

# **Progress® DataDirect® Hybrid Data Pipeline Quick Start**



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# Getting started with Hybrid Data Pipeline

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Progress® DataDirect® Hybrid Data Pipeline is a light weight software service that is designed to allow applications to access data from data sources that are in the cloud or on-premises. Your application can use a single API – ODBC, JDBC, or OData – to access any of the data source types we support – SQL, Big Data, and NoSQL.

## Key Features

- Access to on-premises data source from the cloud – Connect to SQL, NoSQL, or Big Data residing behind a firewall in an enterprise
- Access cloud data sources – Connect to SaaS, SQL, NoSQL, and Big Data sources that are deployed in cloud
- Single API for any data source – Use ODBC, JDBC, or OData to access all the supported cloud and on-premises data sources
- Works with most data center of cloud infrastructures – Deploy in the environment you are running your applications in
- No need to alter the network perimeter – Connect from cloud to on-premises data source in a secure fashion without requiring a VPN gateway or Data Access service is bundled with our Firewall changes to allow incoming traffic drivers for the supported data sources.

## About this release

You can be up and running after following a few simple steps:

- Use the installer to quickly set up Hybrid Data Pipeline Server on a Linux machine.
- Use the current version of popular browsers for configuration management to set up a connection to data source types such as DB2, Microsoft SQL Server, Oracle Service Cloud, and Oracle Sales Cloud.
- If your application uses ODBC, install the ODBC driver, and configure the driver for use with your data source.
- If your application uses JDBC, install the JDBC driver, and configure the driver for use with your data source.
- Configure your application to use the Hybrid Data Pipeline ODBC or JDBC client, or use OData to query your application.
- Configure the On-Premises Connector if your data travels over the internet and through your corporate firewall.

For details, see the following topics:

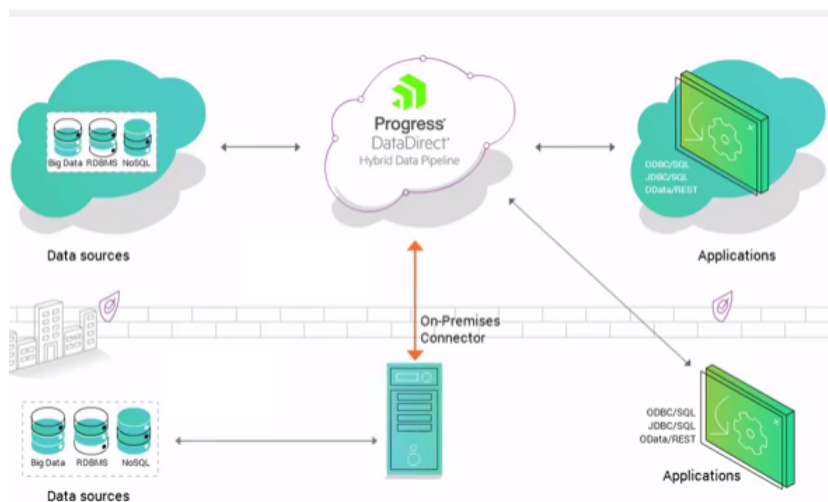
- [How Hybrid Data Pipeline works](#)
- [Sample configuration scenarios](#)
- [Before you start](#)

## How Hybrid Data Pipeline works

Progress® DataDirect® Hybrid Data Pipeline is a light weight software service that is designed to allow applications to access data from data sources that are in the cloud or on-premises. Your application can use a single API – ODBC, JDBC, or OData – to access any of the data source types we support – cloud, SQL, Big Data, and NoSQL.

Exposing a backend data store to applications using Hybrid Data Pipeline requires configuration in the Hybrid Data Pipeline user interface and in the consuming applications. Applications communicate with Hybrid Data Pipeline through JDBC, ODBC, or OData. Hybrid Data Pipeline translates their requests into the format supported by the underlying data store and returns the response in the format accepted by the client.

When Hybrid Data Pipeline is installed in the cloud, you use the On-Premises Connector to access databases that reside behind the firewall.





## Preparation

Have the following information ready:

- The credentials to log into your data stores, such as DB2, Microsoft SQL Server, Oracle Service Cloud, and Oracle Sales Cloud.
- Connection information for the client applications that will access data through Hybrid Data Pipeline. For example, some business intelligence (BI) tools, reporting tools, and custom applications, support JDBC, ODBC, or OData out-of-the-box. For applications that can use OData with a REST API, no additional driver is required.

To use JDBC or ODBC to access your backend data source, you need to install a local driver that connects the apps with Hybrid Data Pipeline. The driver is a small component that installs quickly.

See [Before you start](#) for the system requirements for the Hybrid Data Pipeline components.

# Sample configuration scenarios

The Progress® DataDirect® Hybrid Data Pipeline is a data access platform that provides simple, secure access to your cloud and on-premises data sources for your business intelligence tools and applications. These applications connect to and query data in a variety of ways, including using a standard SQL interface such as ODBC or JDBC, and a REST interface such as OData.

Whether you install it in the cloud or behind your own firewall, you can configure Hybrid Data Pipeline so it works with the data sources and applications in your specific business environment.

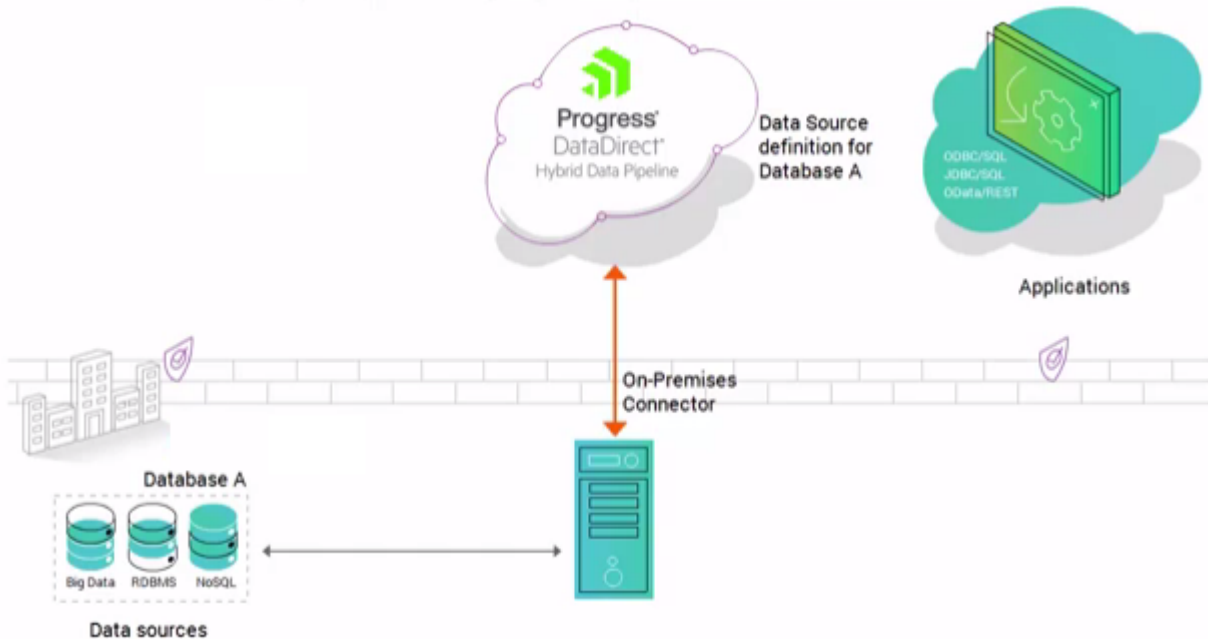
## Exposing on-premises data sources to cloud-based applications

In this scenario, your data sources are on-premises and you want to expose them for easy but secure access by a cloud-based business analysis tool. Here, Progress DataDirect Hybrid Data Pipeline Server is installed in the cloud, and you use the On-Premises Connector to perform secure connections through the firewall to the Microsoft SQL Server database that contains your sales data. The business application tool is in a different cloud.

This configuration would also be suitable for an independent software vendor. You can embed Hybrid Data Pipeline services in your own cloud, allowing your customers to access their data sources.

To keep this scenario simple, we are installing Hybrid Data Pipeline to use the internal database to store the configuration information.

Deployment 1: Securely expose on-premises data sources in cloud



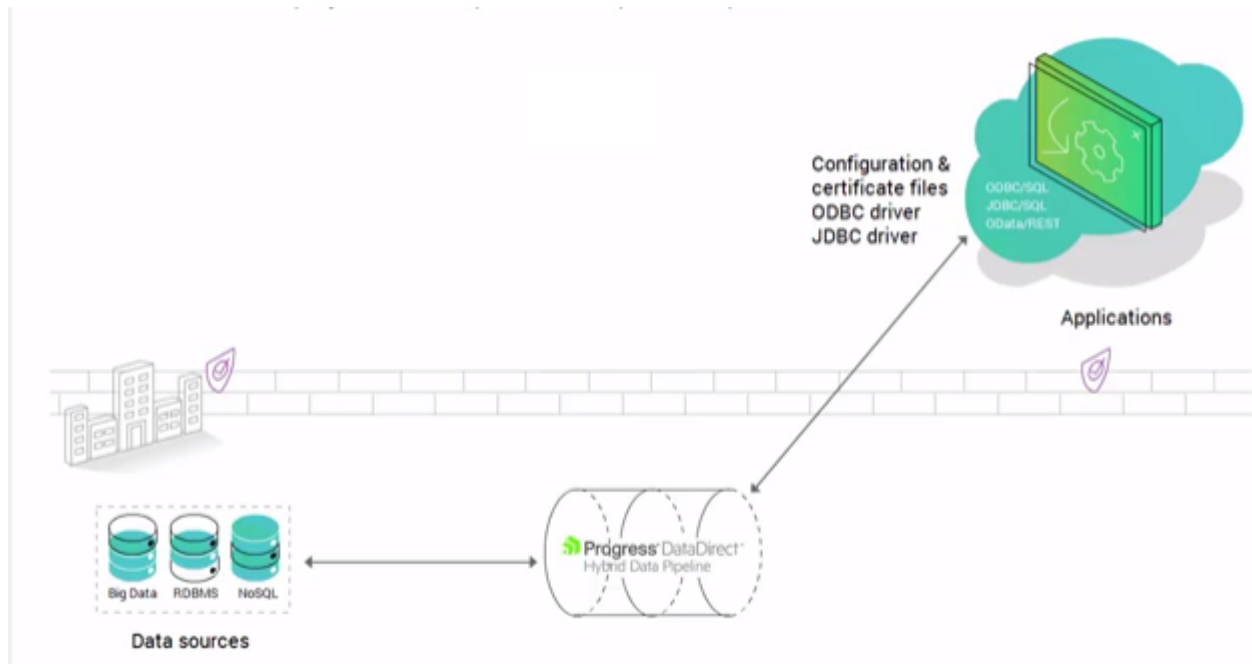
1. Install the [Hybrid Data Pipeline Server](#) on a UNIX/Linux machine behind your firewall.
2. [Create a data source definition](#) for the data source.
3. Install the [On-Premises Connector](#).  
You can temporarily use the self-signed certificate that's automatically generated during installation, but you should plan to get your own SSL certificate from a Certificate Authority.
4. If you want to use OData, define the OData parameters in the Data Source definition, and if necessary, include the port number in the OData URL.
5. For this test scenario, you can use the self-signed certificate that was created during installation. In production, you use your own SSL certificate that you obtained from a Certificate Authority.
6. If you are using an ODBC or JDBC application, install the Hybrid Data Pipeline [ODBC](#) or [JDBC](#) driver on a machine outside the firewall.
7. Configure your business application to use ODBC, JDBC, or OData.

For a more detailed discussion of this scenario, [watch a video](#). 📺

## Connecting an application in the cloud to on-premises data sources

In this scenario, you want to connect an application in the cloud to your on-premises data sources. You prefer to have Progress DataDirect Hybrid Data Pipeline behind your own firewall so you don't have to maintain a cloud-based platform. You will use an SSL connection to ensure the security of your data.

This deployment scenario is especially suitable when you use OData with your cloud-based applications, for example, creating a real-time connectivity between Salesforce and an on-premises database.



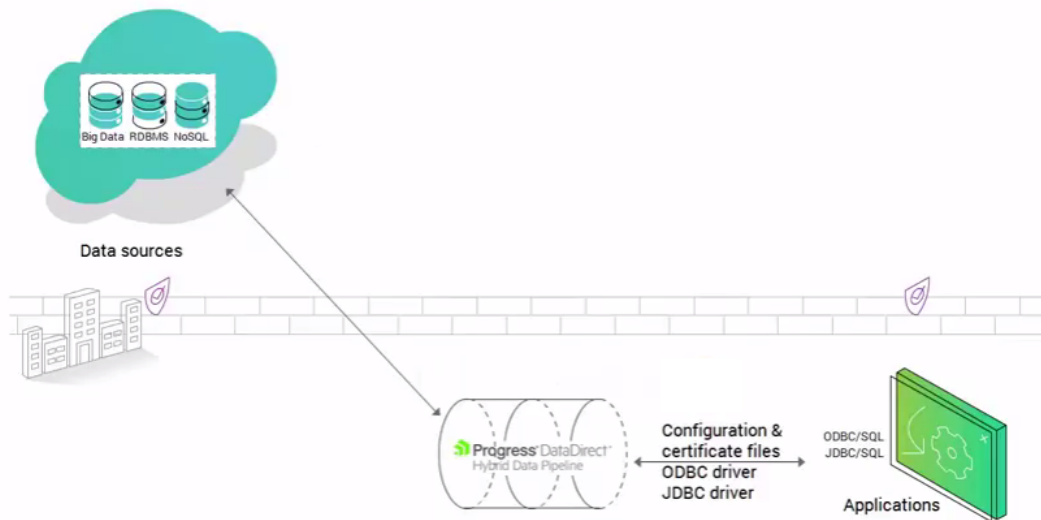
1. Install the [Hybrid Data Pipeline Server](#) on a UNIX/Linux machine behind your firewall.
2. [Create a data source definition](#) for the data source.
3. If you want to use OData, define the OData parameters in the Data Source definition, and if necessary, include the port number in the OData URL.
4. For this test scenario, you can use the self-signed certificate that was created during installation. In production, you use your own SSL certificate that you obtained from a Certificate Authority.
5. If you are using an ODBC or JDBC application, install the Hybrid Data Pipeline Hybrid Data Pipeline [ODBC](#) or [JDBC](#) driver on a machine outside the firewall.
6. Configure your business application to use ODBC, JDBC, or OData.

For a more detailed discussion of this scenario, [watch a video](#). 📺

## Keeping Hybrid Data Pipeline on-premises with applications

In this scenario, you have multiple data sources in the cloud and your applications are on-premises. Here, Progress DataDirect Hybrid Data Pipeline Server is installed in the on-premises Connector. You will perform secure connections through the firewall to your applications using the Progress DataDirect Hybrid Data Pipeline ODBC or JDBC driver.

To keep this scenario simple, we are installing Hybrid Data Pipeline to use the internal database to store the configuration information.



1. Install [Hybrid Data Pipeline Server](#) on a UNIX/Linux machine behind your firewall.
2. [Create a data source definition](#) for the data source.
3. For this test scenario, you can use the self-signed certificate that was created during installation. In production, you use your own SSL certificate that you obtained from a Certificate Authority.
4. Install the Hybrid Data Pipeline [ODBC](#) or [JDBC](#) driver on a machine inside the firewall.
5. Configure your business application to use ODBC or JDBC.

For a more detailed discussion of this scenario, [watch a video](#). 📺

## Before you start

Hybrid Data Pipeline is made of different components. Make sure that your system is ready before you begin to install and configure them.

- The Hybrid Data Pipeline Server must be installed on a 64-bit Linux machine
- The On-Premises Connector must be installed on a separate Windows machine.

Depending on the way you connect to your application, you might need to install one or more additional components.

- For ODBC applications, you must install and configure the ODBC driver.
- For JDBC applications, you must install and configure the JDBC driver.
- For REST-based data access for mobile apps and desktop applications, no local software is needed.

Here are the requirements for the required components:

**Table 1: Requirements for Hybrid Data Pipeline components**

Component	Requirements	Additional information
Hybrid Data Pipeline Server	64-bit Linux machine	<ul style="list-style-type: none"> <li>• Red Hat Enterprise Linux x64, version 4.0 and higher</li> <li>• Centos Linux x64, version 4.0 and higher</li> <li>• SUSE Linux Enterprise Server, Linux x64, version 10.x, 11, 12, and 13</li> <li>• Oracle Linux x64, version 4.0 and higher</li> </ul>
OData	<ul style="list-style-type: none"> <li>• Does not require any locally-installed software</li> <li>• Currently supports OData v2.0</li> </ul>	Provides REST-based data access for mobile apps and desktop applications
On-Premises Connector	64-bit Windows machine	<ul style="list-style-type: none"> <li>• Windows 10</li> <li>• Windows 8, 8.1</li> <li>• Windows 7</li> </ul>
ODBC or JDBC driver	64-bit Linux or Windows machine	<ul style="list-style-type: none"> <li>• Red Hat Enterprise Linux x64, version 4.0 and higher</li> <li>• Centos Linux x64, version 4.0 and higher</li> <li>• SUSE Linux Enterprise Server, Linux x64, version 10.x, 11, 12, and 13</li> <li>• Oracle Linux x64, version 4.0 and higher</li> <li>• Windows 10</li> <li>• Windows 8, 8.1</li> <li>• Windows 7</li> </ul>

<b>Component</b>	<b>Requirements</b>	<b>Additional information</b>
Web browser	Computer running one of the following operating systems: Windows®, Linux®, or MacOS®	<ul style="list-style-type: none"><li>• Internet Explorer® 11.0 +</li><li>• Firefox® 48 +</li><li>• Chrome™ 53.0 +</li><li>• Safari® 9.1 +</li></ul>

## Troubleshooting and FAQ for Hybrid Data Pipeline

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The following answers some common questions about Hybrid Data Pipeline:

1. How do I contact someone about my account?

Contact your Progress sales engineer.

2. Where do I get the login credentials for the Data Store?

You must get the login credentials of the **Data Store** from the Administrator of the **Data Store**.

3. Why can't I connect to Hybrid Data Pipeline Server from my browser?

All of the client access and client access notification ports must be enabled for incoming network traffic to the server. If the ports are not enabled for incoming network traffic, the connection will fail.

4. Why can't I connect to the Data Store?

There are several possible causes for a connection problem. To troubleshoot **Data Store** connection errors, check the following areas for problems:

- Verify that the **Data Store** is available. Try logging in without using Hybrid Data Pipeline.
- Verify that the **User Name**, **Password**, and **Security Token** (if required) are correct.
- Verify that the **URL** is correct and entered without a protocol prefix.

5. Why can't I connect to my Eloqua Data Store?

To connect to Eloqua using Hybrid Data Pipeline requires that the OpenAccess Server component is installed. Refer to the *Installation Guide* additional information.

- Verify that the OpenAccess Server component was installed *before* the Hybrid Data Pipeline Server. If not, you must uninstall and reinstall the Hybrid Data Pipeline Server.
- Verify that the Eloqua Server is running. We recommend that you run the serviceMonitor script, which automatically restarts the Eloqua Server.

**6.** Can I create multiple Data Source definitions for each Data Store type?

Yes, you can create multiple **Data Source** definitions for a **Data Store** type as long as the **Data Source** definitions have unique names.

**7.** Why did my Hybrid Data Pipeline session time out?

If you do not refresh or request a page within the time-out period of thirty minutes, the session ends.



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For details, see the following topics:

- [Third Party Acknowledgements](#)

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