# Copilot

Certainly! Let's break down the steps for setting up roles and permissions in **Unity Catalog** in **Azure Databricks**, creating a **Snowflake connection**, and creating a Unity Catalog with the specified connection:

1. **Roles and Permissions Setup in Unity Catalog:**
   * Unity Catalog allows you to control access to data and other objects. You can set access controls using Catalog Explorer, SQL statements in notebooks or Databricks SQL queries, using the Unity Catalog REST API, or using Terraform.
   * Initially, users have no access to data in a metastore. Access can be granted by either a metastore admin, the owner of an object, or the owner of the catalog or schema that contains the object.
   * Admin privileges are available for Azure Databricks account admins, workspace admins, and metastore admins[**1**](https://docs.snowflake.com/en/sql-reference/sql/create-connection).
   * Object ownership is important; owners have all privileges on the object and can grant permissions to other principals.
   * Unity Catalog privileges can be granted by metastore admins, object owners, or catalog/schema owners[**2**](https://knowledge.informatica.com/s/article/HOW-TO-Create-IICS-Snowflake-connection).
2. **Create a Snowflake Connection:**
   * To create a Snowflake connection, you can use SQL commands. The CREATE CONNECTION statement allows you to define a new connection in your Snowflake account.
   * For example:
   * You can also create a secondary connection as a replica of a primary connection:
   * Make sure you have the necessary permissions and configure the connection details[**3**](https://community.snowflake.com/s/article/Connect-to-Snowflake-from-Visual-Studio-using-the-NET-Connector).
3. **Create Unity Catalog with the Snowflake Connection:**
   * Ensure your Azure Databricks workspace is enabled for Unity Catalog. If it was automatically enabled, you'll have an automatically-provisioned Unity Catalog metastore.
   * Workspace admins are default owners of the workspace catalog, which is bound to your workspace.
   * You can create a catalog using SQL commands or Catalog Explorer:
   * The cluster running the notebook must use a Unity Catalog-compliant access mode[**4**](https://docs.snowflake.com/en/developer-guide/python-connector/python-connector-connect).

Remember to adjust the commands and details according to your specific environment and requirements. If you need further assistance, feel free to ask! 😊

Source(s)

1. [CREATE CONNECTION | Snowflake Documentation](https://docs.snowflake.com/en/sql-reference/sql/create-connection)

2. [HOW TO: Create IICS Snowflake connection - Informatica](https://knowledge.informatica.com/s/article/HOW-TO-Create-IICS-Snowflake-connection)

3. [Connect to Snowflake from Visual Studio using the .NET Connector](https://community.snowflake.com/s/article/Connect-to-Snowflake-from-Visual-Studio-using-the-NET-Connector)

4. [Connecting to Snowflake with the Python Connector](https://docs.snowflake.com/en/developer-guide/python-connector/python-connector-connect)

5. [Using the Python Connector | Snowflake Documentation](https://docs.snowflake.com/en/developer-guide/python-connector/python-connector-example)

6. [Set up and manage Unity Catalog - Azure Databricks](https://learn.microsoft.com/en-us/azure/databricks/data-governance/unity-catalog/get-started)

7. [Setting up Unity Catalogs in Databricks - bookshelf.erwin.com](https://bookshelf.erwin.com/bookshelf/public_html/12.5/Content/User%20Guides/erwin%20Help/Setting%20up%20Unity%20Catalogs%20in%20Databricks.html)

8. [Deploying pre-requisite resources and enabling Unity Catalog](https://registry.terraform.io/providers/databrickslabs/databricks/latest/docs/guides/unity-catalog)

9. [Unity Catalog best practices - Azure Databricks | Microsoft Learn](https://learn.microsoft.com/en-us/azure/databricks/data-governance/unity-catalog/best-practices)

10. [Create and manage catalogs - Azure Databricks | Microsoft Learn](https://learn.microsoft.com/en-us/azure/databricks/data-governance/unity-catalog/create-catalogs)

11. [Manage privileges in Unity Catalog - Azure Databricks](https://learn.microsoft.com/en-us/azure/databricks/data-governance/unity-catalog/manage-privileges/)

12. [Manage Unity Catalog permissions in Catalog Explorer - Azure Databricks ...](https://learn.microsoft.com/en-us/azure/databricks/catalog-explorer/manage-permissions)

13. [Admin privileges in Unity Catalog - Azure Databricks](https://learn.microsoft.com/en-us/azure/databricks/data-governance/unity-catalog/manage-privileges/admin-privileges)

14. [Unity Catalog Data Permissions Tour | Databricks](https://www.databricks.com/resources/demos/tours/governance/unity-catalog-data-permissions-and-external-locations)

15. [Unity Catalog privileges and securable objects - Databricks](https://docs.databricks.com/en/data-governance/unity-catalog/manage-privileges/privileges.html)

16. [Manage privileges in Unity Catalog | Databricks on AWS](https://docs.databricks.com/en/data-governance/unity-catalog/manage-privileges/index.html)

17. [Manage privileges in Unity Catalog | Databricks on Google Cloud](https://docs.gcp.databricks.com/en/data-governance/unity-catalog/manage-privileges/index.html)

18. [en.wikipedia.org](https://en.wikipedia.org/wiki/Unity_(game_engine))