3* ways to bring Power BI under Source Control

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Who is this session for?

Power BI Admins

Business Users

Managers

Developers/ IT

Business Analysts

Data Consumers

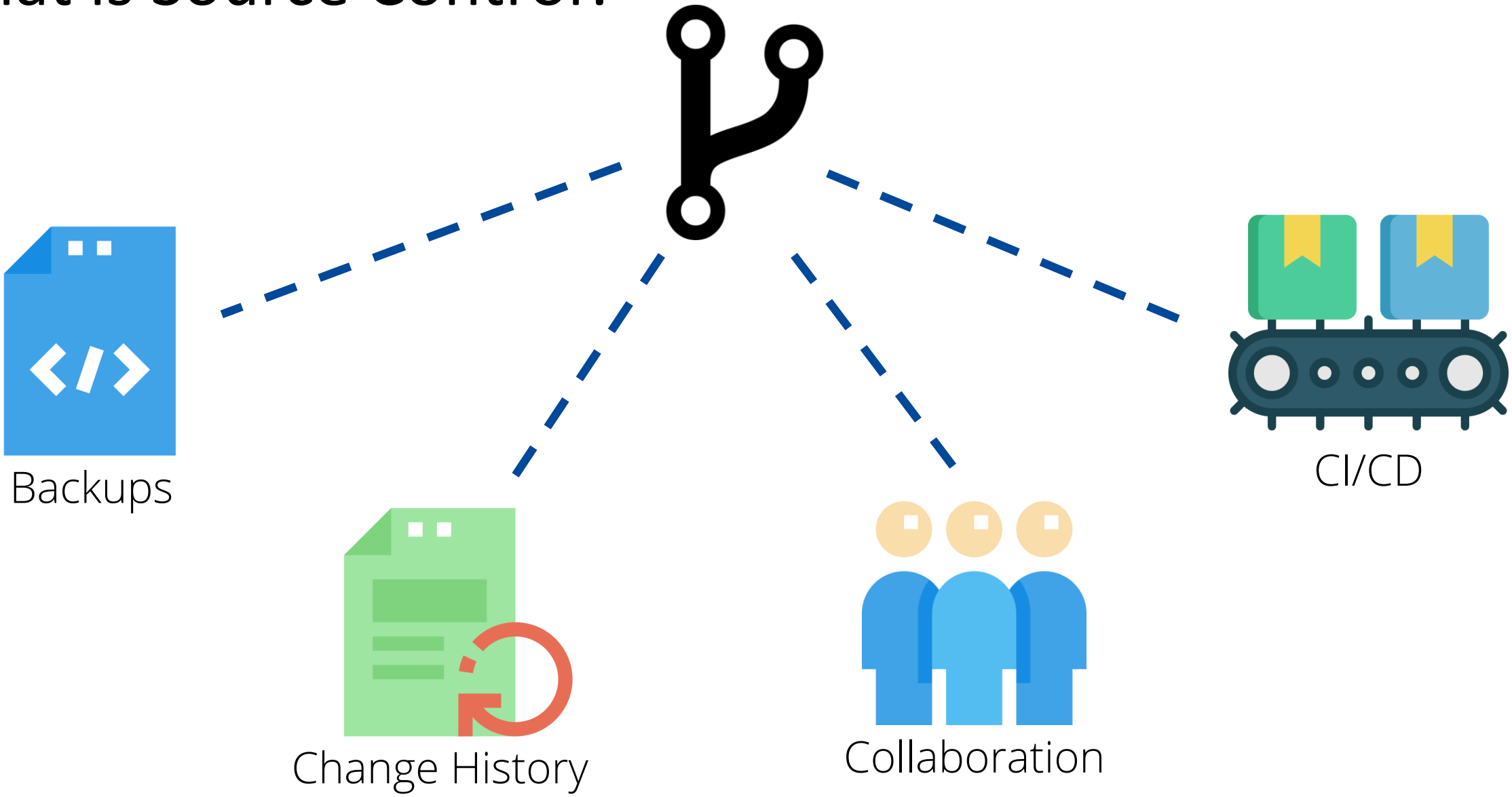
Data Owners

- What is Source Control?
- Why is it relevant?
- How does it work with Power BI?
- What are the options?

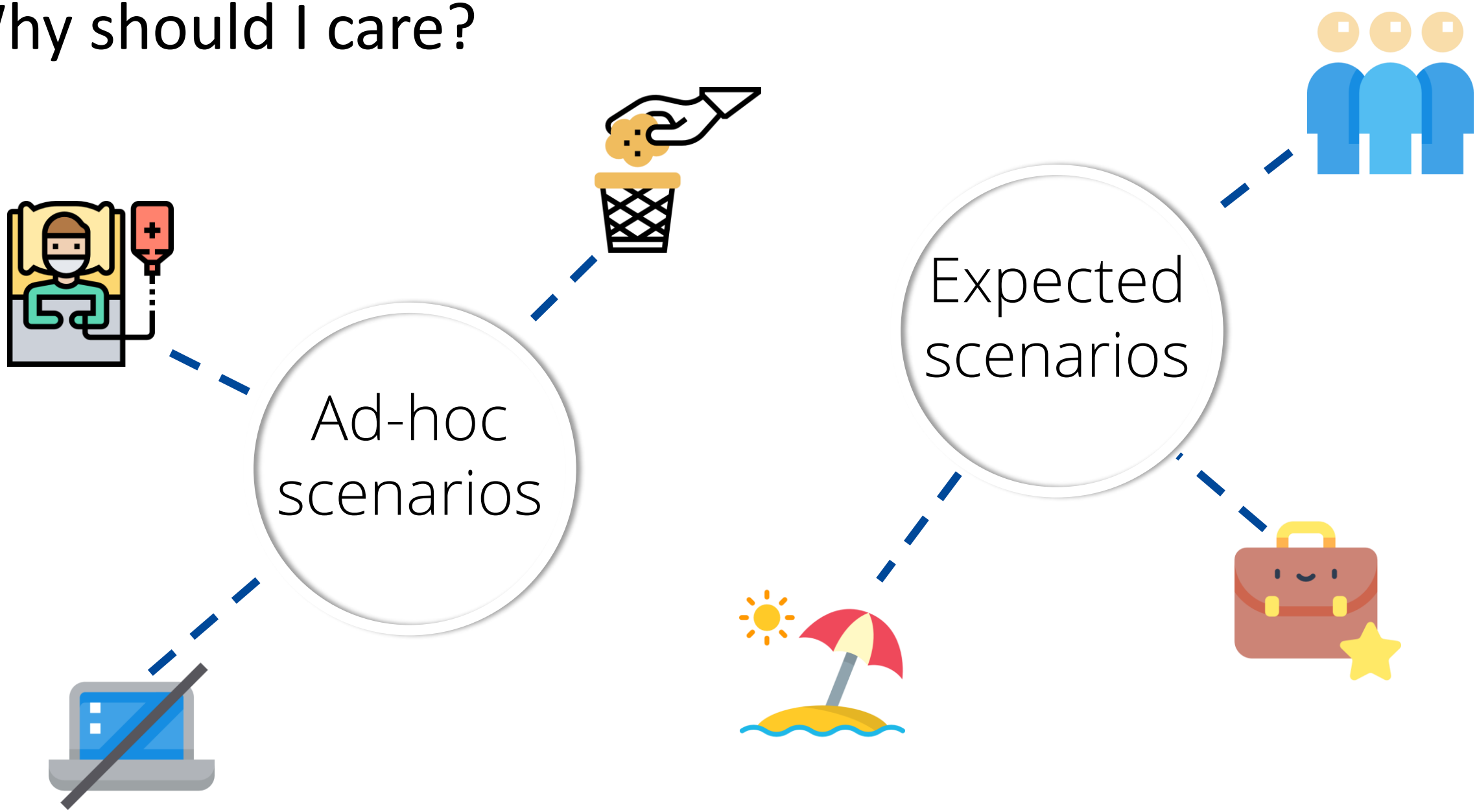
What is Source Control?

Also known as revision control or version control, is **the management of changes** to documents, computer programs, large websites, and other collections of information.

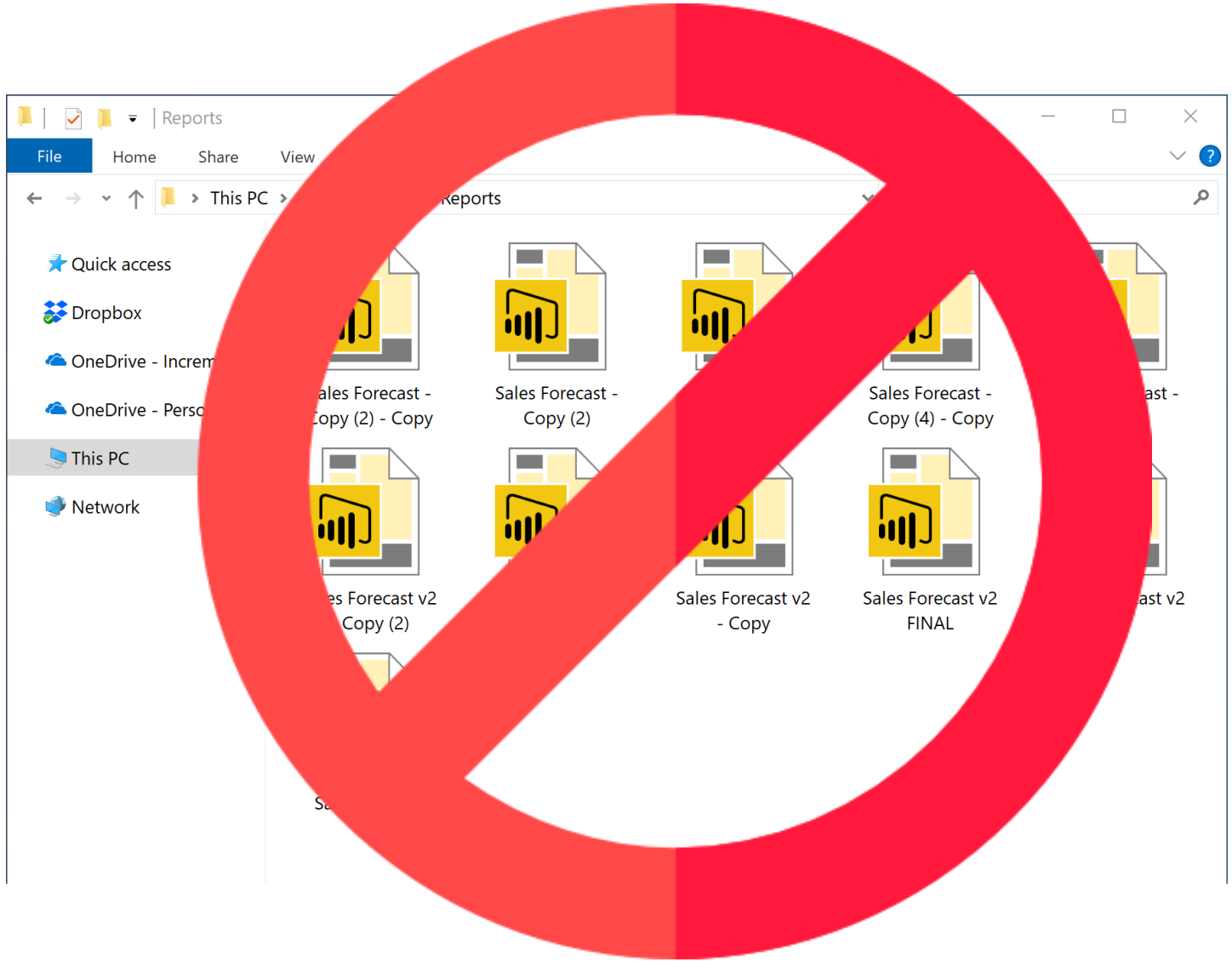
What is Source Control?



Why should I care?



DIY Source Control



Power BI Under Source Control

Why it doesn't work with Power BI

May not know or care about Source Control.

Don't have control over all deployed content.

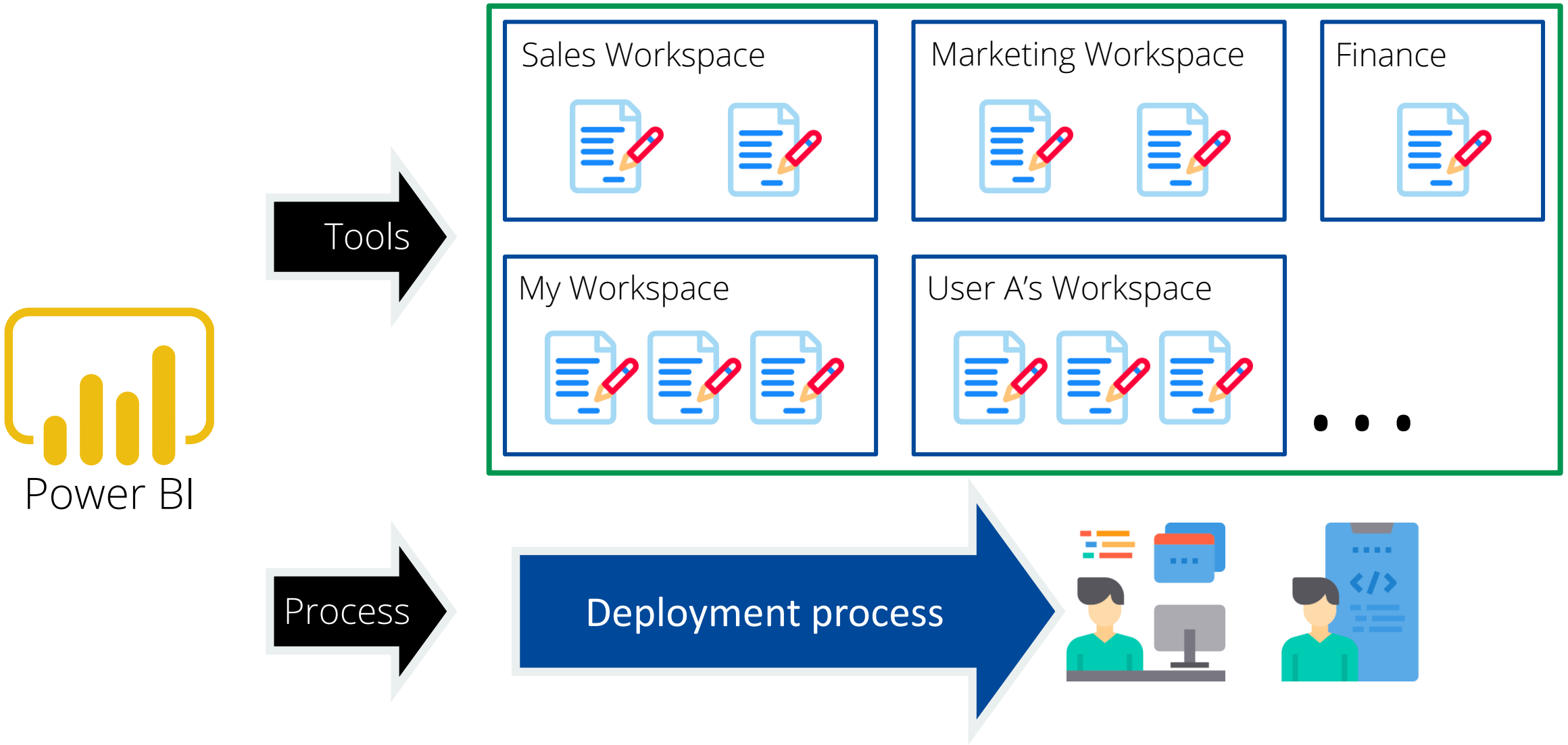
Business Users

Power BI

Developers/ IT

No source control management built-in

What can we do?



How do we do it?

Cloud Storage

Power Automate

PowerShell

Business User → Developer / Programmer

Cloud Storage

Not real Source Control

File version history

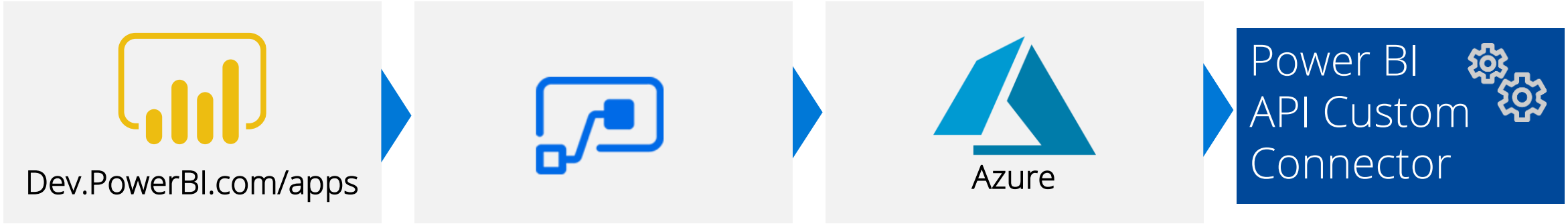
Backup silos

Automatic deployment of datasets and reports

*On Power BI Workspace OneDrive. Must be set up manually with v2 workspaces

Cloud Storage Demo

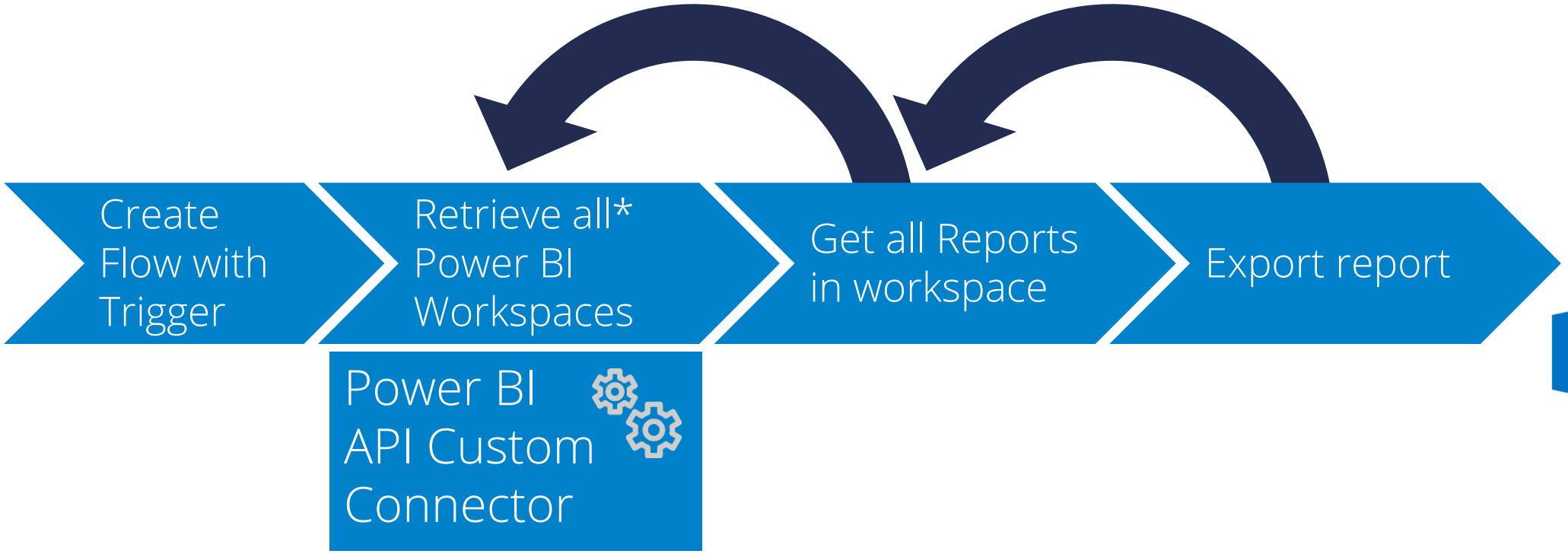
Microsoft Power Automate Setup



Flow Custom Connector:
Ida Bergum
https://www.idabergumdata.com/

Using Power Automate

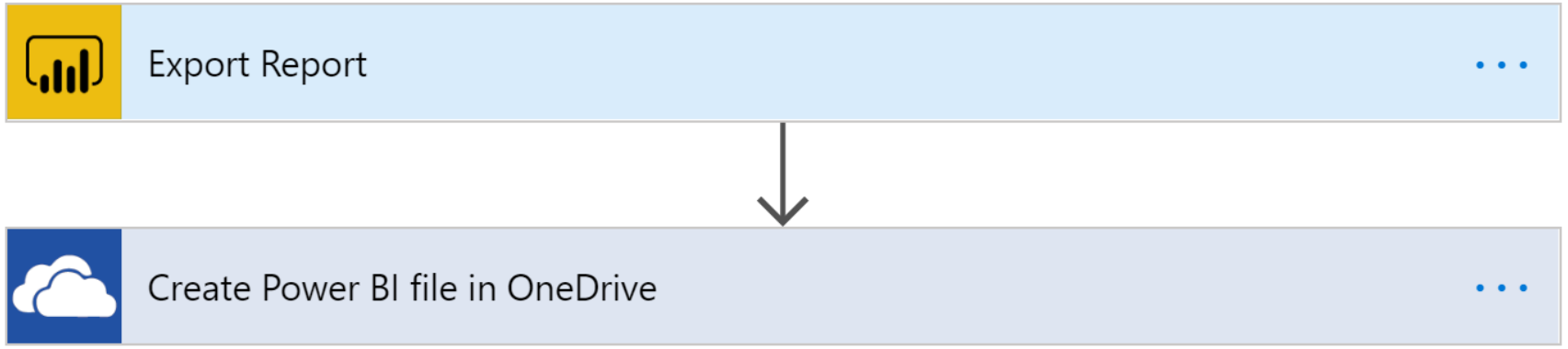
*Works best using a Power BI Administrator



OneDrive

SharePoint Online

Etc...

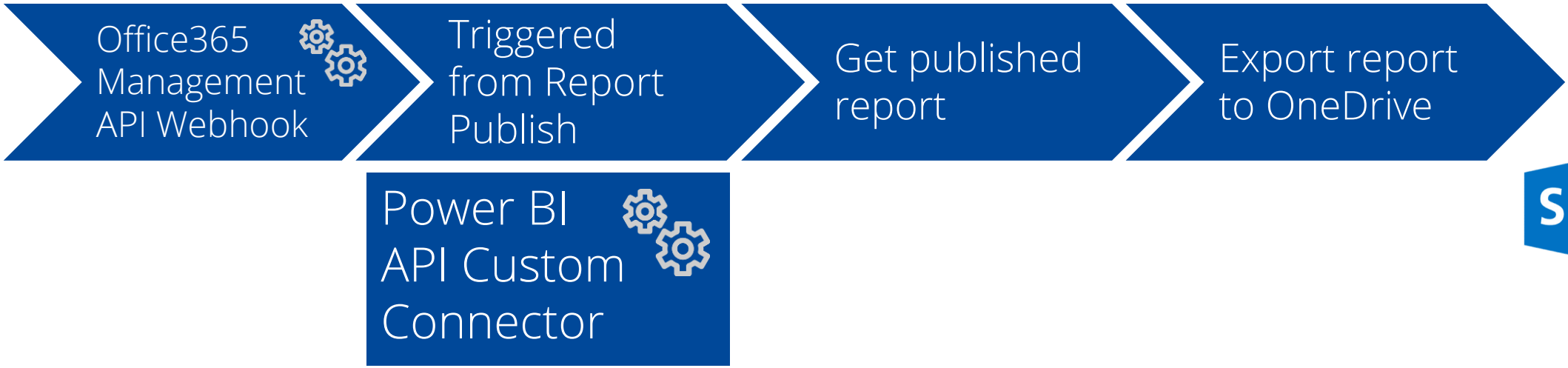


Power Automate Demo

At scale

*Must use a Power BI Administrator

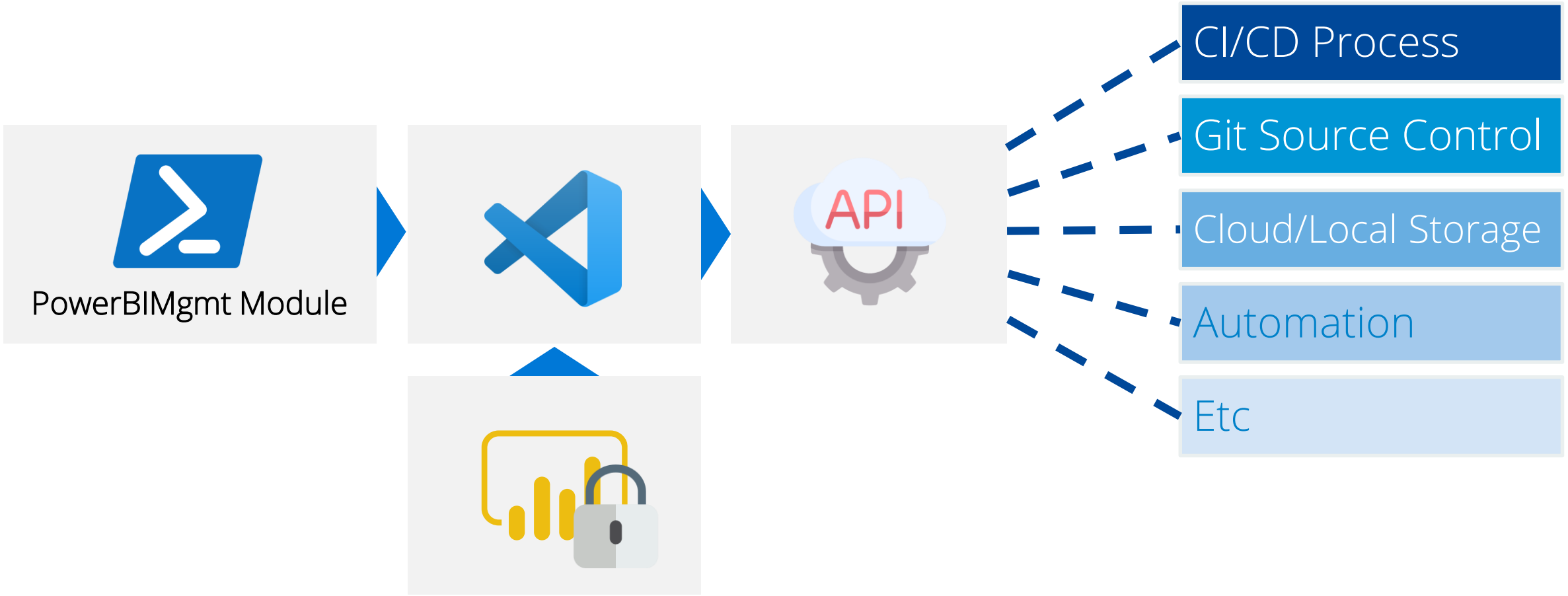
... x1000+ ?



Steve Howard - Microsoft Flow with O365 Mgmt API Webhook
http://angryanalyticsblog.azurewebsites.net/index.php/2019/06/01/power-bi-governance-approvereject-all-dataset-creation-in-your-tenant/

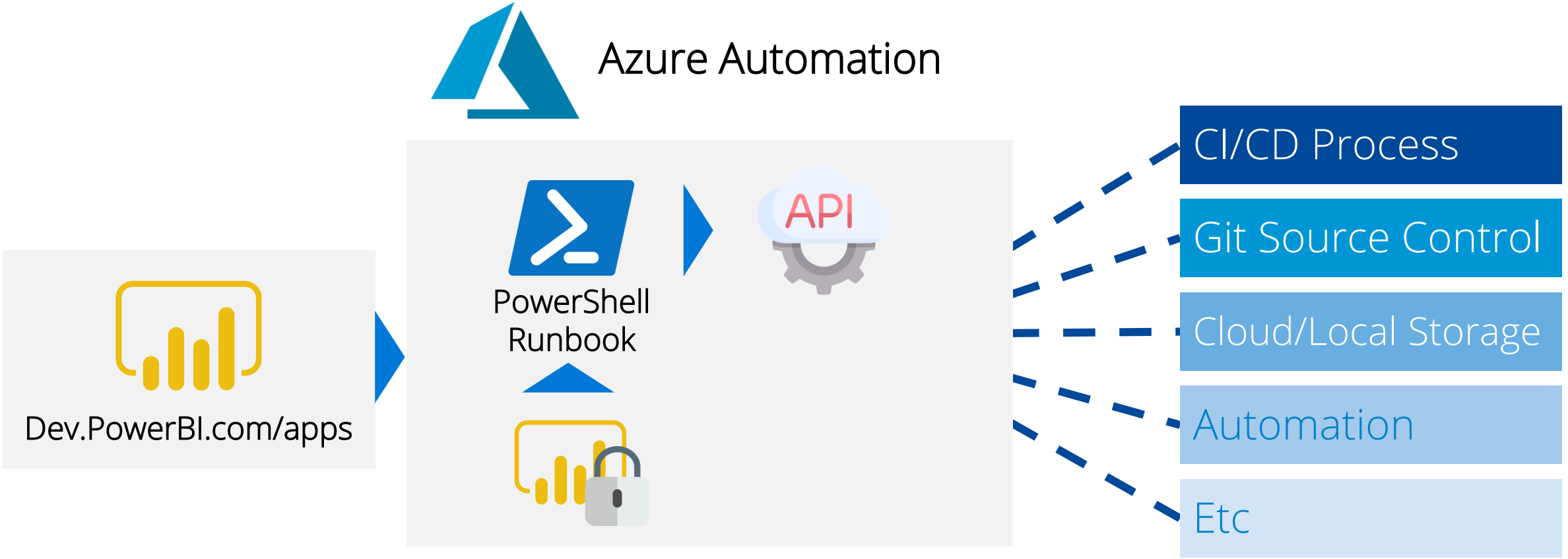
Power Automate Webhook Demo

PowerShell


PowerBIMgmt Module
API
CI/CD Process
Git Source Control
Cloud/Local Storage
Automation
Etc

PowerShell Demo

Automating PowerShell



Craig Porteous – REST API Automation with PowerShell and Azure https://craigporteous.com/rest-api-automation-with-powershell-in-azure/

Cloud Storage

Simple

Easy to implement

*Power BI integration

Not true Source Control

Not Enterprise solution

Requires user process

Power Automate

Easy to use

Powerful

Many more capabilities

Initial setup difficult

Load restrictions

Could be easier

PowerShell

Versatile

Most powerful

Full capabilities of API

PS knowledge needed

Power BI Admin perms provide best results

Business User → Developer / Programmer

Power BI Sentinel

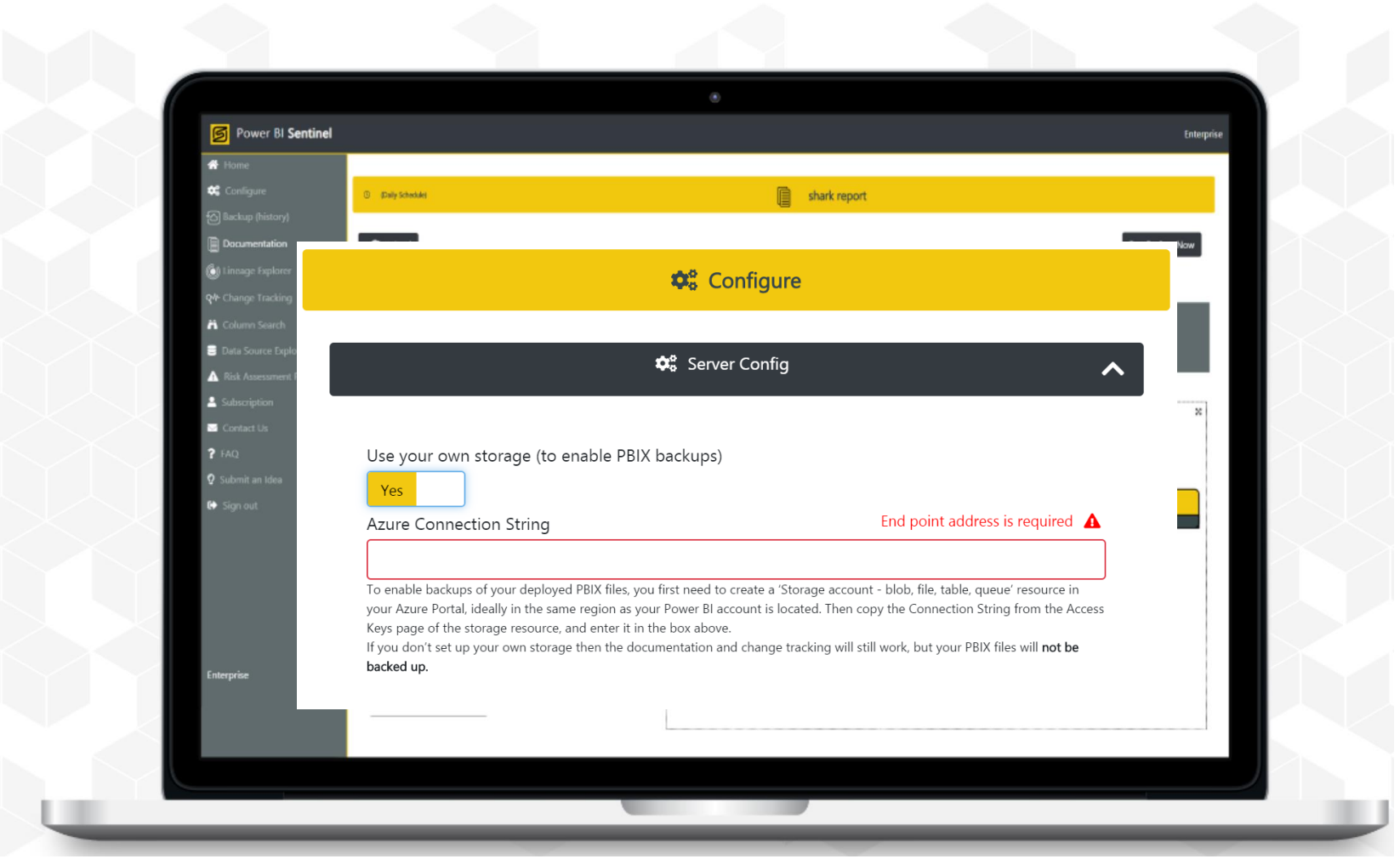
Power BI Sentinel

Easy to use

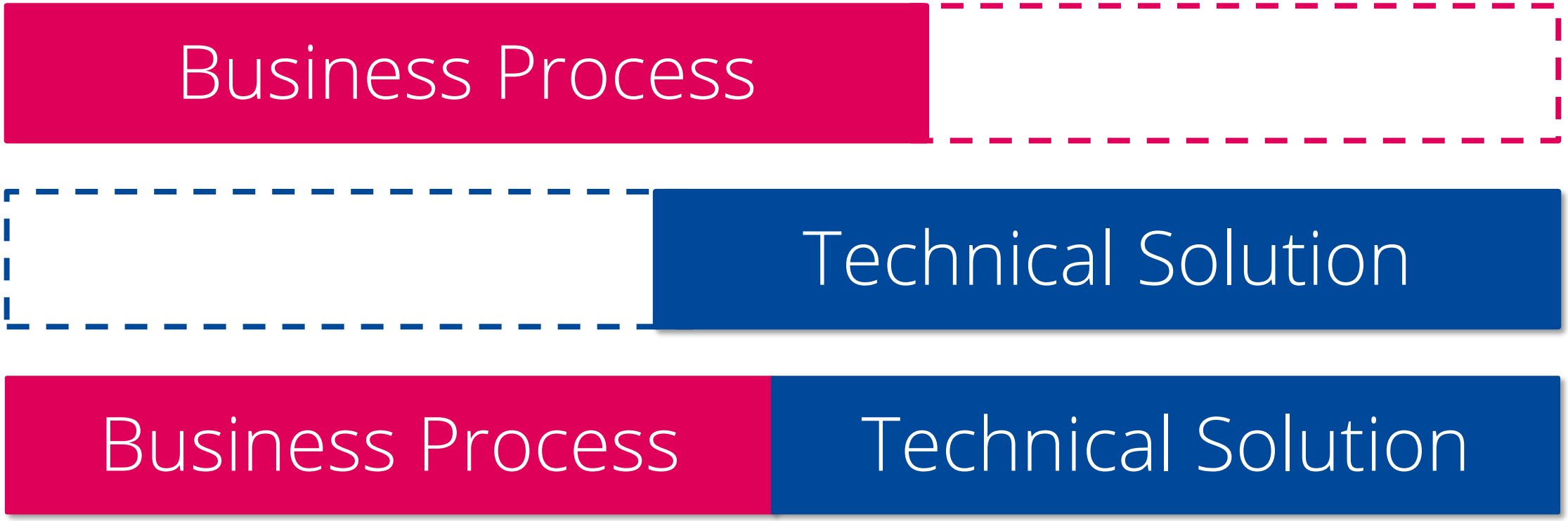
Extensive features

Only way to do change tracking

Paid solution



There is no golden bullet



Thank You

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