**Rclone Configuration**

I was successful at moving the files between AWS and Azure and vice versa. This documentation will specify how I was able to successfully configure Rclone on a PC to migrate the files between the cloud storage accounts. I will also point out some security challenges that I faced to make this happen.

**Step 1: Configuring Rclone**

For this documentation the Rclone tool was installed on a PC. However, it can be installed on many other platforms like Mac, Ubuntu, Docker etc. The installation zip file for Rclone can be found here: <https://rclone.org/downloads/>. This page will give the installation package for common operating system. Once the package is downloaded, unzip it to a folder in a desired repository. Open the command prompt in the repository and run the following command: *rclone config*. This will prompt you to configure the remote which will be used to make a data call to the appropriate cloud storage provider. Follow along with the commands for the setup. Make sure to select appropriate service when configuring the remote. For ex: AWS S3 OR Blob. Also have the correct storage account name and key for the setup. Once complete make note of the name of the remote that was created earlier.

**Step 2: Use of Rclone**

Rclone is a very easy tool to use. Simply type the following command and Rclone will automatically copy files from one provider to another: *rclone copy azure:test awss3:teestt.* In this command we are asking rclone to copy ALL of the files from the “test” container in Azure to the “teestt” folder in the S3 bucket. Make sure to upload files to azure before conducting this file transfer. This will also work in the reverse direction as well: *rclone copy awss3:teestt azure:test.*

**Step 3: Security Considerations**

Initially AWS denied access to Rclone to move the files from Azure. I had to disable the ACL and enable ALL public access. Once I made these permissions changes AWS accepted the transfer. This is a major security vulnerability because now any nefarious actor with the security key can access my AWS S3 bucket.

Another problem is that security permissions for certain folders in Azure are NOT maintained once migrated to Azure. For ex: in AWS ONLY Dhruti can access the Development folder. But in Azure she can access ALL folders.

Another problem is that if everyone uses Rclone to transfer the files then there are NO security controls that will prevent people from corrupting files.