Informatica® Cloud Data Integration for PowerCenter

November 2024

Getting Started with Cloud Data Integration for PowerCenter

Informatica Cloud Data Integration for PowerCenter Getting Started with Cloud Data Integration for PowerCenter
November 2024
May 2024

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Preface

Read *Getting Started with Cloud Data Integration for PowerCenter (CDI-PC)* to learn how to use the Cloud Data Integration for PowerCenter (CDI-PC) service to monitor your CDI-PC domain from Informatica Intelligent Cloud Services. Learn how to monitor a domain, apply domain updates, and monitor and troubleshoot updates.

Introducing Cloud Data Integration for PowerCenter (CDI-PC)

With Cloud Data Integration for PowerCenter (CDI-PC), you can create an on-premises domain that connects to a domain management service in Informatica Intelligent Cloud Services℠. Store your data and run sessions and workflows within your on-premises domain and leverage the advantages of domain management that the Informatica cloud provides. You can create a CDI-PC domain or migrate your Informatica domain to CDI-PC.

The following image shows the components of CDI-PC:

Firewall

CDI-PC Service in IDMC

Secure Agent Machine

CDI-PC Client

Administator Tool

Domain node with Service Manager, CDI-PC Repository Service & CDI-PC Integration Service

CDI-PC Repository

Domain Configuration Repository
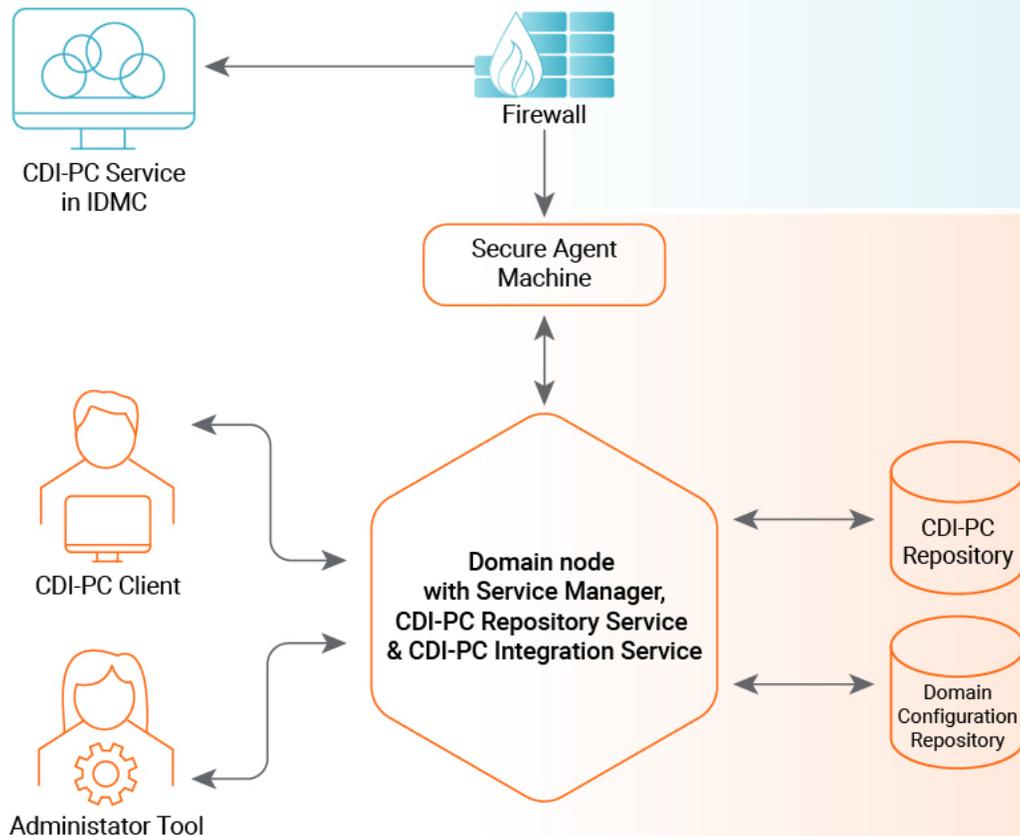
CDI-PC includes the following components:

- CDI-PC domain. An on-premises domain with services and repositories. You can extract data from sources, transform the data according to business logic that you build in the client application, and load the transformed data into targets. Import sources and targets and run workflows to move or transform data.

- CDI-PC Client. Use the CDI-PC Client to create, run, and monitor jobs that you run in the domain.

- Administrator tool. Log in to the Administrator tool to create application services and manage the domain and services.

- Secure Agent. A lightweight program that you install on a Linux or Windows machine. The Secure Agent enables communication between the on-premises domain and Informatica Intelligent Cloud Services.

- CDI-PC service. The Informatica Intelligent Cloud Services service to monitor domain status and initiate domain updates.

When you register a domain in Informatica Intelligent Cloud Services, you enable communication between the domain and the cloud. You can monitor the status of domains, nodes, and services.

You can schedule or manually initiate domain updates when they become available on the CDI-PC service page. An update job performs all tasks required to complete the update and start the domain after update. You can schedule an update at an appropriate date and time when you know there will be minimal impact. You can also manually initiate updates. After you initiate or schedule the update, there are no manual tasks required to apply the update. View the status of update jobs on the **View Domain Update** page.

Verify organization and license information

Before you start to use CDI-PC, ensure that you have created an organization and enabled the required licenses.

Verify the following requirements:

1. You have created an organization. For information about organizations, see *Organization Administration* in the Administrator help.

2. You have enabled the required license edition to perform tasks in the CDI-PC Home page.

3. To create custom roles, you need a different license. If you want to create a custom role for CDI-PC in Informatica Intelligent Cloud Services, enable the required license edition.

To enable a license edition, contact Informatica Global Customer Support.

Note: When you enable the license edition for CDI-PC, the Domain Management App Agent Service gets enabled on the Secure Agent. Other non-essential free services might get enabled by default. You can choose to disable these services if you don't need them. For information about Secure Agent services, see *Secure Agent Services* in the Administrator service help.

CDI-PC service roles and privileges

To perform tasks in Cloud Data Integration for PowerCenter (CDI-PC), you need Informatica Intelligent Cloud Services privileges.

In Informatica Intelligent Cloud Services, a role is a collection of privileges that you can assign to a user. It defines the privileges for different types of assets and service features. To ensure that users can access assets and perform tasks in your organization, assign at least one role to each user or user group.

The system-defined Domain Management user roles have all privileges that you need to perform tasks in the CDI-PC service.

For information about roles that provide access to the CDI-PC service, see *CDI-PC roles* in the Administrator service help.

To provide a user limited access to perform specific tasks, create a custom role and assign the required Domain Management Service asset and feature privileges to the role.

For information about how to create a custom role and assign asset privileges, see *User Administration* in the Administrator help.

Custom user roles for CDI-PC users

If you don't want to assign the default admin role or the system-defined Domain Management role to all users, you can create a custom role that provides limited access.

To provide a user limited access to perform specific tasks in CDI-PC, create a custom role and assign the required Domain Management Service asset and feature privileges to the role. Assign the role to the user.

For information about the Domain Management Service privileges, see *Domain Management service asset and feature privileges* in the Administrator service.

On-premises domain privileges

To create sessions, workflows, and to run jobs in the CDI-PC domain, you need domain privileges.

For information about the privileges needed and assigning roles and privileges to domain users, see the *Cloud Data Integration for PowerCenter Security Guide*.

Log in to Informatica Intelligent Cloud Services

Log in to Informatica Intelligent Cloud Services and select Cloud Data Integration for PowerCenter (CDI-PC) from the **My Services** page.

When you log in to Informatica Intelligent Cloud Services, the **My Services** page displays the services that your organization is licensed to use and common services that are available under the same license, such as Administrator.

The following image shows Cloud Data Integration for PowerCenter (CDI-PC) on the **My Services** page:
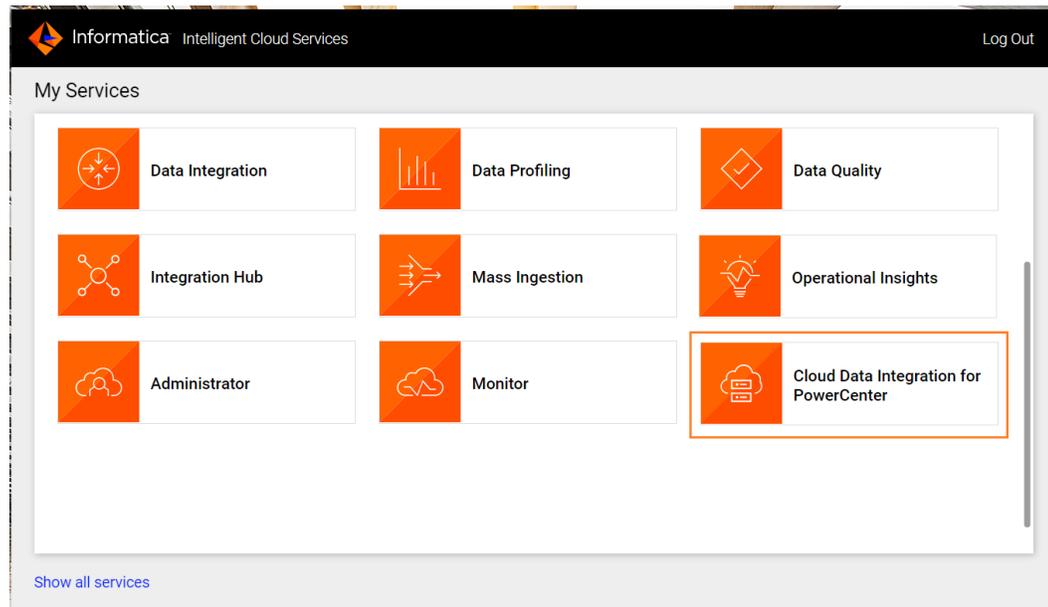
CDI-PC Home page

The Home page is the entry page to CDI-PC. To start using CDI-PC, register your domain in Informatica Intelligent Cloud Services on this page. You can download component installers and view domain status statistics from the Home page.

Click **Add New Domain** to begin registering a domain. After you register your domains, you can view the status statistics in the **Domain Status** area. To view a list of domains, click **Manage your Domains** to open the **Explore** page on the **Domains** section. View high-level domain information in a card or table view on the **Explore** page. You can perform domain management tasks such as updating domain details, syncing licenses, and reconciling status. Open a domain in a separate **Domain Details** page to view details and monitor and apply domain updates.

You can download the server, client, and utility installers and related files from the **Download Installers** area. Click the **Download Installers** button to view a list of available installers and download the files you need.

Click **Convert PowerCenter Assets** to view a list of repositories associated with registered domains. You can assess a repository and then convert PowerCenter assets to assets in Data Integration in Informatica Intelligent Cloud Services.

The following image shows a sample CDI-PC Home page:
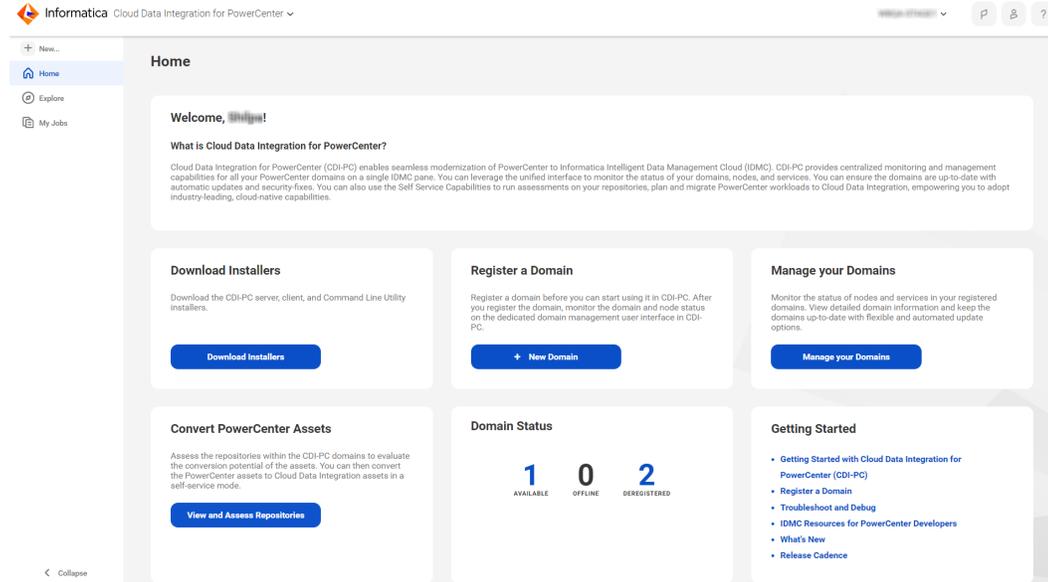
Download the installers from Informatica Intelligent Cloud Services

You can download the installers for CDI-PC components from Informatica Intelligent Cloud Services.

You can download the following installers:

- CDI-PC server. Run this installer to create or join a CDI-PC domain, or to migrate an Informatica domain to CDI-PC.
- CDI-PC Client. Run this installer to install the CDI-PC Client.
- Command line utilities. Download and extract this file to use command line programs such as infacmd, pmcmd, or pmrep on machines that don't have the domain or clients installed.
- CDI-PC TLS Utility. Download this utility to validate whether your custom TLS certificates are valid for use with CDI-PC.
- Digital signature for binaries. Download this digital signature to verify the integrity of the downloaded installers.

To download the files that you need, log in to Informatica Intelligent Cloud Services and download the files from the CDI-PC **Home** page.

Download the installers

After you log in to Informatica Intelligent Cloud Services, you can download the installers from the CDI-PC **Home** page.

Before you download the installers, allow pop-ups in your browser.

1. On the **Home** page, click **Download Installers** in the **Download Installers** section.
2. On the **Download CDI-PC Installers** window that appears, select the installers that you want to download.

3. Click **Download**.

You can copy the downloaded files to the machines where you want to install the component.

Alerts and notifications

CDI-PC generates notifications for specific tasks that you perform on the CDI-PC service page and for changes that occur to registered domains in your organization and sub-organizations. The changes could be planned such as a domain deregistration or unplanned such as a domain going offline because of loss of connectivity.

The messages are visible as alerts in Informatica Intelligent Cloud Services and sent as automated email notifications.

To view alerts in Informatica Intelligent Cloud Services and to receive email notifications, you must be assigned the Domain Management user role. Notifications are sent to all users in the organization with the Domain Management user role assigned. For information about how to assign user roles and features, see *User Administration* in the Administrator service help.

The following table lists the events that generate alerts and email notifications:

Event	Category	Description
Register a domain	Success	Register a domain on the CDI-PC Home page.
Update domain details	Info	Update the details of a domain on the CDI-PC Home page.
Delete a domain	Warning	Delete a domain from the CDI-PC Home page.
Deregister a domain	Warning	Deregister a domain from the CDI-PC Home page.
Reregister a domain	Success	Reregister a domain from the CDI-PC Home page.
Offline domain	Error	A domain moves to offline state.
Obsolete domain	Error	A domain becomes obsolete because it's on an outdated version. Indicates that a mandatory update wasn't applied by the specified date.
Update available	Info	A domain update is available. Repeated domain update reminders indicate that a mandatory update is available and must be applied by the specified date or else the domain would turn obsolete. Repeated update reminders and email notifications are sent if you have not updated the domain to the latest available major release. A pop-up reminder for an available new version appears each time you log in unless you choose to be reminded after 10 days. You can't disable the reminder if the update is due in 30 days or less. The reminder continues to appear until all domains in the organization are updated.

Event	Category	Description
Update successful	Success	A domain update was successfully applied.
Update failed	Error	A domain update failed.

Asset logs

The CDI-PC service generates logs for tasks performed on the service page. You can access the logs and log history from the Administrator service.

To view asset logs in Informatica Intelligent Cloud Services, you must be assigned the Domain Management user role. In addition, you must have the Administrator service Audit Log - view feature enabled. Alternately, you can create a custom role and assign all the privileges assigned to the Domain Management user role and in addition assign the Administrator service Audit Log - view feature. For information about how to assign user roles and features, see *User Administration* in the Administrator help.

For information about how to view asset logs, see *Organization Administration* and *REST API Reference* in the Administrator help.

Metering information

You can view metering information and download consumption reports for tasks that you perform in your organization and sub-organizations on the **Metering** page in Administrator.

You can view and download metering consumption data from the **Cloud Data Integration for PowerCenter** metering page. The metering page contains details including the date when the task was performed, organization details, environment details, IPU per unit, and the number of IPUs consumed.

For information about metering, see *Organization Administration* in the Administrator help.

CDI-PC components

CDI-PC includes an on-premises domain that works similar to an Informatica domain in PowerCenter. Although CDI-PC and PowerCenter consist of similar components, they do have some differences. Some PowerCenter components are available in CDI-PC, while some components are new in CDI-PC and not available in PowerCenter.

Components

The following table describes the components in CDI-PC with the corresponding components in PowerCenter:

CDI-PC	PowerCenter	Description
CDI-PC domain	Informatica domain	On-premises A node that represent the machine on which the services run. If you install on a single machine, you create the domain and gateway node on the machine.
CDI-PC Integration Service	PowerCenter Integration Service	On-premises service An application service that runs sessions and workflows. Use the Administrator tool to manage the service.
CDI-PC Repository Service	PowerCenter Repository Service	On-premises service An application service that manages the repository. It performs all metadata transactions between the repository database and the repository clients.
Web Services Hub	Web Services Hub	On-premises An application service that exposes product functionality to external clients through web services. It processes requests from web service clients.
Domain configuration repository	Domain configuration repository	On-premises Stores configuration and user information from a domain.
CDI-PC repository	PowerCenter repository	On-premises Relational database that stores repository metadata. The Repository Service manages the repository and performs all metadata transactions between the repository database and repository clients.

CDI-PC	PowerCenter	Description
Informatica Administrator (the Administrator tool)	Informatica Administrator (the Administrator tool)	On-premises A web application to manage the domain and application services.
CDI-PC Client	PowerCenter Client	On-premises A thick client application to create and run workflows with sessions.
Secure Agent	None	On-premises A lightweight program that you install on an on-premises physical or virtual machine. Provides connectivity between the on-premises domain and Informatica Intelligent Cloud Services.
CDI-PC service	None	The Cloud Data Integration for PowerCenter (CDI-PC) service in Informatica Intelligent Cloud Services. Allows you to the monitor the domain status and manage updates to the domain.
Domain Management Service	None	A microservice that runs in Informatica Intelligent Cloud Services. Runs jobs related to registering domains, managing domains, and all jobs that you run on the CDI-PC Home page.
Domain Management App	None	A pluggable application that the Secure Agent uses. Connects the on-premises domains with Informatica cloud and handles backend tasks required for domain updates in CDI-PC.

The following table describes some of the differences between CDI-PC and PowerCenter:

Function	CDI-PC	PowerCenter
Application services	You can use the following application services in CDI-PC: - CDI-PC Integration Service - CDI-PC Repository Service - Web Services Hub Service - PowerCenter SAP BW Service - PowerExchange Listener Service - PowerExchange Logger Service	You can use multiple additional services in PowerCenter. For information about services that you can use in PowerCenter, see the PowerCenter documentation.
Monitor	CDI-PC includes a cloud service component that allows you to monitor your domains from Informatica Intelligent Cloud Services.	You can monitor an Informatica domain in PowerCenter by logging into the client applications for monitoring.

Function	CDI-PC	PowerCenter
Updates	CDI-PC runs automated update jobs from Informatica Intelligent Cloud Services to keep all domains on the latest version. You can choose an earlier date to apply the update or manually initiate an update. The service handles all tasks related to applying the update, including shutting down the domain and services before and starting the domain and services after applying the update.	You manually shut down the domain, run the installer to upgrade, and then start the domain and services.
Domain directory structure	The directory structure of CDI-PC includes separate directories for binaries, user configurations, logs, and common libraries. This structure makes it possible to apply updates in stages and to use common libraries with external services.	The directory structure of PowerCenter includes a single Informatica installation directory that contains Informatica binaries, user configuration files, log files, and common libraries. The structure makes upgrades difficult. You can't reuse the common libraries with external services.

The following directory structure represents the CDI-PC installation directory tree:

```
|_<USER_CONFIGURED_INSTALL_DIRECTORY>
|_Informatica/platform
|-- common
|    |-- lib
|                        |-- java
|                        |-- tomcat
|    |-- version.json
|-- home
|    |-- connectors
|                        |-- sdk
|    |-- DataTransformation
|                        |-- api
|                        |-- autoInclude
|                        |-- bin
|                        |-- CMConfig.xml
|                        |-- CMConfig.xsd
|                        |-- cminfo.xml
|                        |-- CommonDB
|                        |-- doc
|                        |-- externLibs
|                        |-- license.txt
|                        |-- readme_Birt.txt
|                        |-- samples
|                        |-- ServiceDB
|                        |-- setEnv.csh
|                        |-- setEnv.sh
|                        |-- setupTests
|    |-- domains.infa
|    |-- externaljdbcjars -> ../Informatica/platform/usr/bin/externaljdbcjars
|    |-- isp
|                        |-- bin
|                        |-- common
|                        |-- config -> ../RelUID/Informatica/platform/usr/config/isp/
config
|                        |-- webapps
|    |-- java -> ../Informatica/platform/common/lib/java/202404
|    |-- logs -> ../Informatica/platform/logs
|    |-- ODBC7.1 -> ../Informatica/platform/usr/bin/ODBC7.1
|    |-- plugins
|                        |-- acplugins
|                        |-- conf
|                        |-- dynamic
|                        |-- infa
```

```
|                                        |-- osgi
|    |-- server
|                                        |-- bin
|                                        |-- cci
|                                        |-- connectors
|                                        |-- infa_shared -> ../RelUID/Informatica/platform/usr/data/
infa_shared
|                                        |-- samples
|                                        |-- tomcat
|                                        |-- Tutorials
|    |-- services
|                                        |-- AdministratorConsole
|                                        |-- EmailService
|                                        |-- ISPPlugins
|                                        |-- PowerExchange
|                                        |-- shared
|                                        |-- WebServiceHub
|                                        |-- work_dir
|    |-- thirdpartynotice
|    |-- tomcat
|                                        |-- bin
|                                        |-- conf -> ../RelUID/Informatica/platform/usr/config/
tomcat/conf
|                                        |-- logs
|                                        |-- temp
|                                        |-- work
|    |-- tomcat9 -> ../Informatica/platform/common/lib/tomcat/202404
|    |-- tools
|     -- version.txt
|-- logs
|    |-- infasetup_cli.log
|    |-- infasetup_jsf.log
|    |-- upgrade_logs
|    |-- system_logs
|-- pwx
|     -- bin
|-- sys
|    |-- apps
|     -- data
|-- usr
    |-- bin
    |-- config
        |-- pwx
                        |-- dbmover.cfg
                        |-- overrides.cfg
    |-- custom
    |-- data

|-- Uninstaller_Server
        |-- Bundles
        |-- InstallScript.iap_xml
        |-- installvariables.properties
        |-- uninstaller
        |-- uninstaller.jar
        |-- uninstaller.lax
        |-- uninstaller.sh
```

The following directory structure represents the PowerCenter installation directory tree:

```
|_<INFA_HOME>
|_isp
|_config
|_tomcat
|_conf
|_tomcat9
|_java
|_logs
|_externaljdbcjars
|_ODBC7.1
|_plugins
|_pwxmfplugins
```

```
|_sdk
|_server
|_services
|_tools
```