File Transfer Power Automate Flow: AWS S3 to One Drive

Overview: This development work aims to automate the processing of files from the AWS-S3 bucket into OneDrive.

Things before going to the walkthrough:

- 1. Make sure you have a Microsoft Account that allows you to access Power Automate and OneDrive on your browser.
- 2. Make sure you have access to the AWS School Fuel workplace and have access to the step functions, S3, and AWS Transfer Family.

Walkthrough Video:

Instant Cloud Flow:

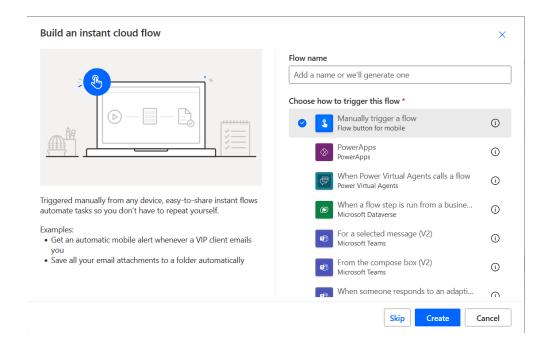
https://drive.google.com/file/d/1PZxBG7ge65L3cEh3ly3jf11kVoiPLJSJ/view?usp=sharing

• For SFTP - SSH connection, make sure there is no whitespace in the root folder path.

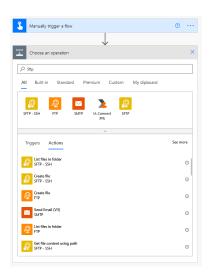
Creating the Power Automate Flow

Creating an Instant Cloud Flow:

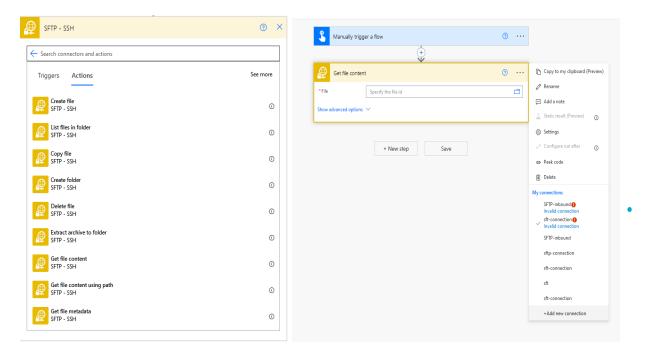
- 1. Go to Power Automate
- 2. On the left panel, click Create. Click on Instant Cloud Flow
- 3. In Build an automated cloud flow, Under Choose your flow's trigger, select Manually trigger flow, select when a file is created in a folder, and click Create.



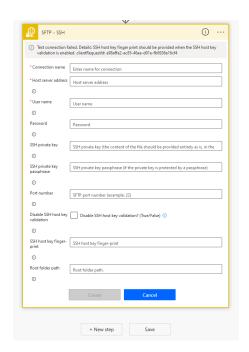
4. Create a new step and search for "Sftp" and select "SFTP - SSH" icon.



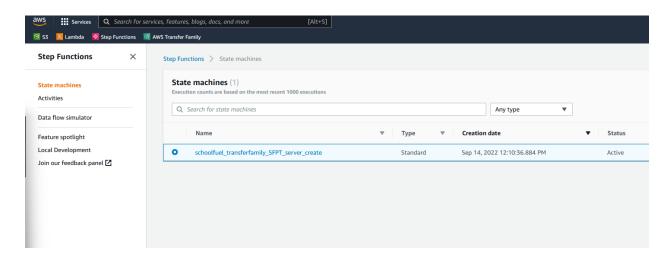
5. For the list of actions click on "Get file content", then click on the top right ellipse and add a new connection.



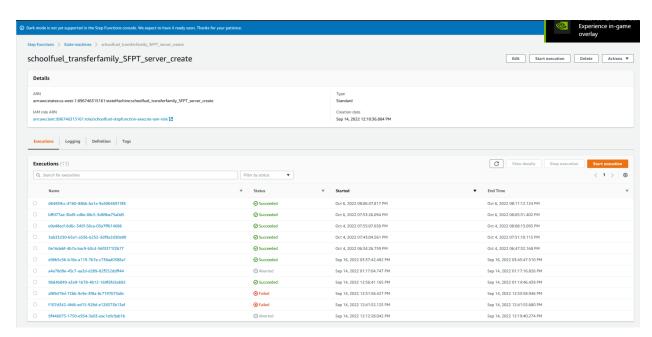
6. Once the step looks like the one below we must create a server using the already created AWS Step Function.



7. Log in to AWS using the school fuel that is provided. Make sure you are in the northern California region. Then search for the Step Function and there should be a state machine that will create an SFTP server.



8. Click on the "schoolfuel_transferfamily_SFPT_server_create" step function. You should see the below page.



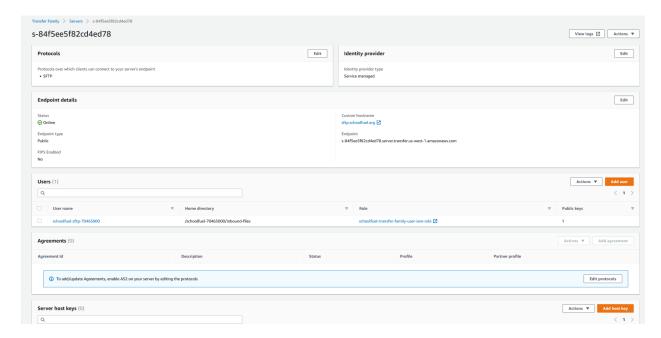
9. Click on the orange "Start Execution" button, then you could input an comment and the number of seconds you want the server to run. 600 second = 10 minutes. Then click on "Start execution".



 Then go to the AWS Transfer Family section, then you see the newly created server. It will take some time to start up so wait a couple of seconds.

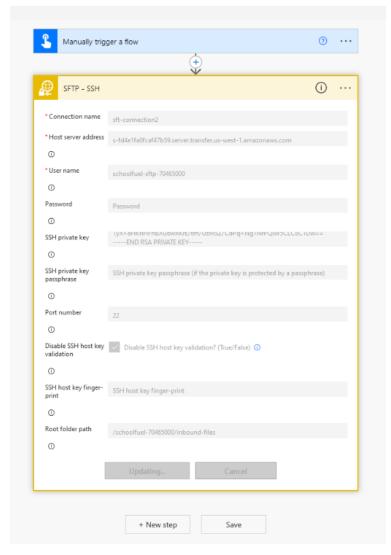


11. Click on the Server ID link which is above "s-84f5ee5f82cd4ed78", then you will see the info needed for the SFTP - SSH connection.

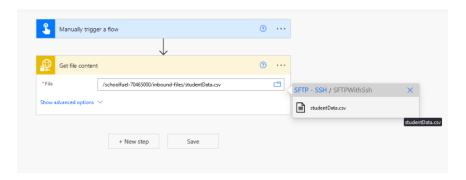


- 12. Now input the information for the connection from above.
- 12.1 Connection Name: any name that makes sense.
- 12.2 Host Server Address: Endpoint
- 12.3 User name: Users
- 12.4 SSH private key: copy and paste the SSH private key
- 12.5 Disable SSH host key validation: checked
- 12.6 Root folder path: Home directory

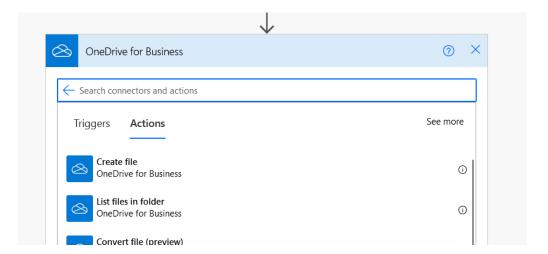
(Make sure to get rid of white spaces)



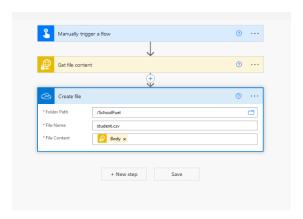
13. Then click on create, then you should be able to find the files.



14. Then create a new step, search for OneDrive, click on the OneDrive for the Business icon, then click on the "Create file" action.



15. Connect your OneDrive account and have a folder to add the file to your OneDrive space. Add the file name with the extension. File content from sftp connection.



16. On the top right, test the flow. If there are no errors, then it should be in your OneDrive folder.

