Kadiska - Network Statistic

Summary

This API is to extract the respond time of each application on each sites. However, not all Solvay sites have this program setup. Therefore, we can see only some sites only.

The API URL https://app.kadiska.com/api/v1/query (l_VAR_kadiska_url_query)

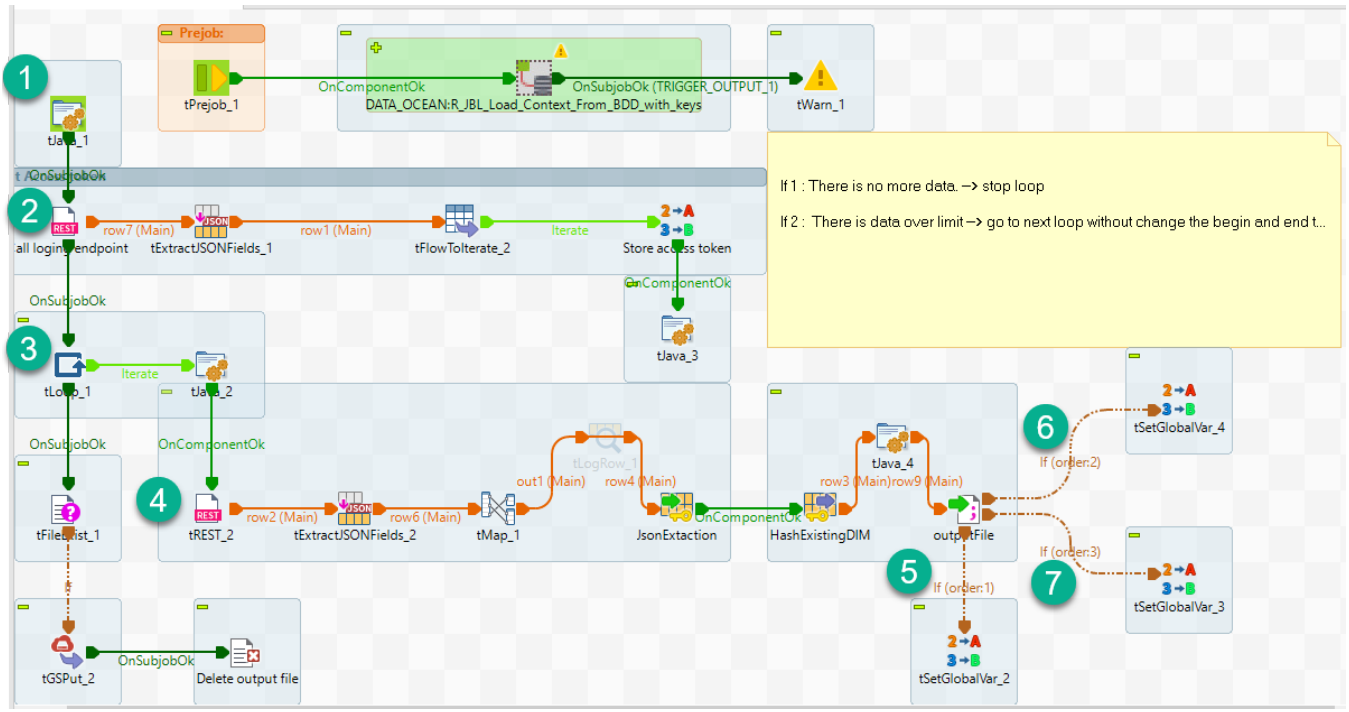
Example of query (Body)

Table	Incremental Load By	Incremental Flag	No. Fields	Talend Job	ODS Table	DM	DPL Table
Kadiska-rum	Start time	KADISKA_RUM	83	F070_Kadiska_rum_to_ODS	ODS_KDK_0000_F001_I_H_rum	FACT_kdk_rum	V_FACT_kdk_rum

Tools: Talend

Detail job

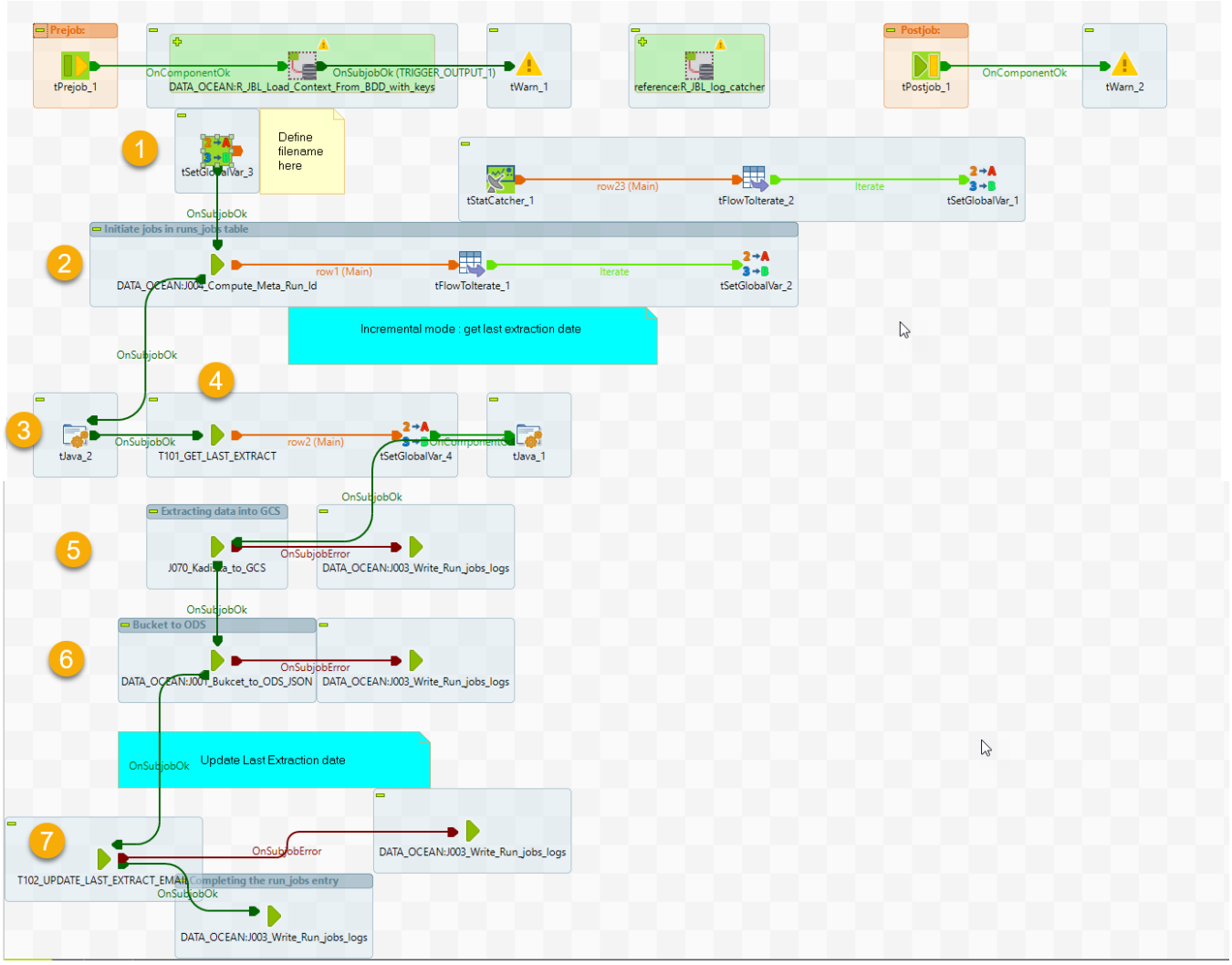
- J070_Kadiska_to_GCS



1. Define the date
    a. Time to select "Begin" to "End"
    b. Time to stop "Stop"
    c. Time today = "Now"
2. Login to Kadiska API on URL: https://app.kadiska.com/api/v1/config/clients/client:5b77758db8/tokens (l_VAR_kadiska_url_token)and keep the token as global variable
3. Start looping
4. Extract data from Kadiska API on URL: https://app.kadiska.com/api/v1/query (l_VAR_kadiska_url_query) controlling by following variables
5. In case [no more data] there is no data or the end time >= stop time, stop the loop
6. In case [there is data more than limit] there is data and number of line = limit, add offset + number of line
7. In case [no more data during the interval, go to next hour]there is data and number of line < limit or there is no data and End time < Stop, set offset = 0 and add Begin and End time 1 hour (interval)

Flow job

- F070_Kadiska_rum_to_ODS



1. Define variable such as filename
2. Get meta_run_id
3. Define meta_file_name for incremental or reload which depending on l_VAR_kadiska_q_reload but the name is fixed to KADISKA_RUM [_RELOAD]
4. Get the last successfully load from table incremental_loading
5. Call detail job
6. Load to ODS
7. Update the last successful date to incremetnal_loading table

Access rights

It is request to network team : Mohammed IDRISSI and PRISCILA SANCHES DE BRITO-ex , Kadiska team = https://kadiska.com/contact-us/

Username/Password encrypt on variable g_CNX_KDK_Password

Source

https://app.kadiska.com/api/v1/query

Format

JSON

Destination

Location

- Bucket = cs-ew1-prj-data-dm-dt-[dev]-staging/KADISKA/
- DataOean GCP = prj-data-dm-dt-[env]
- STG Table names =
    - prj-data-dm-dt-prod.STG.STG_KDK_0000_0000_F001_I_H_rum
- ODS Table names =
    - prj-data-dm-dt-prod.ODS.ODS_KDK_0000_F001_I_H_rum
- DPL View names =
    - prj-data-dm-dt-[env].DPL.V_FACT_hlx_work_order

Format

columnar format

Sizing

Assessment

Loading

1.1 Incremental Load

It is control by variables:

- l_VAR_kadiska_q_condition : normally it is blank but it can add additional filter such as ["=", "watcher_name", ["$","Google Calendar"]],
- l_VAR_kadiska_q_interval : during project design, we agree to have interval 1 hour = 3600000 milliseconds (should not be changed, agree on the project to keep 1 hour gap)
- l_VAR_kadiska_q_limit : max number of records to get from API each call (recommend 9999 which is max of API return)
- l_VAR_kadiska_q_nloop : max number of loop (recommend 5, increase more when need to reload in order to avoid many duplicated data)
- l_VAR_kadiska_q_offset : start index of the record from API query
- l_VAR_kadiska_q_reload : "incremental" for the incremental load, in case of reload change this variable to end time with epoch format (starting time will get from table incremental_loading on meta_file_name = KADISKA_RUM_RELOAD
- l_VAR_kadiska_email_flag : "yes" when need Talend to send email to inform when the incremental load is not increasing on the incremental_table, which can use the loading duplicate data
- l_VAR_kadiska_email_recipient: list of email to get the email

1.2 Full load

N/A

1.3. Reloading data

It is control by variables:

- l_VAR_kadiska_q_limit: The number of records to get from API each time
  l_VAR_kadiska_q_nloop: the number of loop for each load. (the number of limit x nloop will be max record on the file to load each time to BQ)
  l_VAR_kadiska_q_offset: The number of record index from API. It starts with 0. Will change to another number only specific reload case
- l_VAR_kadiska_q_reload: If it is NOT "increment", it will the full load with condition on this parameter such as [1724371200000]. It will be the end time (epoch format). The start date will always get from incremental_loading table with meta_file_name = KADISKA_RUM_RELOAD

How to:

1. Stop schedule job

2. Change the start date that is required to reload on

UPDATE STG.incremental_loading

 SET meta_last_process_date = '2021-12-22 00:00:00' --the date that want to reload

where meta_file_name = 'KADISKA_RUM_RELOAD' -- identify the object that want to reload but the name to change must be _RELOAD. Without _RELOAD will use for incremental load only.

3. Change context l_VAR_kadiska_q_reload to the end date with epoch format

4. Recheck the variables: limit, nloop, offset

5. Run the job to load until KADISKA_RUM_RELOAD is reach the end time that we enter on l_VAR_kadiska_q_reload. Meaning reload is complete

6. Change the context l_VAR_kadiska_q_reload to be "incremental"

7. Reschedule the job

1.4 Plan to schedule

Every hour

1.5 Timing

5 minutes

Criticality

Low

Logging

1. Check the last loading

```
select   *   from   STG.incremental_loading
where   meta_file_name like '%KADISKA_RUM'
order   by   meta_file_name
```

meta_file_name	meta_source_system	meta_last_process_date
KADISKA_RUM	KDK	2024-08-23 07:00:00 UTC

2. Check the loading records / error

```
select job.job_name , job.meta_start_date , logs.meta_run_id , logs.meta_source_system , logs.meta_step , logs.meta_status , logs.meta_num_lines , logs
.meta_error_lines from STG.log_tables logs join STG.run_jobs job on logs.meta_run_id = job.meta_run_id
where   logs.meta_run_id in ( SELECT meta_run_id FROM STG.run_jobs order by meta_start_date desc limit 100 )
and job_name like '%Kadiska%'
and meta_start_date >   DATE_SUB ( CURRENT_TIMESTAMP () , INTERVAL 1 DAY )
order by meta_start_date desc
```

job_name	meta_start_date	meta_run_id	meta_source_system	meta_step	meta_status	meta_num_lines	meta_error_lines
F070_Kadiska_rum_to_ODS	2024-08-23 07:03:54.538313 …	dd72673a-00ba-49ac-8f3b-47f…	STG_KDK_0000_0000_F001_I_…	Staging to ODS	OK	139	0
F070_Kadiska_rum_to_ODS	2024-08-23 07:03:54.538313 …	dd72673a-00ba-49ac-8f3b-47f…	KDK_DT_0000_0000_F001_202…	Bucket to Staging	OK	139	0
F070_Kadiska_rum_to_ODS	2024-08-23 06:03:16.352499 …	0c1105df-1a5c-4b16-93be-0f9f…	KDK_DT_0000_0000_F001_202…	Bucket to Staging	OK	68	0
F070_Kadiska_rum_to_ODS	2024-08-23 06:03:16.352499 …	0c1105df-1a5c-4b16-93be-0f9f…	STG_KDK_0000_0000_F001_I_…	Staging to ODS	OK	68	0
F070_Kadiska_rum_to_ODS	2024-08-23 05:02:43.847255 …	0fdbc4b3-5028-4a31-a190-ebb…	STG_KDK_0000_0000_F001_I_…	Staging to ODS	OK	56	0
F070_Kadiska_rum_to_ODS	2024-08-23 05:02:43.847255 …	0fdbc4b3-5028-4a31-a190-ebb…	KDK_DT_0000_0000_F001_202…	Bucket to Staging	OK	56	0

3. Check duplicated data / missing data

```
select meta_business_date , meta_run_id , time_begin , count (*) from `ODS.ODS_KDK_0000_F001_I_H_rum`
group by meta_business_date , meta_run_id , time_begin
order by meta_business_date desc , time_begin desc
```

Known Error

1. If the last nloop times, not cover all records by limit, it will move to next hour (happen only loading > 1 hour gap). Check on Logging script 3 if the number of records = limit, it may have more data

2. When there is no data loading and it API return on postman like picture below

The log in TMC will be

Error tExtractJSONFields_2 - Missing property in path $['data']

It is error on Kadiska about the limit of run times / day.

For non available data - Contact Solvay Network team - mohamed.idrissi@solvay.com, priscila.sanchesdebrito-ext@solvay.com , vinicius.cosendey@solvay.com

Can also contact Kadiska team directly https://kadiska.com/contact-us/ (needs account created by Vinicious) adding in the ticket as cc Network team (Mohammed, Priscila and Vinicious)

- to create a request /case > **Process**_ How to open Kadiska Cases/Incidents
- Other contacts: email at support@netskope.com, or via telephone using one of our regional support numbers:

  US: 1-800-685-2098

  UK: 44-8455280141

  Australia: 1-800-505-486

  Europe: 44-8455280141

  Singapore: 80-0130-2191

  India: 00080-0100-4400