

Note: The installer requires a Java Virtual Machine (JVM):

- For version 7.1, Java SE 7 or higher.
- For version 8.0, Java SE 8 or higher.

The Java Virtual Machine (JVM) must be defined on your path.

Note: A home directory is required, and the installer must have access to it. For UNIX/Linux installations, the home directory is the \$HOME directory.

Install HDP ODBC Driver 4.6 in Linux

1. Download the latest HDP ODBC Driver.
(<https://dsm.deltek.com/DFVE/ODBC/HDPLinuxDriver.zip>)
2. Extract the HDPLinuxDriver.zip file in a temp directory, it should contain the following files:
 - PROGRESS_DATADIRECT_HDP_ODBC_4.6.2_LINUX_64.bin
 - config.properties
 - ddcloud.pem
 - ddcloudTrustStore.jks
 - OnPremise.properties
3. Make the file "PROGRESS_DATADIRECT_HDP_ODBC_4.6.2_LINUX_64.bin" executable.
Execute: `chmod +x PROGRESS_DATADIRECT_HDP_ODBC_4.6.2_LINUX_64.bin`
4. Run the installer from the command-line prompt. Note: you should be in the temp directory where the executable file is located.
Execute: `./PROGRESS_DATADIRECT_HDP_ODBC_4.6.2_LINUX_64.bin`

```
root@useattss1ddhdp4/tmp
[root@useattss1ddhdp4 tmp]# ./PROGRESS_DATADIRECT_HDF_ODBC_4.6.2_LINUX_64.bin
Preparing to install
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Graphical installers are not supported by the VM. The console mode should be used instead...

-----
                          (created with InstallAnywhere)
-----

Preparing CONSOLE Mode Installation...

Validating platform...
-

-----
Introduction
-----

InstallAnywhere will guide you through the installation of Progress DataDirect
Hybrid Data Pipeline for ODBC 4.6 - 64 bit.

It is strongly recommended that you quit all programs before continuing with
this installation.

Respond to each prompt to proceed to the next step in the installation.  If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE: █
```

5. Choose standard installation, Enter "1".

```
root@useattss1ddhdp4/tmp
Preparing CONSOLE Mode Installation...

Validating platform...
-

-----
Introduction
-----

InstallAnywhere will guide you through the installation of Progress DataDirect
Hybrid Data Pipeline for ODBC 4.6 - 64 bit.

It is strongly recommended that you quit all programs before continuing with
this installation.

Respond to each prompt to proceed to the next step in the installation.  If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

-----

Install Type
-----

Choose the type of installation you want to perform.

->1- Standard Installation
   2- OEM Installation

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: █
```

6. Accept the default and press enter.

```
root@useatss1ddhdp4/tmp
Respond to each prompt to proceed to the next step in the installation. If
you want to change something on a previous step, type 'back'.
You may cancel this installation at any time by typing 'quit'.
PRESS <ENTER> TO CONTINUE:

-----
Install Type
-----
Choose the type of installation you want to perform.

->1- Standard Installation
   2- OEM Installation

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

-----
Choose Install Directory
-----
Please choose a destination directory for this installation.
Where would you like to install?

Default Install Folder: /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC
ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
:
```

Note: for non root user, default location is
/home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC

7. Press Enter to continue

```
root@useatss1ddhdp4/tmp
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

-----
Choose Install Directory
-----
Please choose a destination directory for this installation.
Where would you like to install?

Default Install Folder: /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC
ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT
:

-----
Pre-Installation Summary
-----
Please Review the Following Before Continuing:

Product Name:
  Progress DataDirect Hybrid Data Pipeline for ODBC 4.6 - 64 bit

Install Directory:
  /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC

PRESS <ENTER> TO CONTINUE: █
```

8. Wait for the installation to complete.

```
root@useatss1ddhdp4/tmp
:

=====
Pre-Installation Summary
=====

Please Review the Following Before Continuing:

Product Name:
  Progress DataDirect Hybrid Data Pipeline for ODBC 4.6 - 64 bit

Install Directory:
  /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC

PRESS <ENTER> TO CONTINUE:

=====
Installing...
=====

[=====|=====|=====|=====]
[-----|-----|-----|-----]

=====

Please Wait
-----
---
```

9. Verify that installation has been successful. Press Enter to exit the installer.

```
root@useatss1ddhdp4/tmp
Install Directory:
  /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC

PRESS <ENTER> TO CONTINUE:

=====
Installing...
=====

[=====|=====|=====|=====]
[-----|-----|-----|-----]

=====

Please Wait
-----
-----]-----]

=====

Installation Complete

Congratulations! Progress DataDirect Hybrid Data Pipeline for ODBC 4.6 - 64
bit has been successfully installed to:

  /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC

PRESS <ENTER> TO EXIT THE INSTALLER: █
```

Configuring an ODBC data source

1. Go to directory where you installed the driver. Execute
"cd /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/" or "cd
/home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC"

```
root@useattss1ddhdp4:/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# pwd
/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]#
```

2. Edit odbc.ini file and add the following:

```
root@useattss1ddhdp4:/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# pwd
/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# ls
bin  hdpodbcreadme.txt  hybridDefaults.properties  include  install  lib  locale  NOTICES.txt  odbc.csh  odbc.ini  odbcinst.ini  odbc.sh  samples  sslcertificates  uninstall
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# vi odbc.ini
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]#
```

3. Add the following:

For Root:

[ExampleDSN]

Driver=/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/lib/ddhybrid01.so

Description=DataDirect HDP 4.6

Service=<TBD>

HybridDataPipelineDataSource=<TBD>

LogonID=

ClientTimeZone=America/New_York

DataSourceUser=

DataSourcePassword=
ProxyHost=
ProxyPort=
ProxyUser=
ProxyPassword=
TransactionMode=0
WSRetryCount=3
WSTimeout=120
LogonDomain=
LoginTimeout=30
QueryTimeout=0
ApplicationUsingThreads=1
ReportCodepageConversionErrors=0
EnableWCharSupport=1
DefaultlongDataBufLen=
MaxVarcharSize=
ExtendedOptions=
VarcharThreshold=
MinLongVarcharSize=
Password=
EncryptionMethod=1
ValidateServerCertificate=1
TrustStore=
TrustStorePassword=
HostNameInCertificate=
PortNumber=443

For Non-Root:

[ExampleDSN]

Driver=/home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/lib/ddhybrid01.so

Description=DataDirect HDP 4.6

Service=<TBD>
HybridDataPipelineDataSource=<TBD>
LogonID=
ClientTimeZone=America/New_York
DataSourceUser=
DataSourcePassword=
ProxyHost=
ProxyPort=
ProxyUser=
ProxyPassword=
TransactionMode=0
WSRetryCount=3
WSTimeout=120
LogonDomain=
LoginTimeout=30
QueryTimeout=0
ApplicationUsingThreads=1
ReportCodepageConversionErrors=0
EnableWCharSupport=1
DefaultlongDataBufLen=
MaxVarcharSize=
ExtendedOptions=
VarcharThreshold=
MinLongVarcharSize=
Password=
EncryptionMethod=1
ValidateServerCertificate=1
TrustStore=
TrustStorePassword=
HostNameInCertificate=
PortNumber=443

Where

- HybridDataPipelineDataSource: This is the Datasource Name in HDP
 - Service: This is the HDP URL Endpoint
4. Run the appropriate product setup script.
 - a. For Bourne, Korn, and related shells, execute the following command:

```
../odbc.sh
```

- b. For C shell and related shells, execute the following command:

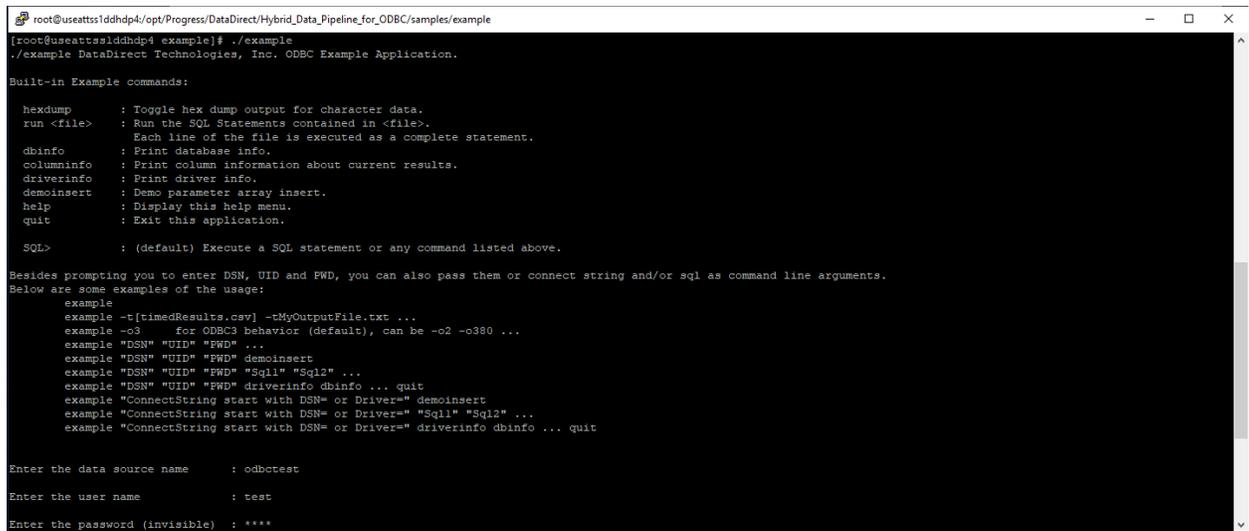
```
source ./odbc.csh
```

5. Go to samples/examples directory.

Execute: `cd /opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/samples/example`

or `cd /home/<user>/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC`

6. Execute `./example`



```
root@useatss1ddhdp4:/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/samples/example
[root@useatss1ddhdp4 example]# ./example
./example DataDirect Technologies, Inc. ODBC Example Application.

Built-in Example commands:

hexdump      : Toggle hex dump output for character data.
run <file>   : Run the SQL Statements contained in <file>.
               Each line of the file is executed as a complete statement.
dbinfo       : Print database info.
columninfo   : Print column information about current results.
driverinfo   : Print driver info.
demoinsert   : Demo parameter array insert.
help         : Display this help menu.
quit         : Exit this application.

SQL>         : (default) Execute a SQL statement or any command listed above.

Besides prompting you to enter DSN, UID and FWD, you can also pass them or connect string and/or sql as command line arguments.
Below are some examples of the usage:

example
example -t[timeResults.csv] -tMyOutputFile.txt ...
example -o3      for ODBC3 behavior (default), can be -o2 -o380 ...
example "DSN" "UID" "FWD" ...
example "DSN" "UID" "FWD" demoinsert
example "DSN" "UID" "FWD" "Sql1" "Sql2" ...
example "DSN" "UID" "FWD" driverinfo dbinfo ... quit
example "ConnectString start with DSN= or Driver=" demoinsert
example "ConnectString start with DSN= or Driver=" "Sql1" "Sql2" ...
example "ConnectString start with DSN= or Driver=" driverinfo dbinfo ... quit

Enter the data source name      : odbcctest
Enter the user name             : test
Enter the password (invisible)  : ****
```

```
root@useattss1ddhdp4:/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/samples/example
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# vi odbc.ini
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# vi odbc.ini
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# ./odbc.sh
[root@useattss1ddhdp4 Hybrid_Data_Pipeline_for_ODBC]# cd samples/example/
[root@useattss1ddhdp4 example]# ./example
./example DataDirect Technologies, Inc. ODBC Example Application.

Built-in Example commands:

hexdump      : Toggle hex dump output for character data.
run <file>    : Run the SQL Statements contained in <file>.
               Each line of the file is executed as a complete statement.
dbinfo       : Print database info.
columninfo   : Print column information about current results.
driverinfo    : Print driver info.
demoinsert   : Demo parameter array insert.
help         : Display this help menu.
quit         : Exit this application.

SQL>        : (default) Execute a SQL statement or any command listed above.

Besides prompting you to enter DSN, UID and FWD, you can also pass them or connect string and/or sql as command line arguments.
Below are some examples of the usage:
example
example -E[timedResults.csv] -MMyOutputFile.txt ...
example -o3      for ODBC3 behavior (default), can be -o2 -o380 ...
example "DSN" "UID" "FWD" ...
example "DSN" "UID" "FWD" demoinsert
example "DSN" "UID" "FWD" "Sql1" "Sql2" ...
example "DSN" "UID" "FWD" driverinfo dbinfo ... quit
example "ConnectString start with DSN= or Driver=" demoinsert
example "ConnectString start with DSN= or Driver=" "Sql1" "Sql2" ...
example "ConnectString start with DSN= or Driver=" driverinfo dbinfo ... quit

Enter the data source name      : █
```

7. Verify that you're connected.

```
root@useattss1ddhdp4:/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/samples/example
NUM, SESSION, SHARE, SIZE, SQLBUF, SUCCESSFUL, SYNONYM, SYSDATE, UID, VALIDATE, VARCHAR2, VIEW
Quote TCHAR : "

----- Driver info from the internal command driverinfo:
Driver name : ddhybrid01.so
Driver version : 4.62.0356 (B2980, U2935)
ODBC version driver supports : 03.52
Driver manager ODBC version : 03.52.0000
Driver Manager version : 03.52.080.3102

Enter SQL statements (Press ENTER to QUIT)
SQL> █
```

Note: Kindly configure your timezone before executing the test. You'll see the error below if time is not properly configured.

```
root@useattss1ddhdp4:/opt/Progress/DataDirect/Hybrid_Data_Pipeline_for_ODBC/samples/example
Enter the password (invisible) : *****
SQLSTATE = HY000
NATIVE ERROR = 222206042
MSG = [DataDirect][ODBC Hybrid driver][Service]TimeZone (America/New_York -18,000,000/true) and offset/use-daylight-time (0/false) do not match.
SQLConnect: Retrying Connect.
SQLSTATE = HY000
NATIVE ERROR = 222206042
MSG = [DataDirect][ODBC Hybrid driver][Service]TimeZone (America/New_York -18,000,000/true) and offset/use-daylight-time (0/false) do not match.
SQLConnect: Retrying Connect.
SQLSTATE = HY000
NATIVE ERROR = 222206042
MSG = [DataDirect][ODBC Hybrid driver][Service]TimeZone (America/New_York -18,000,000/true) and offset/use-daylight-time (0/false) do not match.
SQLConnect: Retrying Connect.
SQLSTATE = HY000
NATIVE ERROR = 222206042
MSG = [DataDirect][ODBC Hybrid driver][Service]TimeZone (America/New_York -18,000,000/true) and offset/use-daylight-time (0/false) do not match.
```