

Metalogix® StoragePoint 6.1.1

## IBM COS 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.

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# IBM COS

This section will provide you details on how to configure a storage endpoint's connection string to utilize the IBM Cloud Object Storage 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  
IBM COS

Adapter Settings  Show Connection String

Access Key

Secret Key

IP/Host Name

Use SSL  
Yes

Vault Name  
  
*(Lowercase letters and "DNS Friendly" naming highly recommended.)*

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

Port

Strict SSL  
No

Provision Code

# IBM COS Adapter Connection String Parameters

Setting Value/Options
<p><b>Name</b> Enter the unique name of the Storage or Backup Endpoint.</p>
<p><b>Type</b></p> <p>Type</p> <p><input checked="" type="radio"/> Primary <input type="radio"/> Backup</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>See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.</p>
<p><b>Status</b></p> <p>Status</p> <p>Online</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 content. The BLOBs already on the endpoint are still read only.</p>
<p><b>Adapter</b></p> <p>IBM COS</p> <p>Select the adapter for the endpoint that is being created.</p>
<p>Adapter Settings <input type="checkbox"/> Show Connection String</p> <p>Access Key</p> <p>enter an account Access Key</p> <p>The Access Key ID provided by IBM when you signed up for the service. Required.</p>

Setting  
Value/Options

Secret Key

enter an account Secret Key

The Secret Access Key provided by IBM when you signed up for the service. Required.

IP/Host Name

specifies explicitly the Host to use

IP or DNS name that represents the access point for the IBM COS service.

Use SSL

Yes

(*Yes/No*) Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. Default = Yes.

Vault Name

enter an account Vault name

(Lowercase letters and "DNS Friendly" naming highly recommended.)

The container within your IBM COS account where content associated with a storage profile will be stored. Vault names are case sensitive and unique across the entire service namespace.

**Advanced Adapter Settings** (Hide)

Port

Enter Port number (optional)

Port used to access the IBM COS service. Default = 80 (443 if UseSSL is True).

Strict SSL

No

(*Yes/No*) If *UseSSL* is *Yes*, the *StrictSSL* flag controls whether or not the use of "self-issued" or otherwise suspicious certificates on the system will be tolerated.

Provision Code

Enter Provision Code to create Vaults (optional)

Allows vaults to be created with specific location constraints.

The provision code determines what features are enabled by way of a template. Please contact your IBM representative to get the latest provisioning codes for your organization.

## Setting Value/Options



Is WORM Device  
**No**

If the endpoint is on a WORM (Write Once, Read Many) device, Unused BLOB Cleanup will 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 *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. For some adapters, testing the connection will create the vault if it doesn't already exist.

### Compress Content in BLOB Store

**No**

*Content is compressed using the GZip/Deflate method.*

*No*– Externalized content BLOBs are not compressed (default).

*Yes*– Externalized content BLOBs are compressed.

### 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.

## Setting Value/Options

### Encryption Key Passphrase

Generate Key

Enter a passphrase to be used to generate a key or leave blank to generate a random key. The passphrase 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.

### Generate warning notification if:

- or more successive errors are encountered  
 there is less than   MB  % of free space

A warning email can be sent if the endpoint encounters errors.

### Automatically take endpoint offline if:

- or more successive errors are encountered  
 there is less than   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 IBM COS Adapter

**Adapter**

IBM COS  

Adapter Settings  Show Connection String

Access Key

odMe56jNLd0oEqfkNDf

Secret Key

.....

IP/Host Name

8.50.19.124

Use SSL

Yes

Vault Name

storagepoint

*(Lowercase letters and "DNS Friendly" naming highly recommended.)*

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

Port

Enter Port number(optional)

Strict SSL

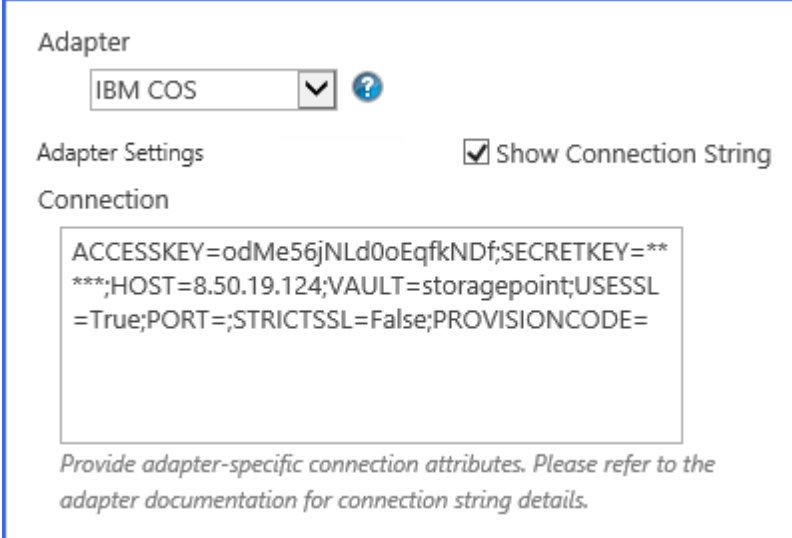
No

Provision Code

|

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.



The screenshot shows a configuration window for an adapter. At the top, there is a dropdown menu labeled 'Adapter' with 'IBM COS' selected and a help icon. Below this is the 'Adapter Settings' section, which includes a checked checkbox for 'Show Connection String'. The 'Connection' field is a text area containing the following sample connection string: `ACCESSKEY=odMe56jNLd0oEqfkNDf;SECRETKEY=***;HOST=8.50.19.124;VAULT=storagepoint;USESSL=True;PORT=;STRICTSSL=False;PROVISIONCODE=`. Below the text area is a note: 'Provide adapter-specific connection attributes. Please refer to the adapter documentation for connection string details.'

**i** | **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 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.

**i** | **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.

## Problem: Receiving errors on testing a storage endpoint

StoragePoint may surface an error message as if the vault name has already been taken. While this is definitely possible, you should also check that the vault name is valid.

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