

Metalogix® StoragePoint 5.8

## Azure Adapter Guide



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# Azure Adapter Configuration


This section will provide you details on how to configure a storage endpoint's connection string to utilize the Azure 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 Endpoint* or click the name of an existing storage endpoint that you want to edit.

Click the *Show* link next to the Advanced Adapter Settings to see the additional fields.

Adapter

Azure  

Adapter Settings  Show Connection String

Use SSL

Yes

Account Name

Container

Key

**Advanced Adapter Settings** *(Hide)*

Retry Policy

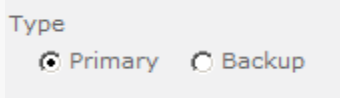
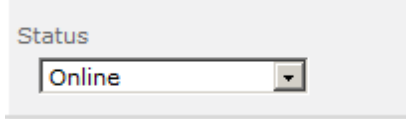
N




Strict SSL

No

Time Out Duration (in seconds)

# Azure Adapter Connection String Parameters

Setting	Value/Options
<p>Name</p>	<p>Enter the unique name of the Storage or Backup Endpoint.</p>
<p>Type</p>  <p>See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.</p>	<p><i>Primary</i>– this endpoint will be available for externalization when creating storage profiles.</p> <p><i>Backup</i>– this endpoint will be in the Backup Services dropdown on the profile page.</p> <p>The selection is locked down when saving.</p>
<p>Status</p> 	<p><i>Online</i>– Storage Endpoint should be available to associate to a Storage Profile and accept BLOBs. (default)</p> <p><i>Offline (Read Only)</i>– A storage endpoint can be configured, but not made available for externalizing</p>

Setting	Value/Options
	content. The BLOBs already on the endpoint are still read only.
<p>Adapter</p> <p>Azure  </p>	Select the adapter for the endpoint that is being created.
<p>Use SSL</p> <p>Yes </p>	<i>(yes/no)</i> – Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. Default = No.
<p>Account Name</p> <p>enter an account name</p>	This is the name you gave your application in the Azure web UI.
<p>Container</p> <p>enter an account container</p>	This is the top level container name in which the profile blobs are stored in Azure. It must be lower case and may NOT include the underscore character. This container will be created by the adapter automatically. You may create a

Setting	Value/Options
	different name for each profile.
<p>Key</p> <input data-bbox="248 454 874 499" type="text" value="enter an account key"/>	This is the Primary or Secondary storage key of your storage application in the Azure Web UI
<p><b>Advanced Adapter Settings</b> <i>(hide)</i></p> <p>Retry Policy</p> <input data-bbox="237 869 432 904" type="text" value="N"/> <input data-bbox="400 869 432 904" type="button" value="v"/> <input data-bbox="443 869 557 904" type="text" value="2"/>	<p>None – no retries.</p> <p>N,{max} – where {max} is the number of times you want it to retry the operation. N,2 is the default value if this parameter is not supplied.</p> <p>ExponentialN, {max} – the same as N,{max} except the delays between retries will become exponentially larger.</p>
<p>Strict SSL</p> <input data-bbox="256 1783 347 1823" type="text" value="No"/> <input data-bbox="312 1783 347 1823" type="button" value="v"/>	(Yes/No) If UseSSL is Yes, the StrictSSL flag controls whether or not the use of "self-issued" or

Setting	Value/Options
	<p>otherwise suspicious certificates on the Azure system will be tolerated. Note that the default certificate out of the box with Azure is self-issued and will not work unless this flag is set to No (default).</p>
<p>Time Out Duration (in seconds)</p> <input data-bbox="240 954 451 994" type="text" value="300"/>	<p>The amount of seconds to wait for operations to complete before forcing a timeout. Default = 300.</p>
<p>Is WORM Device</p> <input data-bbox="288 1330 392 1370" type="text" value="No"/>	<p>If the endpoint is on a WORM (Write Once, Read Many) device, Unused BLOB Cleanup will ignore this endpoint.</p>
<p>Folder Content in BLOB Store</p> <input data-bbox="233 1675 323 1715" type="text" value="Yes"/> <p>Folder Scheme</p> <input data-bbox="233 1765 563 1805" type="text" value="YYYY/MM/DD/HH/MM"/>	<p><i>No</i>– Externalized content BLOBs are not placed in folders.</p> <p><i>Yes</i>– Externalized content BLOBs</p>




Setting	Value/Options
	<p>are placed in folders (default).</p> <p>If <i>Folder Content in BLOB Store</i> is <i>Yes</i> then you can select a date/time folder scheme from the dropdown.</p> <p>YYYY/MM/DD/HH/MM is the default.</p>
<div data-bbox="245 887 536 927" style="border: 1px solid black; padding: 2px; display: inline-block;">Test Storage Settings</div>	<p>The Test Storage Settings button can be used at this point, or after completing the endpoint configuration, to verify that the endpoint is accessible. For some adapters, testing the connection will create the container if it doesn't already exist.</p>
<p>Compress Content in BLOB Store</p> <div data-bbox="233 1666 320 1697" style="border: 1px solid black; padding: 2px; display: inline-block;">No ▾</div> <p><i>Content is compressed using the GZip/Deflate method.</i></p>	<p><i>No</i>– Externalized content BLOBs are not compressed (default).</p> <p><i>Yes</i>– Externalized</p>

Setting	Value/Options
	content BLOBs are compressed.
<p data-bbox="213 416 651 443">Encryption Method for Content in BLOB Store</p> <div data-bbox="236 448 440 483"> <input type="text" value="None"/> </div>	<p data-bbox="1182 403 1390 600"><i>None</i>– Encryption will not be applied to externalized BLOBs (default).</p> <p data-bbox="1182 636 1362 875"><i>AES (128 bit)</i>– 128 bit AES encryption will be applied to externalized BLOBs.</p> <p data-bbox="1182 911 1362 1151"><i>AES (256 bit)</i>– 256 bit AES encryption will be applied to externalized BLOBs.</p>
<p data-bbox="213 1220 478 1247">Encryption Key Passphrase</p> <div data-bbox="236 1254 766 1290"> <input type="text"/> <input type="button" value="Generate Key"/> </div> <p data-bbox="236 1294 823 1370"><i>Enter a passphrase to be used to generate a key or leave blank to generate a random key. The pass phrase entered is <b>not</b> saved with the Endpoint.</i></p>	<p data-bbox="1182 1214 1390 1951">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 <i>Generate Key</i> button. The</p>

Setting	Value/Options
	encryption key passphrase will be hidden.
<p>Generate warning notification if:</p> <p><input checked="" type="checkbox"/> <input type="text" value="10"/> or more successive errors are encountered</p> <p><input checked="" type="checkbox"/> there is less than <input type="text" value="10"/> <input checked="" type="radio"/> MB <input type="radio"/> % of free space</p>	A warning email can be sent if it encounters errors.
<p>Automatically take endpoint offline if:</p> <p><input checked="" type="checkbox"/> <input type="text" value="25"/> or more successive errors are encountered</p> <p><input checked="" type="checkbox"/> there is less than <input type="text" value="1"/> <input checked="" type="radio"/> MB <input type="radio"/> % of free space</p>	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.
<p>Send Offline Notifications to:</p> <p><input checked="" type="checkbox"/> Use Notification Defaults</p> <p>Additional Contacts</p> <p><input type="text" value="admin@company.com"/></p> <p><i>Provide a semi-colon delimited list of e-mail addresses.</i></p>	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 Azure Adapter

**Adapter**  
Azure  

**Adapter Settings**  Show Connection String

**Use SSL**  
Yes

**Account Name**

**Container**

**Key**

**Advanced Adapter Settings** *(Hide)*

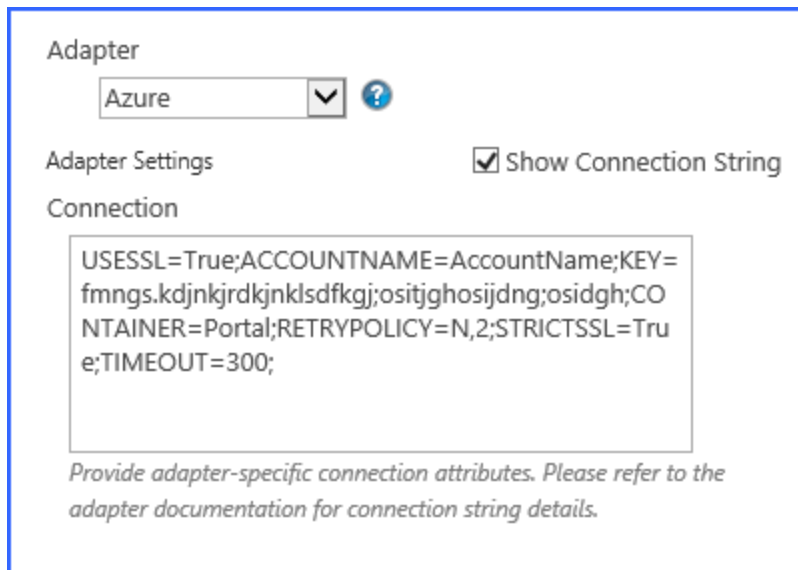
**Retry Policy**  
N

**Strict SSL**  
Yes

**Time Out Duration (in seconds)**

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.



The screenshot shows a configuration window for the Azure adapter. At the top, the 'Adapter' dropdown is set to 'Azure'. Below it, the 'Adapter Settings' section has a checked checkbox for 'Show Connection String'. The 'Connection' field contains the following connection string: `USESSL=True;ACCOUNTNAME=AccountName;KEY=fmngs.kdjnkjrdkjklsdfkgj;ositjghosijdng;osidgh;CONTAINER=Portal;RETRYPOLICY=N,2;STRICTSSL=True;TIMEOUT=300;`. Below the text area is a note: 'Provide adapter-specific connection attributes. Please refer to the adapter documentation for connection string details.'

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.

## 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.

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