

Environment Configuration

watsonx.governance

Hands-on Lab Guide



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Environment configuration

Introduction

This hands-on lab will guide you through provisioning and configuring an environment for the different hands-on labs that make up the [Configuration](#) section of the watsonx.governance Level 4 for Practitioners course, including:

- User management
- Risks and risk assessments
- Building and customizing workflows

These instructions were written for OpenPages 9.1.0.1, running on Cloud Pak for Data 5.2.0 as provisioned in TechZone. Note that subsequent versions of the watsonx governance console (OpenPages), Cloud Pak for Data, and IBM Software Hub may alter the terminology and screens involved with the product. Please contact the lab authors with any major discrepancies. Every effort will be made to keep the lab updated.

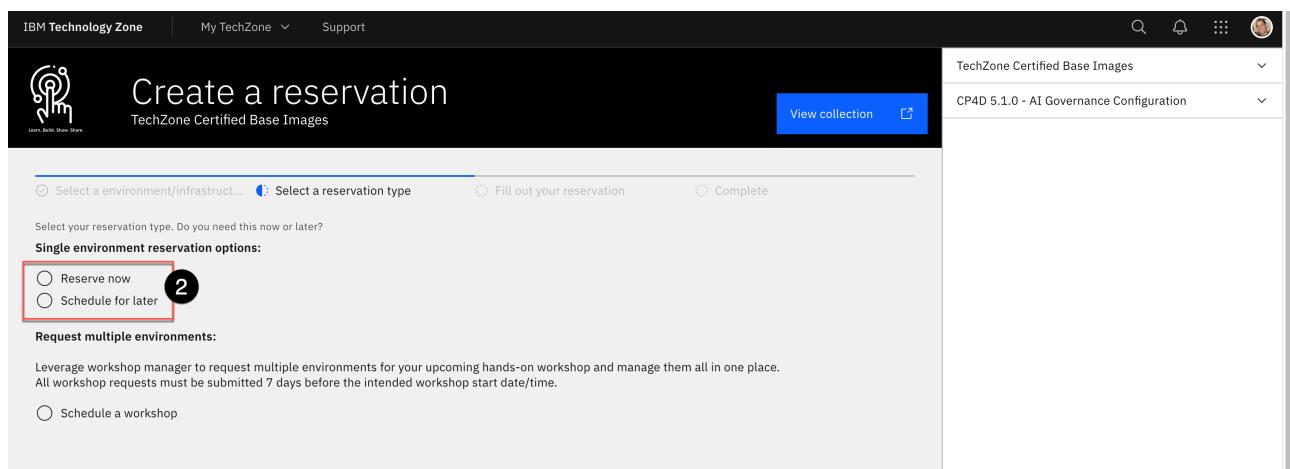
Provision the environment

In this section, you will provision an environment in IBM TechZone. Note that environments can take up to eight hours to provision, and are available only for a specified amount of time for education purposes. Environment reservations can be extended on request, particularly if you have an opportunity number associated with the reservation.

1. Provision the environment in TechZone

Environments are provisioned in IBM TechZone. Once you submit a request, the environment will be created. When the environment is ready, software will be installed.

1. In your browser, navigate to [the environment in IBM TechZone](#).
2. In the form, click on the appropriate radio button to either [Reserve now](#) or [Schedule for later](#).



The screenshot shows the 'Create a reservation' page in IBM TechZone. At the top, there are navigation links for 'IBM Technology Zone', 'My TechZone', and 'Support'. On the right, there are dropdown menus for 'TechZone Certified Base Images' and 'CP4D 5.1.0 - AI Governance Configuration'. The main heading is 'Create a reservation' under 'TechZone Certified Base Images'. Below it, there are four steps: 'Select a environment/infrastructure...', 'Select a reservation type', 'Fill out your reservation', and 'Complete'. Under 'Single environment reservation options:', there are two radio buttons: 'Reserve now' (selected) and 'Schedule for later'. A red box surrounds the 'Reserve now' button, and a black circle with the number 2 is placed over it. Below this, there's a section for 'Request multiple environments:' with a note about using the workshop manager. At the bottom, there's a link to 'Schedule a workshop'.

3. Fill out the form. Give your reservation a name (A), or leave the default name in place.

Click on the appropriate tile for **Purpose** (B). Note that the length of the reservation may differ based on the purpose you select, and that purposes are subject to certain restrictions. For example, most users are allowed to have two different **Education** reservations at any given time.

Enter a **Sales Opportunity number** (C) if you have one associated with your reservation. This is not required, but will increase the default duration of the reservation.

Provide a **Purpose description** (D) for the reservation.

The screenshot shows the IBM Technology Zone reservation form. Key elements include:

- A:** A red box highlights the "Name this reservation. This will help identify it" input field where "watsonx.governance Level 4 Labs 5.2.x" is entered.
- B:** A red box highlights the "Education" purpose selection box, which is checked. The description states: "Gaining experience with specific technology, product, or solution."
- C:** A red box highlights the "Sales Opportunity number" input field, which contains "Enter an opportunity number".
- D:** A red box highlights the "Purpose description" input field, which contains "Complete the watsonx.governance for Practitioners Level 4 labs."

4. Click on the **Preferred Geography** dropdown (A) and select a geography. Your choice here will not affect the lab, so feel free to choose any available. Note that capacity issues can occasionally affect the geographies; if your reservation fails due to capacity issues, select a different geography with your next request.

Check the box in the lower right of the screen (B) to agree to the TechZone terms and conditions.

Click on the **Submit** button (C) to submit your reservation request.

The screenshot shows the IBM Technology Zone reservation form. Key elements include:

- A:** A red box highlights the "Preferred Geography" dropdown menu, which is set to "any - AMERICAS - any region - any datacenter".
- B:** A red box highlights the "I agree to IBM Technology Zone's Terms & Conditions and End User Security Policies" checkbox, which is checked.
- C:** A red box highlights the large blue "Submit" button at the bottom right of the form.

Your environment will begin provisioning. You will receive email notifications from IBM TechZone about the status of your request.

Note that when you receive a notification that your environment is ready, this only indicates that it has been created and can be accessed. The software installation step can take up to four additional hours before the environment is ready to be used for completing the labs.

If your environment fails to provision, you can typically delete your reservation if necessary, then attempt to provision another one. Frequently, selecting a different region will be enough to complete the reservation successfully. In the case of continued failures, contact [TechZone support](#).

2. Log into the environment

When your environment has finished provisioning, you can attempt to log into it.

1. Navigate to the [My reservations](#) page in TechZone.
2. Click on the [Open this environment](#) button on the tile for your reservation.
3. Locate the **Password** field, and click on the **Copy** button (A) to copy it to your clipboard. Click on the [Open your IBM Cloud environment](#) button (B). A new browser tab for RedHat OpenShift opens.

watsonx.governance Level 4 Labs
5.2.x
Without cognos
Date: Aug 20, 2025 7:45 AM | Feb 16, 2026 8:20 AM | Expires in: 177 days, 22 hours, 15 minutes
Status: Ready
Update reservation

Status

Requested Pending Approval Scheduled Provisioning Ready Deleted

Requested an environment Awaiting Approval Set to occur in the future Currently being deployed Available for use No longer accessible

Desktop (B)

Open your IBM Cloud environment

Desktop url: <https://console-openshift-console.apps.68a5d160358f0f4c45d66d6e.ap1.techzone.ibm.com>

Shared Reservation

Username: kubeadmin Password: iF2Sy-xwKN

Purpose

Note that, at this point, if a web page fails to open or you receive an error message saying the server cannot be reached, your environment is likely not useable. You may contact [TechZone support](#), or simply delete your reservation and create a new one.

5. Click on the **kube:admin** button.
6. Enter **kubeadmin** in the **Username** field (A). Paste the password you copied in step 3 into the **Password** field (B). Click on the **Log in** button (C) to log into RedHat OpenShift.

Log in to your account

Username * (A)
kubeadmin

Password * (B)
.....

Log in (C)

Red Hat OpenShift

Welcome to Red Hat OpenShift

The software installer runs in OpenShift as a pipeline. It must complete before you can proceed with the lab.

7. From the OpenShift menu, click on the **Pipelines** menu section (A) to expand it. Click on the **Pipelines** menu item (B). The **Pipelines** screen opens.

The screenshot shows the OpenShift Pipelines interface. On the left, a sidebar menu has 'Pipelines' expanded, with 'Tasks' selected (marked A). The main content area shows pipeline details like Cluster API address and Cluster ID. It includes sections for Status (Cluster, Control Plane, Operators, Insights) and Activity (ongoing events like 'Job completed' and 'Created container').

8. Click on the **PipelineRuns** tab (A) to open the list of pipeline runs.

Locate the [cloud-pak-deployer...](#) run from the list, and verify that **Succeeded** appears in the **Status** column (B). If the status shows **Failed**, you will likely need to delete your environment reservation and create a new one. If it is still in progress, check the **Duration** column. The pipeline frequently takes five hours or more to complete. If it has been running for more than eight hours, it is unlikely to complete successfully and you may need to delete your reservation and provision another.

If the run has successfully completed, click on the [cloud-pak-deployer...](#) link (C). The run details screen opens.

The screenshot shows the PipelineRuns list screen. The 'PipelineRuns' tab is selected (marked A). A table lists pipeline runs, with one entry for 'cloud-pak-deployer-' showing a green 'Succeeded' status (marked B). The run ID 'PLR cloud-pak-deployer-5.1.x-run-xb6lb' is highlighted (marked C).

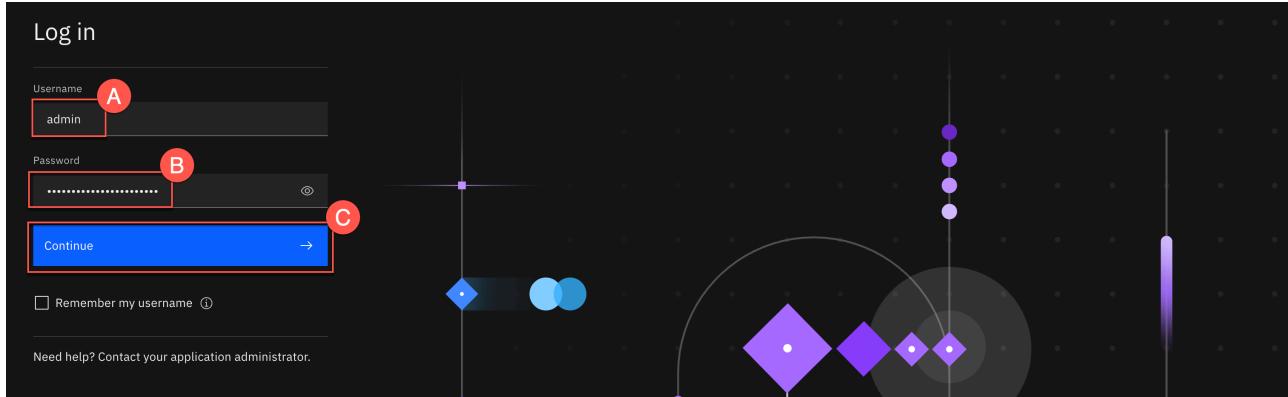
9. Click on the **Logs** tab (A). The log for the [update-configmap-success-no-aim](#) or similar should open as the default (B). If it does not, locate it from the list on the left and click on it.

Copy and paste the **Console Route**, **Username**, and **Password** information from the log screen (C) into a text file. You will use this URL and these credentials to sign into IBM Software Hub and access the watsonx governance console.

The screenshot shows the PipelineRun details screen for 'cloud-pak-deployer-5.1.x-run-xb6lb'. The 'Logs' tab is selected (marked A). A log entry for 'update-configmap-success-no-aim' is shown (marked B). The log content includes 'Console Route: cpd-cpd.apps.68a5d160358 6e.ap1.techzone.ibm.com', 'Username: admin', 'Password: VIfjI-XPweI-YCnWt', and 'configmap/pipeline-output patched' (marked C).

10. Paste the [Console Route](#) URL into a new browser window. The login screen for the environment will load.

11. Enter **admin** in the **Username** field (A). Enter the password in the **Password** field (B). Click on the **Continue** button (C) to log into the IBM Software Hub. The [IBM Software Hub](#) home screen opens.



⚠️ This URL and these credentials will be referenced in the other hands-on labs for this Level 4 course. When you are asked to log into the Cloud Pak for Data or the watsonx environment, use this URL and these credentials.

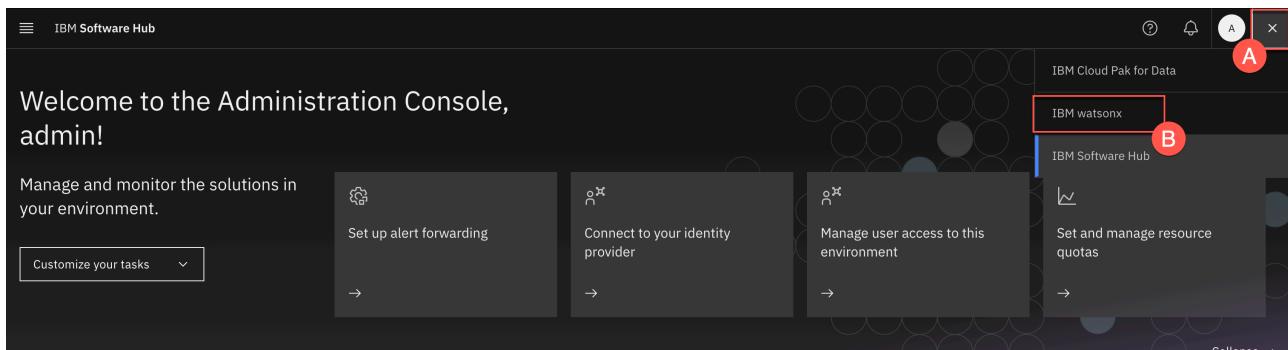
Configure the environment

In the next section, you will perform initial configuration steps. The environment can be viewed in different contexts. For the configuration, the most useful context will be the [IBM watsonx](#) context.

1. Create an AI inventory

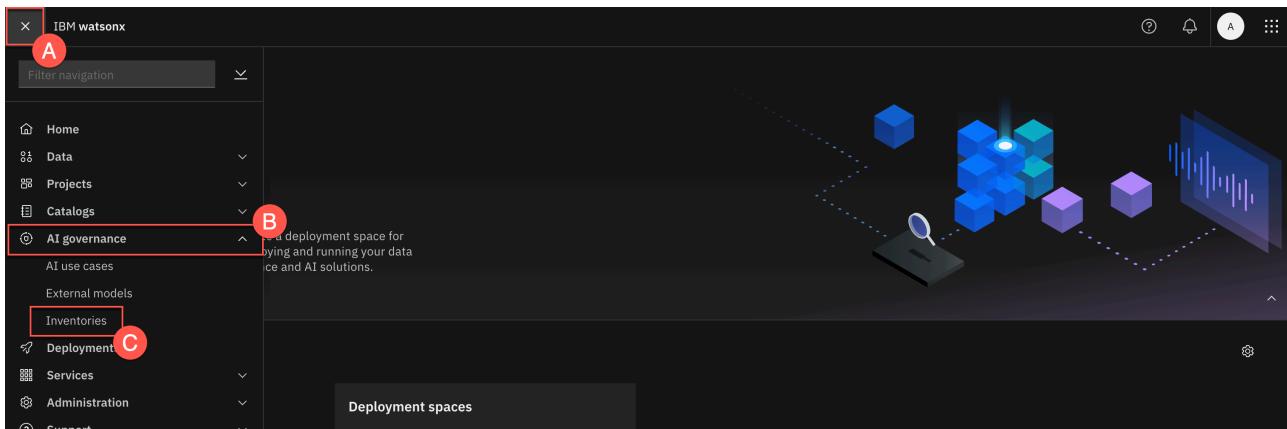
First, you will create an AI inventory in the environment that will contain use cases for the organization, and be integrated with the watsonx governance console.

1. Click on the [Switch locations](#) button in the upper right (A) to open the context menu. Click on the [IBM watsonx](#) context (B) from the list. The home screen will change to the watsonx console.



The first time you log into the environment, you may see a popup window offering a tour of watsonx. You may choose to take the tour by following the prompts on the screen, or you can simply close the popup window and continue with the lab.

2. Click on the [Navigation menu](#) in the upper left (A) to open the menu. Click on the [AI governance](#) menu item (B) to expand it. Click on the [Inventories](#) menu item (C). The [AI use case](#) screen opens.



3. Information on AI use cases is stored in an inventory. Click on the [Complete setup](#) button to create a default inventory for the environment.

AI use case

One more step to secure governance
Further setup is required to securely collect facts to share with watsonx.governance.

[Complete setup](#)

Next, you will turn on integration with the governance console and link it to the new inventory.

2. Enable governance console integration

In this step, you will turn on the integration between the Software Hub or Cloud Pak for Data and the watsonx governance console. Once you enable this integration, any additions, deletions, or changes to AI use cases will be managed by the governance console, and will not be available via the other interfaces. You will also enable external model governance.

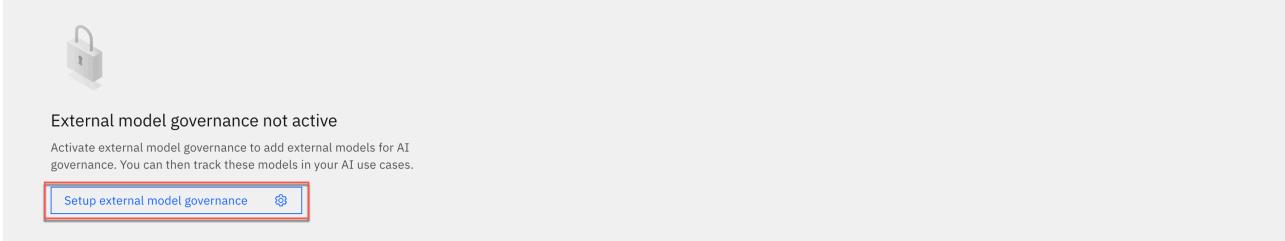
1. Click on the [Navigation menu](#) in the upper left (A) to open the menu. Then, if necessary, click on the [AI governance](#) menu item (B) to expand it. Finally, click on the [External models](#) menu item. The [External models](#) screen opens.

Date created	Creator	Your role
13 seconds ago	AD admin	Admin

New inventory +

2. Click on the [Setup external model governance](#) button.

External models

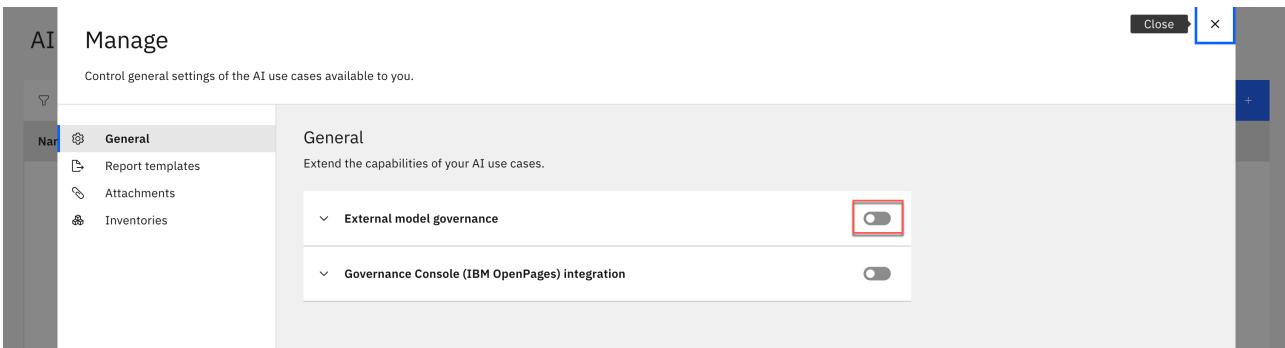


External model governance not active

Activate external model governance to add external models for AI governance. You can then track these models in your AI use cases.

[Setup external model governance](#)

3. Click on the [toggle button](#) in the [External model governance](#) tile. The [Setup external model governance](#) window opens.



AI Manage

Control general settings of the AI use cases available to you.

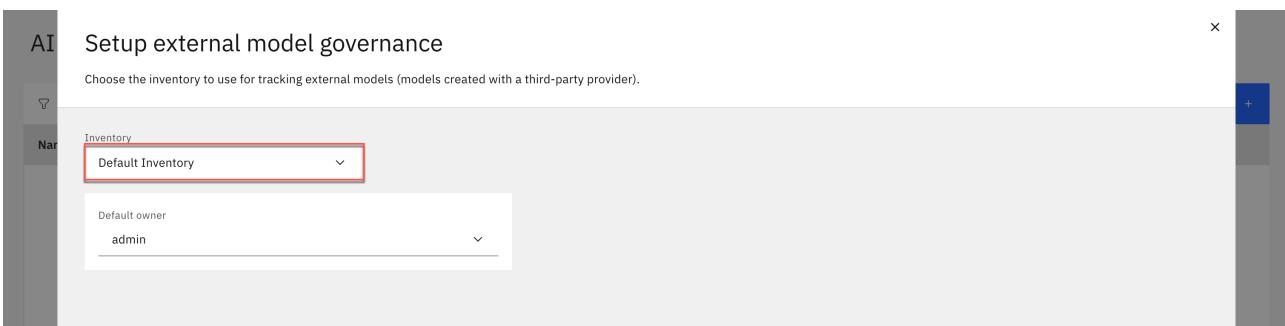
General

Extend the capabilities of your AI use cases.

[External model governance](#)

[Governance Console \(IBM OpenPages\) integration](#)

3. Click on the [Inventory](#) dropdown (A) and select the [Default inventory](#) that was created in the previous step.



AI Setup external model governance

Choose the inventory to use for tracking external models (models created with a third-party provider).

Inventory

[Default Inventory](#)

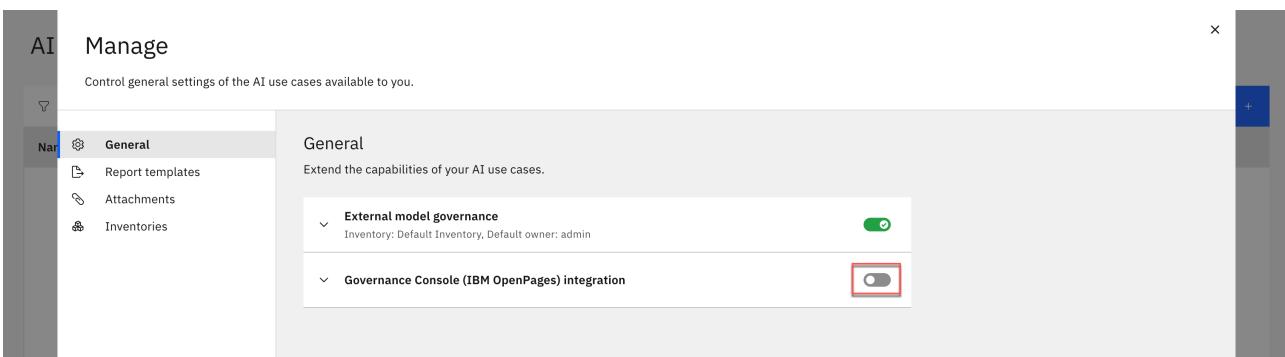
Default owner

admin

4. The [Default owner](#) field should default to the [admin](#) user. Leave this selected, and click on the [Apply](#) button to save your changes. You will be returned to the [Manage](#) window once again.

You may see a warning in the [External model governance](#) panel saying "The selected owner is unknown or does not have administrator rights." You can ignore this warning.

5. Click on the [toggle button](#) in the [Governance console \(IBM OpenPages\) integration](#) tile. The [Setup Governance Console integration](#) window opens.



AI Manage

Control general settings of the AI use cases available to you.

General

Extend the capabilities of your AI use cases.

[External model governance](#)

[Governance Console \(IBM OpenPages\) integration](#)

Note that you can use the **Deployment node** dropdown to specify a connection to an instance of the governance console in the same environment (the **Platform integrated** option) or in another location (the **Standalone** option). For the labs in this course, leave it set to **Platform integrated**.

The configuration should default to **admin** for the **User** and **Default owner** fields, and the **Inventory** should default to the inventory you created in the previous section.

7. Click on the **Apply** button to save your configuration. You will be returned once again to the **Manage** window, and a notification will appear confirming that the governance console integration is now active. Click on the **close button** to close the **Manage** window.

Configure monitoring

In this step, you will configure the watsonx.governance monitoring service, formerly known as OpenScale. The monitoring service provides metrics by capturing model input and output in a database known as a datamart. The datamart also holds information about the models being monitored, as well as the complete history of the metrics gathered.

The datamart requires either a Db2 or PostgreSQL database.

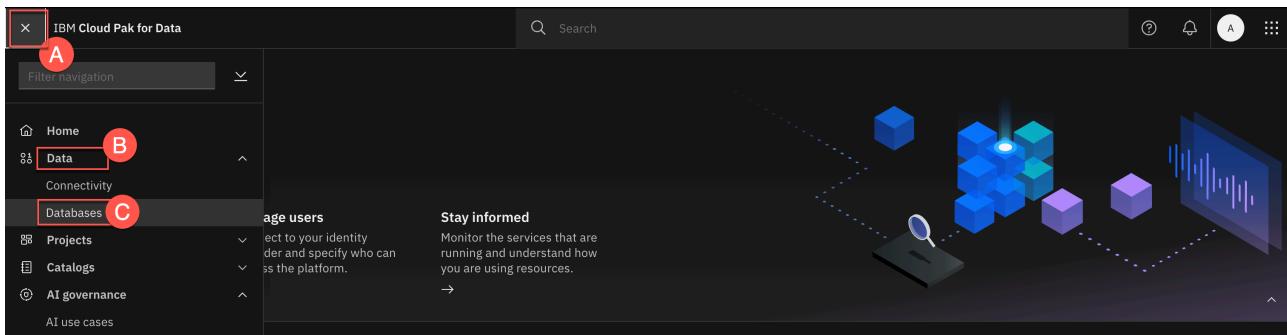
1. Create a database

1. Log back into the watsonx home screen, or return to it by clicking the link in the upper left.

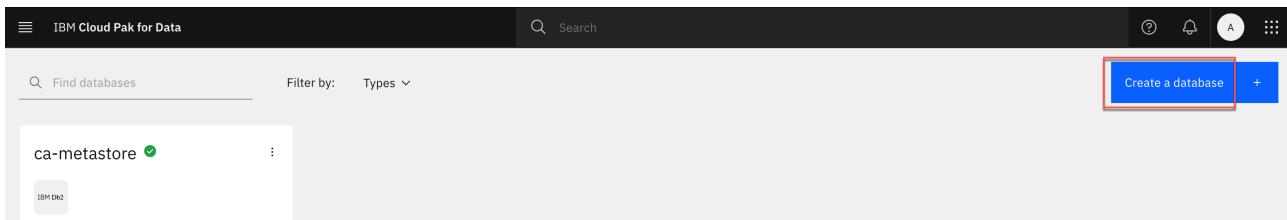
2. From the home screen, click on the **Switch locations** button in the upper right (A) to open the locations list. Click on the **IBM Cloud Pak for Data** location (B) to switch to that context, which will allow you to access and create databases in the environment.

When the page reloads, you should see **IBM Cloud Pak for Data** displayed in the upper left.

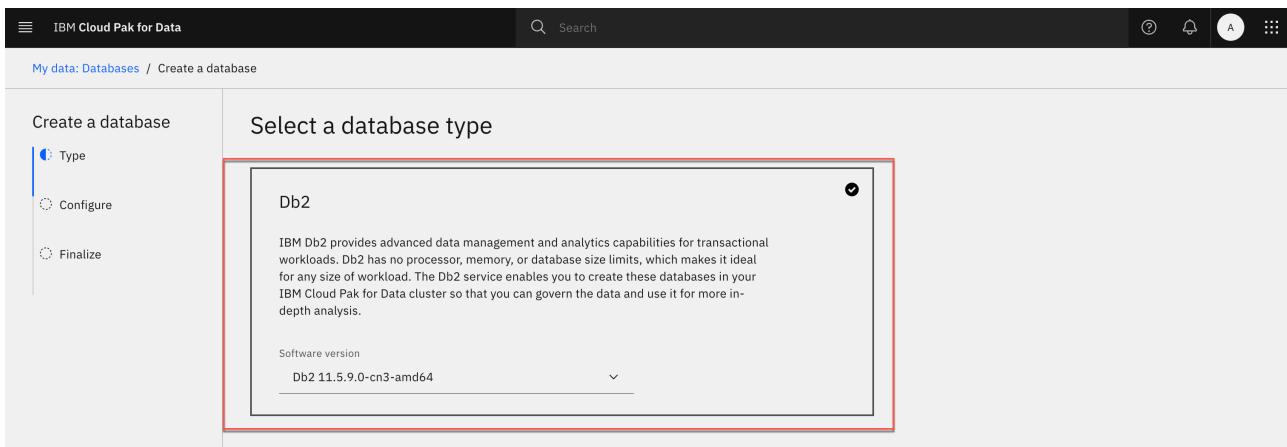
3. Click on the **Navigation menu** in the upper left (A) to open it. Click on the **Data** menu item (B) to expand it. Finally, click on the **Databases** menu item (C). The databases screen opens.



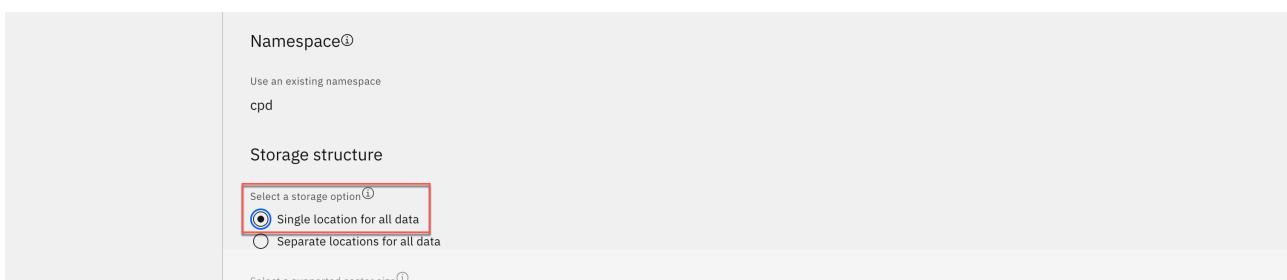
4. Click on the blue **Create a database** button.



5. Verify that the **Db2** tile is selected as the database type, with the most recent software version selected in the dropdown. Click on the **Next** button to continue.



6. Scroll down to the **Storage structure** section of the configuration screen and click on **Single location for all data**. Click on the **Next** button to continue.



7. Leave the settings on the **Advanced configuration** screen unchanged and click **Next** to continue.

8. On the **Credentials** screen, use the **Input method** dropdown to select **Generate a Kubernetes secret** and click **Next** to continue.

My data: Databases / Create a database

Create a database

- Type
- Configure
- Advanced configuration
- Credentials
- Storage

Credentials

Select an input method below. You can use existing credentials from secrets in vaults or generate them by using a Kubernetes secret.

Input method Generate a Kubernetes secret

Continue with defaults

10. On the **Storage** screen, use the **Storage class** dropdown (A) to select the `ocs-storagecluster-cephfs` option. Set the **Size** to **50 GiB** (B) and click **Next** to continue.

⚠ If you do not select the `ocs-storagecluster-cephfs` option, your database will not complete the creation step. Ensure that you select this option.

My data: Databases / Create a database

Create a database

- Type
- Configure
- Advanced configuration
- Credentials
- Storage
- Finalize

Storage

Create new storage
 Use existing storage

Specify how you want to create storage
 Use storage template
 Define storage parameters

Storage class ocs-storagecluster-cephfs (A)

Size 1 1000 50 GiB (B)

Continue with defaults

11. On the **Finalize** screen, you can safely ignore the warning message. Set the **Display name** to `cpd-database` and click **Create**.

Warning
You did not select deployment on dedicated nodes. For production environments, you must deploy the database on one or more dedicated nodes. For information on setting up dedicated nodes, see documentation.

Finalize

Type Configure Advanced configuration Credentials Storage Finalize

Display name cpd-database (A)

Database details Database name BLUDB Database type db2oltp

Storage HADR Disabled Storage class (Storage) ocs-storagecluster-cephfs

The database will take roughly 30 minutes to create. When it is finished, you can proceed to the next step.

2. Gather database credentials

The watsonx.governance service will need to connect to the database you created in order to create and update the datamart. In this step, you will gather the credentials necessary for that connection.

- From your list of databases, locate the tile for the newly-created database and click the three dots in the upper right of the tile (A) to open the context menu. Click on the **Details** menu item (B).

2. Locate the **Deployment id** in the details towards the bottom of the page. Select and copy the value into a text editor.

About this database		Storage	
Database name	BLUDB	Storage class (Storage)	ocs-storagecluster-cephfs
Database type	db2oltp	Size (Storage)	50 GiB
Database software version	11.5.9.0-cn3-amd64	Access information	
Processor	x86-64	JDBC Connection URL	<code>jdbc:db2://<CLUSTER_ACCESSIBLE_IP>:31249/BLUDB:user=admin;password=<password>;securityMechanism=9;encryptionAlgorithm=2;</code>
Deployment id	db2oltp-1755202346940019	JDBC Connection URL (SSL)	<code>jdbc:db2://<CLUSTER_ACCESSIBLE_IP>:30812/BLUDB:user=admin;password=<password>;securityMechanism=9;sslConnection=true;encryptionAlgorithm=2;</code>
Namespace	cpd	Download SSL Certificate	
Created on	Aug 14, 2025 2:12 PM	Status	Available

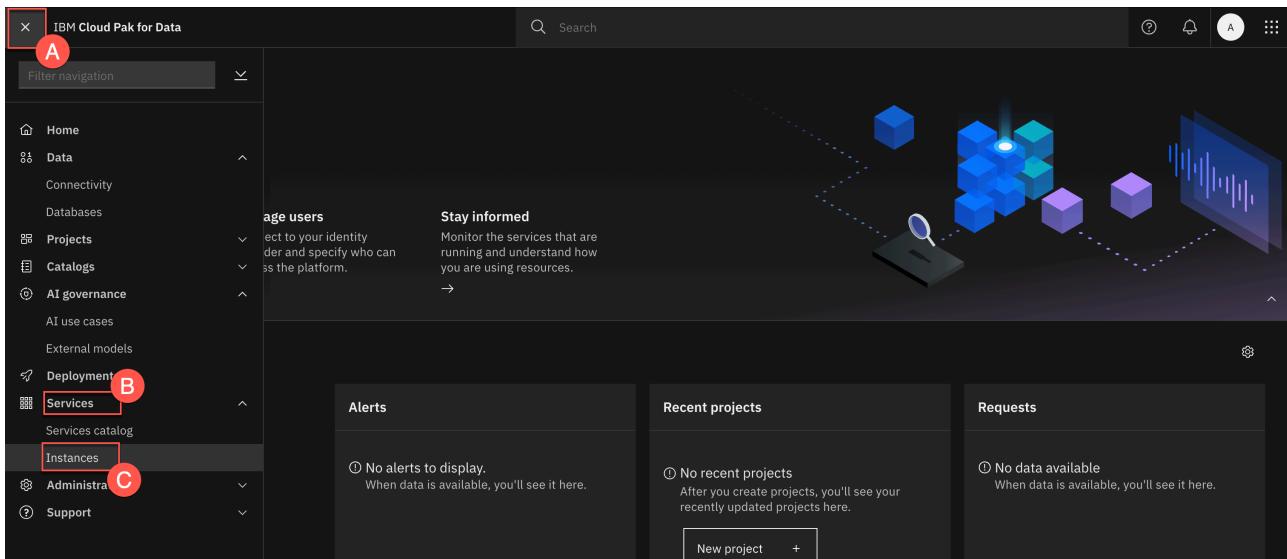
3. In the text editor, add a prefix of **c-** and a suffix of **-db2u** to the deployment ID value from the previous step to create the database host name. For example, in the screenshot below, the database has a deployment ID of **db2oltp-1755202346940019**. The corresponding host name would be **c-db2oltp-1755202346940019-db2u**.

4. Click on the **IBM Cloud Pak for Data** button in the upper left to return to the home screen.

3. Configure the monitoring service

You have created a database and added a user to the monitoring service. You are now ready to connect the database to the watsonx.governance monitoring service.

1. Click on the **Navigation menu** in the upper left of the screen (A). Click on the **Services** menu item (B) to expand it. Click on **Instances** (C) from the menu.

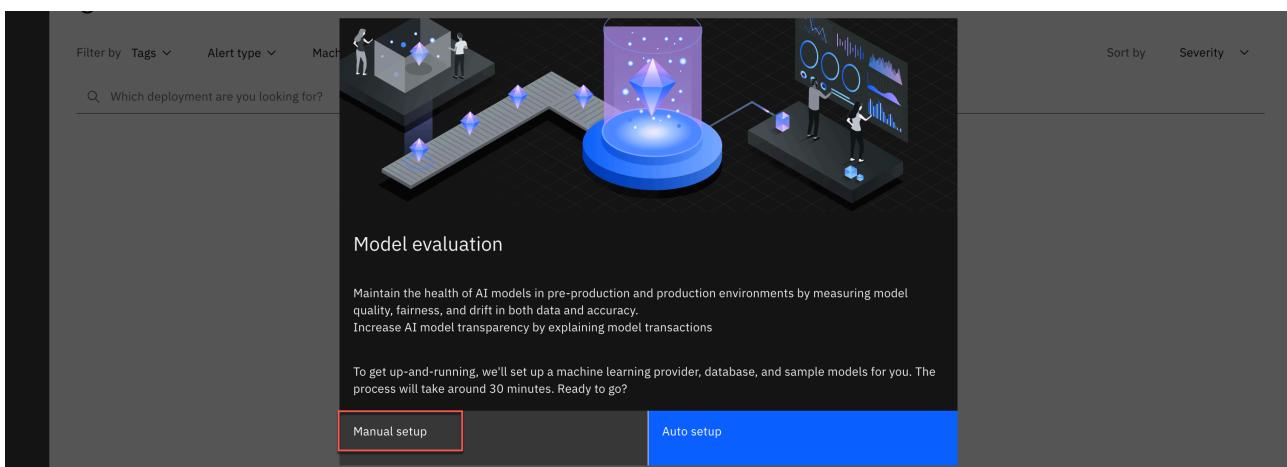


- Locate the **IBM Watson OpenScale** instance from the list and click on it. Note that, on IBM Cloud, this service has been renamed to `watsonx.governance`. Future software releases will likely incorporate this change as well, so this screen may change to reflect the new name.

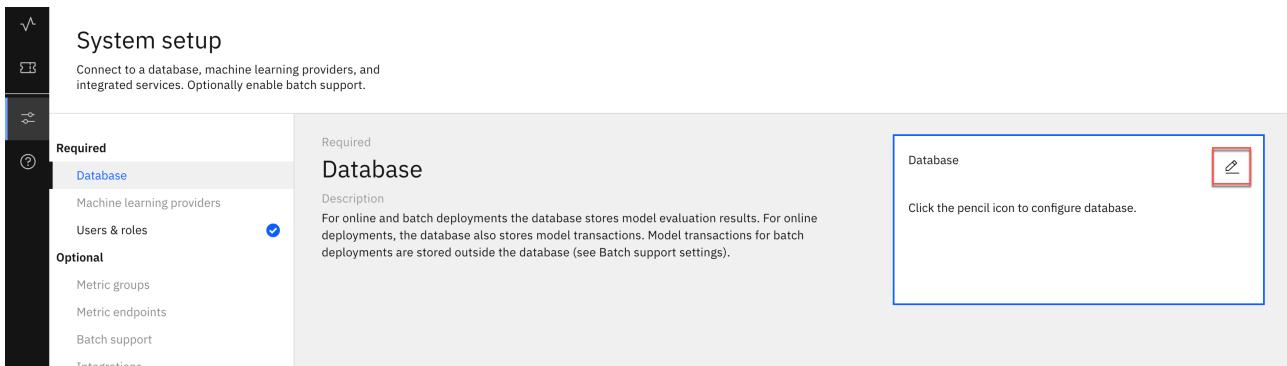
Service instances						Last updated: 8/14/2025 2:30 PM
Name	Type	Data plane	Physical location	Created by	Created on	
cpd-database	Service instance for db2oltp-175t	db2oltp	—	admin	Aug 14, 2025	
ca-metastore	Service instance for db2oltp-175t	db2oltp	—	admin	Aug 6, 2025	
openscale-defaultinstance	IBM Watson OpenScale	aios	—	admin	Aug 6, 2025	
openpagesinstance-cr	OpenPages Instance	openpages	—	admin	Aug 5, 2025	

- Click on the **Open** button in the upper right. A new browser tab opens for the `watsonx` monitoring service.

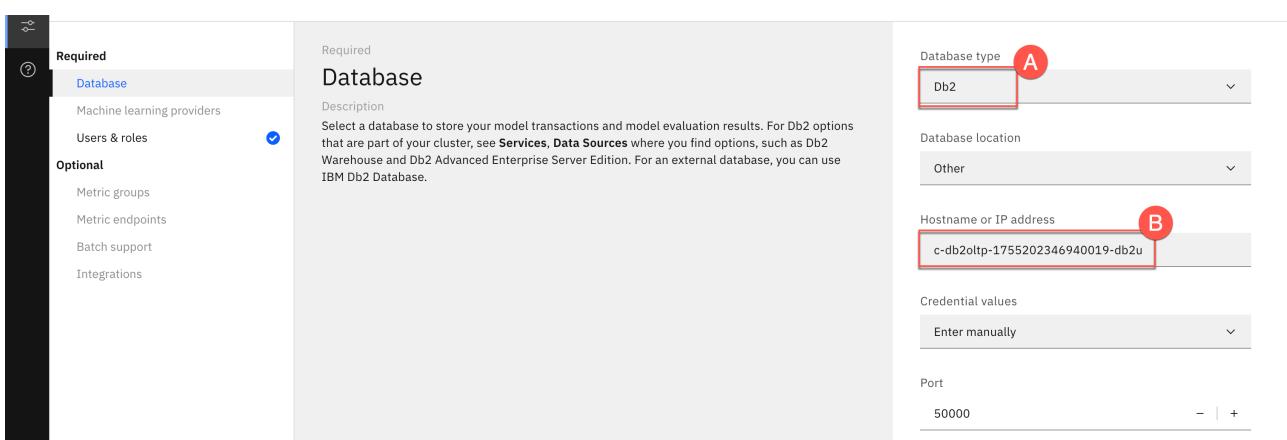
- If this is the first time you have opened the `watsonx.governance` monitoring tool, you will see the **Model evaluation** modal window. Click **Manual setup**. Note that you can do an auto setup using the same credentials and database information as the steps below to fill out the dashboard with some example models, but the process will take up to 20 minutes longer.



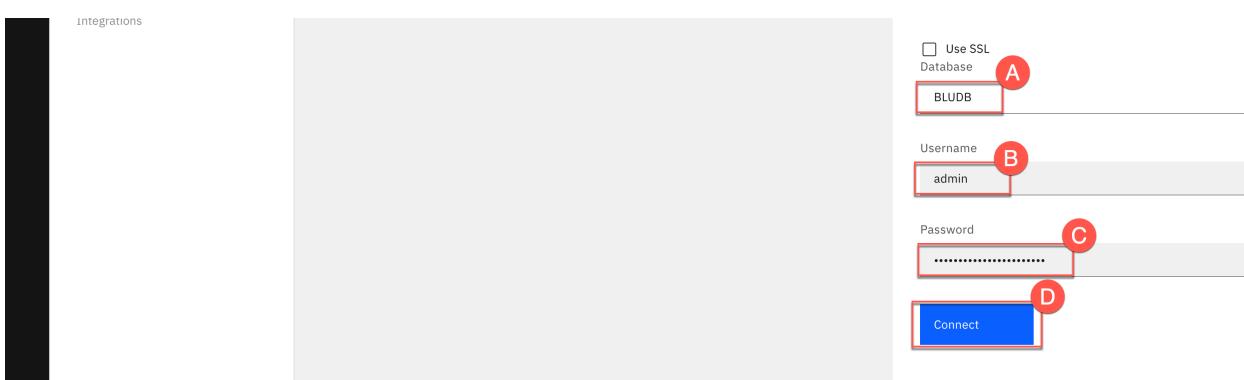
- From the **System setup** screen, click the **Pencil icon** on the **Database** tile to edit database information.



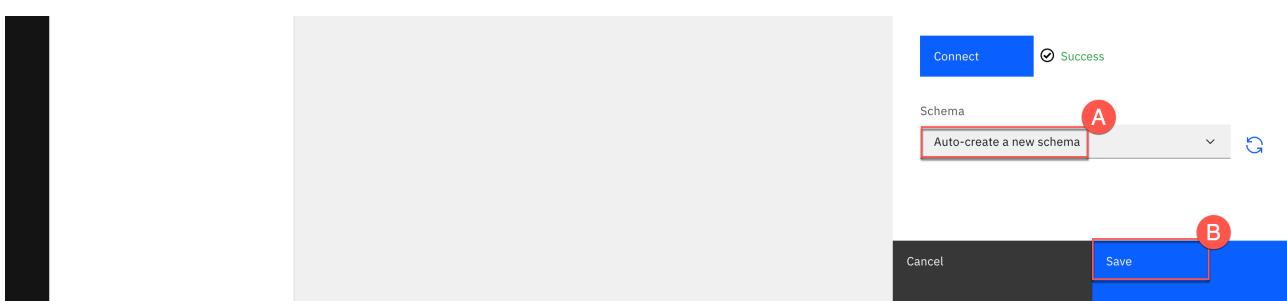
6. Use the dropdown to set the **Database type** (A) to **Db2**. Paste the database host name value you constructed in the previous section into the **Hostname or IP address** field (B).



7. Enter **BLUDB** in the **Database** field (A). Enter **admin** in the **Username** field (B). Enter the Cloud Pak for Data admin password in the **Password** field (C). Click on the **Connect** button (D). The monitoring service will attempt to connect to the database using the credentials you supplied. If the connection fails, double-check that you have constructed the hostname correctly, and that you are using the **admin** username and password that you use to log into the Cloud Pak for Data or watsonx home screen.



8. Use the dropdown to set **Schema** to **Auto-create a new schema** (A). Click on the **Save** button (B).



When the changes have successfully saved, the watsonx.governance monitoring service will be configured and operational. You can close the monitoring service browser tab.

Conclusion

Congratulations! You have successfully configured your environment, which will allow you to complete the remaining governance console configuration and monitoring labs.