**Problem Statement 01** –

* Azure cloud is framework where we need to build the solution
* There is a need to digitize a fund/client reporting
* Currently this report is built by manually extracting data in excel from API sources and then develop them in Power BI/Report Builder
* The source for manual extraction are two;
  + - Fund/Deal definition and performance data is stored in Data Platform 01
    - Fund/Deal wise Article 5 data is stored in Data Platform 02
* We haven’t been provided detailed information for the data platform architecture. However, complete API details are provided as below
* Using OAuth 2.0 authorization framework we have bee provided with the below links and tokens *(below are just made up/dummy links & tokens. Token expire every 48 hours)*
  + - **365 Trade (Performance)** –
      * **Link** - https://api-tst1.abc.com/investdata/trade/alphacentuari/2020/09/01/centuari-trades-typesafe-20190803-to-20200802.csv
      * **Token** - KMBpze66qc5dSfKKdMyaH3msdtBs3SIJ
    - **SecMaster (Definitions) –**
      * **Link -** https://api-tst1.abc.com/investdata/instruments/alphacentuari/2020/09/01/instruments-typesafe-20200720.csv
      * **Token –** WTBiex56df5jLiKKgEuVX4sdnmEs3SLY
    - **Article 5 (Commentary) –**
      * **Link -** https://starxservice.abc.com/api/v2/Issuers/Query
      * **Bearer Token –** rtD8wZGyuIwGFX3LwHSUehRsjEdSEWsf6Xerrbdkv5bZu3IlNzWnNCTmhaY0YzUTlTNHRycFFCVEJ7TlKXXXIsxxtpXCI3IlXzXnSDFvfgM0EzXElTNHRycFFCVEJ5TlYKKKL1
* First two APIs accept :text/csv and third one application/json
* Our cloud and data platform team have suggested that the above API’s which are in non-production will only be exposed once a proper secured framework and application is built

**Requirements** –

* Post getting authorization grant from resource owner
* Need to create a mechanism that would store/configure relevant access/credential/tokens etc. using appropriate Azure services
* A secured location when json/csv payload can be stored automatically
* This is a monthly reporting process, so we need to trigger the solution to run without having any person or personnel credential dependencies
* We can also directly build the solution in a way to fetch and parse data into Power BI/Reporting Builder. However, given the additional security requirements on Power BI framework, you may skip this or make this as your secondary solution
* Kindly do not assume or use any 3rd party application/services like Postman, Informatica, etc.
* You can use any coding language of your choice and all available data services on Azure (like Data Factory, Function App, Graph, AAD, CI/CD pipelines, etc.) for building your solution
* This solution would need to pass through our data security and azure cloud engineering/maintenance teams. Hence, please do make your solution highly secured so that nobody can directly run the link with the token to fetch the data, except the right
* Please put together a solution design/architecture for solving the above problem (max 1 to 3 pages)