Install Guide - SetupWizard - Snowflake - RED 10.2

WhereScape Enablement Pack for Snowflake - RED 10.2

This is a guide to installing the WhereScape Enablement Pack for Snowflake for WhereScape RED

Table of Contents

- Prerequisites For PostgreSQL Metadata
- Prerequisites For Snowflake
- Installation Through Setup Wizard
- Upgrade Of Existing Repository
- Post Install Steps Optional
- Source Enablement Pack Support
- Troubleshooting and Tips

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
 - $^{\circ}~$ 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 Snowflake

Before you begin the following prerequisites must be met:

- Create Database and ODBC DSN :
 - Snowflake (ODBC driver version 2.22.01 or higher(64-bit))

 - At least one schema available to use as a RED Data Warehouse Target
 Snowflake driver Log Level set to 0 in the Windows Registry and the Snowflake DSN Tracing set to 0
- Software Installations

Snowflake SnowSQL (CLI Client)

- Python 3.8 or higher (Tested with 3.8-3.11)

 Select "Add Python 3.8 to PATH" from installation Window
 Pip Manager Install with command : python -m pip install --upgrade pip

Note: Some of the libraries might be deprecated in the newer versions of python (Python 3.12 and higher)

Installation Through Setup Wizard

Run Setup Wizard as administrator

\triangleright	Red Setup Wizard	×
	WhereScape [®] RED	
	Metadata and Enablement Pack Installer This installer will take you through the steps to configure RED and enable your source and target platforms. This installer can be used for creating a new RED metadata repository or to configure an existing metadata repository by installing or upgrading WhereScape Enablement Packs.	
(Cancel	Start

Create new repository or upgrade already existing repository.

8	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	
	○ Use existing repository	
	Validate/upgrade your RED metadata and install/upgrade Enablement Packs	
	Cancel	Next

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

Configure Metadata	Database
RED will need a database to store infor metadata and connect to it here.	mation about your data warehouse. Create a database for the RED
Data Source Name REQUIRED	
test_sf (64-bit)	✓ 2
A Data Source Name created with the ODBC a	admin tool
User Name	
Password	
Connection String	

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

WhereScape Enablement Packs contain complete RED configurations for working with a wide range of data source source and your licensed RED data warehouse platform. In order to use RED you must at least sources and your licensed RED data warehouse platform. In order to use RED you must at least sources and your licensed RED data warehouse platform. In order to use RED you must at least sources and your licensed RED data warehouse platform. In order to use RED you must at least sources and your licensed RED data warehouse platform. In order to use RED you must at least sources and your licensed RED data warehouse database platform. Wared Cape Enablement Pack from our Support portal and unzip the file to a claid directory. Concel Sect a directory that contains an unzipped Enablement Pack for installation. Concel Image: Previous Vect Cancel Previous <			
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// Host Script Languages	the check boxed list, include or exclude the components the defect of th	hat are to be installed. Press Next	
	the check boxed list, include or exclude the components the descent of the descen	hat are to be installed. Press Next	

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

 \sim

Next

Previous

✓ PowerShell Modules

The second se

Cancel

Snowflake (64-bit)	✓ 3	
A Data Source Name created with the ODBC admin tool		
User Name		
Password		
Connection String		
-		
Target Storage Locations REQUIRED	for object storage	
Target Storage Locations REQUIRED Existing schema (or database names depending on platform) f		
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Target Storage Locations REQUIRED Existing schema (or database names depending on platform) f		
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Target Storage Locations REQUIRED Existing schema (or database names depending on platform) f	м м м	

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

>	Red Setup Wizard	×
Add	Targets	^
Configu	ure the connection where your data warehouse will live. Added Targets	
	Data Warehouse Snowflake	
	Add another target	*
Cancel	Previous Next	

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

	Sources				
Add ODBC data sou your sources later in	rces now or click 'Next' to RED	skip this step and con	figure	Added Sources	
Connection Name			7		
A unique name that ide	entifies this connection				
Data Source Name					
		~	C		
A Data Source Name cr	eated with the ODBC admin to	lool			
User Name					
Password					
Connection String					

Review the installation summary and press Install

etup Wizard	
Summary	
Metadata Location	^
ODBC Data Source: test_sf	
ODBC Database: (empty)	
ODBC User Name:	
Connection String:	
RDBMS Type: PostgreSQL	
Nobino Type. Posigiesqu	
Enablement Pack Directory "C., RED10_TargetEP_Snowflake_'	^
Enablement Pack Directory "C.,	^
Enablement Pack Directory "C., \RED10_TargetEP_Snowflake_' Database Function Set Database Function Sets/Snowflake Function Set.xml (41 KB) Data Type Mappings Set	^
Enablement Pack Directory "C., RED10_TargetEP_Snowflake_' Database Function Sets/Snowflake Function Set.xml (41 KB) Data Type Mappings Set Data Type Mappings/SNOWFLAKE from DB2.xml (3 KB)	^
Enablement Pack Directory "C.,	^
Enablement Pack Directory "C., RED10_TargetEP_Snowflake_' Database Function Sets/Snowflake Function Set.xml (41 KB) Data Type Mappings Set Data Type Mappings/SNOWFLAKE from DB2.xml (3 KB)	^
Enablement Pack Directory "C.,	^

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

\$	Red Setup Wizard	× :
W/horeCoore®		R - -
WhereScape [®] RED		
Your WhereScape RED configured!	repository was successfully	
Note: Some Enablement Pack installation	s require further configuration steps once in RED. ion will start automatically within RED after log in.	
View Logs		Finish
Login to WhereScape RED.		
	x	
	REPOSITORY LOGIN	
WhereScape®	Data Sources: test_sf (64-bit)	

		REPOSITO	ORY LOGIN	. –
		DATABASE		
WhereScape [®]	Data Sources:	test_sf (64-ł	pit)	•
	Profile:	test_sf		~
RED	Database Login ID:			
	Password:	•		
Version 10.2.0.0 by WhereScape, Inc.	Connection String:	4		
Copyright © 2024 Licensed to Data Entrega Partner License Expires 31 DEC 2024	RED User Name:	METADATA RE	POSITORY	
		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.

Post Installation Setup for Enablement Pack	x
 The installation process will set up and configure the enablement pack, install necessary Python and PowerShell modules and libraries. During installation you will be prompted to select the Enablement pack folder location and set either Python or PowerShell default template set. Additionally, you will have the option to choose the target location for deploying applications. Select the appropriate options when prompted to ensure a successful installation. Click 'OK' to continue with the installation process. Click 'Cancel' to cancel the installation process and redirect to RED. 	
OK Cancel	

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. "Reset Extended Properties" is deselected by default.

Target Connection	-		\times
Select the target connection to	configure		
			•
Select suitable boxes to install	selected	options	
Options Configuration			
✓ Deployment Applications			
Python Libraries			
✓ Powershell Modules			
Reset Extended Properties			
0	К	Can	cel

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_Snowflake_	^
Auto Execute	
Data Type Mappings	
Database Function Sets	
Deployment Applications	
Docker	
Extended Properties	
FieldSolutions	
< >	, Ť
Make New Folder OK Cance	

Select the template set for installation either Python or PowerShell.

2	Select Template Set	-	×
	Select a template set to install:		
	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.



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 Details					
Enter Details For D	ata Warehouse				
User ID	[
Password	[
Connection String	DSN=\$DSN\$;UID=\$USER\$;PW	/D=\$PASS	WORD\$;	^ _	
DSN				•	
	ок				

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

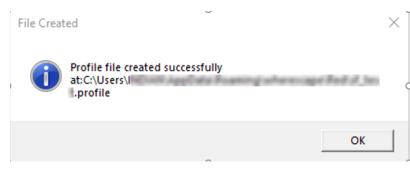
Press OK

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

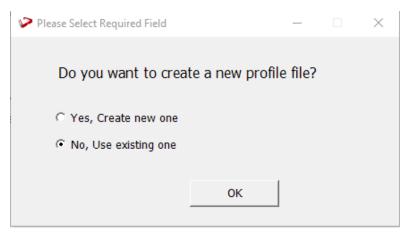
🎾 Profile File Name	_	\times
Please enter the profile f	ile name:	
	ОК	

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
			 •
	ОК		//

Press OK.

The progress bar will show the post installation progress.

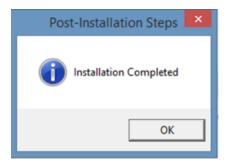
	Post-Installation Steps	- 🗆 🗙			
Enablement Pack Setup	25%				
Setting extended properties and windows connection					

User will have to choose the schema for the target setting that were provided. Three of such pop up will come for setting default target schema for Date Dimension, File Formats and Jobs.

🏈 Select Target Name	—		\times
Please select target name	to install	Date Dime	ension:
1			•
(ОК	Cancel	

🏈 Select Target Name	—		\times
Please select target name to	install F	ile Format	5:
			-
ОК	:	Cancel	
Select Target Name	-		×
Select Target Name Please select target name to			×
			×

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	<u>▼</u> ₽×	Objec	t Results				
🗸 🗂 All Obj	ects						
> 🔳 Cor	nnection						
🏭 Loa	ad Table						
> 🔀 Sta	ge Table						
Dat	ta Store						
🔁 Hul	b						
🗞 Lini	k						
🖌 Sate	ellite						
EDV	W 3NF						
> 🖬 Dim	nension						
	nension View						
Fac	t Table	Result	s			- 1	×
	gregate	Obj	ect		Message		1
[+] View	w			nost	and inserted into test sf [test sf] (64b	it)	
🕂 Ret	o	-	-		601 Success deployment:deploy	Application Deployment Complete	
Exp	port	0	_	·			
> to Pro	cedure	0	-		602 Success deployment:deploy	Application Deployment Complete	
> <u>5</u> Hos	st Script	0			603 Success deployment:deploy	Application Deployment Complete	
> 🔳 Ten	nplate	0	– wsl_	post	700 Success Execute-SQL-Block	{Execute SQL Queries from ODBC connection to: test_sf}	
Lind	ex	0	_ wsl_	post			
> 🗇 Cus	stom1	0	_ wsl_	post			
E Cus	stom2	0	_ wsl_	post	Installer log saved to file: C:\Users\IN	DIAN\AppData\Local\Temp\WsEnablementPackInstall_0820072107.log	1
> 💼 Job	s	0	wsl_	post	Post installation steps are completed	. Please restart RED once to continue	1
> (x) Par	ameters			0			×
Ready		Res	sults 🔳	ј керо		Middle Pane: Object Results Development (test st) 1	

User will need to refresh the All Objects tree once.

evelopment	- 1 ×
/ 🗂 All Objects	
> Connection	
Load Table	
> 📴 Stage Table	
Data Store	
Hub	
Contraction Link	
Satellite	
EDW 3NF	
> Dimension	
Dimension View	
📲 Fact Table	
S Aggregate	
+ View	
- Retro	
Export	
> to Procedure	
> 🛅 Host Script	
> 🔳 Template	
Lindex	
> 🗊 Custom1	
E Custom2	
> 💼 Jobs	
> (x) Parameters	

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

Properties	Name:	wsl_post_install_enabl	wsl_post_install_enablement_pack Type: Auto Execute - Po							
Notes	Purpose:	This script was inserted	d by WhereScape RED CLI							
	Owner:	WhereScape RED CLI		Delete Lo	ck					
	Last Update By:									
	Connection Name:			~						
	Edit Lock									
	Locked For Edit By:									
	Edit Lock Reason or Last Update:	New Script			~					
	Timestamps									
	Created		Last Update:	Compiled:						
	05-MA1	-2023 13:23:43	04-MAY-2023 13:23:43							

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. Important Upgrade Notes

A change to the script exit code has been introduced. Whenever a load/update script is regenerated, it is essential to regenerate the linked action script. Similarly, regenerating the action scripts requires regenerating the associated load/update scripts to keep both scripts in sync.

Post Install Steps – Optional

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

Configure Connections

There were Three connections added that will optionally require your attention:

- Connection: Data Warehouse ('Snowflake')- 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 SNOWSQL_ACCOUNT, SNOWSQL_DATABASE and SNOWS QL WAREHOUSE
 - QL_WAREHOUSE
- 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 'View->Toolbars->Script Launcher'

Source Enablement Pack Support

Source Pack Name	Supported By Snowflake	Supported Features	Prerequisites
Amazon S3	Yes	Bulk load to Snowflake	For PowerShell Load : Install-Module -Name AWSPowerShell
Azure Data Lake Storage Gen2	Yes	Bulk load to Snowflake	Generate and add SAS token to Azure Data Lake Storage Gen2 connection properties: https://docs.snowflake.com/en/user-guide/data-load-azure-config. html#option-2-generating-a-sas-token

Google Cloud Storage	Yes	Bulk load to Snowflake	1. Create Storage Integration (Snowflake)
otorago			CREATE OR REPLACE STORAGE
			INTEGRATION <storage_integration_name></storage_integration_name>
			TYPE = EXTERNAL_STAGE STORAGE PROVIDER = GCS
			ENABLED = TRUE
			STORAGE_ALLOWED_LOCATIONS = (` <bucket_path>');</bucket_path>
			2. Create Staging Area (Snowflake)
			USE DATABASE <database_name>;</database_name>
			CREATE OR REPLACE STAGE <stage_name> url = `<bucket path="">'</bucket></stage_name>
			storage_integration = <storage_integration_name></storage_integration_name>
			3. Get Storage Integration Desc (Snowflake)
			DESC STORAGE INTEGRATION <storage_integration_name></storage_integration_name>
			4. Copy STORAGE_GCP_SERVICE_ACCOUNT and create IAM on Google Cloud Console with following permissions
			storage.buckets.get
			storage.objects.createstorage.objects.delete
			storage.objects.get
			storage.objects.list
			5. Add extended properties to Google Cloud Storage Connection in RED
			GCS_STORAGE_INTEGRATIONGCS_STAGE_AREA_NAME
			6. Please refer the official link for steps to download gsutil: https://cloud.google.com/storage/docs/gsutil_install
Google Drive	Yes	Downloads file From Google Drive and uploads to Snowflake Table	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

8	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.

AWS PrivateLink Documentation

Please refer to the link below for the configuration of AWS PrivateLink for Snowflake:

https://community.snowflake.com/s/article/Setup-On-Premise-DNS-to-work-in-conjunction-with-AWS-PrivateLink