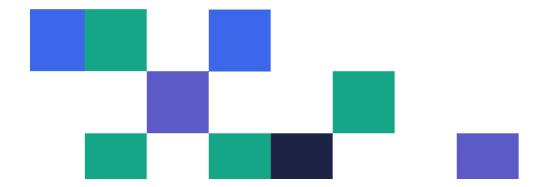
# **Anaplan API and Python**

A guide to import external data into your Anaplan ecosystem using Python







## **Christophe Keomanivong**

Senior Solution Expert, OEG

**/**anaplan

### **Objective**

- This session covers all you need to know to get started with Python integrations
- This is the stepping stone for using Python to import data into Anaplan

### **Disclaimer and Prerequisites**

- Not a tutorial about Python
- Code might not be suitable for production use
- Prerequisite
  - Rest APIs
  - Python 3 with Anaplan
  - Anaplan API 2.0 Python Library

#### Demo

Import financial data from an external website and load them into Anaplan

#### 4 steps

- 1. Getting data from an external API
- 2. Create the Python objects to call the remote resource
- 3. Create the Python objects to call Anaplan Actions
- 4. Finalize by writing the actual main function that will do the binding

## **DEMO**

CPX / Anaplan

### Frame of the main Python class

The main method will call different functions for each of those tasks inside of the same class:

- Authenticate; Outcome: tokenString
- Get the list of models and choose the relevant IDs; Outcome: model ID and workspace ID
- Get the list of imports and choose the relevant IDs; outcome: import ID & datasource ID
- Send the data to Anaplan to update datasource; Outcome: status code
- Trigger the import; Outcome: task ID
- Get the status of the import; outcome: Json

### Final Aspect of the code

```
# @classmethod def _getImportInfo(cls, token, wsId, modelId, importName):...

# @classmethod def _sendData(cls):...

# @classmethod def _sendData(cls):...

# @classmethod def _importIrigger(cls):...

# @classmethod def _importIrigger(cls):...

# @classmethod def _importIrigger(cls):...
```

```
👸 app.py × 👸 anaplanAPI.py
       import requests
       import anaplanAPI as ana
       def main():
               ## Get data from remote source
               data_content = requests.get("https://www.quandl.com/api/v3/"
                                           "datasets/MX/BAXG2020.csv?"
                                           "start_date=2020-02-12&end_date=2020-02-14"
                            "&api_key=d1afi4VUGS2u4dQzZSDk").content
               print(data_content)
               anaplanImp = ana.anaplanImport()
               executeImport = anaplanImp.executeImport("keochris@gmail.com", "AnaplanCPX2020",
                                                       "Import Securities Price", "Equides SA")
              print("An error occurred.")
17 ▶
       if __name__ == '__main__':
```

### **Key takeaways**

Call Anaplan's APIs to perform a full import into Anaplan using Python

- Authentication (both Basic and Certificate)
- Get the data from remote sources using Requests library
- Find different IDs for Anaplan objects
- Trigger necessary objects



### **Next steps**

Open a vast range of possibilities

- Create advanced webservices for adhoc calls (like the Symfonic hub)
- Imagine other integrations based on other programming languages
  - Kotlin
  - C#
  - JS
  - or even proprietary technologies like SAS® Base or SAP® ABAP



