Migrating JAR/WHEEL Libraries from DBFS to Unity Catalog Volumes

This guide explains how to migrate existing `.jar` or `.whl` files from `dbfs:/` to Unity Catalog Volumes to support UC-enabled clusters.

# Prerequisites

- Unity Catalog is enabled in your workspace.  
- You have a Catalog, Schema, and Volume created.  
- Your user or group has WRITE permissions on the Volume.

# Step-by-Step Instructions

## 1. Identify Existing JAR/WHEEL Location

Locate your current library path on DBFS, e.g.:  
```  
dbfs:/FileStore/jars/my\_library-1.0.0.jar  
```

## 2. Create a Volume (If not already created)

Go to the Data tab in the workspace UI or run the following in a notebook:  
```  
spark.sql("""  
CREATE VOLUME IF NOT EXISTS your\_catalog.your\_schema.my\_libraries  
COMMENT 'Volume to store custom libraries'  
""")  
```

## 3. Upload the File to the Volume

Option 1: Using the Databricks UI

- Navigate to Data > Volumes > your\_catalog.your\_schema.my\_libraries  
- Click Upload and select your `.jar` or `.whl` file.

Option 2: Using Code (If copying from DBFS)

```  
dbutils.fs.cp(  
 "dbfs:/FileStore/jars/my\_library-1.0.0.jar",  
 "Volumes/your\_catalog/your\_schema/my\_libraries/my\_library-1.0.0.jar"  
)  
```

🔐 Note: Make sure your current cluster has access to both paths during copy.

## 4. Attach Library to UC-Enabled Cluster

- Go to your UC-enabled cluster.  
- Under Libraries, click Install New.  
- Choose "Workspace Files" or "Upload manually".  
- Browse to:  
```  
/Volumes/your\_catalog/your\_schema/my\_libraries/my\_library-1.0.0.jar  
```

## 5. Restart the Cluster (if required)

Some library types (e.g., JDBC connectors) may require a cluster restart.

# Example

```  
Old path: dbfs:/FileStore/jars/my\_etl\_lib.whl  
New path: /Volumes/main.shared.my\_libs/my\_etl\_lib.whl  
```