NETFLIX

SENIOR SYSTEMS ENGINEER
TECHNICAL ASSESSMENT

Write scripts that would complete the following actions explained in the assessments below. Please use Python and ensure that your scripts will run on a Unix-based or MacOS system.

When assessments are completed, please push your code to GitHub and send the link to your repository (public repo is fine), and the link to the destination folder to tcotran@netflix.com. During the interview we will ask you to share your screen and present your code so we can understand your thought process around design and execution.

Prerequisites

- **A personal Gmail account.**
  You'll need a personal Gmail address which is used to create a GCP project for the assessment.

Getting Started:

1. **Create a GCP project with your personal account.**
   You'll need to create a GCP project to generate the client credentials that will be used to facilitate OAuth2 to Google services. This link should get you started:
   https://developers.google.com/workspace/guides/create-project

2. **Generate client credentials for your GCP project.**
   As mentioned above, you'll need to generate some client credentials to facilitate auth to Google services. This link should get you started:
   https://developers.google.com/workspace/guides/create-credentials
   Be sure to revisit the OAuth consent screen after you've configured it to add your personal Gmail account as a Test user.

Folder Details

Source folder id: 1cpo-7jgKSMdde-QrEJGkGxN1QvYdzP9V

Destination folder id: [Create a folder in your Google drive and share it with anyone with link]

Assessments

Complete the assessments below in any order. Structure your project in a way that allows evaluators to run your solution for each assessment individually. For assessments #1 and #2,

output the results in any format that you'd like, but be prepared to explain why you chose a specific format.

Assessment #1

Write a script to generate a report that shows the number of files and folders in total at the root of the source folder.

Assessment #2

Write a script to generate a report that shows the number of child objects (recursively) for each top-level folder under the source folder id and a total of nested folders for the source folder.

Assessment #3

Write a script to copy the content (nested files/folders) of the source folder to the destination folder.

Helpful Links

[Using OAuth 2.0 to Access Google APIs](#)
[Drive API (V3)](#)
[Google Cloud Platform](#)