

StoragePoint 6.5

Atmos 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® StoragePoint

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Atmos Adapter Configuration

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

Adapter Settings Show Connection String

UID

Key

Advanced Adapter Settings *(Hide)*

Base URI

Root

Use SSL

Port

Verify Hash

Atmos 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>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>Status</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>Adapter</p> <p>Atmos</p> <p>Select the adapter for the endpoint that is being created.</p>
<p>UID</p> <p>enter an account UID</p> <p>The username to use when connecting to the server. This is equivalent to the Token ID provided with your Atmos online account.</p>

Setting
Value/Options

Key

enter an account Key

The base64 encoded shared secret to use when signing requests to the server.

Advanced Adapter Settings *(Hide)*

Base URI

accesspoint.emccis.com

IP address or host name that represents the Atmos instance or specific node to be used. Default = accesspoint.emccis.com.

Root

enter an account Root value (optional)

The starting folder/container within your Atmos namespace under which all folders and files will be created.

Use SSL

No ▾

Yes/No– Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. See Appendix A for details on adding trust relationship. Default = No.

Port

80

The port on the server to communicate with. Default = 80 (443 if UseSSL is Yes).

Verify Hash

No ▾

Yes/No– Includes a check-sum operation after each blob transfer to detect and log data integrity errors immediately. Default = No.

Is WORM Device

No ▾

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

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*, 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 folder 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.

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-

Setting
Value/Options

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 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 Warning Notifications to:

- Use Notification Defaults

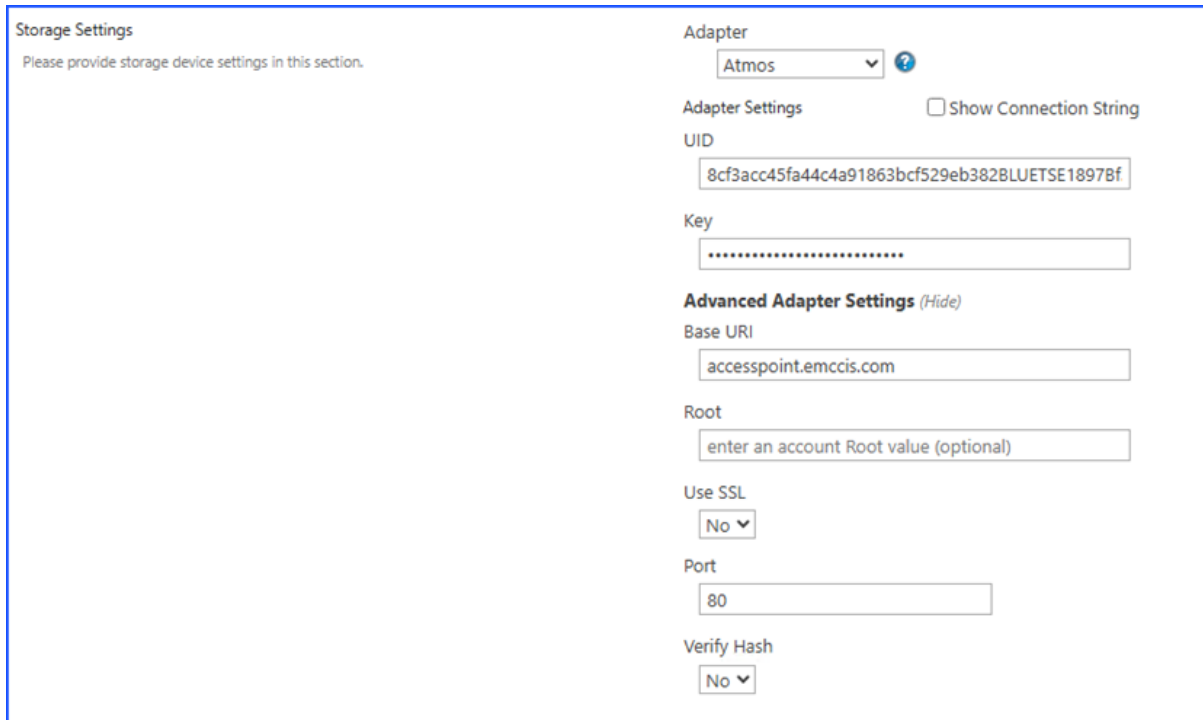
Additional Contacts

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 Atmos Adapter



Storage Settings
Please provide storage device settings in this section.

Adapter: Atmos

Adapter Settings: Show Connection String

UID: 8cf3acc45fa44c4a91863bcf529eb382BLUETSE1897Bf

Key:

Advanced Adapter Settings (Hide)

Base URI: accesspoint.emccis.com

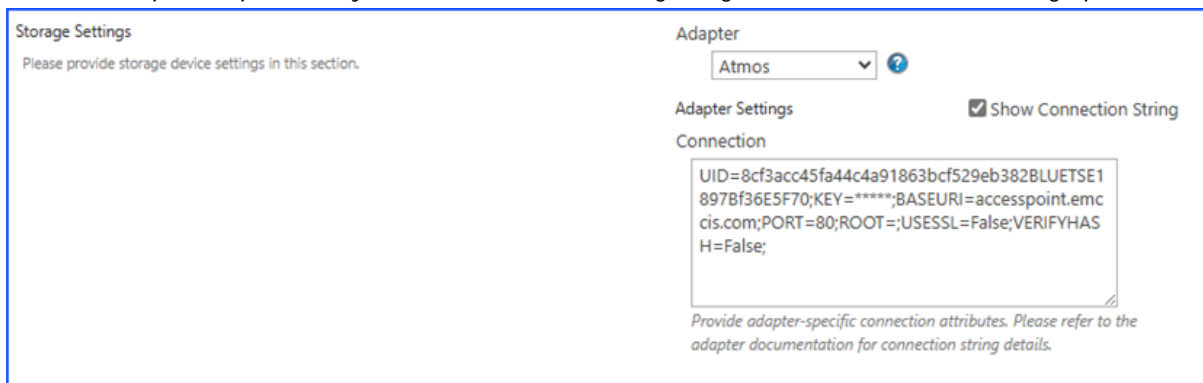
Root: enter an account Root value (optional)

Use SSL: No

Port: 80

Verify Hash: No

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.



Storage Settings
Please provide storage device settings in this section.

Adapter: Atmos

Adapter Settings: Show Connection String

Connection: UID=8cf3acc45fa44c4a91863bcf529eb382BLUETSE1897Bf36E5F70;KEY=*****;BASEURI=accesspoint.emccis.com;PORT=80;ROOT=;;USESSL=False;VERIFYHASH=False;

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 StoragePoint. Otherwise, encrypted content could become irretrievable in the event of a database failure.

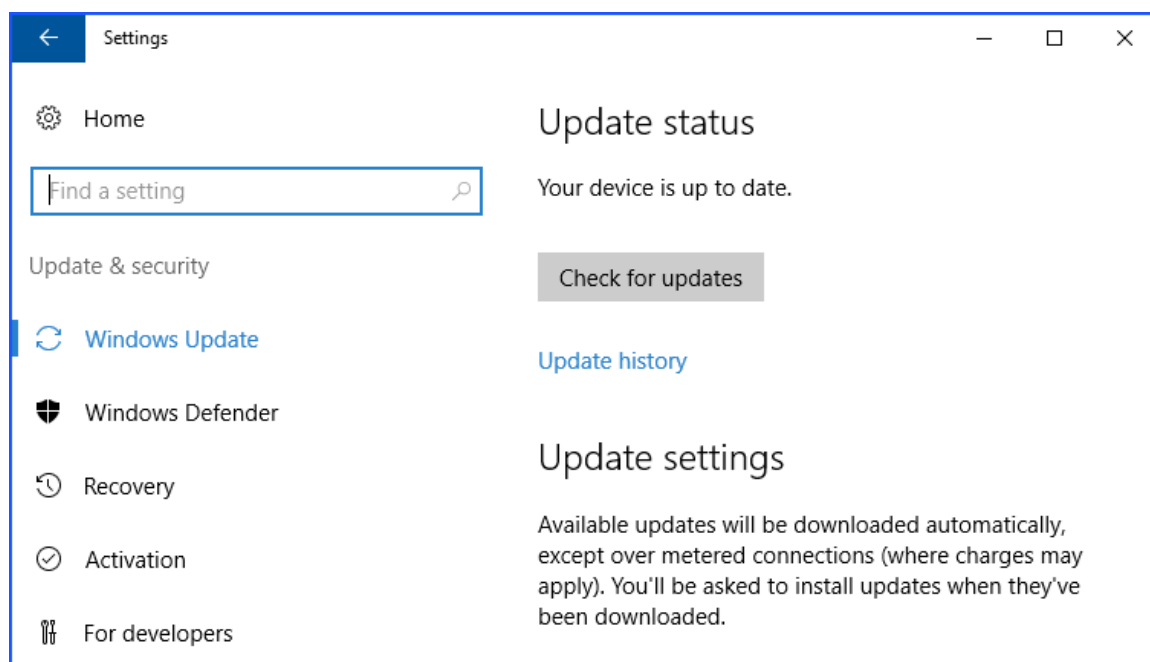
If you choose to externalize content, you should test the storage profile settings by clicking the *Test Storage Settings* button. A message under the button will indicate whether or not the test was successful. If the test fails, the message will include the error that was the root cause of the failure.

- 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, 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.

Appendix: Atmos adapter support for TLS 1.1

The following steps need to be performed on all servers that have StoragePoint installed.

- 1) Verify that your system has the latest Windows updates installed.



- 2) Provide defaults for TLS configuration (in this case TLS 1.1). Add the following registry values (if missing):

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\.NETFramework\v2.0.50727]
"SystemDefaultTlsVersions"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\.NETFramework\v2.0.50727]
"SystemDefaultTlsVersions"=dword:00000001
```

- 3) Verify if TLS 1.1 client is enabled:

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.1\Client]
"Enabled"=dword:00000001
"DisabledByDefault"=dword:00000000
```

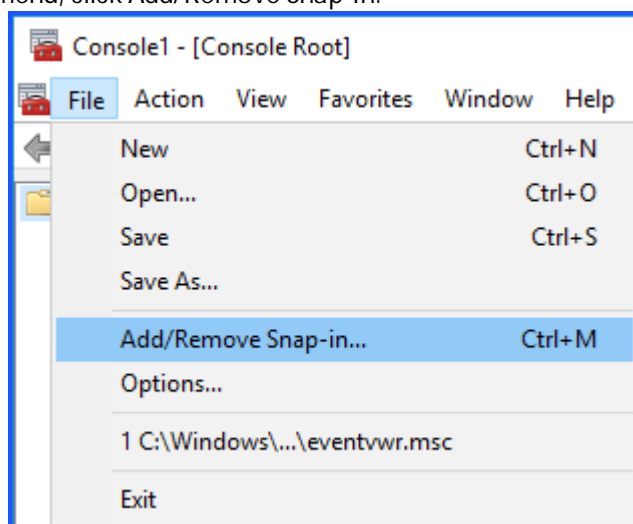
- 4) Complete an IIS reset and SP Timer Service Reset.

- 5) Test on Atmos endpoint web page.
- 6) Run the BLOB Health Analyzer job for requested profile(s).

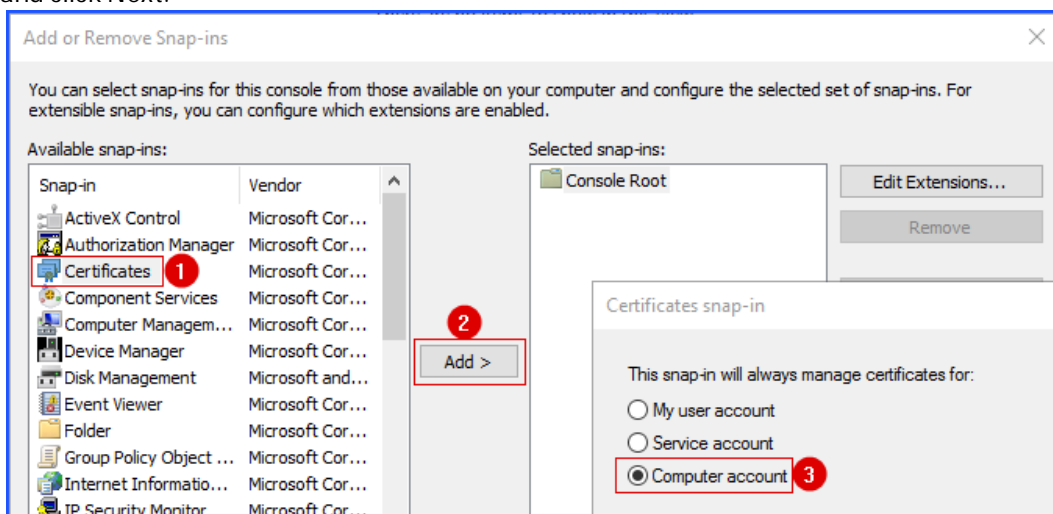
Appendix: Using SSL with EMC Atmos

In order for the StoragePoint EMC Atmos adapter to use SSL to communicate with Atmos, the Atmos instance's certificate must be added to the SharePoint certificate store. The following steps describe how to do this:

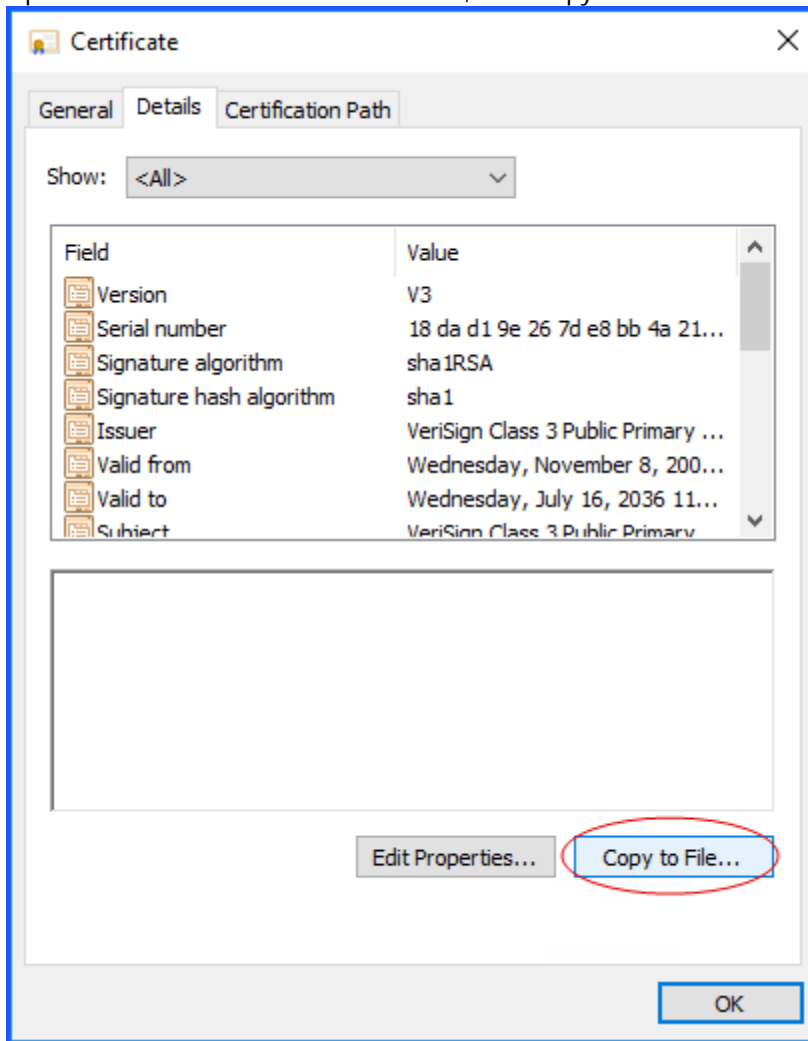
1. Click Start->Run. Enter 'mmc.exe' and press Enter.
2. On the File menu, click Add/Remove Snap-In.



3. Click Certificates on the left, then click Add. A new window opens; select Computer Account and click Next.

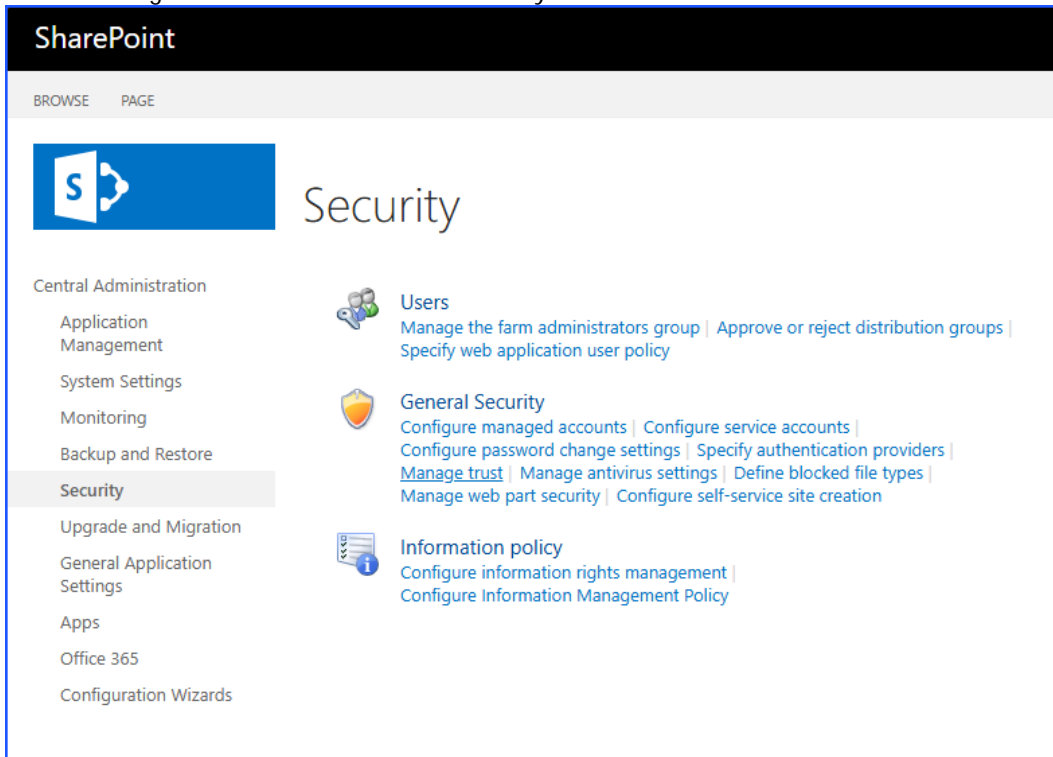


7. Open the certificate. On the Details tab, click Copy To File...



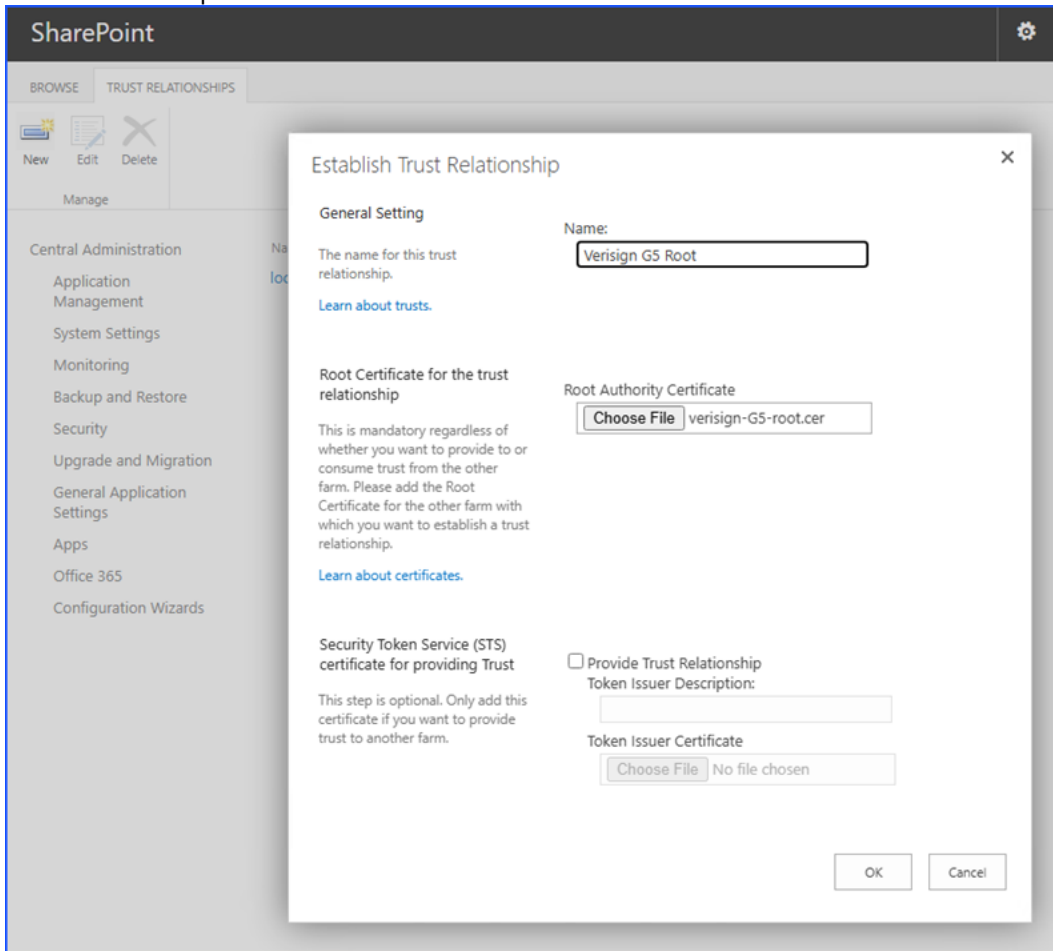
8. The Certificate Export Wizard will open. Click Next. The default "DER" format is fine. Save to the desktop as something like verisign-G5-root.cer. Click Next.
9. Click Finish to complete the export. Click OK on the message. Click OK to close the certificate window.

10. Open the SharePoint Central Administration. Click Security from the navigation on the left. Select Manage Trust from the General Security section.



11. You will probably only see one certificate here, "local". Click "New."

12. Give it a name like Verisign G5 Root. Pick the file you exported to your desktop. Leave "Provide Trust Relationship" blank.



13. Click OK.

The Use SSL option can now be configured and used with the StoragePoint EMC Atmos adapter.

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