May13th, 2023

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Image: A start of the star GAMING









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Reports Consumption Insights Using Azure Synapse & Power BI Rest Api Dimitris Papadoulis – Panos Pateas



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Who We Are •

Dimitris Papadoulis Data & BI - MVP Nominee

Microsoft CERTIFIED AZURE FUNDAMENTALS

Microsoft 365 CERTIFIED TEAMS ADMINISTRATOR ASSOCIATE ★ ★

Microsoft TechNet





Panos Pateas Data Engineer & Bl







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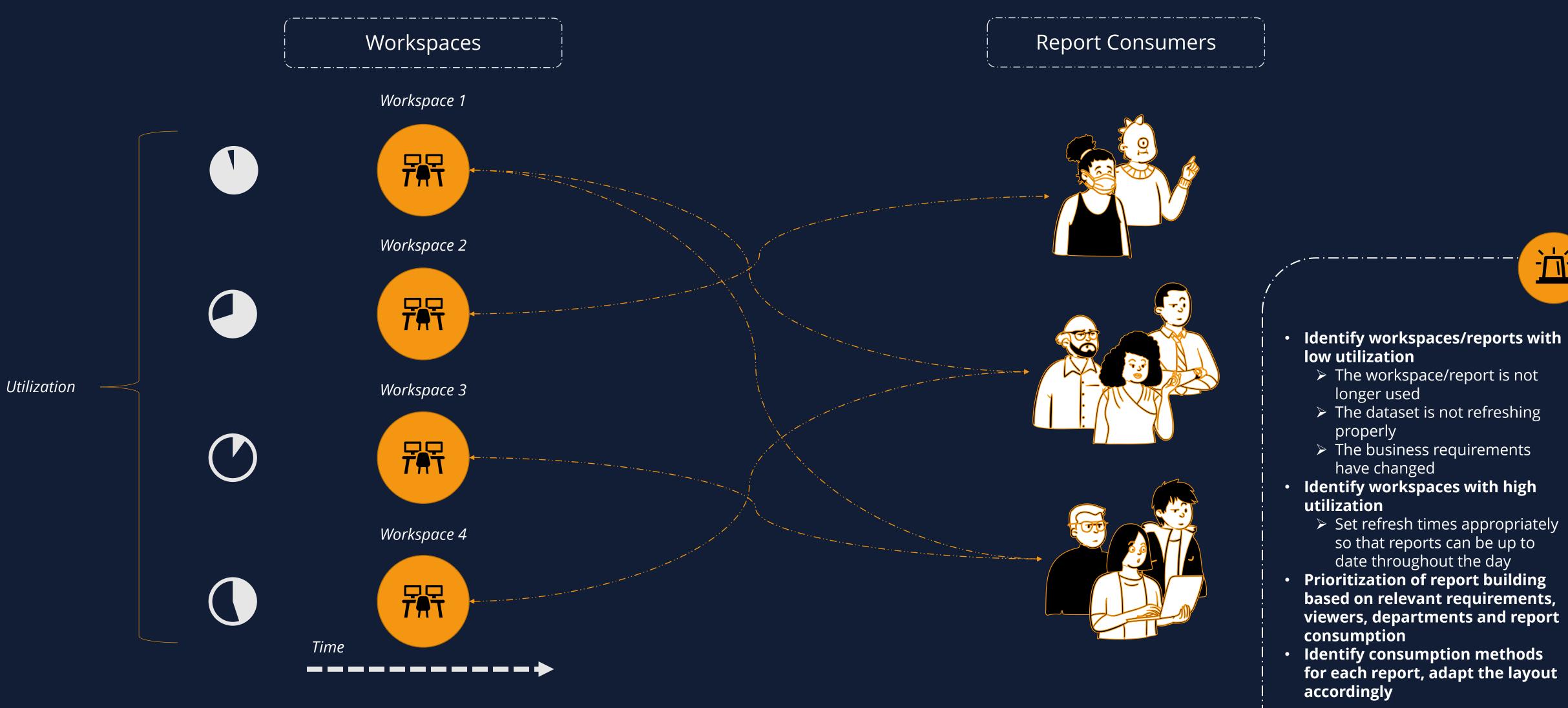
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Agenda

The Business Problem
 Our Approach (Synapse Architecture)
 Resources Overview
 Further Enhancements



The Business Problem





Our Approach



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Overview of Synapse Analytics & Power BI Rest Api



- Data Warehousing & Big Data Analytics
- Data Lake Gen2 as Storage Account
- Serverless/Dedicated Resources
- ETL/ELT
- Integration with other Azure Services



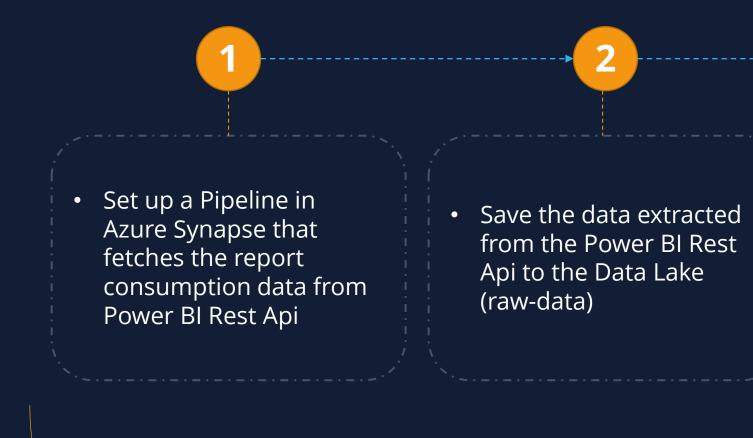
Power BI Rest Api



- Manage Power BI Content
- Perform Admin Operations
- Embed Power Bi Content



Architecture – High Level





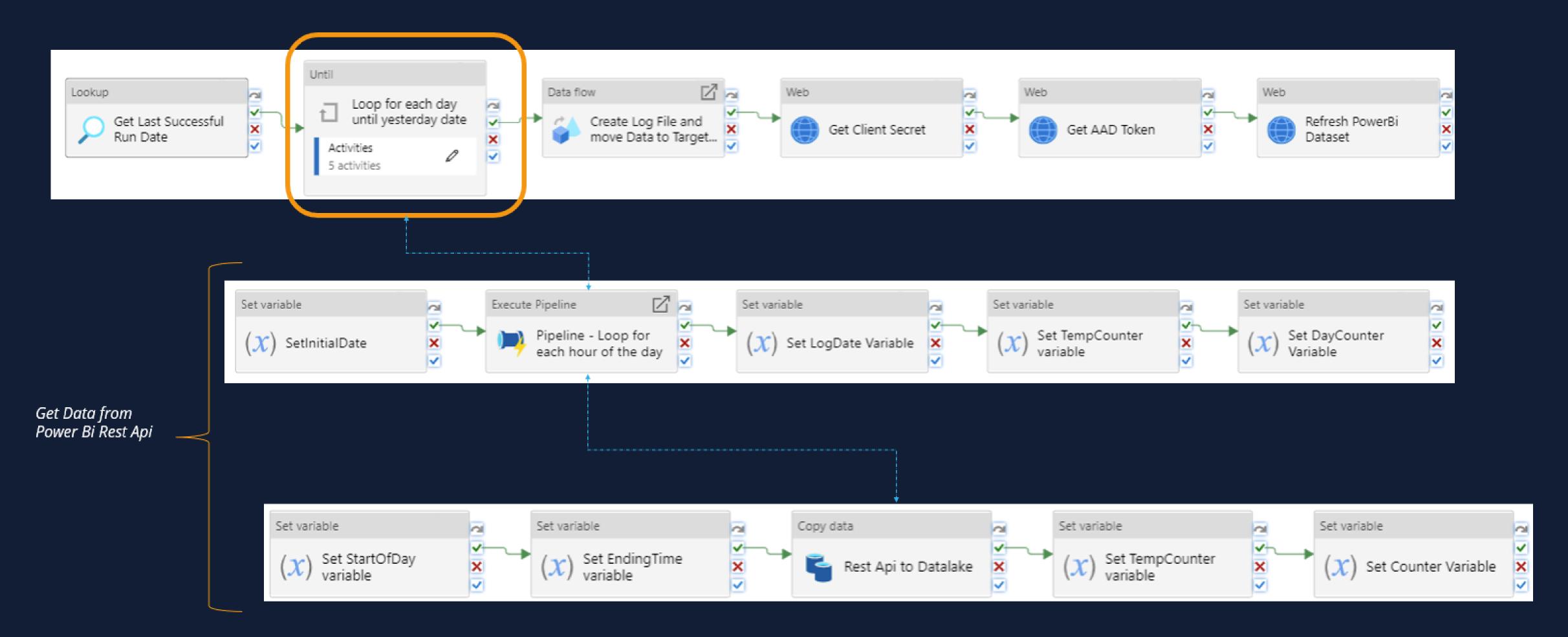
 Transform the data appropriately and transfer them to the target area (cleanseddata)

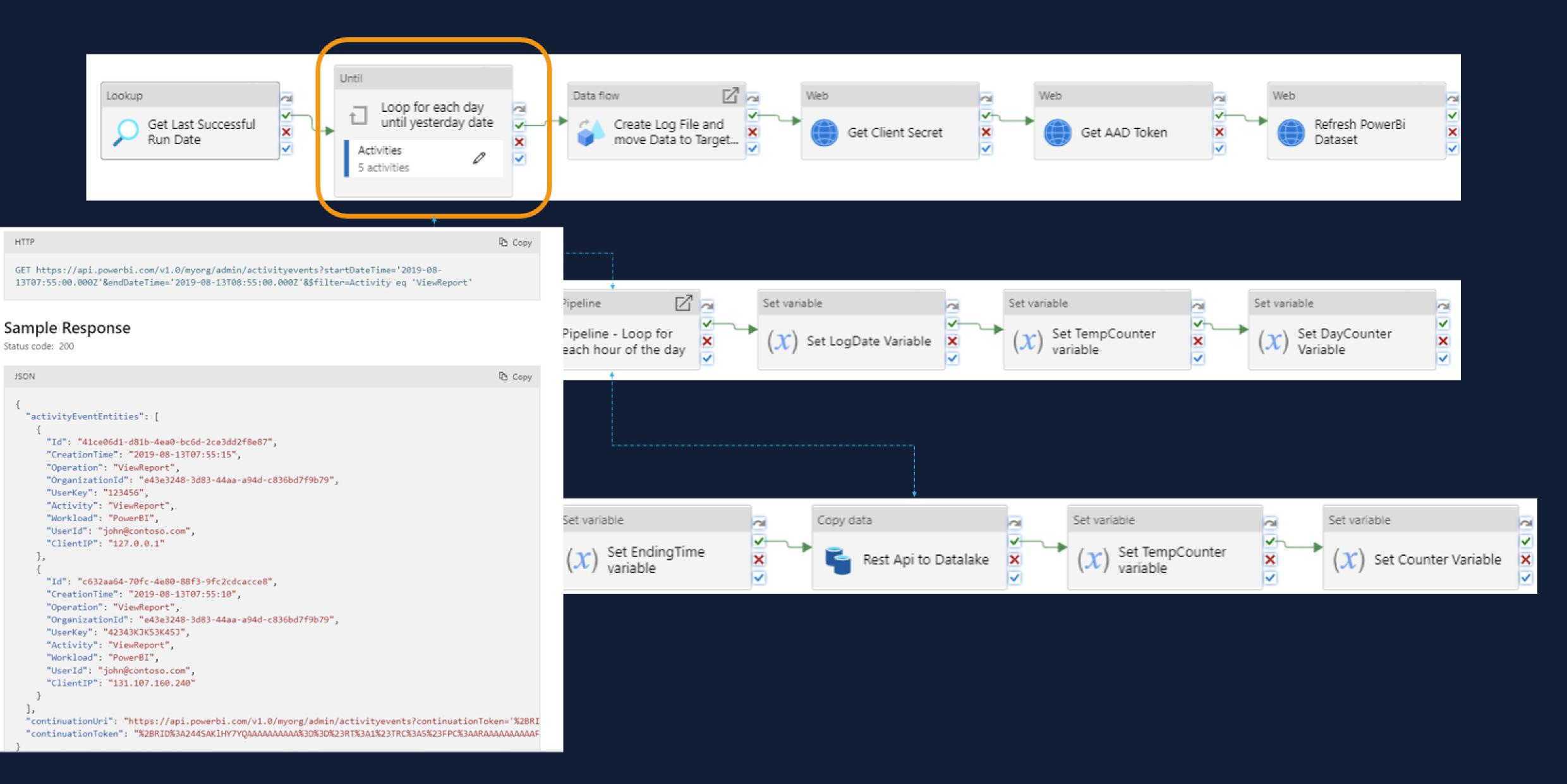
• Trigger the refresh of the Power BI report from Synapse, in order to get the most updated data

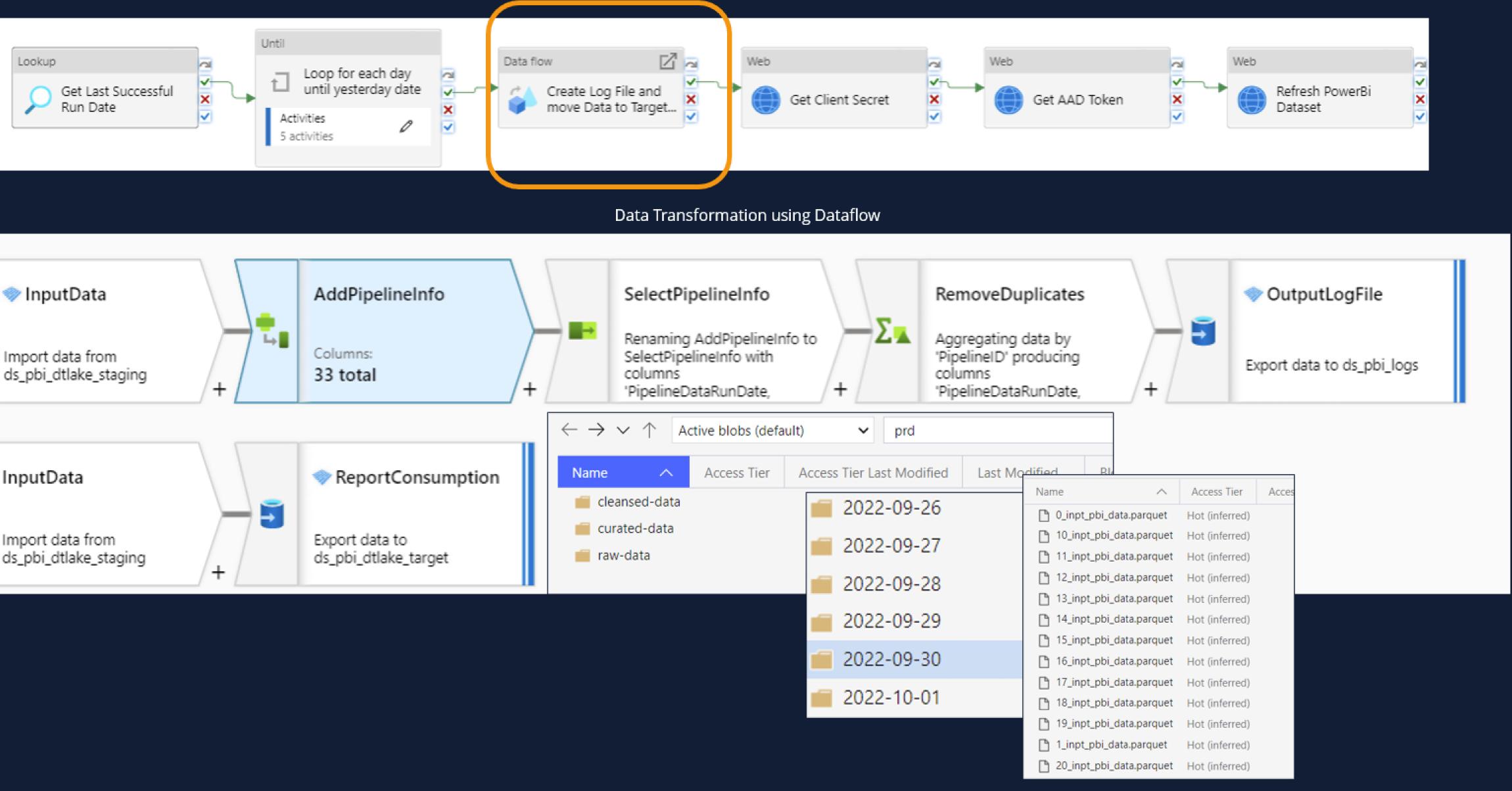
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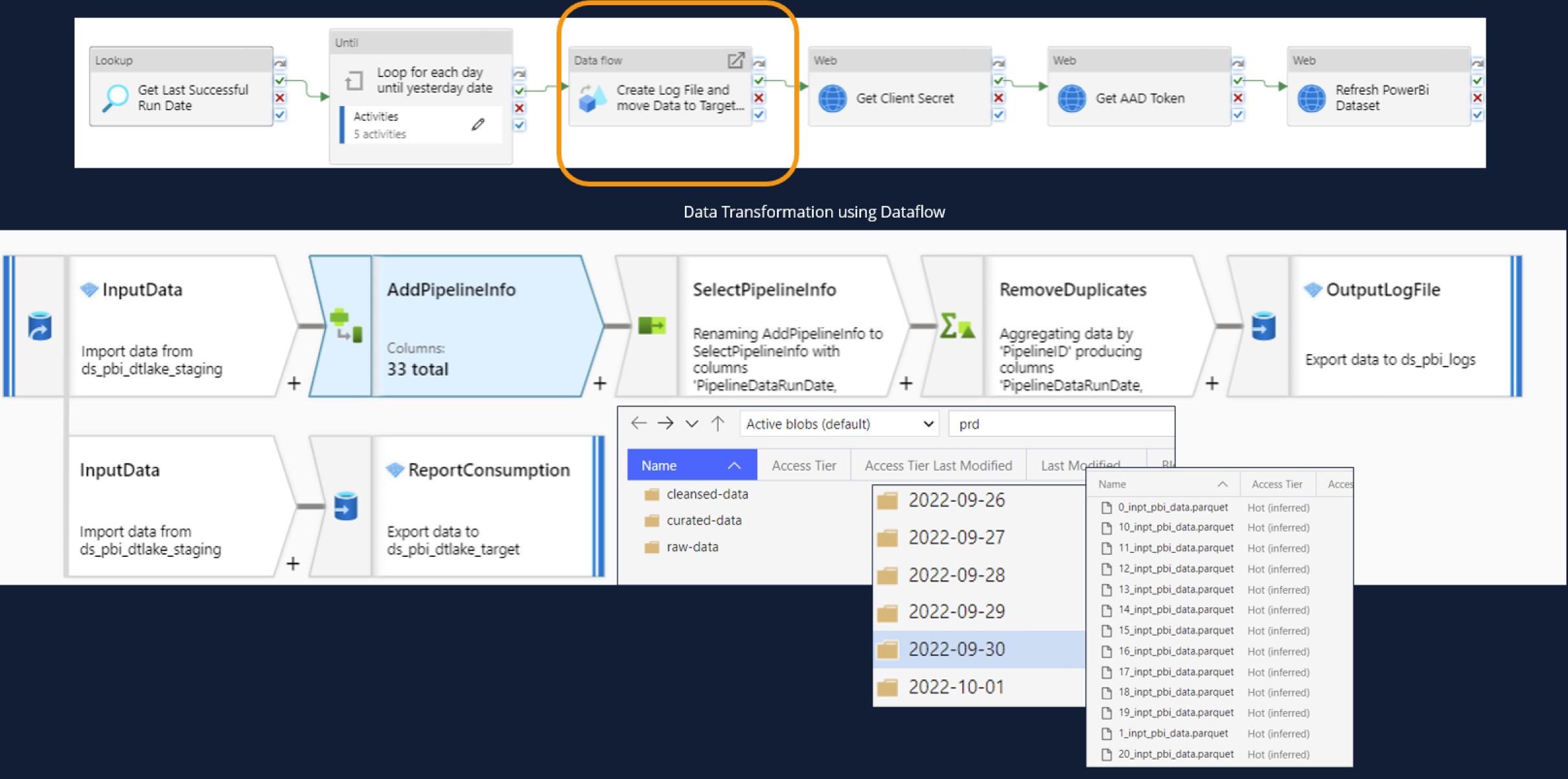


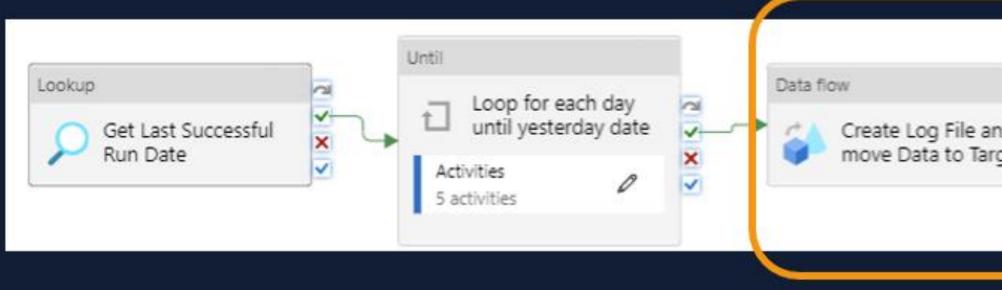




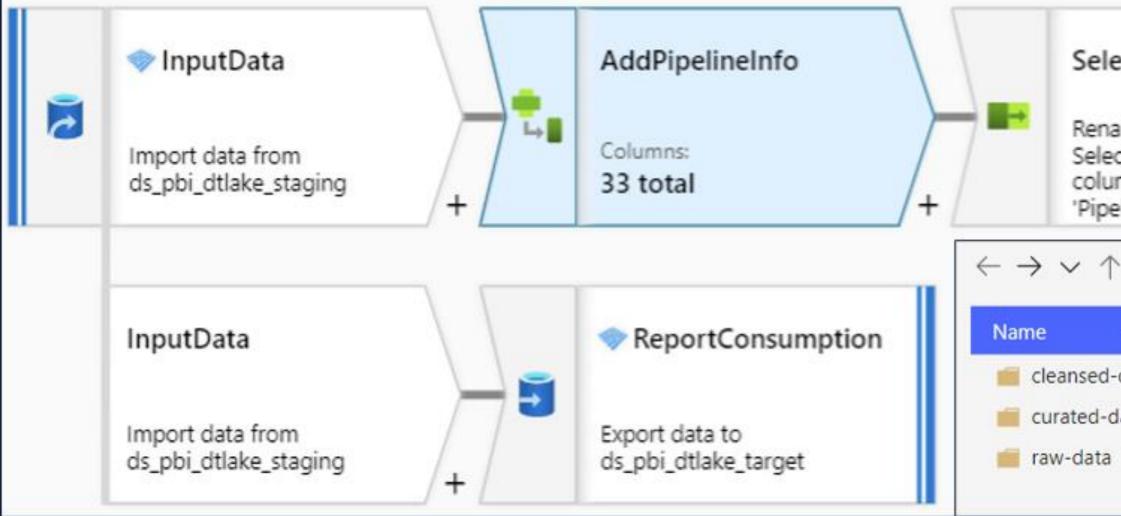






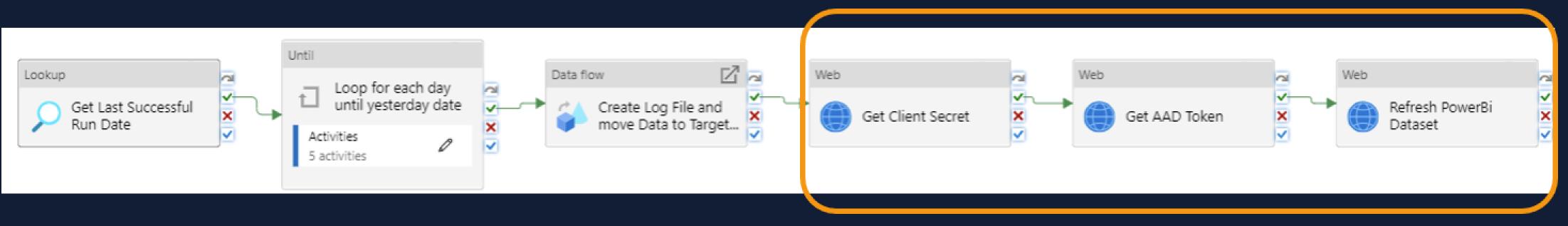


Data



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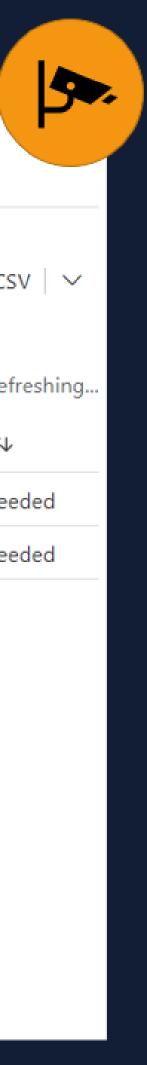


Leverage the functionality of SQL Serverless Pools in Synapse to query the data

Trigger Refresh of the Power BI Dataset using the Power Bi Rest Api

not to burden the productive system

~	Pipeline runs										
Analytics pools	Triggered Debug 🕞 Rerun 🚫 Can	cel options \checkmark \bigcirc Refresh $\equiv \equiv$	Edit columns List Gantt	\supset							
C Apache Spark pools	Filter by run ID or name										
Data Explorer pools (preview)	Triggered by : All Add filter	X									
Activities	Showing 1 - 2 items					Refre					
SQL requests	Pipeline name ↑↓	Run start ↑↓	Run end ↑↓	Duration	Triggered by	Status ↑↓					
KQL requests	pl_extract_pbi_activity_events	5/1/2023, 1:00:01 AM	5/1/2023, 3:18:53 AM	02:18:52	trigger_every_15_days	Succeed					
Ex Apache Spark applications	pl_extract_pbi_activity_events	4/16/2023, 1:00:01 AM	4/16/2023, 3:21:22 AM	02:21:20	trigger_every_15_days	Succeed					
Data flow debug											
Integration											
መን Pipeline runs											
Integration runtimes											
Link connections											



Resources Overview



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Further Enhancements



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Enhancement 1



Power Automate, once each month sends out an aggregated excel file for the underutilized areas



usage_report_04-10-2022.csv 🗸 9 KB

Please find attached the underutilization report for data from date 2022-06-01 until date 2022-10-01.

<u>Rules</u>

lower than 5.

For more information please refer to PowerBI Usage Monitoring Report .

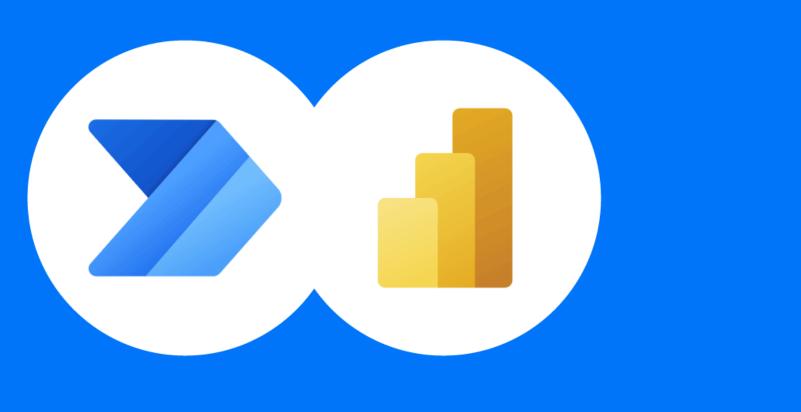


The report does not include Personal Workspaces and takes into account only the Workspaces that have distinct number of viewers equal or

Enhancement 2

- Include idle Reports and Workspaces in the Data Collection pipeline
- Leverage Power Automate visual in Power BI, to send a notification to idle Reports/Workspaces owners about potential deletion

Power Automate Visual in Power Bl





Thank You!! O(A)

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