

Install Guide - SetupWizard - Databricks

WhereScape Enablement Pack for Databricks - RED 10

This is a guide to installing the WhereScape Enablement Pack for Databricks for WhereScape RED10

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Prerequisites For PostgreSQL Metadata

Before you begin the following prerequisites must be met:

- Create Database and ODBC DSN :
 - Supported* version of PostgreSQL (PostgreSQL 12 or higher)
 - A database to house the RED Metadata Repository.
 - A database for the Range Table DB (Optional)
 - A database to house scheduler (Optional)
- Software Installations
 - WhereScape RED10 with valid license key entered and EULA accepted
 - WhereScape Enablement Pack for target database version RED10
- Windows Powershell (64 bit) version 4 or higher
 - To check Windows Powershell Version:
 - Run below command in Windows Powershell

```
Get-Host | Select-Object Version
```

- Run below command in Command Prompt

```
powershell $psversiontable
```

- Run the following command using PowerShell
 - The security protocol TLS 1.0 and 1.1 used by PowerShell to communicate with PowerShell gallery has deprecated and TLS 1.2 has been made mandatory

```
[Net.ServicePointManager]::SecurityProtocol = [Net.ServicePointManager]::  
SecurityProtocol -bor [Net.SecurityProtocolType]::Tls12  
Register-PSRepository -Default -Verbose  
Set-PSRepository -Name "PSGallery" -InstallationPolicy Trusted
```

- Progress bar placeholder info line

```
Install-Module -Name PoshProgressBar -SkipPublisherCheck -Force
```

* : RED supports the following versions for the metadata repository: PostgreSQL 12 or higher

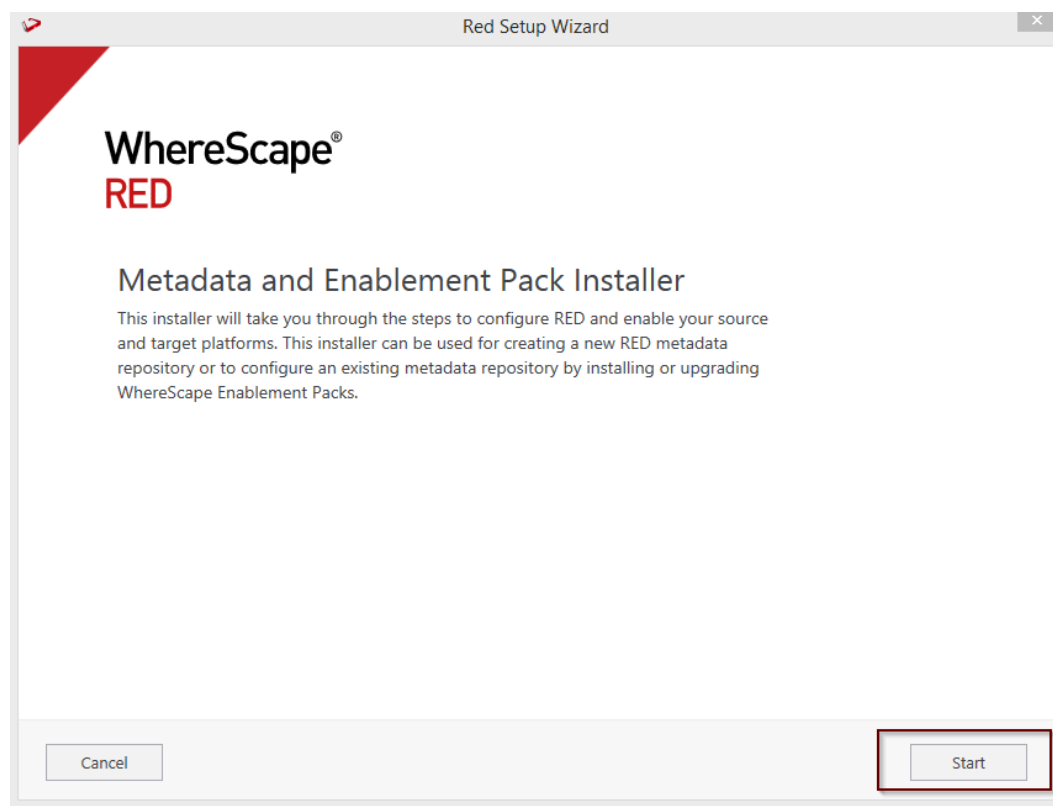
Prerequisites For Databricks Target Database

Before you begin the following prerequisites must be met:

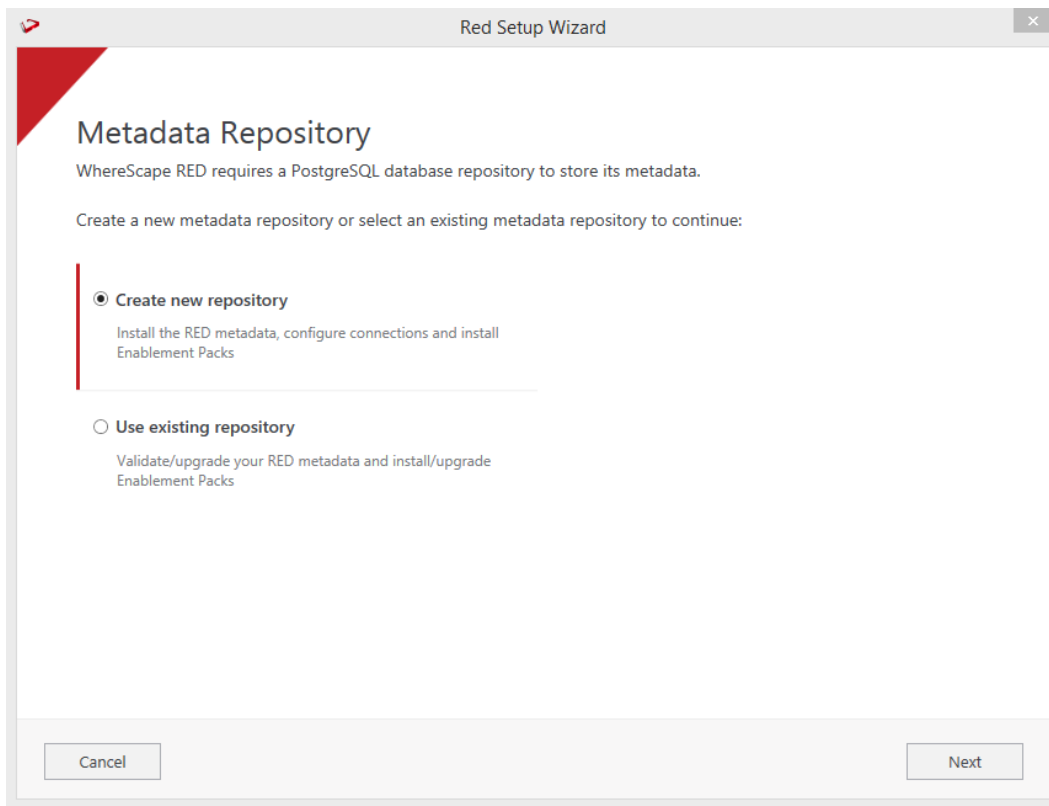
- Create Database and ODBC DSN :
 - Databricks
 - At least one schema available to use as a RED Data Warehouse Target
- [Python 3.8 or higher](#)
 - Select "Add Python 3.8 to PATH" from installation Window
 - Pip Manager Install with command : `python -m pip install --upgrade pip`

Installation Through Setup Wizard

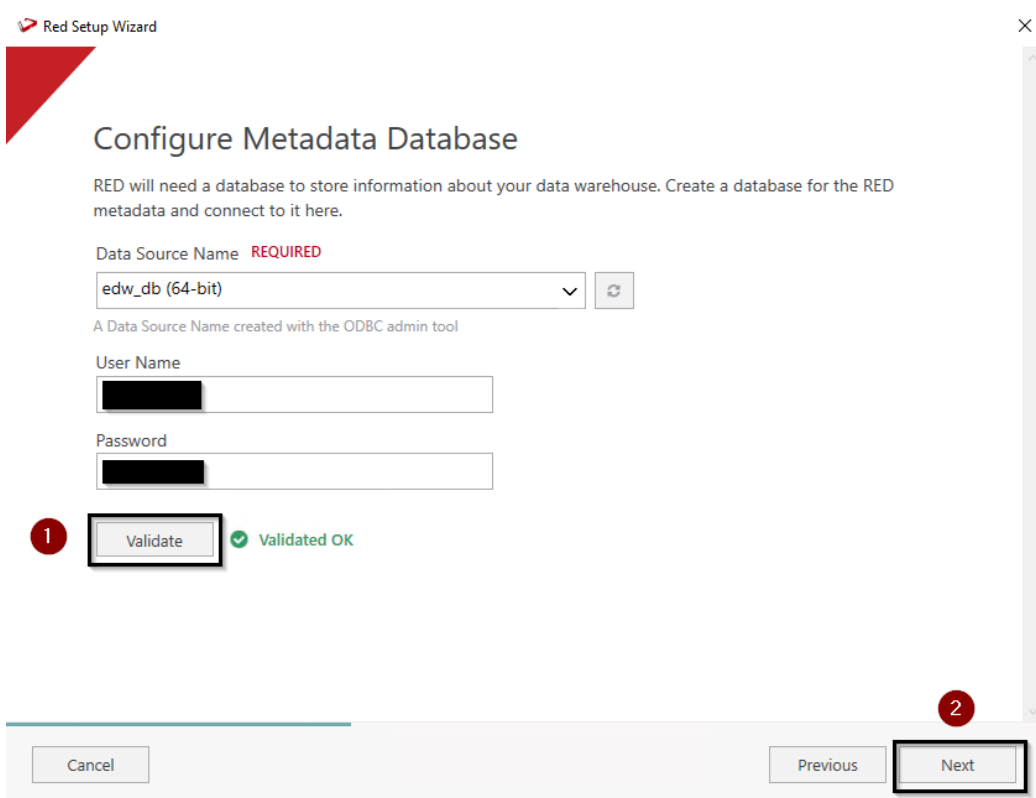
Run Setup Wizard as administrator



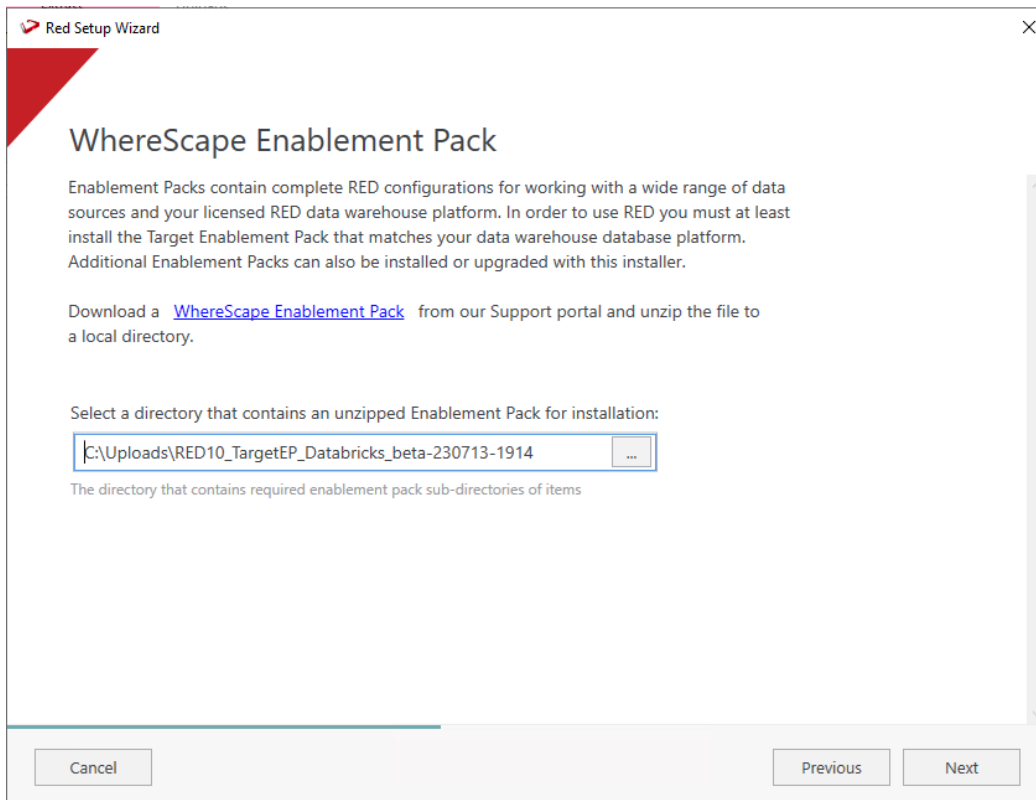
Create new repository or upgrade already existing repository.



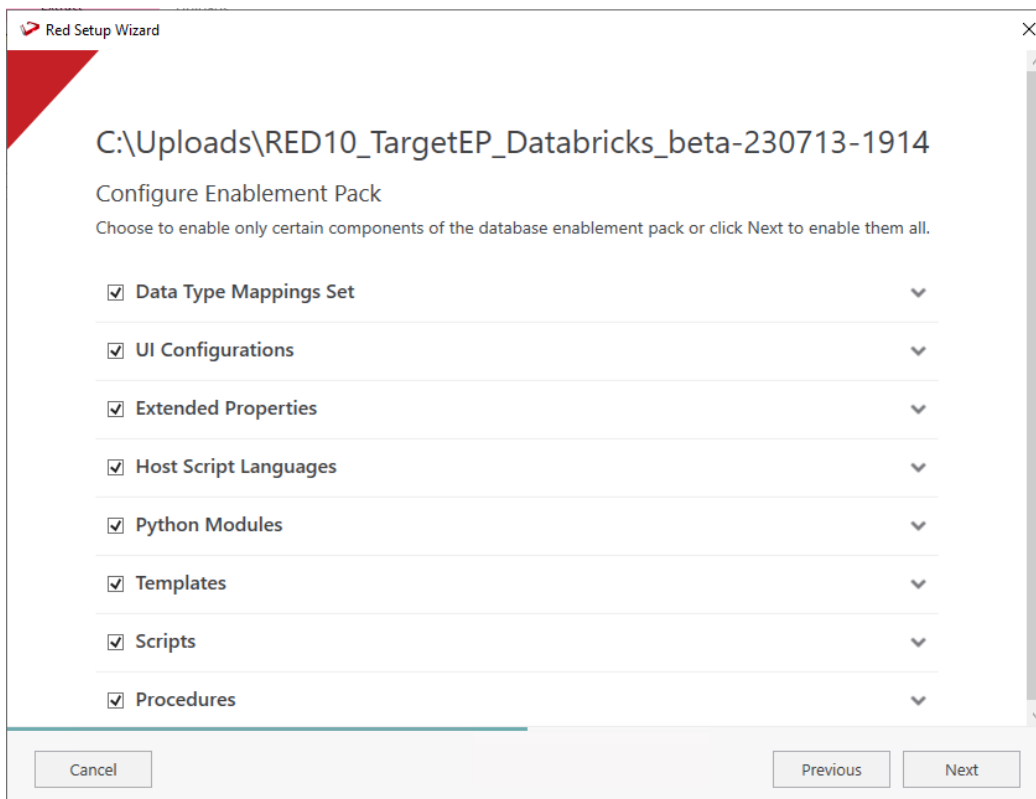
Select the created ODBC DSN, input login details and then select "Validate". Press Next



Select the directory that contains unzipped Enablement Pack for installation. Press Next



Using the check boxed list, include or exclude the components that are to be installed. Press Next



Configure a target connection (example, Data Warehouse) and its target locations.

Red Setup Wizard

Add Targets

Configure the connection where your data warehouse will live.

Connection Name **REQUIRED**
Data Warehouse
A unique name that identifies this connection

Data Source Name **REQUIRED**
Databricks (64-bit) [Refresh]
A Data Source Name created with the ODBC admin tool

User Name
username

Password
•••••

Target Storage Locations **REQUIRED**
Existing schema (or database names depending on platform) for object storage

+ Add Location

Cancel Previous Next

Validate and press ADD.

Red Setup Wizard

Data Source Name **REQUIRED**
Databricks (64-bit) [Refresh]
A Data Source Name created with the ODBC admin tool

User Name
username

Password
•••••

Target Storage Locations **REQUIRED**
Existing schema (or database names depending on platform) for object storage

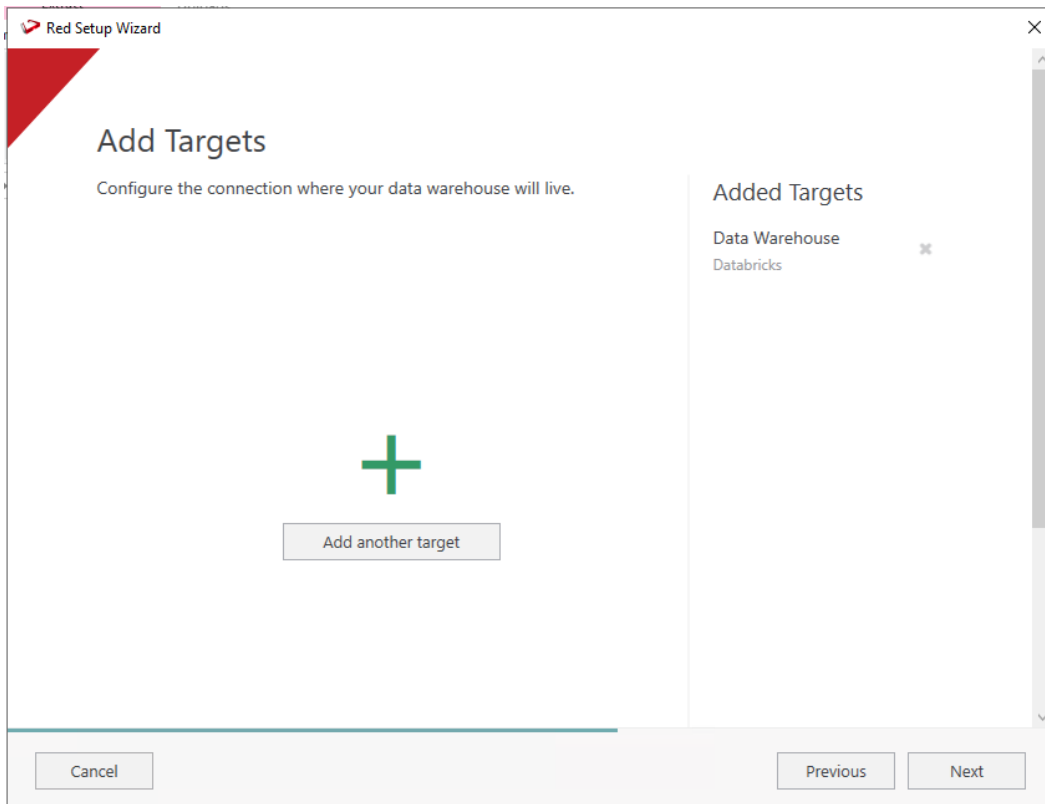
load [X]
stage [X]
edw [X]

+ Add another Location

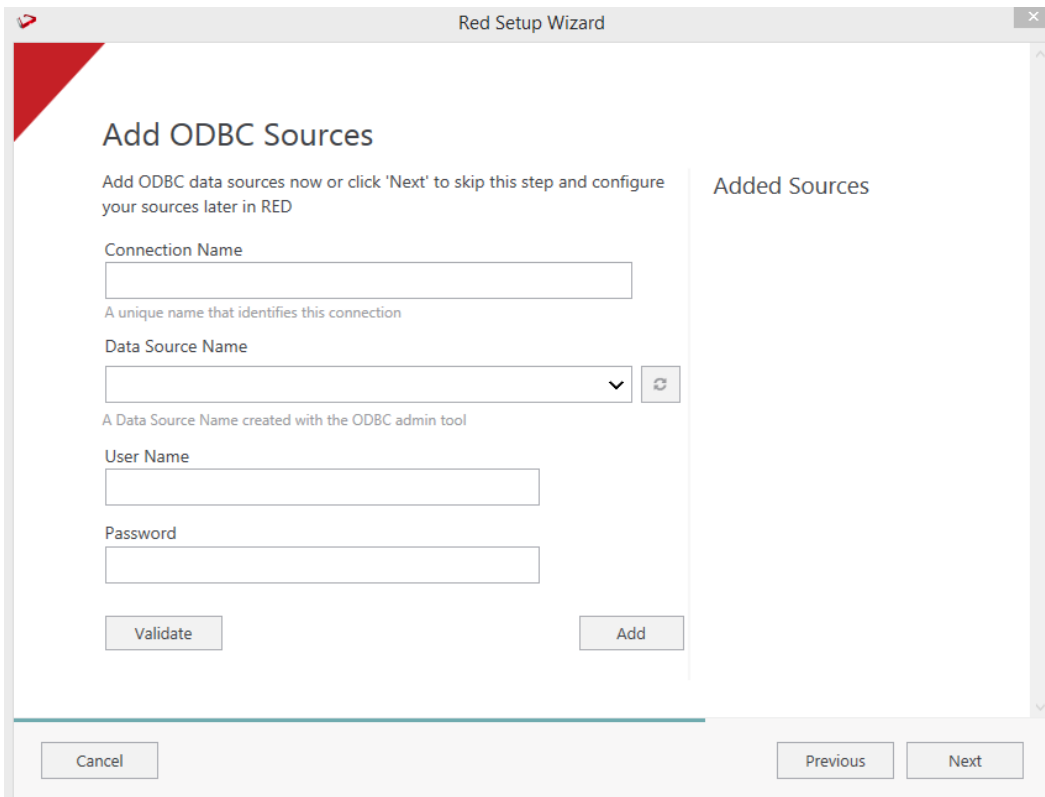
1 [Validate] [Validated OK] 2 [Add]

Cancel Previous Next

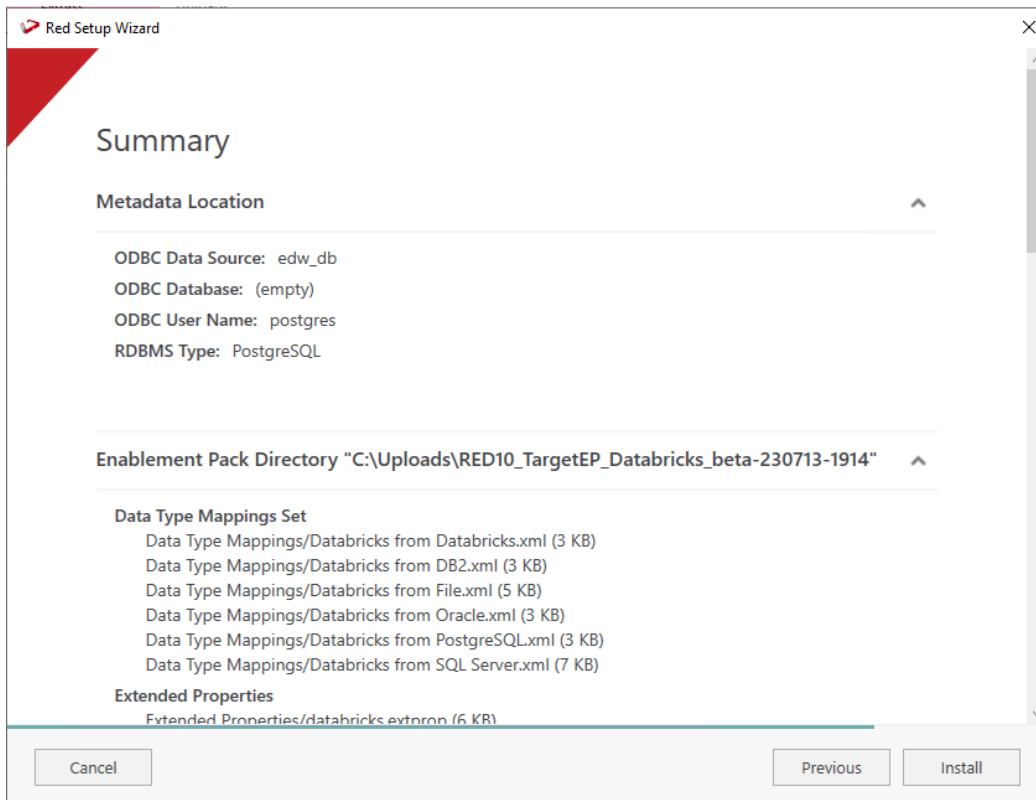
When done, press ADD and then Press Next to advance.



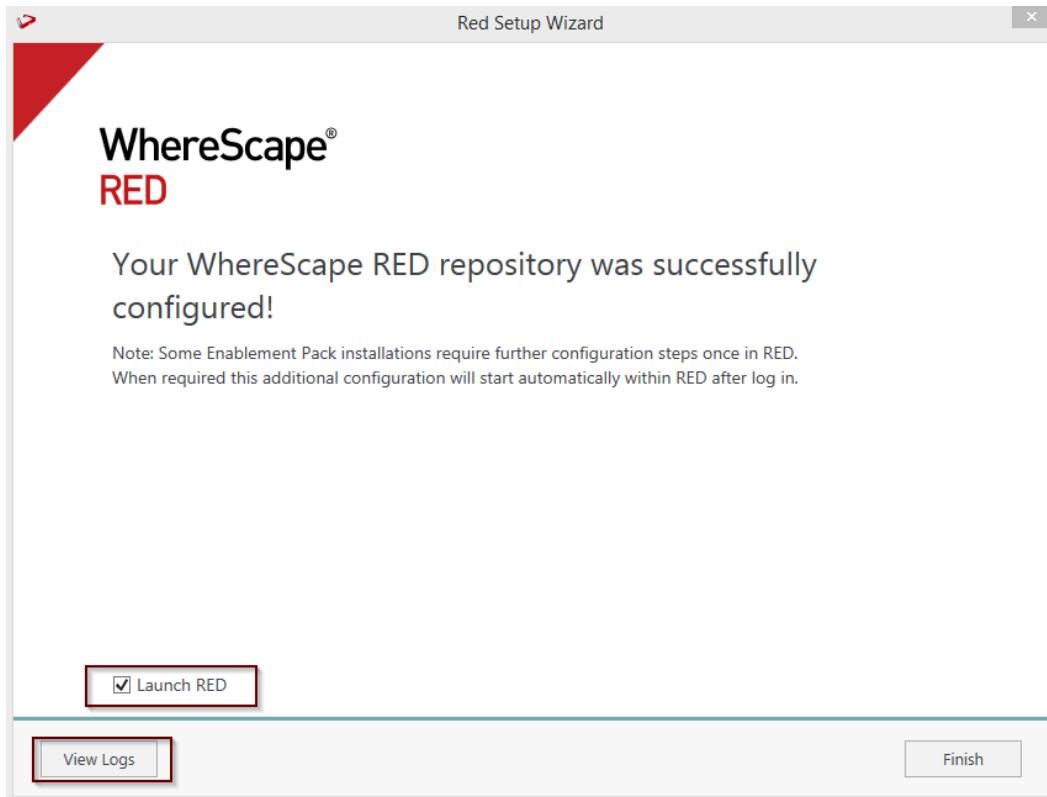
Configure a data source connection (optional) and its target locations. Validate and press ADD. Press Next to advance.



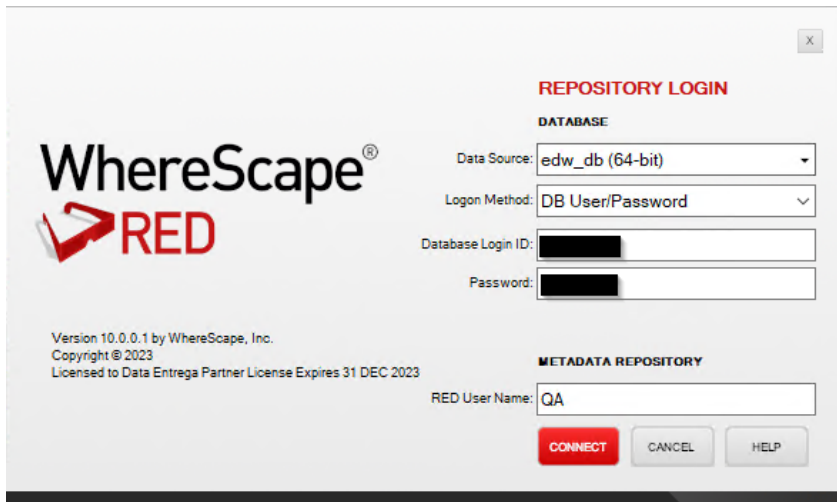
Review the installation summary and click Install



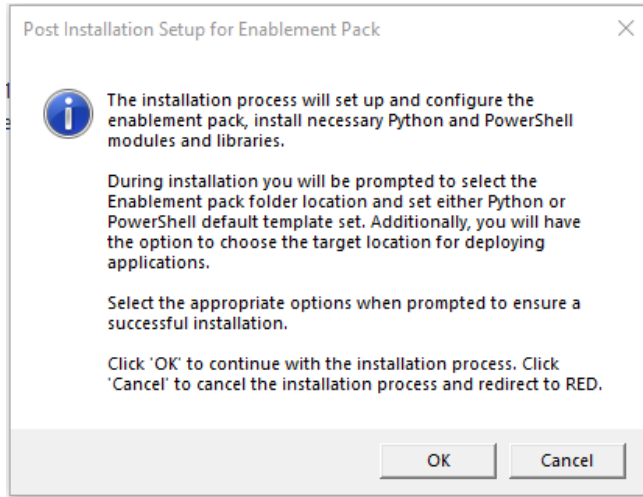
Clicking on the View Logs will take to the installation log. Click on Finish once the installation is completed successfully.



Login to WhereScape RED.

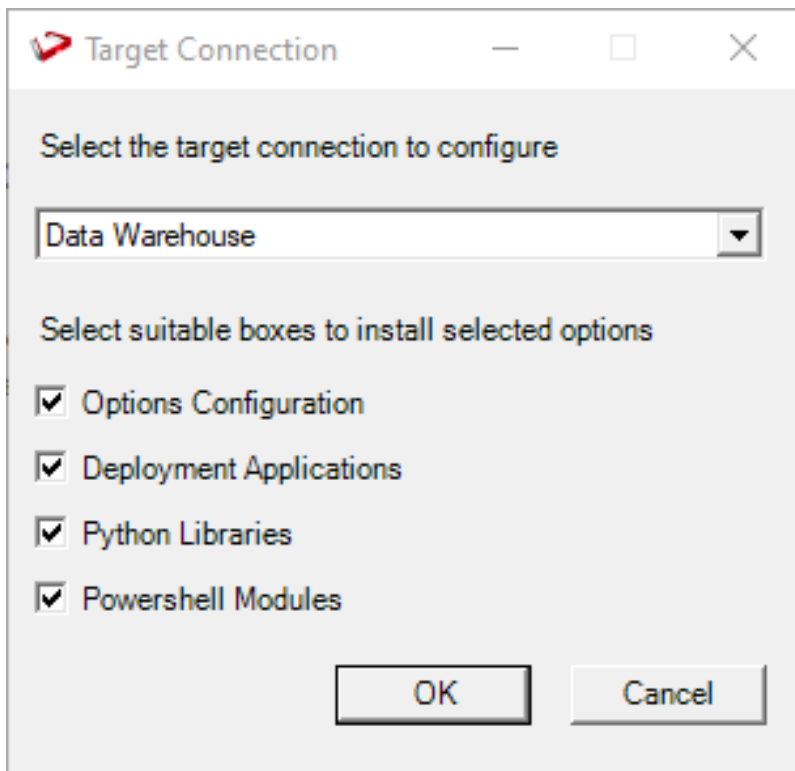


Note: There is a post-install script that will run at the first login to RED10 to complete the post setup wizard installation process. You will be directed to below PowerShell window which will give brief explanation about post installation process.

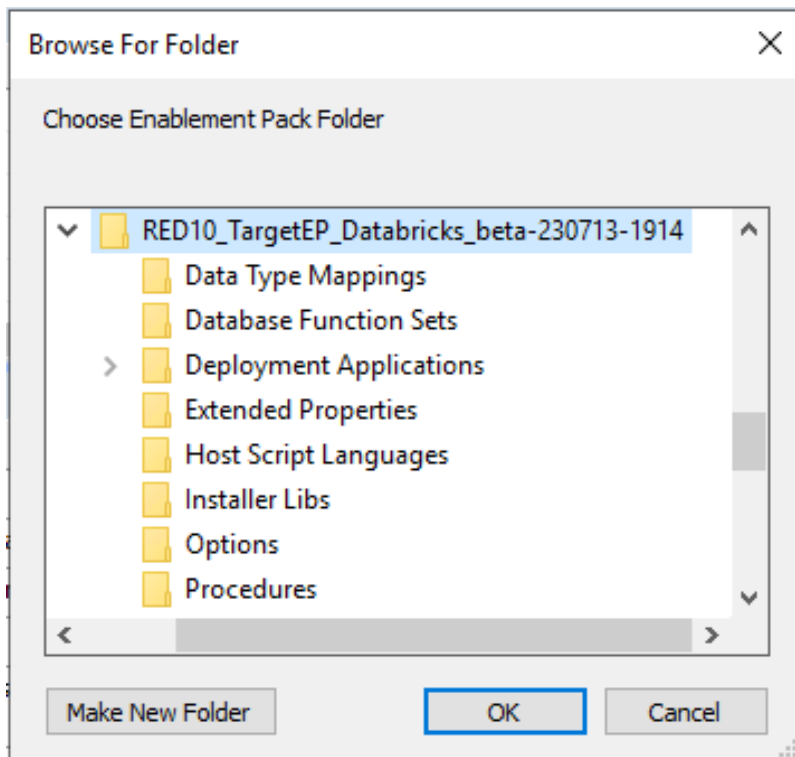


Press OK to start the post installation. If pressed Cancel installation will stop and user will be directed to RED.

The user will be directed to the window below, where they have to select the target connection to be configured. Additionally, by deselecting the provided options, the user can choose not to install a particular option.

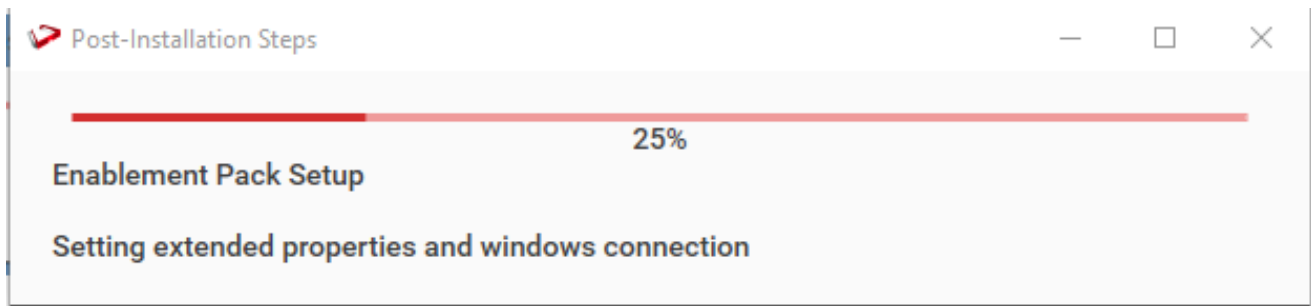


You will be directed to below PowerShell window. Provide the directory that contains unzipped Enablement Pack.

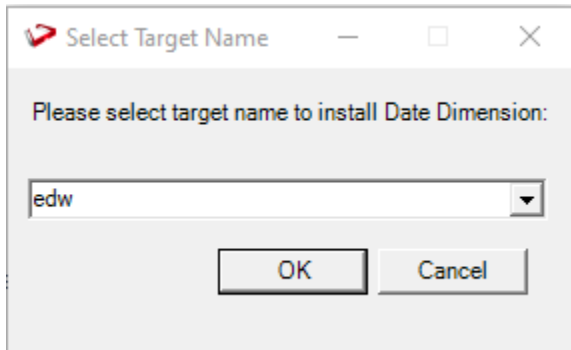


Press OK

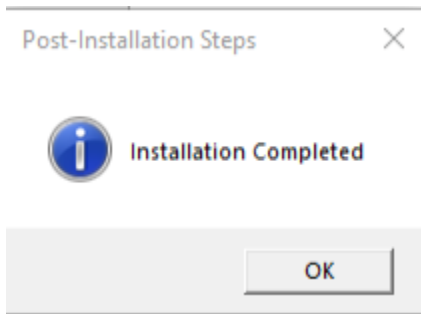
The progress bar will show the post installation progress.



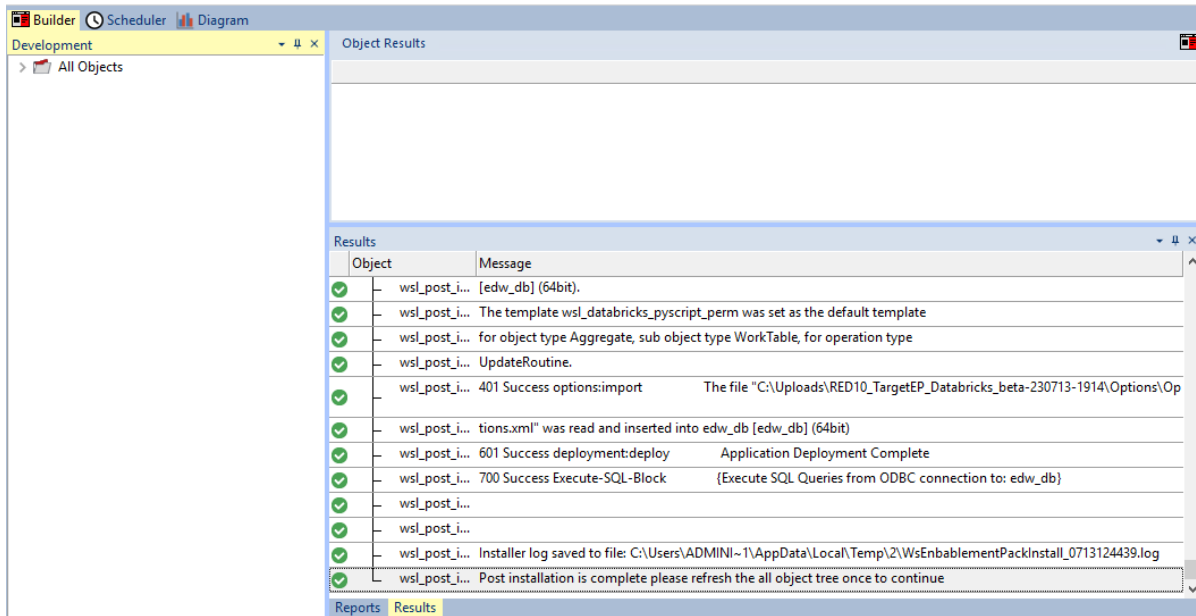
User will have to choose the schema for the target setting that were provided. One pop up will come for setting default target schema for Date Dimension.



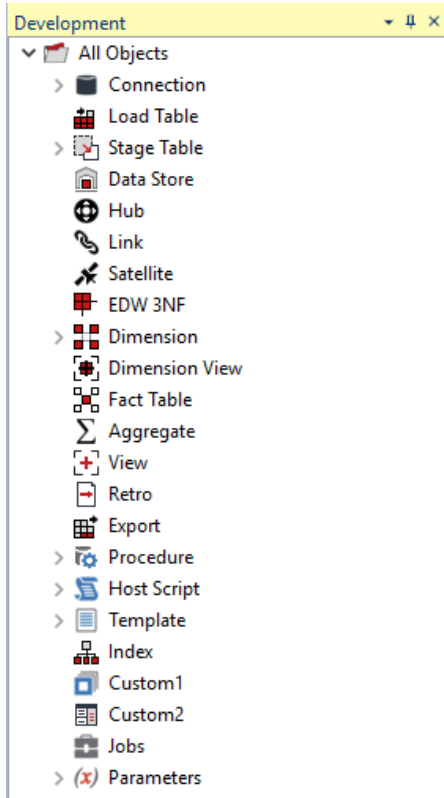
After selecting the target schema progress bar will show the progress for the installation and once it's completed, you will get the below pop up.



After pressing OK RED10 will open automatically.



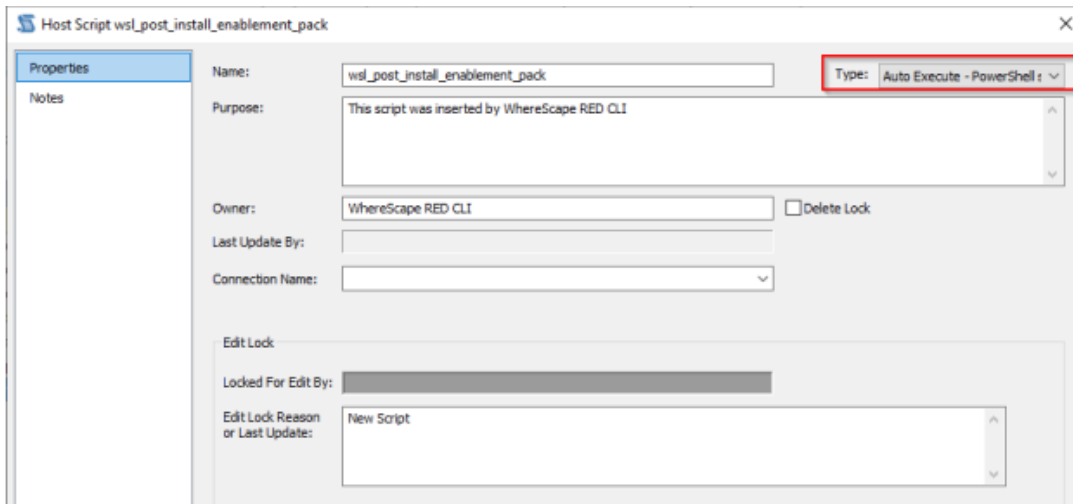
User will need to refresh the All Objects tree once.



Upgrade Of Existing Repository

For upgrade of existing repository

- From host script set script type of `wsl_post_install_enablement_pack` as Auto Execute - PowerShell Script



Important Upgrade Notes

If RED upgrade the repository option is chosen.

This enablement pack will overwrite any existing Source Enablement Pack UI Configs:

Connection UI Config	Load UI Config
Amazon S3	Load From Amazon S3
Azure Data Lake Storage Gen2	Load From Azure Data Lake Storage Gen2
Google Cloud	Load From Google Cloud

To ensure existing Source Enablement Pack connections and associated Load Tables continue to browse and load:

Go into UI Configuration Maintenance in RED prior to installing this Enablement Pack and rename the affected UI Configurations. While the updated Load Template will work with previous Source Enablement Pack's we recommend moving these previous versions of Load Tables to newly created Parser based connections following this install. The earlier versions of the Source Enablement Pack will be deprecated following this release.

Post Install Steps – Optional

If you used the script Setup Wizard for installation then the following optional post install steps are available.

Configure Connections

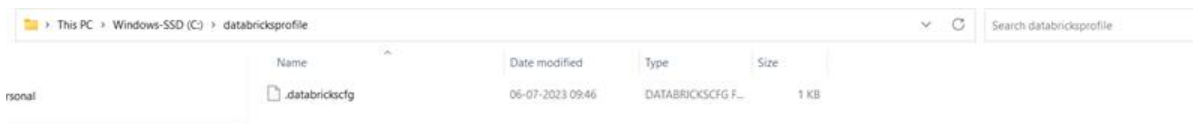
These connections added that will optionally require your attention:

1. Connection: Data Warehouse ('Databricks')- This connection was setup as per parameters provided in Setup Wizard
 - a. open it's properties and check extended properties tab, set it up for **HTTP_PATH,SERVER_HOSTNAME,DB_ACCESS_TOKEN** and **DBFS_TMP**
2. Connection: 'Database Source System' - this connection was setup as an example source connection,
 - a. open its properties and set it up for a source DB in your environment
 - b. or you can remove it if not required

Enable Script Launcher Toolbar

There are a number of stand-alone scripts which provide some features such as "Ranged Loading", these scripts have been added to the Script Launcher menu but you will need to enable the menu toolbar item to see them.

To enable the Script Launcher menu in RED: Select menu item 'Home->Script Launcher'



Windows Powershell Script Execution

On some systems Windows Powershell script execution is disabled by default. There are a number of workarounds for this which can be found by searching the term "Powershell Execution Policy".

Here is the most common workaround which WhereScape suggests, which does not permanently change the execution rights:

Start a Windows CMD prompt as Administrator, change directory to your script directory and run the WhereScape Powershell scripts with this command:

- `cmd:>Powershell -ExecutionPolicy Bypass -File .\<script_file_name.ps1>`

Re-install Python Libraries

Press the Windows Key on your keyboard and start typing `cmd.exe`, when the `cmd.exe` icon shows up in the search list right click it to bring up the context menu, select "Run As Administrator"

Now you have an admin prompt navigate to the folder where you have unpacked your WhereScape Red Enablement Pack to using the 'cd' command:

```
C:\Windows\system32> cd <full path to the unpacked folder>
```

Run batch (.bat) scripts from the administrator prompt by simply typing the name at the prompt and hit enter, for example:

```
C:\temp\EnablementPack>uninstall_WslPython_Modules.bat
```

For installation of Python libraries there are two methods

- Method 1

Press the Windows Key on your keyboard and start typing `cmd.exe`, when the `cmd.exe` icon shows up in the search list right click it to bring up the context menu, select "Run As Administrator"

Now you have an admin prompt navigate to the folder where you have unpacked your WhereScape Red Enablement Pack to using the 'cd' command:

```
C:\Windows\system32> cd <full path to the unpacked folder>
```

Run batch (.bat) scripts from the administrator prompt by simply typing the name at the prompt and hit enter, for example:

```
C:\temp\EnablementPack>install_WslPython_Modules.bat
```

- Method 2

Press the Windows Key on your keyboard and start typing `cmd.exe`, when the `cmd.exe` icon shows up in the search list right click it to bring up the context menu, select "Run As Administrator"

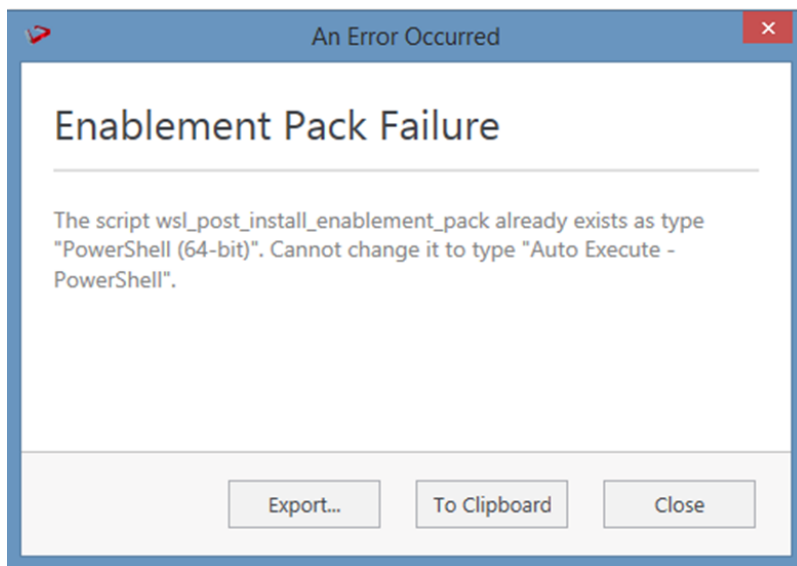
Now you have an admin prompt navigate to the folder where you have unpacked your WhereScape Red Enablement Pack to using the 'cd' command:

```
C:\Windows\system32> cd <full path to the unpacked folder>
```

Run the below command

```
python -m pip install -r requirements.txt
```

For upgrade of existing repository



In upgrade of exiting repository if the user gets above error then it means the script type of *wsl_post_install_enablement_pack* is set to PowerShell(64-bit) change the script type to Auto Execute-PowerShell before upgrade or manually run the *wsl_post_install_enablement_pack* script from host script from RED after upgrade.

If a valid RED installation can not be found

If you have RED 10.x or higher installed but the script (Setup_Enablement_Pack.ps1) fails to find it on you system then you are most likely running PowerShell (x86) version which does not show installed 64 bit apps by default. Please open a 64 bit version of Powershell instead and re-run the script