
Lab: Azure File Movement Using AzCopy & Azure File Sync

Lab Objectives

- Upload files from your local machine to Azure File Share using **AzCopy**
 - Configure and use **Azure File Sync** to synchronize an on-premises Windows Server folder with Azure File Share
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Prerequisites

- Azure Subscription
 - Storage Account with Azure File Share created
 - Windows machine (local or server) with internet access
 - Azure Storage Explorer (optional)
 - AzCopy installed (Download: <https://aka.ms/downloadazcopy>)
 - Windows Server (2012 R2 or later) with PowerShell access for Azure File Sync
 - Azure File Sync Agent installed on the Windows Server ([Download here](#))
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Part 1: Upload Files to Azure File Share using AzCopy

Step 1: Prepare Azure Storage Account and File Share

1. Log into [Azure Portal](#)
 2. Navigate to your **Storage Account**
 3. Under **Data storage**, click **File shares**
 4. Click **+ File share**, name it **azcopyfileshare** and create it
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Step 2: Get Storage Account Connection Info

1. In the storage account, go to **Access keys**
 2. Copy the **Storage account name** and **key**
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Step 3: Install AzCopy (if not installed)

- Download and install AzCopy from [here](#)

Verify installation:

```
azcopy --version
```

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Step 4: Upload Files with AzCopy

1. Open **Command Prompt** or **PowerShell**

Login to storage account (optional for SAS usage):

```
azcopy login
```

- 2.

3. Use the following command to upload files (replace placeholders):

```
azcopy copy "C:\LocalFolder\*" "https://<storageaccount>.file.core.windows.net/azcopyfileshare"
--recursive --account-name <storageaccount> --account-key <storagekey>
```

4. Verify files uploaded by navigating to the file share in Azure Portal or using Storage Explorer.

Part 2: Synchronize Files Using Azure File Sync

Step 1: Create Azure File Share (if not already created)

1. In Azure Portal, create a new file share named **filesyncshare** in your storage account.

Step 2: Create Storage Sync Service

1. In Azure Portal, search **Storage Sync Services**
2. Click **+ Create**, name it **filesyncservice**, and create it.

Step 3: Register Windows Server with Storage Sync Service

1. On your Windows Server machine:
 - Download and install the **Azure File Sync agent** from [here](#)

After installation, open **Azure File Sync** agent UI or use PowerShell to register the server:

```
Register-AzStorageSyncServer -ResourceGroupName <resource-group>
-StorageSyncServiceName filesyncservice -SubscriptionId <subscription-id>
```

- 2.
 3. Alternatively, register server from Azure Portal under your Storage Sync Service blade.
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Step 4: Create Sync Group

1. In Azure Portal, under your **Storage Sync Service**, click **+ Sync Group**
 2. Name it **filesyncgroup**, select the storage account and **filesyncshare** file share as cloud endpoint.
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Step 5: Add Server Endpoint

1. In the sync group, click **+ Add server endpoint**
 2. Select your registered Windows Server and provide a path to the local folder to sync, e.g., **D:\SyncFolder**
 3. Click **OK**
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Step 6: Test Sync

1. Add files to the local sync folder on your Windows Server (**D:\SyncFolder**)
 2. Wait for sync (monitor via Azure Portal or PowerShell)
 3. Verify files appear in the Azure file share (**filesyncshare**) in the portal or Storage Explorer.
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Cleanup

- Delete created file shares and Storage Sync Service to avoid charges.

- Unregister servers if no longer needed.
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Lab Complete!

You have successfully:

- Uploaded files to Azure Files using AzCopy
 - Configured Azure File Sync for hybrid file synchronization
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