

DEVELOP THE PYTHON SCRIPT

PUBLISH DATA TO THE IBM CLOUD

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|---------------|---|
| Date | 03 November 2022 |
| Team ID | PNT2022TMID33098 |
| Project Name | Project – IOT Based Real – time River Water Quality Monitoring and Control System |
| Maximum Marks | 4 Marks |

You can publish your virtual data to catalogs in Watson™ Knowledge Catalog. An administrator can configure Data Virtualization to automatically publish all virtual objects that are created in the user interface to a configured primary catalog.

By publishing your virtual data to a catalog, you can:

- *Organize, label, classify, and search for the published data assets with global search.
- *Govern the virtual data asset and subject it to data protection rules by [enabling policy enforcement](#) in Data
- *Navigate to **Service settings**.
- *On the **Governance** tab, enable the **Enforce publishing to a governed catalog** option.

A list of governed catalogs that you have Admin access to is shown. You must select a governed catalog as your primary catalog. When you set a primary catalog, all

Service settings ▾

General **Governance** Scaling settings Scaling history Access >

Enforcement
Turning policy and publishing enforcement on or off will impact where your objects can be published to and whether they will be governed. If you choose to enforce publishing, you must select a governed catalog as the primary catalog.

Enforce policies within Data Virtualization ⓘ ☒ On

Enforce publishing to a governed catalog ☒ On

Select a governed catalog as your primary catalog
All virtual objects will be published to the selected catalog and will be governed through the Watson Knowledge Catalog service. You can choose one of the following governed catalogs that you owned.

🔍 Find catalog by Name, Owner, Description

| | Catalog name | Owner | Date created | Description |
|----------------------------------|--------------|------------------|--------------|-------------|
| <input checked="" type="radio"/> | wkc0 | IBMid-6610020D12 | Jun 11, 2021 | |
| <input type="radio"/> | wkc1 | IBMid-6610020D12 | Jun 11, 2021 | |

virtualized objects are published to this catalog automatically. The **Publish to catalog** option is disabled when you review your cart and virtualize tables.

1. On the service menu, click **Virtualization** > **Virtualized data**.
2. Select the virtual objects that you want to publish and click **Publish to catalog**.

The screenshot shows the IBM Cloud Pak for Data interface. The top navigation bar includes the IBM Cloud Pak for Data logo, a search bar, and a user profile. The main content area is titled 'Review cart and virtualize tables'. On the left, there is a section 'Assign to' with two radio buttons: 'Project' and 'My virtualized data'. Below this is a table titled 'Objects to be virtualized' with columns 'Table', 'Schema', and 'Source schema'. The table lists three rows: 'CONTEXT', 'SYSADMIN', and 'VALIDATE'. On the right, there is a section 'Also publish to' with a checked 'Publish to catalog' option. Below this is a dropdown menu 'Select a catalog' with a list of catalogs: 'wkc0' (Governed), 'DevCatalog' (Not governed), 'TestCatalog' (Not governed), and 'wkc1' (Governed). A red box highlights the 'Also publish to' section and the catalog selection dropdown.

IBM Cloud Pak for Data All Search Upgrade 2298608 - GuobinJ Zhao's... GZ

Data Virtualization / cqwwwu-devstable-0621

Review cart and virtualize tables

Empty cart Back Virtualize

Assign to

☐ Project ☒ My virtualized data

Objects to be virtualized

| Table | Schema | Source schema |
|----------|---------------|---------------|
| CONTEXT | DV_IBM... x v | AUDIT |
| SYSADMIN | DV_IBM... x v | AUDIT |
| VALIDATE | DV_IBM... x v | AUDIT |

Also publish to

☒ Publish to catalog

Select a catalog

- wkc0 Governed
- DevCatalog Not governed
- TestCatalog Not governed
- wkc1 Governed

rouped tables

3. Continue with the virtualization process