Install Guide - Setup Wizard - PostgreSQL - RED 10.2

WhereScape Enablement Pack for PostgreSQL - RED 10.2

This is a guide to installing the WhereScape Enablement Pack for PostgresSQL 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

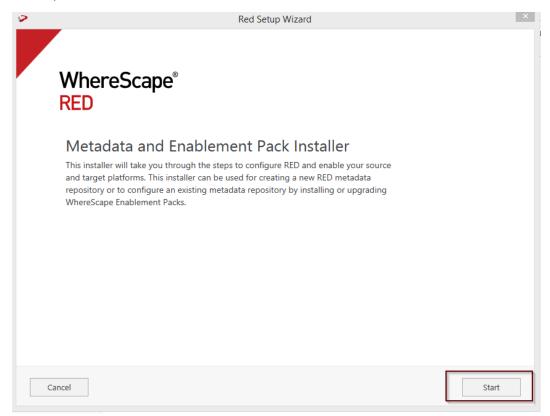
Prerequisites For PostgreSQL

Before you begin the following prerequisites must be met:

- Create Database and ODBC DSN : • PostgresSQL
 - 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.

\triangleright	Red Setup Wizard	×
	Metadata Repository WhereScape RED requires a PostgreSQL database repository to store its metadata.	
	Create a new metadata repository or select an existing metadata repository to continue:	
	Create new repository Install the RED metadata, configure connections and install Enablement Packs	
	O Use existing repository Validate/upgrade your RED metadata and install/upgrade Enablement Packs	
	Cancel	Next

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

Red Setup Wizard	×
Configure Metadata Database RED will need a database to store information about your data warehouse. Create a database for the RED metadata and connect to it here.	
Data Source Name REQUIRED	
test_pg (64-bit) 🗸 💈	
A Data Source Name created with the ODBC admin tool	
User Name	
Password	
Connection String	
1 Validate Validated OK	
	2
Cancel	Next

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

Red Setup Wizard		×
WhereScape Enablement Pack Enablement Packs contain complete RED configurations for working with a wide range of data sources and your licensed RED data warehouse platform. In order to use RED you must at least install the Target Enablement Pack that matches your data warehouse database platform. Additional Enablement Packs can also be installed or upgraded with this installer. Download a <u>WhereScape Enablement Pack</u> from our Support portal and unzip the file to		
a local directory. Select a directory that contains an unzipped Enablement Pack for installation: 		
Cancel	Previous	Next

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

🎾 Red Set	tup Wizard		
	G1080vk Related (argeteps)		
	\RED10_TargetEP_PostgreSQL		
	Configure Enablement Pack Choose to enable only certain components of the database enablement pack or click Next to enable the	m all.	
	Database Function Set	~	
	Data Type Mappings Set	~	
	✓ UI Configurations	~	
	✓ Extended Properties	~	
	✓ Host Script Languages	~	
	PowerShell Modules	~	
	✓ Python Modules	~	
Car	Previous		Next

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

Data Source Name REQUIRED		
pgtarget (64-bit)	✓ C	
A Data Source Name created with the ODBC admin tool		
User Name		
Password		
Connection String		
connection string		
Target Storage Locations, REQUIRED		
Target Storage Locations REQUIRED Existing schema (or database names depending on platform) for obje	ect storage	
Existing schema (or database names depending on platform) for obje		
Target Storage Locations REQUIRED Existing schema (or database names depending on platform) for obje load	ect storage	
Existing schema (or database names depending on platform) for obje		
Existing schema (or database names depending on platform) for obje	×	
Existing schema (or database names depending on platform) for obje	×	
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Existing schema (or database names depending on platform) for objection of the stage	×	
Existing schema (or database names depending on platform) for objection of the stage	× × ×	

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

🎾 Red Setup Wizard			×
			^
Add Targets			
Configure the connection where yo	our data warehouse will live.	Added Targets	
		Data Warehouse pgtarget	×
	+		
Add a	nother target		
Cancel		Previous	Next

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

Red Setup	Wizard		
Add ODBC Sources			
Add ODBC data sources now or click 'Next' to skip this ste your sources later in RED	ep and configure	Added Sources	
Connection Name			
A unique name that identifies this connection			
Data Source Name			
	✓ C		
A Data Source Name created with the ODBC admin tool			
User Name			
Password			
Validate	Add		
valuate	Adu		
		_	
ncel		Previous	Next

Review the installation summary and press Install

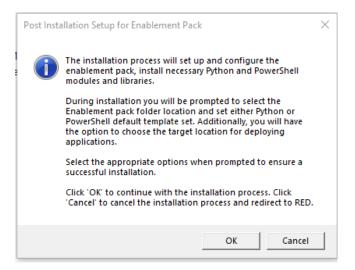
tup Wizard		
Summary		
Metadata Location	^	
ODBC Data Source: test_pg		
ODBC Database: (empty)		
ODBC User Name:		
Connection String: dsn=\$DSN\$;uid=\$USER\$;pwd=\$PASSWORD\$;		
Connection String: dsn=\$DSN\$;uid=\$USER\$;pwd=\$PASSWORD\$; RDBMS Type: PostgreSQL		
	^	
RDBMS Type: PostgreSQL Enablement Pack Directory "(^	
RDBMS Type: PostgreSQL Enablement Pack Directory "(\RED10_TargetEP_PostgreSQL	^	
RDBMS Type: PostgreSQL Enablement Pack Directory "(\RED10_TargetEP_PostgreSQL	^	
RDBMS Type: PostgreSQL Enablement Pack Directory "(\RED10_TargetEP_PostgreSQL	^	

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

Red Setup Wizard	×
WhereScape [®] RED	
Your WhereScape RED repository was successfully configured!	
Note: Some Enablement Pack installations require further configuration steps once in RED. When required this additional configuration will start automatically within RED after log in.	
✓ Launch RED	
View Logs	Finish
Login to WhereScape RED.	
x	

		X
		REPOSITORY LOGIN
		DATABASE
WhereScape®	Data Sources	test_pg (64-bit) 🔹
	Profile	test_pg ~
RED	Database Login ID	
-	Password	
Version 10.2.0.0 by WhereScape, Inc.	Connection String	
Copyright © 2024 Licensed to Data Entrega Partner License Expires 31 DEC 202	4	METADATA REPOSITORY
	RED User Name	· Ventere T
		CONNECT CANCEL HELP

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.

✤ Target Connection - □ ×
Select the target connection to configure
Data Warehouse
Select suitable boxes to install selected options
Options Configuration
 Deployment Applications
V Python Libraries
V Powershell Modules
OK Cancel

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

Browse For Folder	\times
Choose Enablement Pack Folder	
RED10_TargetEP_PostgreSQL_dev-240724-18	07 ^
Data Type Mappings	
> Deployment Applications	
Extended Properties Host Script Languages	
Installer Libs	
<	>
Make New Folder OK Can	cel
	.d

Select the template set for installation either Python or PowerShell.

Select Template Set	_	\times
Select a template set to in	nstall:	
Python		
C PowerShell		
ОК		

Press OK

The user will be directed to the window below, where they have to select the Create new profile or use existing one option.

🎾 Please Select Required Field		_	\times
Do you want to crea	te a new prof	ile file?	
 Yes, Create new one 			
C No, Use existing one			
	ОК		

Note: For fresh installation RED will create profile file with same name as DSN, which the user can use or choose to create new profile file.

Press Ok.

For "Yes, Create new one" option , user will be directed to the window below.

Target Connection Det	ails	_		×
Enter Details For D	ata Warehouse			
User ID				
Password				
Connection String	DSN=\$DSN\$;UID=\$USER\$;	PWD=\$PASS	WORD\$;	<u> </u>
DSN				•
	ОК			

Note: User can use default connection string or input new one.

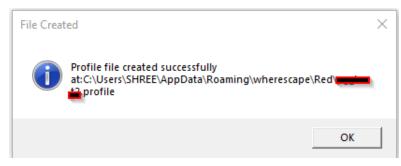
Press OK

The user will be directed to the window below, where user can add profile name.

🎾 Profile File Name	—	\times
Please enter the profile	file name:	
_		
	ОК	

Press Ok.

The below pop up will come to confirm the user that profile is created at that location



If the user choose "No, Use existing one" option.



Press OK

The user will be directed to the window below ,where user can select the exiting profile file.

Select the Profile File		—	\times
test_pg.profile			•
	ок		
			//

Press OK.

The progress bar will show the post installation progress.

Post-Installation Steps	_	\times
25%		_
Enablement Pack Setup		
Setting extended properties and windows connection		

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.

🎾 Select Target Name	_		×
Please select target name	to install	Date Dime	nsion:
Jedw			-
(ОК	Cancel	

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.

Development	▼₽×	Object Results	Ē
✓ m All Objects			
> 🔳 Connection	· · · · · · · · · · · · · · · · · · ·		
Load Table			
> 🔀 Stage Table			
Data Store			
🔁 Hub			
🗞 Link		Results	<u>•</u> [1]
🖌 Satellite		Object	Message
EDW 3NF	(📀 🗕 wsl_post_i	(64bit)
> 📕 Dimension	(wsl_post_i	301 Success object-type-definition:import The file "G:\Work
🖶 Dimension View		-	Related\targeteps\RED10_TargetEP_PostgreSQL_dev-240724-180
Fact Table	0	wsl_post_i	7\Options\templateRoutine_py.objtype" was imported and 52 definitions were
∑ Aggregate		📀 🗕 wsl_post_i	inserted into test_pg [test_pg] (64bit)
[+] View		wsl_post_i	401 Success options:import The file "G:\Work Related\targeteps\RED10_TargetEP_PostgreSQL_dev-240724-180
🕂 Retro		-	
Export 🔛	9	· · ·	7\Options\Options.xml" was read and inserted into test_pg [test_pg] (64bit)
> 🔯 Procedure		📀 💷 wsl_post_i	601 Success deployment:deploy Application Deployment Complete
> 写 Host Script	(📀 🗕 wsl_post_i	700 Success Execute-SQL-Block {Execute SQL Queries from ODBC connection to: test_pg}
> 📃 Template		📀 🗕 wsl_post_i	
🔒 Index		wsl_post_i	
Custom1			Installer log saved to file: C:\Users\INDIAN\AppData\Local\Temp\WsEnablementPackInstall_0807095302.log
Custom2		-	Post installation steps are completed. Please restart RED once to continue
Jobs	L.		
> (x) Parameters		Results Report	
leady			Middle Pane: Object Results Development (test pg)

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

Host Script wsl_post_inst	all_enablement_pack			×
Properties Notes	Name: Purpose:	wsl_post_install_enablement_pack This script was inserted by WhereScape RED CLI	Type:	Auto Execute - PowerShell : V
	Owner: Last Update By: Connection Name:	WhereScape RED CLI	Delete Lock	v.
	Edit Lock Locked For Edit By: Edit Lock Reason or Last Update:	New 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:

- Connection: Data Warehouse ('PostgreSQL') 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 SERVER_NAME and SERVER_PORT
- 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'

Source Enablement Pack Support

Source Pack Name Supported By Supported Features PostgreSQL	Prerequisites/Permissions Required for PostgreSQL
---	--

Google Cloud Storage	Yes	Download to local and load	None
Azure Data Lake Storage Gen2	Yes	Download to local and load	None
Amazon S3	Yes	Download to local and load	None
Windows Parser	Yes	Load Template, Source Properties will have option to select parser type to load the files.	Refer to Windows Parser Guide

Troubleshooting and Tips

Run As Administrator

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 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_WsIPowershell_Modules.bat

Run Powershell (.ps1) scripts from the administrator prompt by typing the Powershell run script command, for example:

C:\temp\EnablementPack>Powershell -ExecutionPolicy Bypass -File .\Setup_Enablement_Pack.ps1

Notes: In the event you can not bypass the Powershell execution policy due to group policies you can instead try "-ExecutionPolicy RemoteSigned" which should allow unsigned local scripts.

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 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 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 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

An Error Occurred	×
Enablement Pack Failure	
The script wsl_post_install_enablement_pack already exists as type "PowerShell (64-bit)". Cannot change it to type "Auto Execute - PowerShell".	
Export To Clipboard Close	

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

Table name should be given in lowercase only

While loading the table, the table name should be given in lowercase, for example, load_tablename; otherwise, loaded data will now get displayed.