

Metalogix<sup>®</sup> StoragePoint 6.3

Amazon S3 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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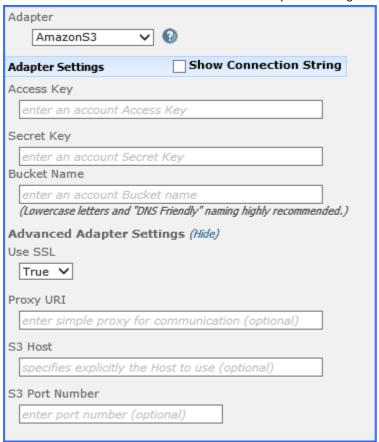
## **Amazon S3 Adapter Configuration**

This section will provide you details on how to configure a storage endpoint's connection string to utilize the S3 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.



# Amazon S3 Adapter Connection String Parameters

Setting Value/Options		
Name		
Enter the unique name of the Storage or Backup Endpoint.		
Туре		
Туре		
Primary		
<i>Primary</i> – this endpoint will be available for externalization when creating storage profiles.		
Backup – 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		
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 AmazonS3  Select the adapter for the endpoint that is being created.		
Access Key		
enter an account Access Key		
The Access Key ID provided by Amazon when you signed up for the S3 service. Required.		

## Setting Value/Options Secret Key enter an account Secret Key The Secret Access Key provided by Amazon when you signed up for the S3 service. Required. **Bucket Name** enter an account Bucket name (Lowercase letters and "DNS Friendly" naming highly recommended.) The container within your S3 account where content associated with a storage profile will be stored. Bucket names are case sensitive and unique across the entire \$3 service namespace. Use SSL No 🗸 (true/false) Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. Default = True. Proxy URI enter simple proxy for communication (optional) Used to take the URL (optionally including a port) of a simple non-authenticating proxy that will be used when communicating with Amazon services. S3 Host specifies explicitly the Host to use (optional) IP or DNS name that represents the access point for the Amazon AWS service. Default = s3.amazonaws.com S3 Port Number enter port number (optional) Port used to access the Amazon S3 service. Default = 80 (443 if UseSSL is True) Strict SSL No 🗸 ( Yes/No) If UseSSLis Yes, the StrictSSLflag controls whether or not the use of "self-issued" or

#### Setting Value/Options

otherwise suspicious certificates on the system will be tolerated.

Region

Enter Region Name.

Used in AWS4 request signing, this is an optional property; change it only if the region cannot be determined from the service endpoint.

For custom or private clouds or where StoragePoint cannot automatically retrieve the region because of security or permission reasons.

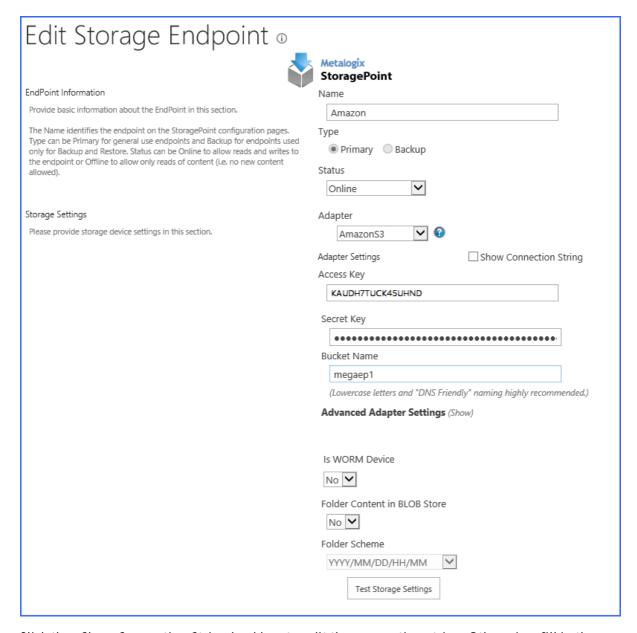
### Setting Value/Options Retention Delete Allowed O Permanent O Indefinite O Date Format: O Duration/Interval: Day(s) If supplied, the Amazon adapter will calculate and supply a retention policy when saving content. This only works if S3 Object Lock is enabled. Possible settings: Delete Allowed No special permissions are required to delete content on this endpoint. Permanent This sets Compliance mode enabled. Indefinite Sets Compliance mode disabled. Content cannot be deleted, but retention can be changed at a later time. **Date Format** This sets a date for the retention policy. Click the calendar icon to select a date, or type it like this example: 08/31/2029 Duration/Interval Type a number in the first box, and select an interval from the dropdown. The interval may be days (D), months (M) or years (Y). NOTE: You can NEVER shorten the retention period once it has been established, unless it was initially set to Indefinite.

Setting Value/Options		
AmazonS3-Specific		
□ Hold		
Putting a Hold prevents an object version from being overwritten or deleted and remains in effect until removed.		
Is WORM Device		
If the endpoint is on a WORM (Write Once, Read Many) device, Unused BLOB Cleanup will ignore this endpoint.		
Folder Content in BLOB Store  No   No		
Folder Scheme		
YYYY/MM/DD/HH/MM		
No-Externalized content BLOBs are not placed in folders (default).		
<i>Yes</i> – Externalized content BLOBs are placed in folders.		
If <i>Folder Content in BLOB Store</i> is <i>Yes</i> 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 bucket if it doesn't already exist.		
Compress Content in BLOB Store		
Content is compressed using the GZip/Deflate method.  No– Externalized content BLOBs are not compressed (default).		
Yes – Externalized content BLOBs are compressed.		

Setting Value/Options		
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.		
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 the endpoint encounters errors.		
Automatically take endpoint offline if:  25 or more successive errors are encountered  there is less than 1		

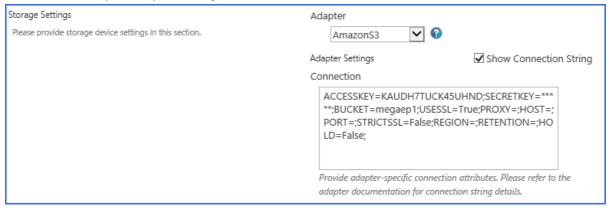
Setting Value/Options	
Send Offline Notifications to:	
☐ Use Notification Defaults	
Additional Contacts	
admin@contoso.com;systems@contoso.com	
Provide a semi-colon delimited list of e-mail addresses.	
Default email addresses for system error and offline notif to include the list of Default Notification Contacts specifie	

## Example Storage Endpoint using Amazon S3 Adapter



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.



- 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.

# Problem: Receiving errors on testing a storage endpoint.

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

Amazon S3 has the following expectations for bucket names:

- 1. The bucket name must start with an alpha or numeric character.
- 2. The bucket name must be between 3 and 63 characters.
- 3. The bucket name must be completely lower case.\*
- 4. Underscore characters are discouraged.

<sup>\*</sup> When the UseSubDomains connection option is set to False, this restriction does not apply.

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