

Metalogix[®] StoragePoint 6.0.

IBM Tivoli Adapter Guide

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Legend

- CAUTION: A caution icon indicates potential damage to hardware or loss of data if instructions are not followed.
- IMPORTANT, NOTE, TIP, MOBILE OR VIDEO: An information icon indicates supporting information.

Metalogix[®] StoragePoint Updated October 2021

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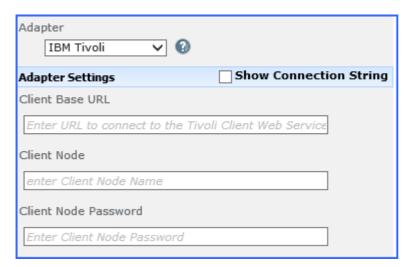
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Tivoli Adapter Configuration

This section will provide you details on how to configure a storage endpoint's connection string to utilize the IBMTivoli Adapter. Please refer to the StoragePoint Reference Guide for information on managing Storage Endpoints.

On the ApplicationManagement page, click Storage and Backup Endpoints.

Click Create New Endpoint or click the name of an existing storage endpoint that you want to edit.

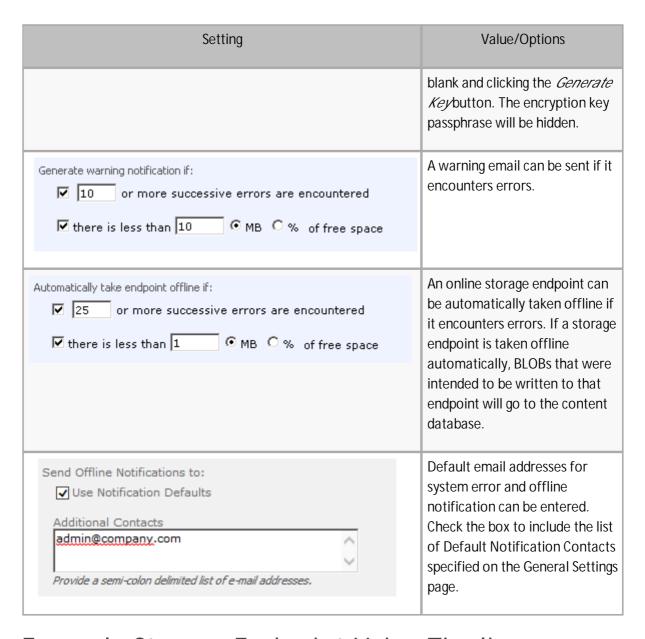


Tivoli Connection String Parameters

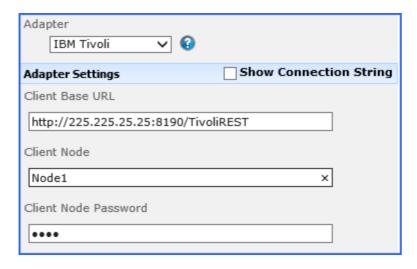
	Setting	Value/Options	
Name		Enter the unique name of the Storage or Backup Endpoint.	
Type Type Primary © Backup		Primary – this endpoint will be available for externalization when creating storage profiles.	
See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.		Backup – this endpoint will be in the Backup Services dropdown on the profile page. The selection is locked down	
		when saving.	

Setting	Value/Options
Status Online	Online – Storage Endpoint should be available to associate to a Storage Profile and accept BLOBs. (default) Offline (Read Only) – A storage endpoint can be configured, but not made available for externalizing content. The BLOBs already on the endpoint are still read only.
Adapter [IBM Tivoli 🗸	Select the adapter for the endpoint that is being created.
Client Base URL Enter URL to connect to the Tivoli Client Web Service	IP or DNS name chosen at the time the storage solution was provisioned which represents the Tivoli client access point. The Metalogix Tivoli Client uses port 8190. This port needs to be opened (inbound rule on the client machine) to communicate with SharePoint.
Client Node enter Client Node Name Client Node Password Enter Client Node Password	Enter the connection information for accessing the Tivoli node.
Is WORM Device	If the endpoint is on a WORM (Write Once, Read Many) device, Unused BLOB Cleanup will ignore this endpoint.

Setting	Value/Options
Folder Content in BLOB Store Yes Folder Scheme	No – Externalized content BLOBs are not placed in folders (default).
YYYY/MM/DD/HH/MM 💙	<i>Yes</i> – Externalized content BLOBs are placed in folders.
	If Folder Content in BLOB Store is Yes then you can select a date/time folder scheme from the dropdown.
	YYYY/MM/DD/HH/MM is the default.
Test Storage Settings	The Test Storage Settings button can be used at this point, or after completing the endpoint configuration, to verify that the endpoint is accessible.
Compress Content in BLOB Store No Content is compressed using the GZip/Deflate method.	No – Externalized content BLOBs are not compressed (default).
Encryption Method for Content in BLOB Store None	None – Encryption will not be applied to externalized BLOBs (default).
	AES (128 bit) – 128 bit AES encryption will be applied to externalized BLOBs.
	AES (256 bit) – 256 bit AES encryption will be applied to externalized BLOBs.
Encryption Key Passphrase Generate Key Enter a passphrase to be used to generate a key or leave blank to generate a random key. The pass phrase entered is not saved with the Endpoint.	Enter a passphrase to use when generating the encryption key. Using a passphrase will help you re-create the encryption key if necessary. You can generate a random key by leaving the box



Example Storage Endpoint Using Tivoli



Click the *Show Connection String* checkbox to edit the connection string. Otherwise, fill in the connection fields shown for the adapter selected. Notice that the connection string parameters are name/value pairs separated by semi-colons when editing using the Show Connection String option.



- NOTE: Adapter parameters are not case-sensitive.
- NOTE: You should always use a passphrase when generating encryption keys. The passphrase gives you a means of re-creating keys should they become unrecoverable or corrupt. It is very important to remember or record the passphrase outside of Metalogix StoragePoint. Otherwise, encrypted content could become irretrievable in the event of a database failure.

If you choose to externalize content you should test the storage profile settings by clicking the *Test Storage Settings* button. A message under the button will indicate whether or not the test was successful. If the test fails the message will include the error that was the root cause of the failure.

NOTE: When testing access to an endpoint from within Central Administration, the Identity of the Application Pool hosting the Central Administration Site is the one that is being used for the test. If there are different Identities used for other Web Applications in the Farm then those identities will also need access but cannot be tested from within Central Admin itself. See BLOB Store Security and Metalogix StoragePoint Required Privileges in the Metalogix StoragePoint Reference Guide.

Installing the Metalogix Tivoli Client

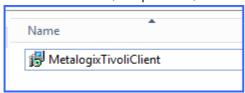
Installing the Metalogix Tivoli Client is critical for communication with the Tivoli node.

- NOTE: There is a minimum version requirement of .NET 4.0 to install the Metalogix Tivoli Client.
- NOTE: If this is an upgrade, the old client must be uninstalled before continuing with the install.

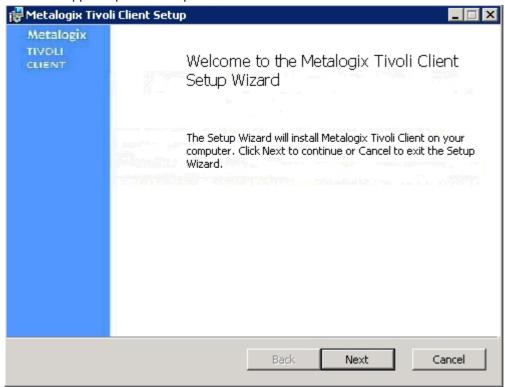
1. Download the Metalogix StoragePoint Tivoli Adapter Client from the Metalogix <u>website</u>, and copy it to the Tivoli Client machine.



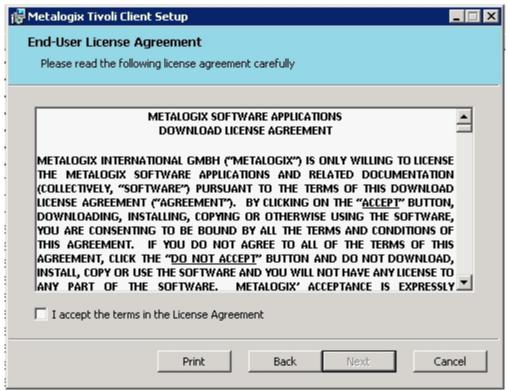
2. On the Tivoli client, unzip the file, and double click the executable.



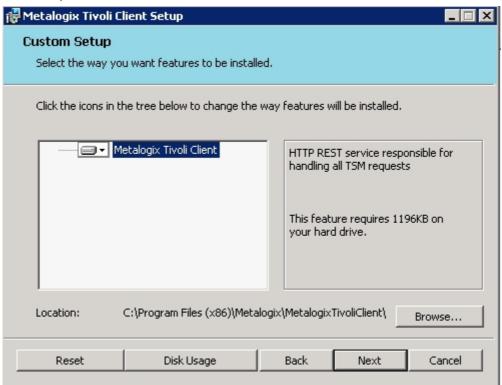
3. When the App Setup window opens, click Next.



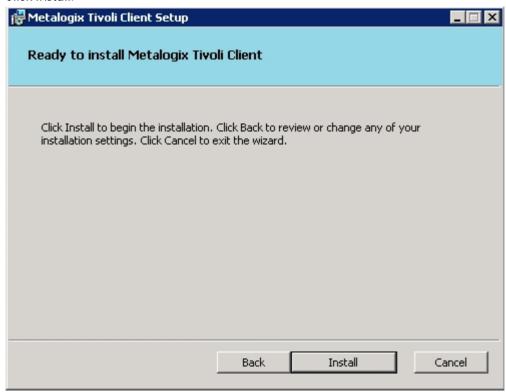
4. Click the checkbox, and click Next.



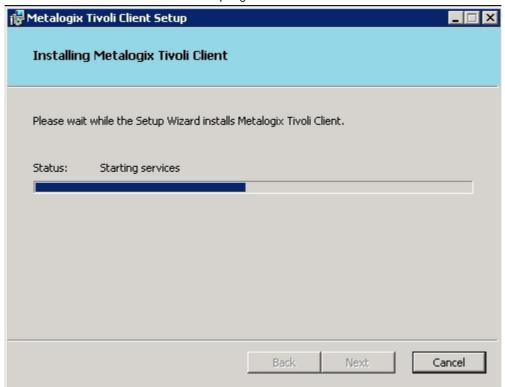
5. Click Next, or browse to a different location to install the service.



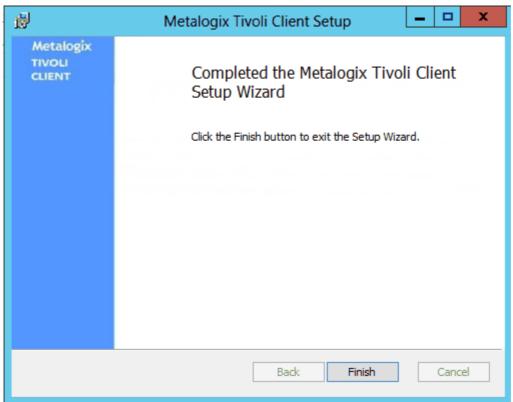
6. Click Install.



7. The window will refresh to show the progress.



8. Click Finish.



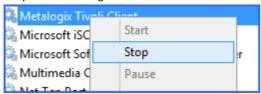
Confirmation

Open the services admin tool and make sure Metalogix Tivoli Client is running.

Local Session Ivianager	Core windo	Kunning	Automatic
🤐 Metalogix Tivoli Client	HTTP RESTf	Running	Automatic
Microcoft iSCSI Initiator Sonico	Managorin		Manual

Uninstalling the Metalogix Tivoli Client

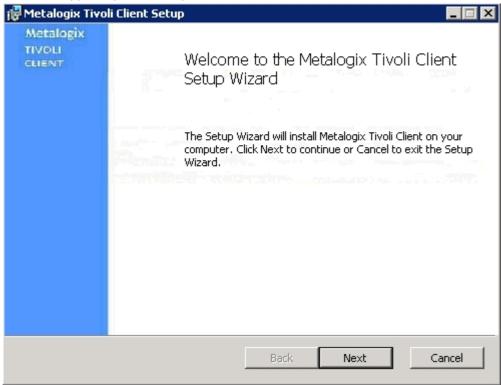
1. Stop the Metalogix Tivoli Client in Services.



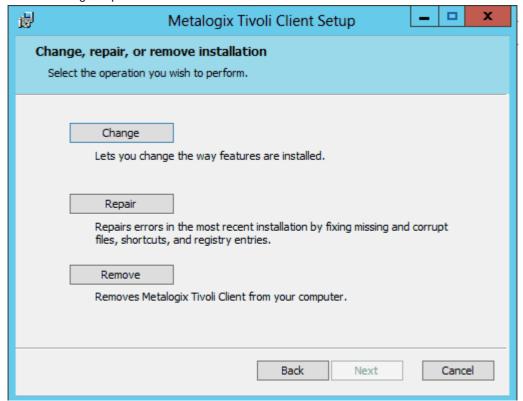
2. Double click the executable.



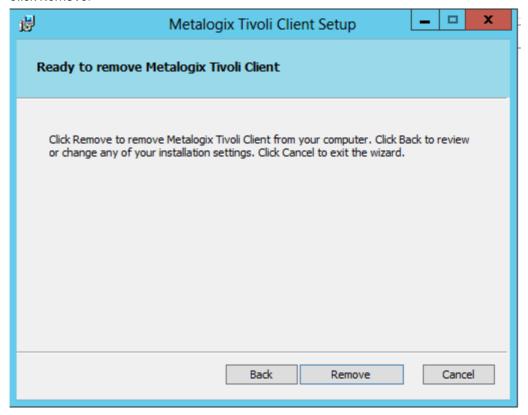
3. When the App Setup window opens, click Next.



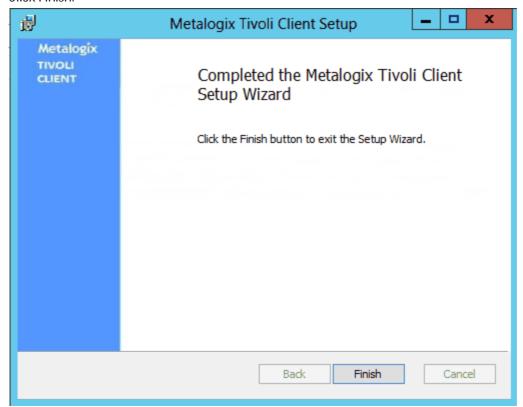
4. On the Change, repair or remove window, click Remove.



5. Click Remove.



6. Click Finish.



Appendix: Troubleshooting

Problem: Receiving errors on storage or retrieval of externalized content.

Wherever possible, StoragePoint surfaces error messages returned by the adapter either directly to the user or within the SharePoint ULS logs. You should refer to your storage platform/provider documentation for resolution to errors logged by the adapter.

Check to see that the TSM instance does not have Archive Data Retention Protection enabled. This will prevent the deletion of data on Tivoli, until the expiration date is reached. For more information please see this <u>link</u>.

Problem: Content won't migrate betwen nodes.

If multiple Nodes are configured on the Tivoli Server Manager, Administrator privileges need to be shared among nodes.

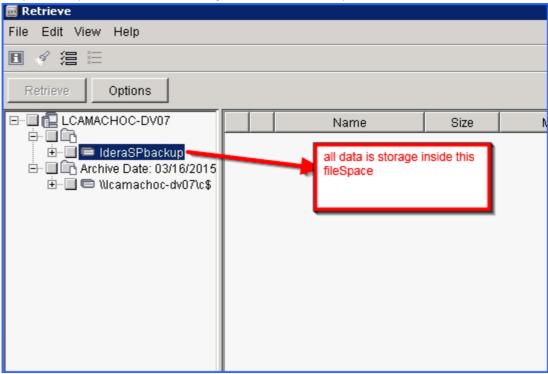
For more information and instructions, please see the following <u>link</u>.

Tips for Configuring Tivoli

If the Tivoli license has expired, there may be errors trying to recall or migrate data from the Tivoli endpoint. Renew the license to correct these errors.

Location of Content on Tivoli

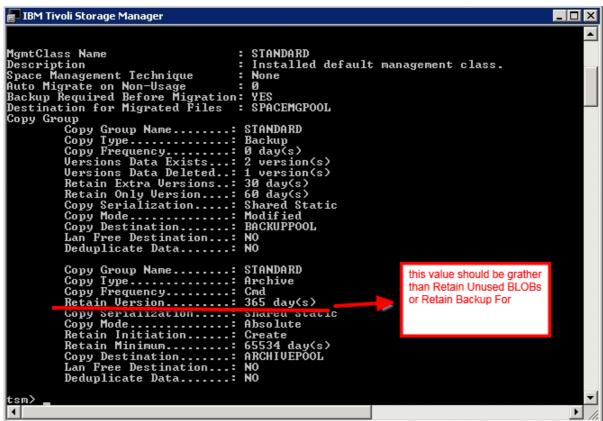
Within the Tivoli user interface, all content that is externalized by StoragePoint using the Tivoli endpoint adapter will be in a directory called IderaSPbackup.



Tivoli Management Class

The Retain Version parameter should be greater than the Unused BLOB Retention period set for the profile using the endpoint. See the section on Unused BLOB Retention in the StoragePoint Reference

Guide.



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