebook

In the notebook toolbar, select **File > Export** to **Python Notebook** format and save it locally on the machine.



The export option is also available at the workspace level while selecting the notebook as shown below



(Optional)

You may also experiment with saving it to other formats

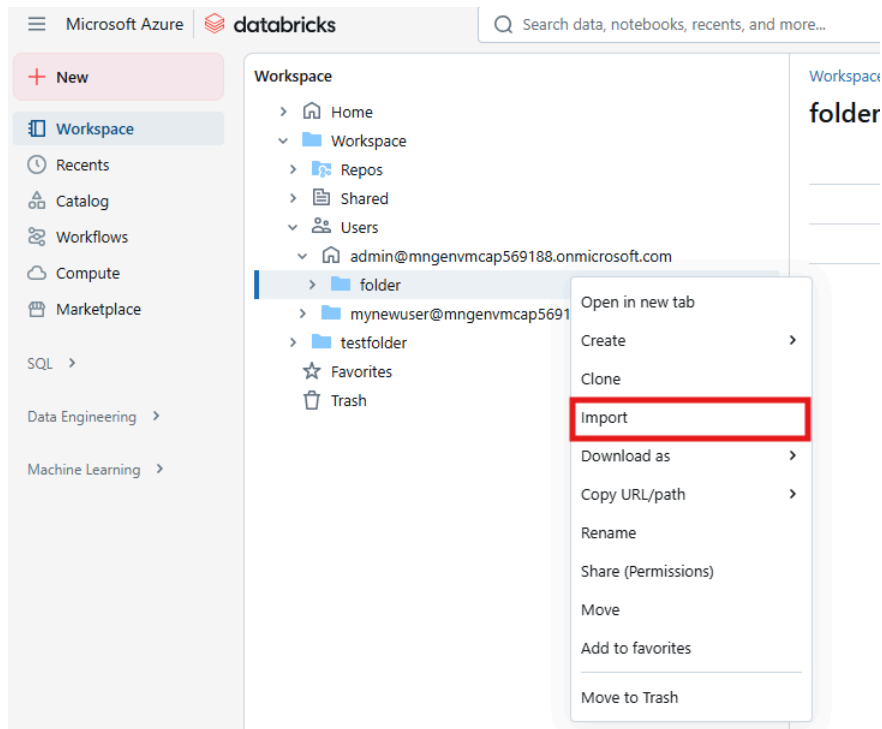
Use the steps in the **Delete** notebook task above to delete the notebook that was exported in this step

5. Import a Notebook

Click the **Workspace** button or the Home button in the sidebar. Do one of the following:

Next to any folder, click the on the right side of the text and select **Import**.

In the **Workspace** or a user folder, click and select **Import**.



Browse to the file that was exported in the earlier step. Click Import.

(Optional)

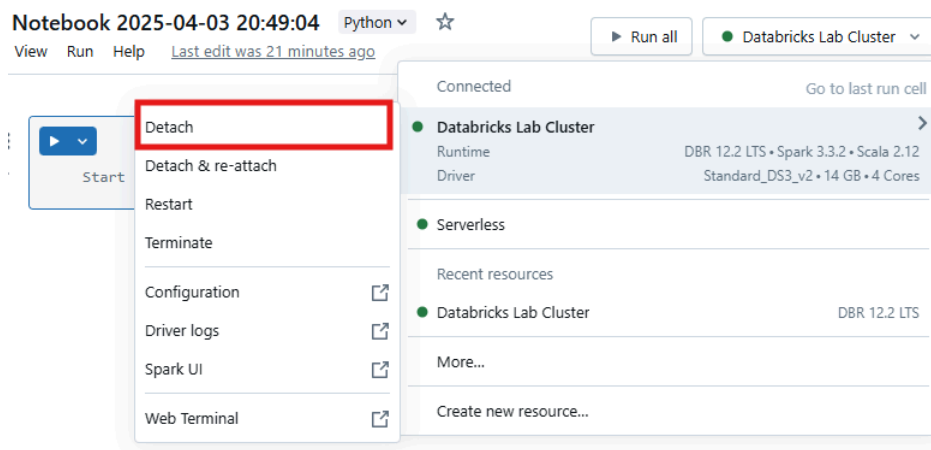
Note that you can import notebooks using a URL too. You can experiment by importing example notebook from the URL link below:

https://docs.databricks.com/_extras/notebooks/source/mlflow/mlflow-quick-start-scala.html

1. Detach a notebook from a cluster

To detach a notebook from a cluster:

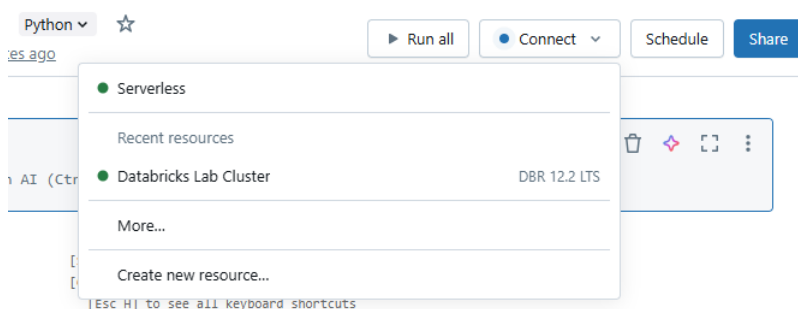
In the notebook toolbar, click the cluster name on the top-right and click Detach



2. Attach a notebook to a cluster

To attach a notebook to a cluster:

In the notebook toolbar, click *Connect* and then select the name of a cluster you want to attach to



Exercise 1 has been completed

Exercise 2: Create dashboards using notebooks

This exercise shows how to create dashboards using notebooks and how to run commands within notebooks

Tasks

1. Use a notebook

You will use the DemoDashboard.ipynb for completing the steps in this lab

Follow the steps in Exercise 1, Task 4 to import the DemoDashboard.ipynb file and attach it to your cluster

Follow the documentation in the notebook to finish the rest of the lab. As you read through the lab, start running the cells to produce and view the output


Exercise 2 has been completed

Exercise 3: Create jobs to run notebooks on scheduled basis

This exercise shows how to create jobs to run notebooks on scheduled basis

Tasks

1. Create a Job

Click on the **Workflows** button  **Workflows** on the sidebar panel.

Workflows

[Jobs](#) [Job runs](#) [Pipelines](#) [Send feedback](#)

Owned by me Accessible by me Favorites Tags Load tutorial Create job

Name	Tags	Created by	Trigger	Recent runs	
<div><div></div><div></div><div></div><div></div></div> <p>No jobs found.</p>					

Click + **Create Job**. The tasks detail page displays.

Microsoft Azure

databricks

Search data, notebooks, recents, and more... CTRL + P

New

Workspace

Recents

Catalog

Workflows

Compute

Marketplace

SQL

SQL Editor

Queries

Dashboards

Genie

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

Pipelines

Machine Learning

Playground

Experiments

Features

Models

Serving

Workflows > Jobs >

New Job Apr 03, 2025, 09:19 PM ☆

Runs Tasks

Unnamed task

Unspecified path

Job_cluster

Task name*

Type* Notebook

Source* Workspace

Path* Select Notebook

Compute*

Job_cluster 144 GB · 36 Cores · DBR 15.4 LTS · Photon · Spark 3.5.0 · Scala 2.12

Dependent libraries

+ Add

Cancel

Create task

Enter a name in the text field with the placeholder text **Add a name for your job**.

Specify the Task properties:

a. For the Type, select Notebook and then Click **Select notebook**.

In the Select Notebook, click on the folder you imported the DemoDashboard.ipynb notebook from the exercise 2

Select Notebook

Workspace Recents

Repos

Shared

Users

testfolder

admin@mngenvmcap569188.onmic...

mynewuser@mngenvmcap569188...

Trash

DemoDashboard

folder

M02_L03_Lab01

M03_L01_Lab01

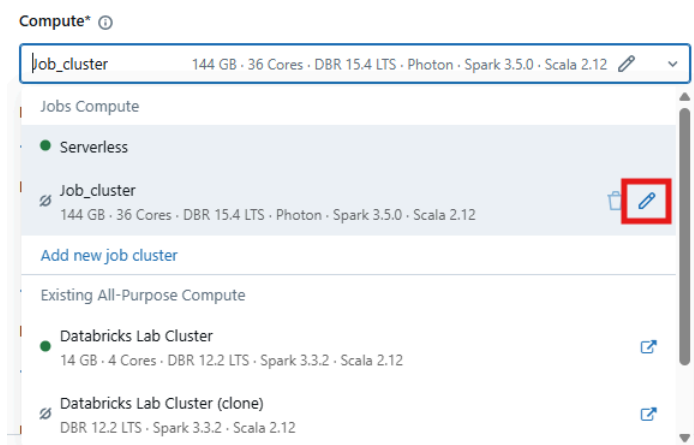
M03_L02_Lab01

Cancel

Confirm

Click on **DemoDashboard** notebook and click **OK**

b. For the cluster, in the dropdown, click on the Edit button in **New Job Cluster**

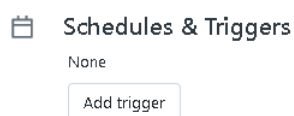


c. In Job Cluster creation form select **Single Node**, choose the same databricks runtime and Node type. Click on **Confirm** button

Note: There is a tradeoff between running on a new cluster and on an existing cluster. We recommend that you run on a new cluster for production-level jobs or jobs that are important to complete.

1. Schedule a Job

a. In the Job details click on **Add trigger** under the *Schedules & Triggers* section



b. Select **Scheduled** as Trigger Type and set a schedule as shown below or a scheduled as desired

Schedules & Triggers

Trigger type

None (manual)

Scheduled
File arrival
Continuous ?

Cancel
Save

Schedules & Triggers

Trigger Status

☒ Active
☐ Paused

Trigger type

Scheduled

Schedule ?

Every
Day
at
00
:
01
(UTC+00:00) UTC

☐ Show cron syntax

Cancel
Save

c. Click on **Edit Notifications** under the **Notifications** section

Notifications ?

No notifications

Edit notifications

click on the + **Add notification** button

Notifications

No notifications set for this job
You can send notifications to email addresses or [system destinations](#) like Slack, webhooks...

+ Add notification

Select Email as **destination**:

