

StoragePoint 6.4

# 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.

Quest<sup>®</sup> StoragePoint

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# **Tivoli Adapter Configuration**

NOTE: Support for the IBM Tivoli Adapter will be deprecated from StoragePoint 6.4. The adapter will then be removed from the next StoragePoint release.

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 Application Management page, click Storage and Backup Endpoints.

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

Adapter IBM Tivoli 🗸 🕜			
Adapter Settings Show Connection Stri	ng		
Client Base URL			
Enter URL to connect to the Tivoli Client Web Service			
Client Node			
enter Client Node Name			
Client Node Password			
Enter Client Node Password			

### **Tivoli Connection String Parameters**

Setting Value/Options

Name

Enter the unique name of the Storage or Backup Endpoint.

Туре

Туре

O Primary O Backup

*Primary* – this endpoint will be available for externalization when creating storage profiles.

Setting Value/Options
<i>Backup</i> – this endpoint will be in the Backup Services dropdown on the profile page.
The selection is locked down when saving.
See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.
Status
Status Online
<i>Online</i> – Storage Endpoint should be available to associate to a Storage Profile and accept BLOBs. (default)
<i>Offline (Read Only)</i> – 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 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

#### Setting Value/Options

ignore this endpoint.

Folder Content in BLOB Store

Yes 🗸

Folder Scheme

YYYY/MM/DD/HH/MM ~

*No*–Externalized content BLOBs are not placed in folders (default).

*Yes*-Externalized content BLOBs are placed in folders.

If Folder Content in BLOB Store is Vesthen 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 blank and clicking the *Generate Key* button. The encryption key passphrase will be hidden.

Setting Value/Options
Generate warning notification if: ▼ 10 or more successive errors are encountered ▼ there is less than 10 ● MB ○ % of free space A warning email can be sent if it encounters errors.
Automatically take endpoint offline if:         ☑ 25 or more successive errors are encountered         ☑ there is less than 1       • MB • % of free space         An online storage endpoint can be automatically taken offline if it encounters errors. If a storage endpoint is taken offline automatically, BLOBs that were intended to be written to that endpoint will go to the content database.
Send Offline Notifications to: Use Notification Defaults Additional Contacts admin@company.com Provide a semi-colon delimited list of e-mail addresses. Default email addresses for system error and offline notification can be entered. Check the box to include the list of Default Notification Contacts specified on the General Settings page.

# Example Storage Endpoint Using Tivoli

Adapter IBM Tivoli 🗸 🚱			
Adapter Settings	Show Connection String		
Client Base URL			
http://225.225.25.25:8190/TivoliREST			
Client Node			
Node1	×		
Client Node Password			
••••			

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.

Adapter IBM Tivoli 🗸 🕜	
Adapter Settings 🛛 🗸 Show Connec	tion String
Connection	
URI=http://225.225.25.25:8190/TivoliREST;CLIE NTNODE=Node1;PASSWORD=****	Ŷ
Provide adapter-specific connection attributes. Please references documentation for connection string details.	r to the adapter

- NOTE: Adapter parameters are not case-sensitive.
- i 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 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.

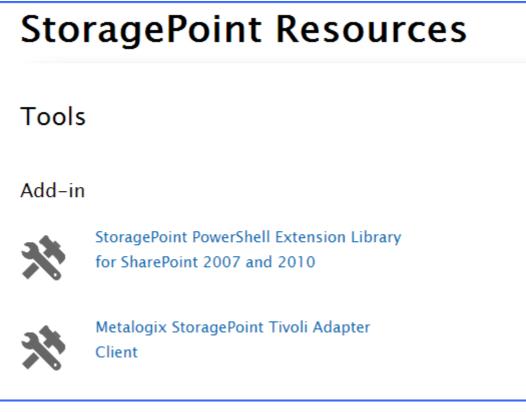
NOTE: When testing access to an endpoint from within Central Administration, the Identity of the Application Pool hosting the Central Administration Site is the one that is being used for the test. If there are different Identities used for other Web Applications in the Farm then those identities will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

### Installing the Tivoli Client

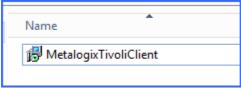
Installing the Tivoli Client is critical for communication with the Tivoli node.

NOTE: There is a minimum version requirement of .NET 4.8 to install the Tivoli Client.

- NOTE: If this is an upgrade, the old client must be uninstalled before continuing with the install.
- 1. Download the StoragePoint Tivoli Adapter Client from this <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.

🙀 Metalogix Tivo	li Client Setup 📃 🖂 🖂
Metalogix TIVOLI CLIENT	Welcome to the Metalogix Tivoli Client Setup Wizard
	The Setup Wizard will install Metalogix Tivoli Client on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel

4. Click the checkbox, and click Next.

🖶 Metalogix Tivoli Client Setup	_ 🗆 🗙
End-User License Agreement	
Please read the following license agreement carefully	
METALOGIX SOFTWARE APPLICATIONS DOWNLOAD LICENSE AGREEMENT	-
METALOGIX INTERNATIONAL GMBH ("METALOGIX") IS ONLY WILLING TO LICENSI THE METALOGIX SOFTWARE APPLICATIONS AND RELATED DOCUMENTATION (COLLECTIVELY, "SOFTWARE") PURSUANT TO THE TERMS OF THIS DOWNLOAD LICENSE AGREEMENT ("AGREEMENT"). BY CLICKING ON THE "ACCEPT" BUTTON DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING THE SOFTWARE YOU ARE CONSENTING TO BE BOUND BY ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, CLICK THE "DO NOT ACCEPT" BUTTON AND DO NOT DOWNLOAD INSTALL, COPY OR USE THE SOFTWARE AND YOU WILL NOT HAVE ANY LICENSE TO ANY PART OF THE SOFTWARE. METALOGIX" ACCEPTANCE IS EXPRESSI-	N ) ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Print Back Next Car	ncel

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

🙀 Metalogix Tivoli C	lient Setup				
Custom Setup Select the way yo	u want features to be instal	led.			
Click the icons in t	he tree below to change the	way	features w	vill be installed.	
······	letalogix Tivoli Client			5T service resp all TSM request	
			This feat your hard	ure requires 11 d drive.	96KB on
Location:	C:\Program Files (x86)\Meta	alogix'i	,Metalogix'	TivoliClient\	Browse
Reset	Disk Usage		Back	Next	Cancel

6. Click Install.

🚏 Metalogix Tivoli Client Setup	_ 🗆 🗙
Ready to install Metalogix Tivoli Client	
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.	
Back Install	Cancel

7. The window will refresh to show the progress.

🚰 Metalogix Tivoli Client Setup		
Installing Metalogix Tivoli Client		
Please wait while the Setup Wizard installs M	4etalogix Tivoli Client.	
Status: Starting services		
	Back Next	Cancel

8. Click Finish.

谩	Metalogix Tivoli Client Setup 📃 🗖 🗙
Metalogix TIVOLI CLIENT	Completed the Metalogix Tivoli Client Setup Wizard
	Click the Finish button to exit the Setup Wizard.
	Back Finish Cancel

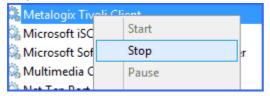
#### Confirmation

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

Micoral Session Manager	Core windo	Kunning	Automatic
🔍 Metalogix Tivoli Client	HTTP RESTf	Running	Automatic
Microsoft iSCSI Initiator Sonvice	Managoria		Manual

# Uninstalling the Tivoli Client

1. Stop the Tivoli Client in Services.



2. Double click the executable.

Name	•
🛃 InstallerRESTAP	P

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

🚏 Metalogix Tivoli Client Setup 📃 🗔 🗙				
Metalogix TIVOLI CLIENT	Welcome to the Metalogix Tivoli Client Setup Wizard			
	The Setup Wizard will install Metalogix Tivoli Client on your computer. Click Next to continue or Cancel to exit the Setup Wizard.			
	Back Next Cancel			

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

閿	Metalogix Tivoli Client Setup 📃 🗕 🗖 🗙		
Change, repair, or remove installation Select the operation you wish to perform.			
	Change Lets you change the way features are installed. Repair Repairs errors in the most recent installation by fixing missing and corrupt files, shortcuts, and registry entries.		
Removes Metalogix Tivoli Client from your computer.			
	Back Next Cancel		

5. Click Remove.

閿	Metalogix Tivoli Client Setup 📃 🗕 🗖 🗙		
Ready to re	emove Metalogix Tivoli Client		
Click Remove to remove Metalogix Tivoli Client from your computer. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.			
	Back Remove Cancel		

#### 6. Click Finish.

<b>i</b> ₿	Metalogix Tivoli Client Setup 📃 🗖 🗙			
Metalogíx TIVOLI CLIENT	Completed the Metalogix Tivoli Client Setup Wizard			
	Click the Finish button to exit the Setup Wizard.			
	Back Finish Cancel			

### 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 link.

# 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

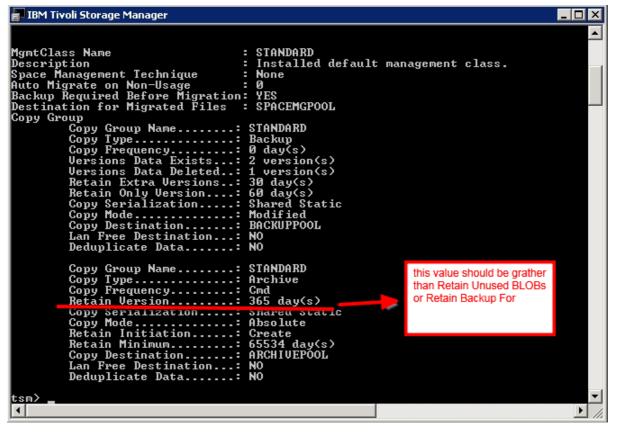
Within the Tivoli user interface, all content that is externalized by StoragePoint using the Tivoli endpoint adapter will be in a directory called IderaSPbackup.

🧰 Retrieve			
File Edit View Help			
■ < /// / / / / / / / / / / / / / / / /			
Retrieve Options			
E- CAMACHOC-DV07	Name	Size	N N
IderaSPbackup IderaSPbackup Archive Date: 03/16/2015 Image: Construction of the second se	all data is storage i fileSpace	nside this	

### 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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- Download software and technical documentation
- View how-to-videos
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- Chat with support engineers online
- View services to assist you with your product