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# Power BI dataflows: building your own refresh orchestration

Ben Watt



**Ben Watt**



## At your Service!

- Managing Director at Datalineo
- Microsoft MVP Data Platform
- Power BI, SQL/Azure/Power Platform
- Events & User Group
  - Dublin Power BI UG Leader
  - Data Ceili June 2024



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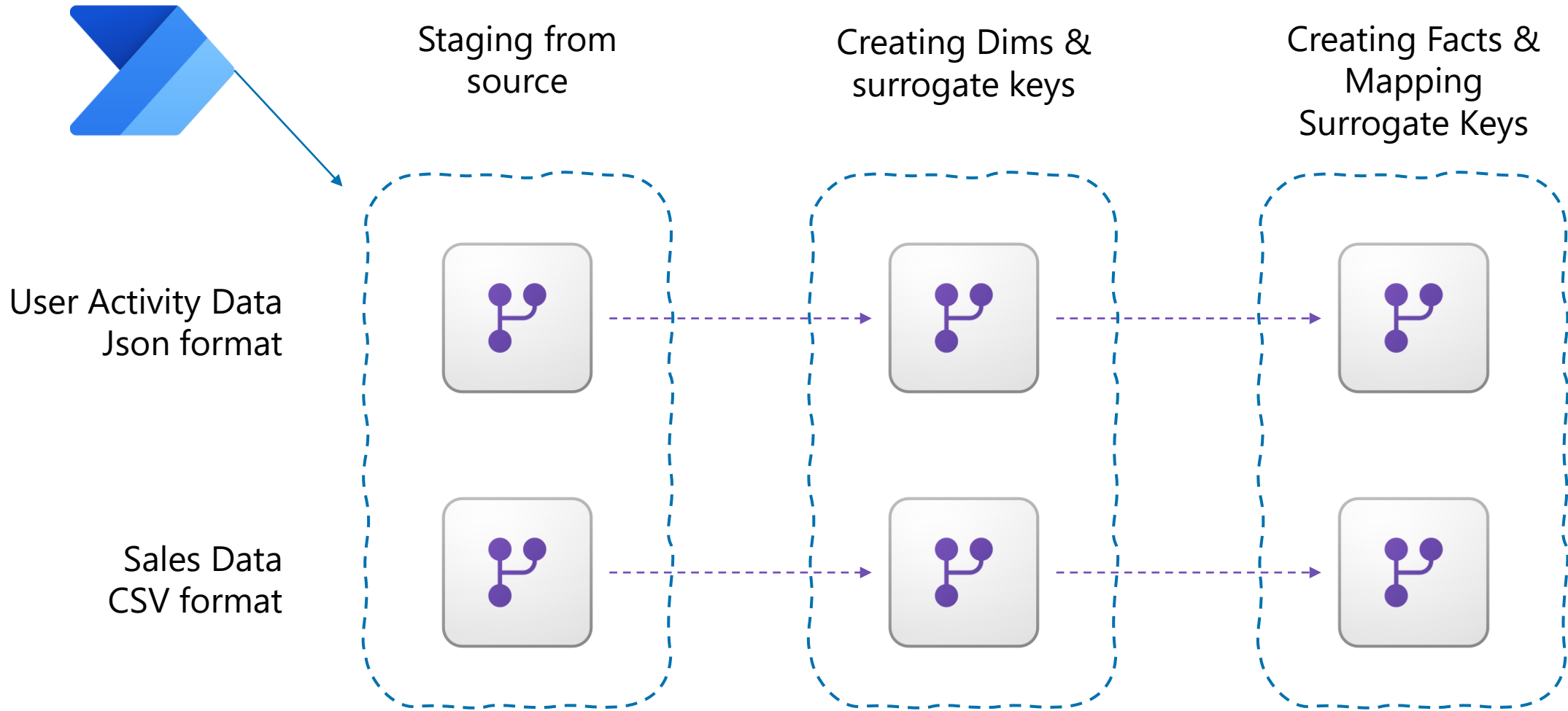


/benonline

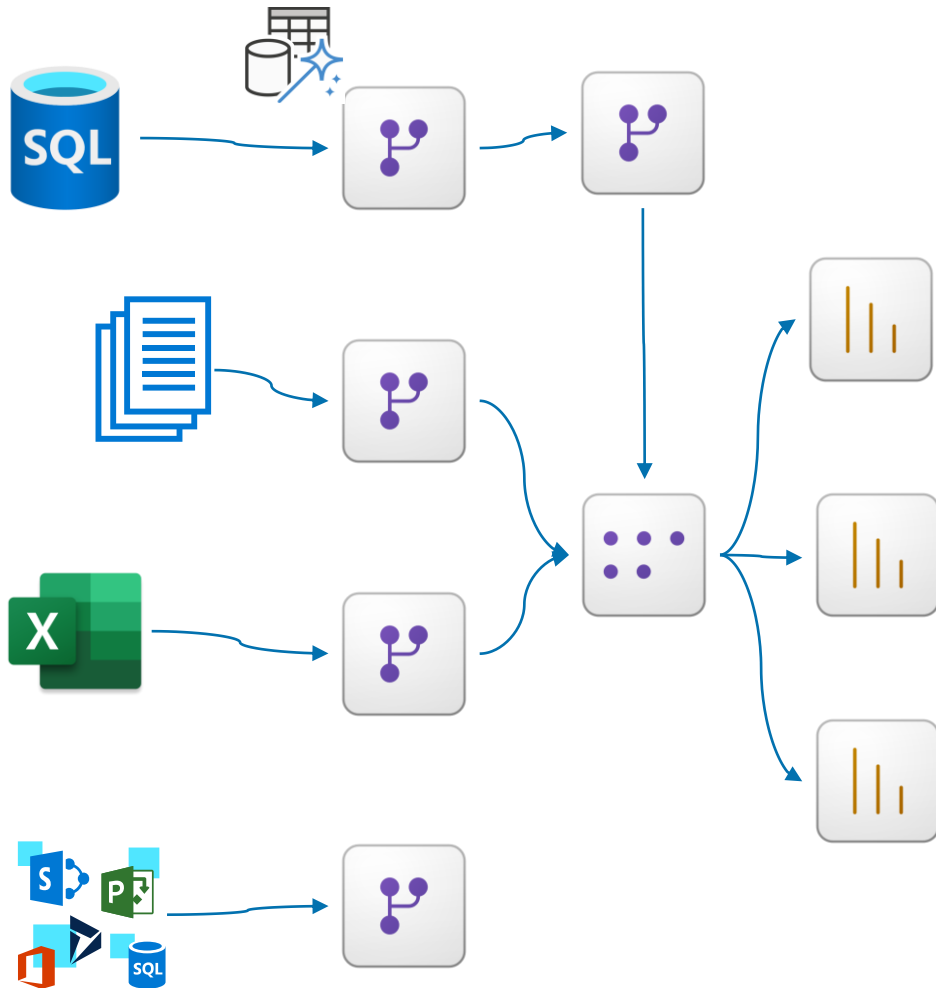


## Agenda

- **Demo:** the required outcome
- Dataflows: quick intro & scheduling
- BYO Orchestration
- But wait...
  - ECE
  - Fabric



# Dataflows in a few seconds



## Dataflows

- ❖ Data load and transformation
- ❖ Combine various sources
- ❖ User-level ETL
- ❖ Centralise and Share
- ❖ Dataflow + Table(s)
- ❖ ECE & Incremental Refresh

## Scheduling

- ❖ Frequency, time of day
- ❖ No dependency/orchestration

Refresh

Configure a refresh schedule

Define a data refresh schedule to import data

☒ On

Refresh frequency

Daily

Weekly

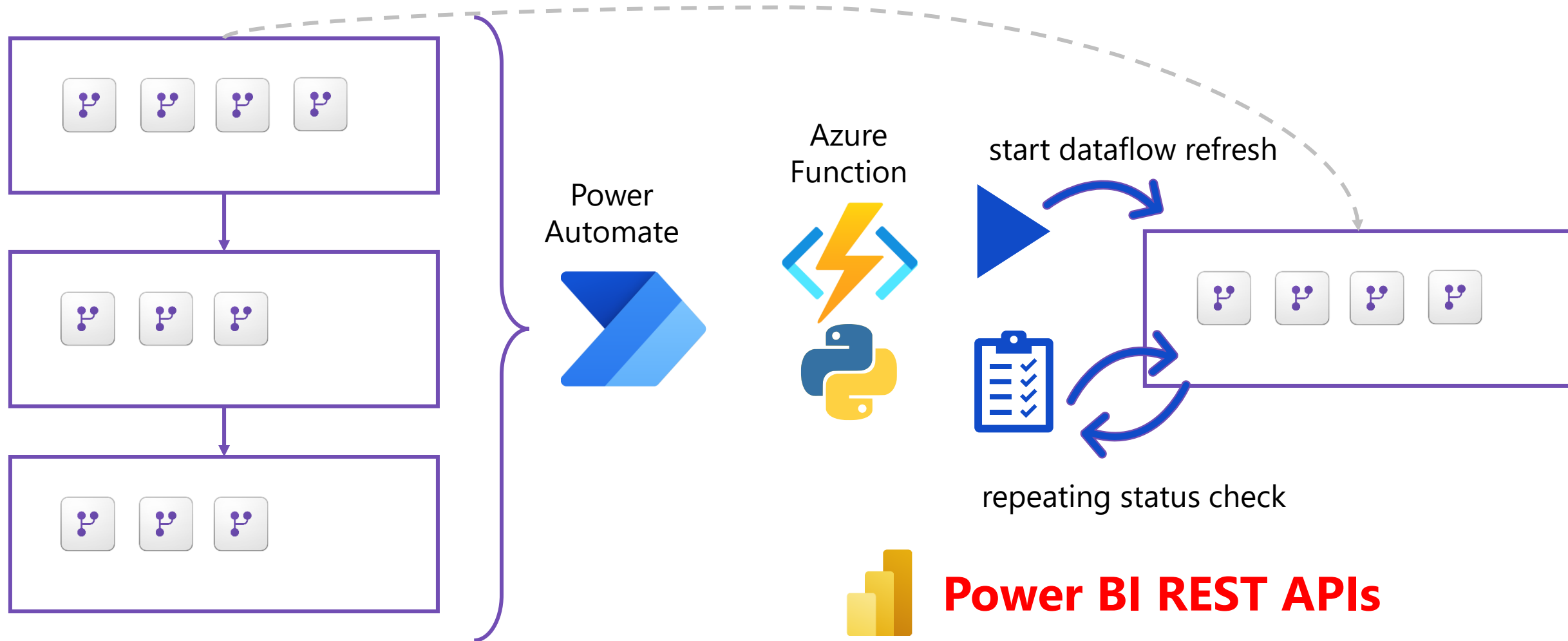
Daily

(UTC) Coordinated Universal Time

Time

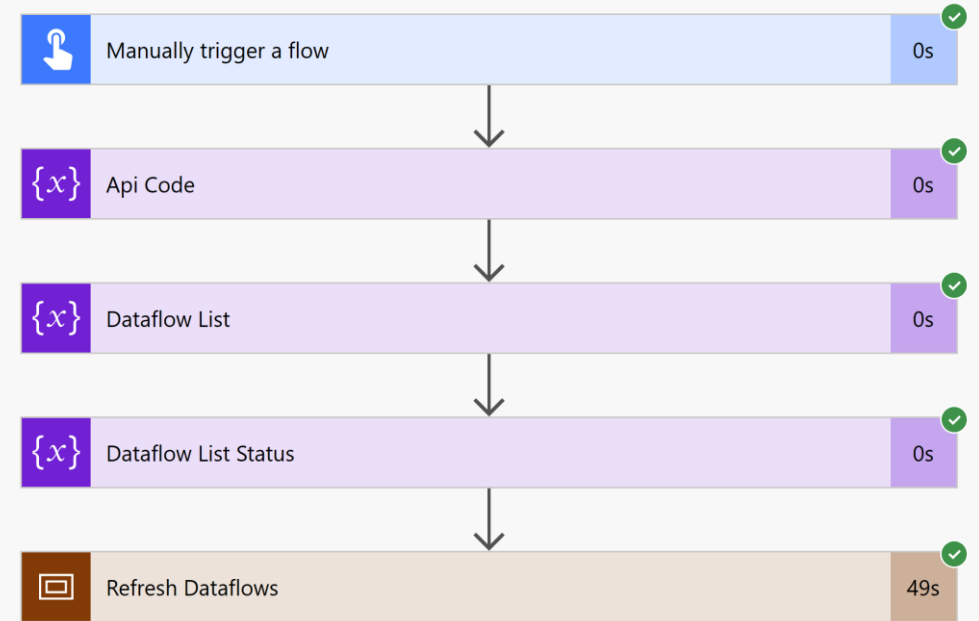
[Add another time](#)

# The moving parts and the process

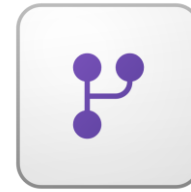




```
# -----  
# Loop through the refresh list and start the refresh process  
# -----  
  
for x in refresh_list['dataflows']:  
    dataflow_name = x['name']  
    dataflow_workspace_guid = x['workspace']  
    dataflow_guid = x['dataflow']  
  
    endpoint = f'https://api.powerbi.com/v1.0/myorg/groups/{dataflow_workspace_guid}/dataflows/{dataflow_guid}'  
  
    response = requests.post(url=endpoint, headers=header, data=json.dumps({'name': dataflow_name}))  
  
    response_list.append(x)  
  
return_message = json.dumps({'status': 'success', 'results': response_list})
```



Enhanced  
Compute  
Engine



Fabric





<https://sqlb.it/?12597>

## Questions

Checkbox

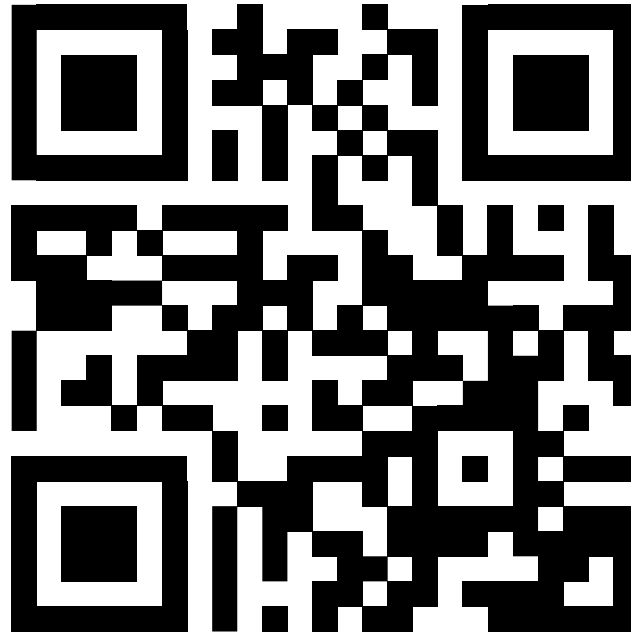
- In-Person, Virtual

### Rating 1-9

- Knowledge of the subject area
- Speaker presentation skills
- Quality of demos
- Accuracy of session abstract
- Were your expectations met
- Overall performance of the session

### Text Feedback

- Any other constructive feedback
- Your Name
- Your Email



## Contact & Code



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