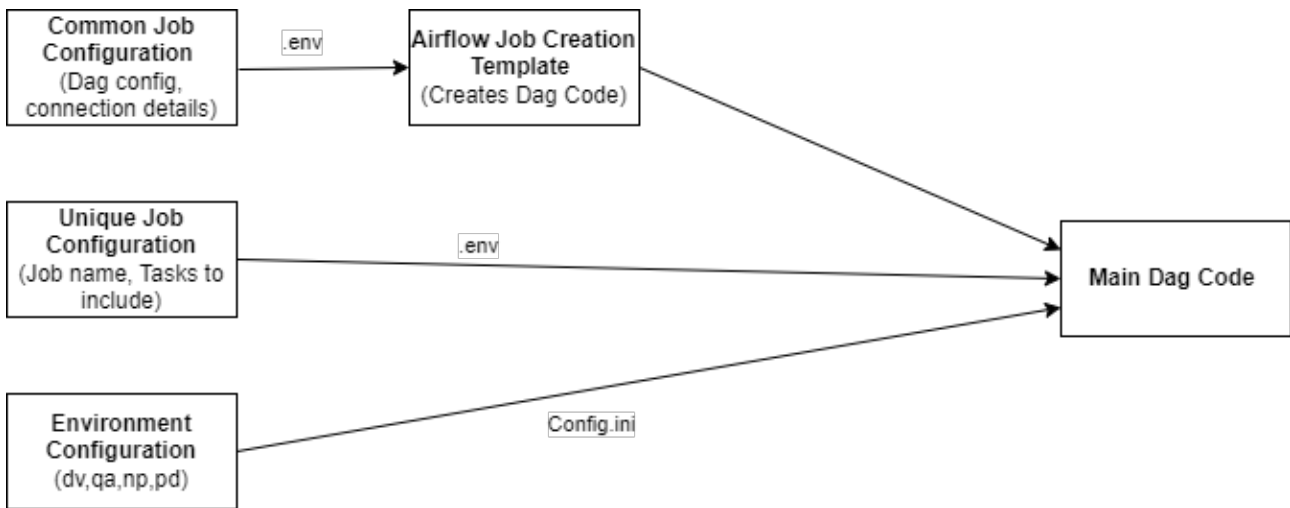
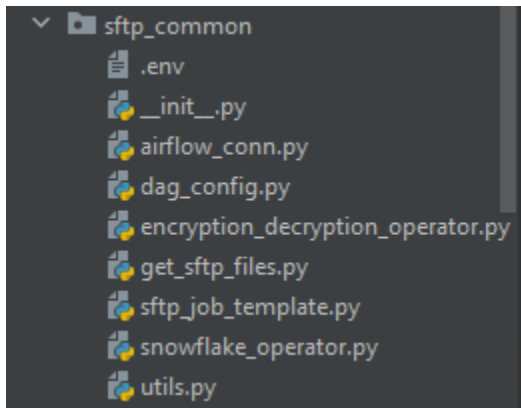


Airflow SFTP Job Common Template

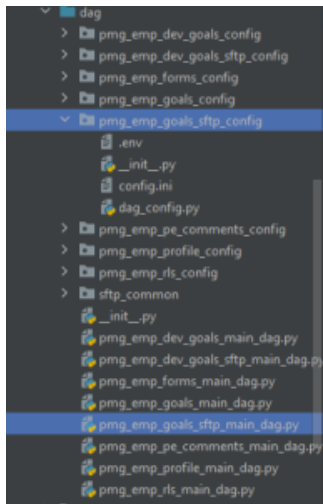
Airflow generic job Architecture



File structure of Airflow job creation template in Git



File structure of Main Dag



Naming convention:

Airflow job creation template:- sftp_common/sftp_job_template.py

Airflow job creation template configuration:- sftp_common/.env

Main Dag File:- pmg_emp_goals_main_dag.py

Main Dag configuration:- pmg_emp_goals_config/.env

Environment configuration:- pmg_emp_goals_config/config.ini

This is **Airflow job creation template** for creating new job for sftp pipeline

Github link: https://github.com/hris-data/HR-Data-Platform/tree/STRY0146446_V1

Process:-

1. Update Airflow job creation template configuration with relevant details example given below

Airflow job creation template configuration (sftp_common/.env):

```
#Project Configurations
project_name=<project id>
location=<region>
zone = <zone>

#Airflow job configurations
depends_on_past = <True or False> # if this job is depends on last run
start_date=<job start date>
retries= <number of retries when job get failed>
retry_delay= <retry delay>
execution_timeout = <execution timeout for task in minutes>
dagrun_timeout = <total dagrun time in minutes>
max_active_runs = <max active run for same job>
concurrency = <concurrency of job>
catchup = <True or False> # run job for history
```

```
# GCS Bucket, location & Folder names
DESTINATION_BUCKET = "<bucket name to store data>"
DESTINATION_PATH = "<folder path for data in bucket>"
ZIP_FILE_PATH = "<zip file path>"
PROCESSED_FILE_PATH = "<modified File path>"
```

```
# Source Directory
DIR = ""
```

```
# Encryption configuration
ENCRYPTION_SECRET = "<encryption key id from secret>"
LMS_SCP_SECRET = "<sftp id from secret>"
LMS_SNOWFLAKE_SECRET = "<snowflake connection id from secret>"

DBT_CLOUD_CONN_ID = "<DBT connection id name>"
DBT_CLOUD_CONN_SECRET = "<dbt secret id>"
```

2. Update Main Dag configuration

```
#Airflow job configurations
job_name = '<job name>'
description = "<job description>"
tags = <list of tags>  #["pmgm"]

# task to be executed
IS_UNZIP = <True is run unzip task> #False
IS_LOAD_SNOWFLAKE = <True is run task to load data in snowflake> #True
IS_ENCRYPT_FILE = <Task to encrypt file> #False
IS_DBT_LOAD = <Run DBT task> #True
IS_EXCEL_CONVERT = <Convert data into CSV if excel report available> #True

# SFTP Config

PREVIOUS_DATE = "<run job for previous day>" # initially empty
FILE_LIST = '<list of file>' # initially empty
#Example for PREVIOUS_DATE = "2022-05-29"
#Example for FILE_LIST = ["LOREALSA01_D_20220520000600.zip", "LOREALSA01_D_20220521000533.zip",
"LOREALSA01_D_20220519000508.zip"]

# Snowflake configuration details
FILE_FORMAT = "<snowflake file format>" #"CSV_FF"
FILE_DETAILS = <list of folder name, database name, schema name and table name> #["(PROD_ExportPerfGoalsActivities", "HRDP_LND_%
ENV%_DB", "PMG_LND_SCH", "PERF_GOAL_REPORT")."]

# Encryption configuration

LMS_SNOWFLAKE_CONN = "<snowflake conn id>" #"snowflake-conn-%env%"
LMS_SNOWFLAKE_SECRET = "<snowflake secret id>" #"snowflake_conn_%env%"
```

3. Update Environmental configuration

```
[DV]
DESTINATION_BUCKET = <destination bucket name>
SNOWFLAKE_STAGE_NAME=GCS_INT_STAGE_DV
DBT_CLOUD_ACCOUNT_ID = 69742
DBT_CLOUD_JOB_ID = 130544
schedule_interval = 0 1 * * *
LMS_SCP_CONN = lms-sftp-conn
FILE_PATTERN = T3_ExportPerfGoalsActivities
SOURCE_PATH = /DBDUMP/T3_PMG/

[QA]
DESTINATION_BUCKET = hrdp_gcs_data_eu_qa
SNOWFLAKE_STAGE_NAME=GCS_INT_STAGE_QA
DBT_CLOUD_ACCOUNT_ID = 69742
DBT_CLOUD_JOB_ID = 131204
schedule_interval = 0 1 * * *
LMS_SCP_CONN = pmg-sftp-conn
FILE_PATTERN = T3_ExportPerfGoalsActivities
SOURCE_PATH = /DBDUMP/T3_PMG/

[NP]
DESTINATION_BUCKET = hrdp_gcs_data_eu_np
SNOWFLAKE_STAGE_NAME=GCS_INT_STAGE_NP
DBT_CLOUD_ACCOUNT_ID = 69742
DBT_CLOUD_JOB_ID = 131211
schedule_interval = 0 1 * * *
LMS_SCP_CONN = lms-sftp-conn-np
FILE_PATTERN = PROD_ExportPerfGoalsActivities
SOURCE_PATH = /DBDUMP/PMG/
```

[PD]
DESTINATION_BUCKET = hrdp_gcs_data_eu_pd
SNOWFLAKE_STAGE_NAME=GCS_INT_STAGE_PD
DBT_CLOUD_ACCOUNT_ID = 69742
DBT_CLOUD_JOB_ID = 132899
schedule_interval = 0 1 * * *
LMS_SCP_CONN = lms-sftp-conn-pd
FILE_PATTERN = PROD_ExportPerfGoalsActivities
SOURCE_PATH = /DBDUMP/PMGM/