



## Craig Porteous

Senior Data Engineer @ Incremental Group

Worked with Data and the Microsoft stack for more than 10 years.

SQL Glasgow UG co-leader. DATA:Scotland Founder. Microsoft Data Platform MVP



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#### Who is this session for?



Power BI Admins

Managers



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?





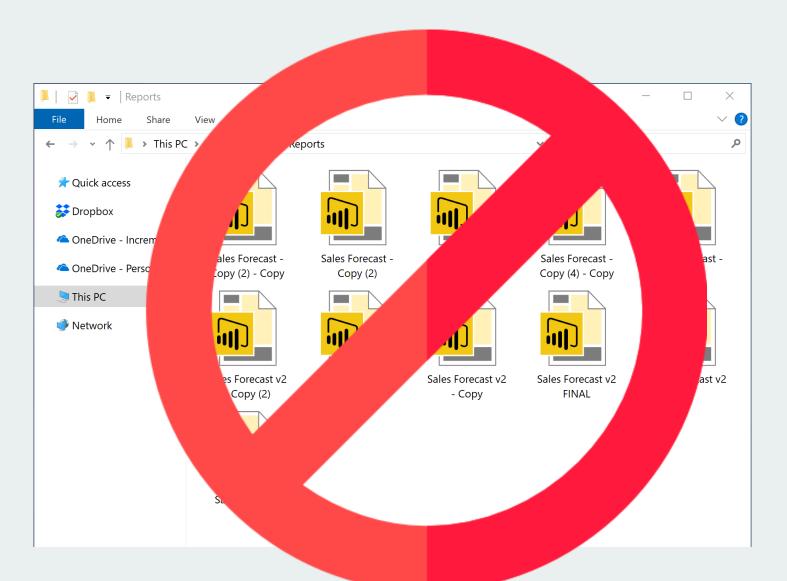


also known as revision control or version control, is the management of changes to documents, computer programs, large web sites, and other collections of information.

## What is Source Control? CI/CD Backups Collaboration Change History

# Why should I care? Expected Scenarios Ad-hoc Scenarios

#### DIY Source Control





## Why it doesn't work with Power BI

May not know or care about Source Control.

Don't have control over <u>all</u> deployed content.

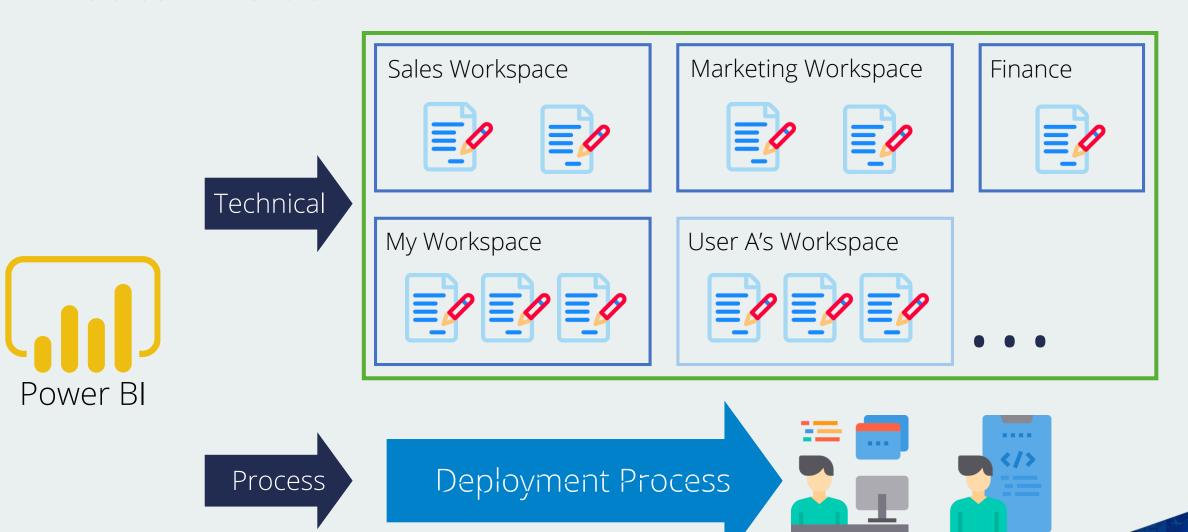






No source control management built-in

#### What can we do?



#### How do we do it?

Cloud Storage



Microsoft Flow

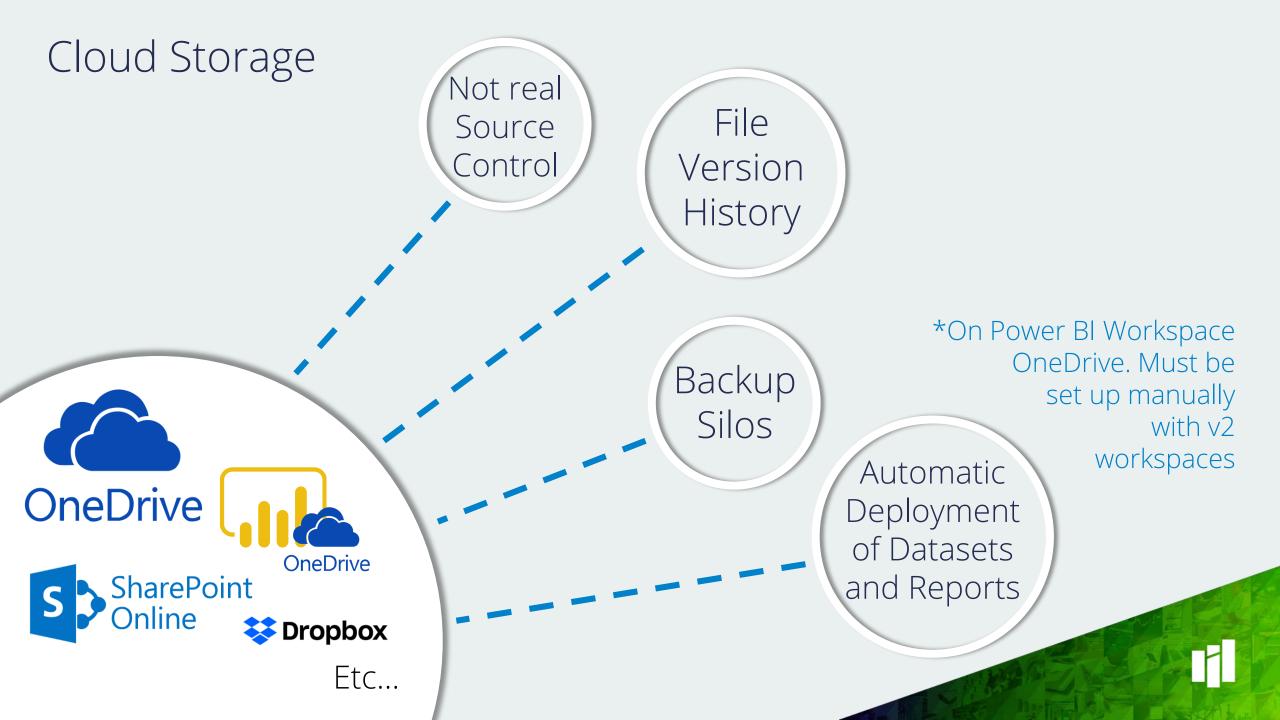


PowerShell



**Business User** 

Developer / Programmer





### Microsoft Flow Setup









Flow Custom Connector: Ida Bergum <a href="https://www.idabergumdata.com/">https://www.idabergumdata.com/</a>

#### \*Works best using a Using Microsoft Flow Power BI Administrator OneDrive Retrieve all\* Create Get all Reports Flow with Export report Power BI in workspace Workspaces Trigger SharePoint Power BI **API Custom** Connector Etc... **Export Report** • • • Create Power BI file in OneDrive



At Scale?

\*Must use a Power BI Administrator



Office365

Management

API Webhook

Triggered from Report Publish

Get Published report

Export report to OneDrive



S SharePoint Online

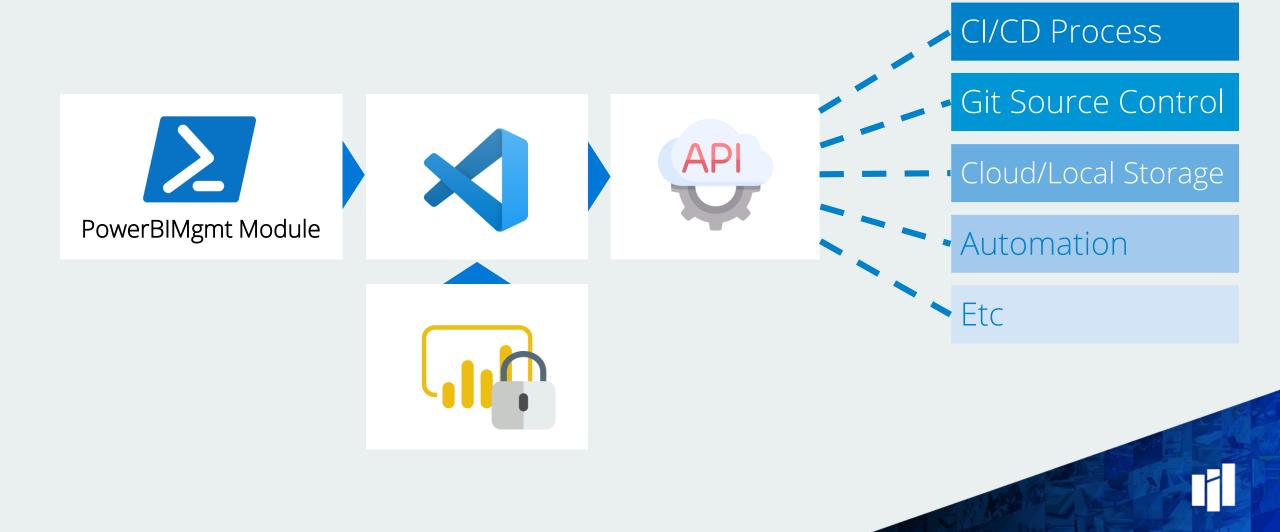
Etc...

Power BI API Custom Connector

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

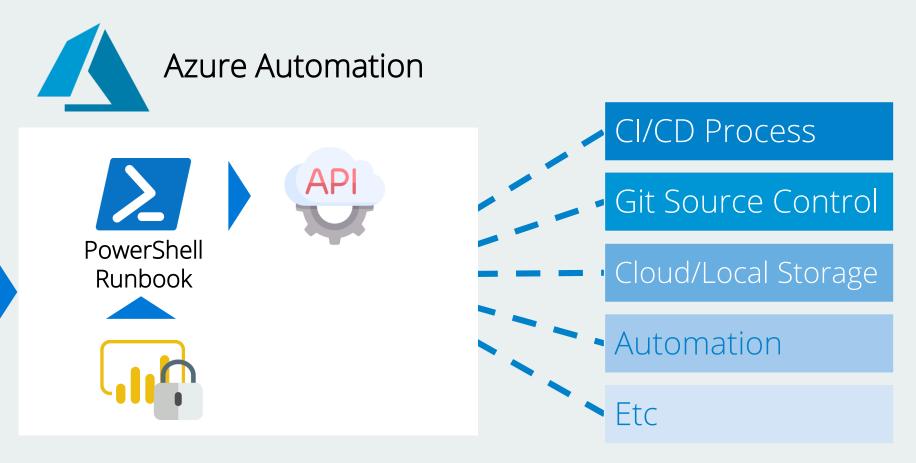


#### PowerShell





## Automating PowerShell





Craig Porteous – REST API Automation with PowerShell and Azure <a href="https://craigporteous.com/rest-api-automation-with-powershell-in-azure/">https://craigporteous.com/rest-api-automation-with-powershell-in-azure/</a>

#### Cloud Storage



Simple

Easy to Implement

\*Power BI integration

Not true Source Control

Not Enterprise solution

Requires user process

#### Microsoft Flow



Easy to use

Powerful

Many more capabilities

Initial setup difficult

**Functional Limitations** 

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 Bl Sentinel

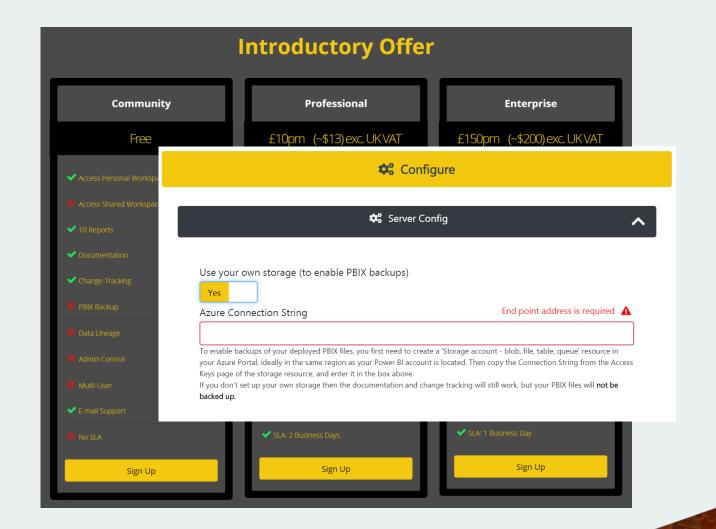


Easy to use

Extensive features

Only way to do Change Tracking

Paid Solution



## There is no golden bullet

## Business Process

Technical Solution

Business Process

Technical Solution



Session Feedback Day 2 (not optional!)

http://bit.ly/DataGrillen2019Day2



Event Feedback (not optional!)

http://bit.ly/DataGrillen2019Event\_

