



AvePoint High Speed Migration Supplementary Tools

User Guide

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Introduction

To streamline the high speed migration process, AvePoint created the following supplementary tools.

MD5 Value Generator Tool

If performing an offline migration, you can use the Microsoft Azure Import/Export tool to copy the exported data to the physical device that you are going to ship to a Microsoft Azure data center. After you ship the physical device and the data in the device has been uploaded to a Microsoft Azure data center, you may find that the uploaded data in a Microsoft Azure data center may not have MD5 hash values.

Data in a Microsoft Azure data center with incorrect MD5 hash values or without MD5 hash values cannot be copied to SharePoint Online, so you must update these MD5 hash values using AvePoint's MD5 Value Generator tool. This tool should be used before uploading data from Microsoft Azure to SharePoint Online.

The MD5 Value Generator tool:

- Updates all data in a Microsoft Azure data center with new MD5 hash values.
- Keeps any existing MD5 hash values (for example, hash values that were created by a third-party tool) of BLOBs in a Microsoft Azure data center, and creates MD5 hash values for BLOBs that do not have MD5 hash values.

Azure Data Upload Tool

After running a SharePoint High Speed Migration Export job, users have to manually create BLOB containers in a Microsoft Azure data center and upload exported data to the BLOB containers as BLOBs prior to importing them to SharePoint Online. To help with the container creation and upload steps, AvePoint provides the Azure Data Upload tool to automate the container creation process and data upload process. This tool uses Azure APIs, so it can generate unique MD5 hash values for each BLOB in a Microsoft Azure data center.

Downloading and Unpacking the Tool

Refer to the instructions below to download and configure the package:

1. Download the **MD5_Stand_alone_Tool.zip** file by contacting an AvePoint representative for links to this package.
2. Copy the **MD5_Stand_alone_Tool.zip** file to any server with a working network connection.
3. Extract the **MD5_Stand_alone_Tool.zip** file on the server. The **WAImportExportMD5.exe** and **AzureDataUpload.exe** files appear in the extracted folder.

Using the MD5 Value Generator Tool

After SharePoint or file system data is exported by a SharePoint or File System High Speed Migration Export job, you can use the Microsoft Azure Import/Export tool to copy the exported data to the hard drives you are going to ship to Microsoft Azure. After the data in hard drives has been uploaded to Microsoft Azure, the uploaded data in Microsoft Azure may not have MD5 hash values.

Using this tool, you can generate MD5 hash values for the data in Microsoft Azure before copying it to SharePoint Online using a SharePoint or File System High Speed Migration Import job.

***Note:** The user who runs this tool must have at least **Read** and **Write** permissions to the storage location.

***Note:** There is help information on how to use this tool. To view the help, enter `WAImportExportMD5.exe -?`, and then press **Enter** on the keyboard.

```
C:\Users\myzhu\Desktop\MD5StandaloneTool> WAImportExportMD5.exe -?

Usage: WAImportExportFixMD5.exe /sn:StorageAccountName /sk:StorageAccountKey /srcdir:SourceContainerFullPath [/taskcount:AsyncTaskCount] [/overwrite:0 or 1]

/sn:Account Name
/sk:Account Key
/srcdir:Source Folder Path
/taskcount:The number of threads that can be used simultaneously in one job.
/overwrite:The status whether or not to overwrite the existing MD5 value of a blob with the value generated by this tool. 0 means to keep the existing MD5 value of a blob, and 1 means to overwrite the existing MD5 value of a blob with the generated value.
```

Figure 1: The MD5 Value Generator tool usage.

1. On the server where the extracted `WAImportExportMD5.exe` folder resides, right-click **Command Prompt**, and then select **Run as administrator**. The **Administrator: Command Prompt** pop-up window appears.
2. In the pop-up window, enter the following commands to use the MD5 Value Generator tool:
 - a. Enter `cd`, enter the full path of the extracted folder, and then press **Enter** on the keyboard.
 - b. Enter the following commands:

```
WAImportExportMD5.exe /sn:AccountName /sk:AccountKey
/srcdir:SourceFolderPath /taskcount:10 /overwrite:0
```

```
C:\Users\myzhu\Desktop\MD5StandaloneTool> WAImportExportMD5.exe /sn:AccountName
/sk:AccountKey /srcdir:SourceFolderPath /taskcount:10 /overwrite:0
```

Figure 2: The MD5 Value Generator tool commands.

- **sn:AccountName** – The name of an account that can access Microsoft Azure. Replace **Account Name** with your own account name.
- **sk:AccountKey** – The account key. Replace **Account Key** with your own Azure account key.
- **srcdir:SourceFolderPath** – The full path of the source storage location that the data was copied from using the Microsoft Azure Import/Export tool.
- **taskcount:10** – The number of threads that can be used simultaneously in one job. The default value is **10**.

***Note:** More threads result in a faster job, but may affect the performance of the server depending upon your hardware configuration.
- **overwrite:0** – The conflict resolution for MD5 hash values.
 - **1** means to overwrite the existing MD5 hash value of a BLOB with the value generated by this tool. In most cases, AvePoint recommends overwriting all existing MD5 values (if any) with values generated by this tool.
 - **0** means to keep the existing MD5 hash values for BLOBs, and only apply a new hash value to BLOBs that do not already have one. The default value is **0**. Use this method only if you are certain that the MD5 values generated by a third-party tool are correct.

3. Press **Enter** on the keyboard to run the tool.
4. After the job completes, a **logs.txt** file will be automatically generated in the same directory as the tool.

Using the Azure Data Upload Tool

The Azure Data Upload tool is recommended for SharePoint High Speed Migrations.

After SharePoint data has been exported by a SharePoint High Speed Migration Export job, use this tool to automatically create BLOB containers in Microsoft Azure and to upload the exported data to the BLOB containers, as BLOBs, with a unique MD5 hash value for each BLOB. Data with MD5 hash values in Microsoft Azure can be imported to SharePoint Online using a SharePoint High Speed Migration Import job.

***Note:** The user who runs this tool must have at least **Read** and **Write** permissions to the storage location.

***Note:** There is help information on how to use this tool. To view the help, enter `AzureDataUpload.exe -?`, and then press **Enter** on the keyboard.

```
C:\Users\myzhu\Desktop\MD5StandaloneTool> AzureDataUpload.exe -?

Usage: AzureDataUpload.exe /sn:StorageAccountName /sk:StorageAccountKey /srcdir:
SourceContainerFullPath [/jobid:SPMigrationHighSpeedExportJobID]

/sn:Account Name
/sk:Account Key
/srcdir:Source Folder Path
/jobid:DocAve SharePoint High Speed Migration Export Job ID.
```

Figure 3: The Azure Data Upload tool usage.

1. On the server where the extracted **AzureDataUpload.exe** folder resides, right-click **Command Prompt**, and then select **Run as administrator**. The **Administrator: Command Prompt** pop-up window appears.
2. In the pop-up window, enter the following commands to use the Azure Data Upload tool:
 - a. Enter `cd`, enter the full path of the extracted folder, and then press **Enter** on the keyboard.
 - b. Enter the following commands.

```
AzureDataUpload.exe /sn:AccountName /sk:AccountKey
/srcdir:SourceFolderPath /jobid:mh2016072001639348121
```

```
C:\Users\myzhu\Desktop\MD5StandaloneTool> AzureDataUpload.exe /sn:AccountName /s
k:AccountKey /srcdir:SourceFolderPath /jobid:mh2016072001639348121
```

Figure 4: The Azure Data Upload tool commands.

- **sn:AccountName** – The name of the account that can access Microsoft Azure. Replace **Account Name** with your own account name.

- **sk:AccountKey** – The account key. Replace **Account Key** with your own account key.
 - **srcdir:SourceFolderPath** – The full path of the storage location where folders and files are exported by SharePoint High Speed Migration Export jobs.
 - **jobid:mh2016072001639348121** – The ID of a SharePoint High Speed Migration Export job. The **jobid** parameter is optional.
 - If the ID of a SharePoint High Speed Migration Export job is entered, the exported folder and files in the storage location will be uploaded to Microsoft Azure as BLOB containers and BLOBs.
 - If no value is entered for this parameter, all of the exported folders and files of SharePoint High Speed Migration Export jobs in the storage location will be uploaded to Microsoft Azure.
3. Press **Enter** on the keyboard to run the tool.
 4. After the job completes, an **AzureUpload.log** file will be automatically generated in the same directory as the tool.

***Note:** If a folder or file fails to be uploaded, the job will fail. The reason why the job fails will be recorded in the **AzureUpload.log** file.

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