

The Fabric Café

Power BI Meets GitHub: Automating CI/CD Workflows and Collaboration



04 February 2026



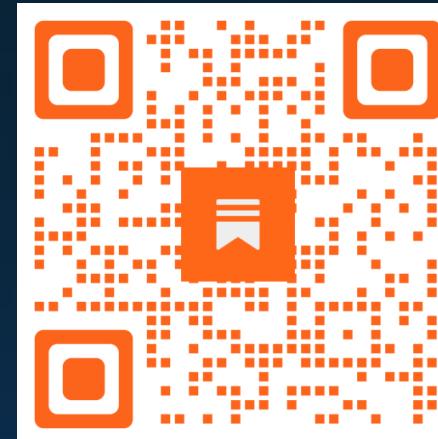
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Daniel Patkos

- ✓ **Budapest, Hungary**
- ✓ **BI Architect @**



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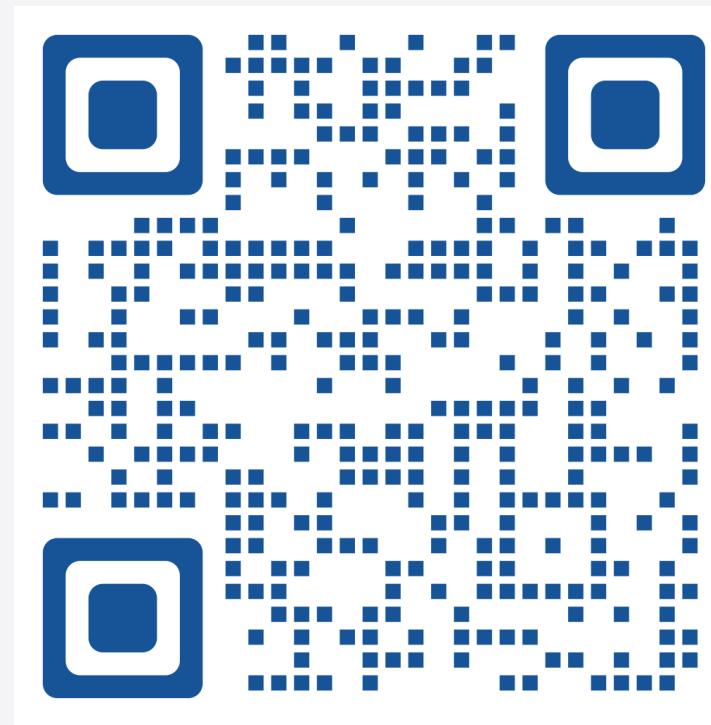


Power BI & Git - Where Are You on the Journey?

1. I develop Power BI reports — not just view them.
2. I've struggled with version control (Project_Final_v7_REAL_FINAL.pbix.)
3. I've heard about the new Power BI Project file format (.pbip).
4. I know what TMDL is.
5. I have experience working with .pbip and TMDL.
6. I'm familiar with the meaning of basic git terminology – repo, branch, commit, merge, PR.
7. I use branches, pull requests, or code reviews as part of my workflow.



Scan to refresh your Git, CI/CD, and PBI knowledge



Agenda

1. 🦕 Dark Age – Before version control
2. 🌱 Local version control (benefits of .PBIP)
3. 🌱 GitHub & Power BI Service
4. 🌱 GitHub Actions





Dark Age

Before version control



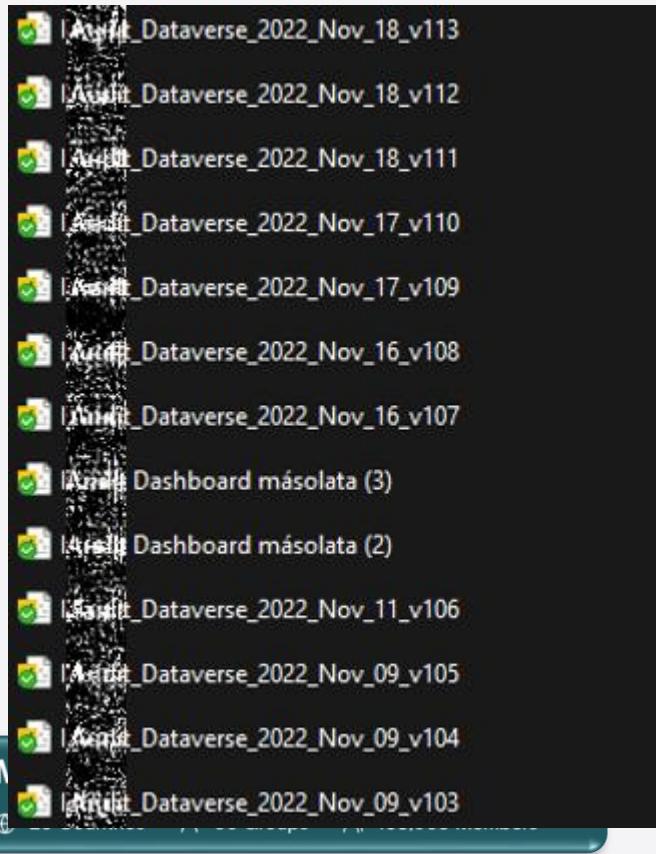
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25 Countries 60 Groups 105,905 Members

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The Dark Age of Power BI Version Control

Developing on your own

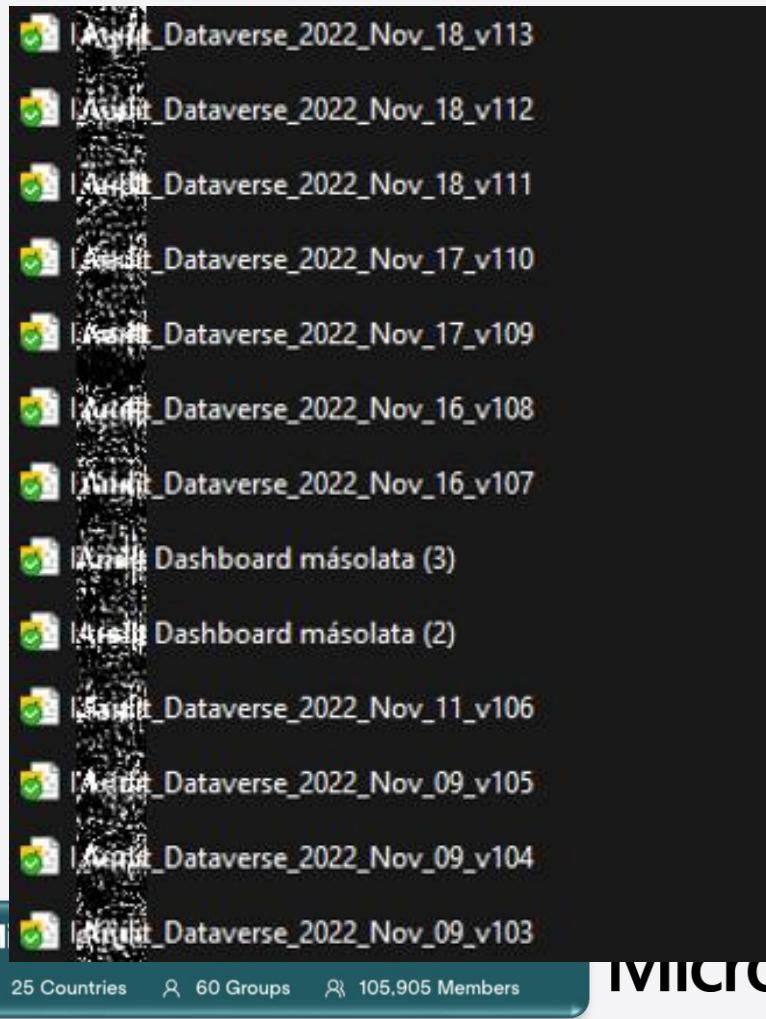


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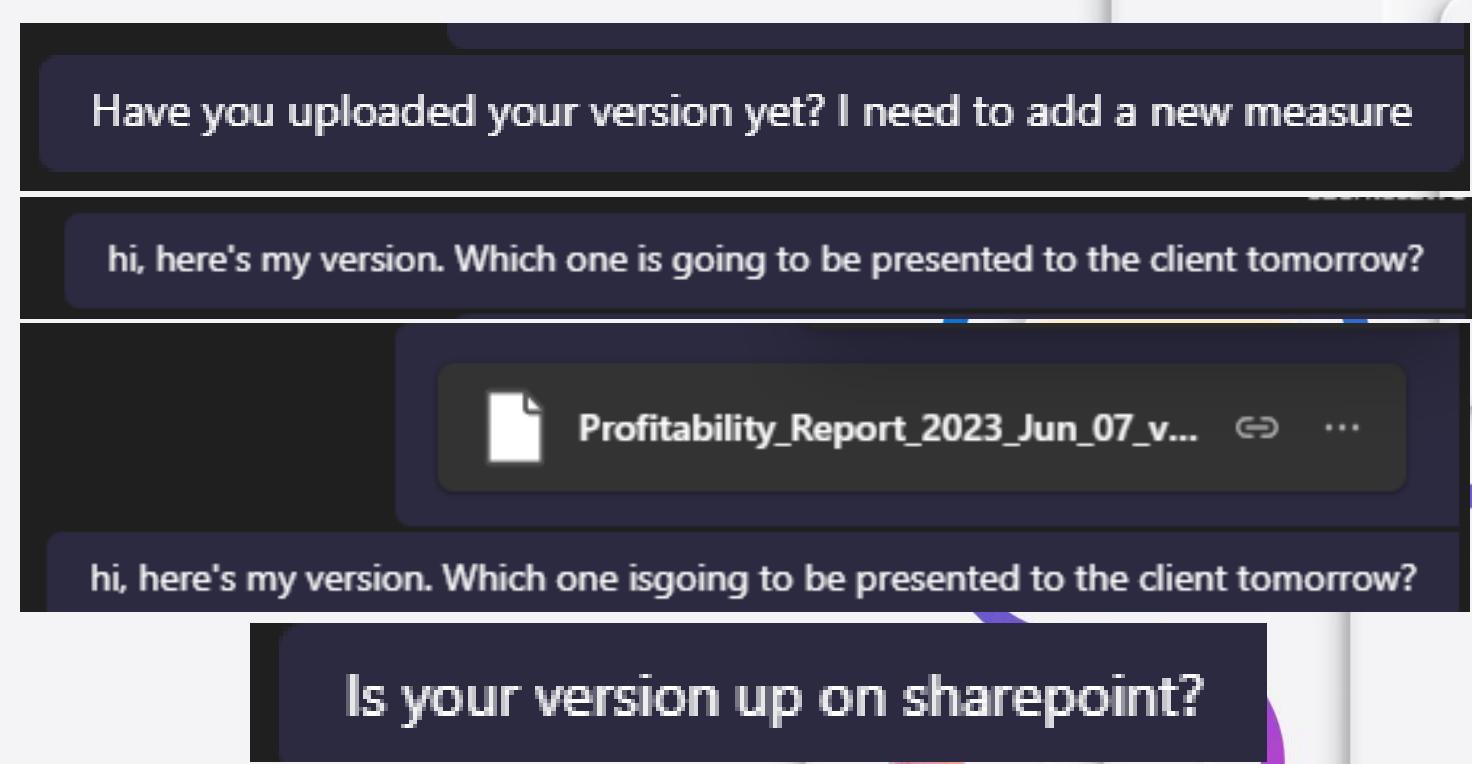


The Dark Age of Power BI Version Control

Developing on your own



Developing in teams



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Workarounds & alternative solutions (🦕 Dark Age)

- 1) OneDrive
- 2) Rest API or Power Automate (Rest API)
- 3) External tools (e.g.: ALM Toolkit, pbi-tools, PBI Documenter) or Azure DevOps PBI Extension
- 4) Deployment pipelines (PPU or Premium)





Power BI Project Files

- From .pbix to .pbib

<input type="checkbox"/> Name	Date modified
📁 AdventureWorks.Report	19/03/2024 20:43
📁 AdventureWorks.SemanticModel	19/03/2024 20:43
📄 .gitignore	15/03/2024 10:43
📄 AdventureWorks.pbip	18/03/2024 12:21

- Option to switch to TMDL format



TMDL format

- Human friendly way to store semantic model related data
- Modular, granular editing: partial edits or deployments
- Better integration with CI/CD and smoother version control
- Easy to parse (manually or with 3rd party tools)
- Option to bulk edit, create, remove – in code editors, Python or the new TMDL View



Prepare your questions!



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- CONFERENCE DEMO

- Demo Report.Report

> .pbi

> StaticResources

≡ .platform

≡ definition.pbir

{ report.json

- Demo Report.SemanticModel

> .pbi

definition

> cultures

tables

- _Measures.tmdl
- Campaign Returns.tmdl
- CS_NewTickets.tmdl
- Historical_Trend.tmdl**
- Marketing_Funnel.tmdl

Database.tmdl

model.tmdl

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{ diagramLayout.json

↳ .gitignore

| Demo Report.pbip

- Demo Report.SemanticModel > definition > tables > Historical_Trend.tmdl

```
1  table Historical_Trend
2  column Opened
3  lineageTag: 27c31e28-e481-4ae0-8e49-50855501a003
4  summarizeBy: sum
5  sourceColumn: Opened
6
7  changedProperty = DataType
8
9  annotation SummarizationSetBy = Automatic
10
11 column 'Converted Users'
12   dataType: int64
13   formatString: 0
14   lineageTag: d875e020-740b-4432-a433-0cc4a86eeb3b
15   summarizeBy: sum
16   sourceColumn: Converted Users
17
18   annotation SummarizationSetBy = Automatic
19
20 column 'Converted value'
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22   formatString: 0
23   lineageTag: adfbde04-734f-44e1-ba75-c1beea87094a
24   summarizeBy: sum
25   sourceColumn: Converted value
26
27   annotation SummarizationSetBy = Automatic
28
29 column 'Avg Conversion Value'
30   dataType: int64
31   formatString: 0
32   lineageTag: de3bf1d3-f77f-40fd-98a8-e9f17845a8a6
33   summarizeBy: sum
34   sourceColumn: Avg Conversion Value
35
36   annotation SummarizationSetBy = Automatic
37
38 partition Historical_Trend = m
39   mode: import
40   source =
41     let
42       Source = Table.FromRows(Json.Document(Binary.Decompress(Binary.FromText("PVPJscUwC0s1Zw5m8UItmdd/Gx8J/xzCjI0MkiDv++gjz6jPENRwtC0x1/0T9zFc6qyYp0L4R"),
43       #"Changed Type" = Table.TransformColumnTypes(Source,{{"Converted Users", Int64.Type}, {"Converted value", Int64.Type}}),
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45       #"Changed Type1" = Table.TransformColumnTypes(#"Added Custom",{{"Avg Conversion Value", Int64.Type}}))
46     in
47       #"Changed Type1"
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49 annotation PBI_ResultType = Table
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51 annotation PBI_NavigationStepName = Navigation
52
53 annotation PBI_NavigationStepName = Navigation
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55 annotation PBI_NavigationStepName = Navigation
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57 annotation PBI_NavigationStepName = Navigation
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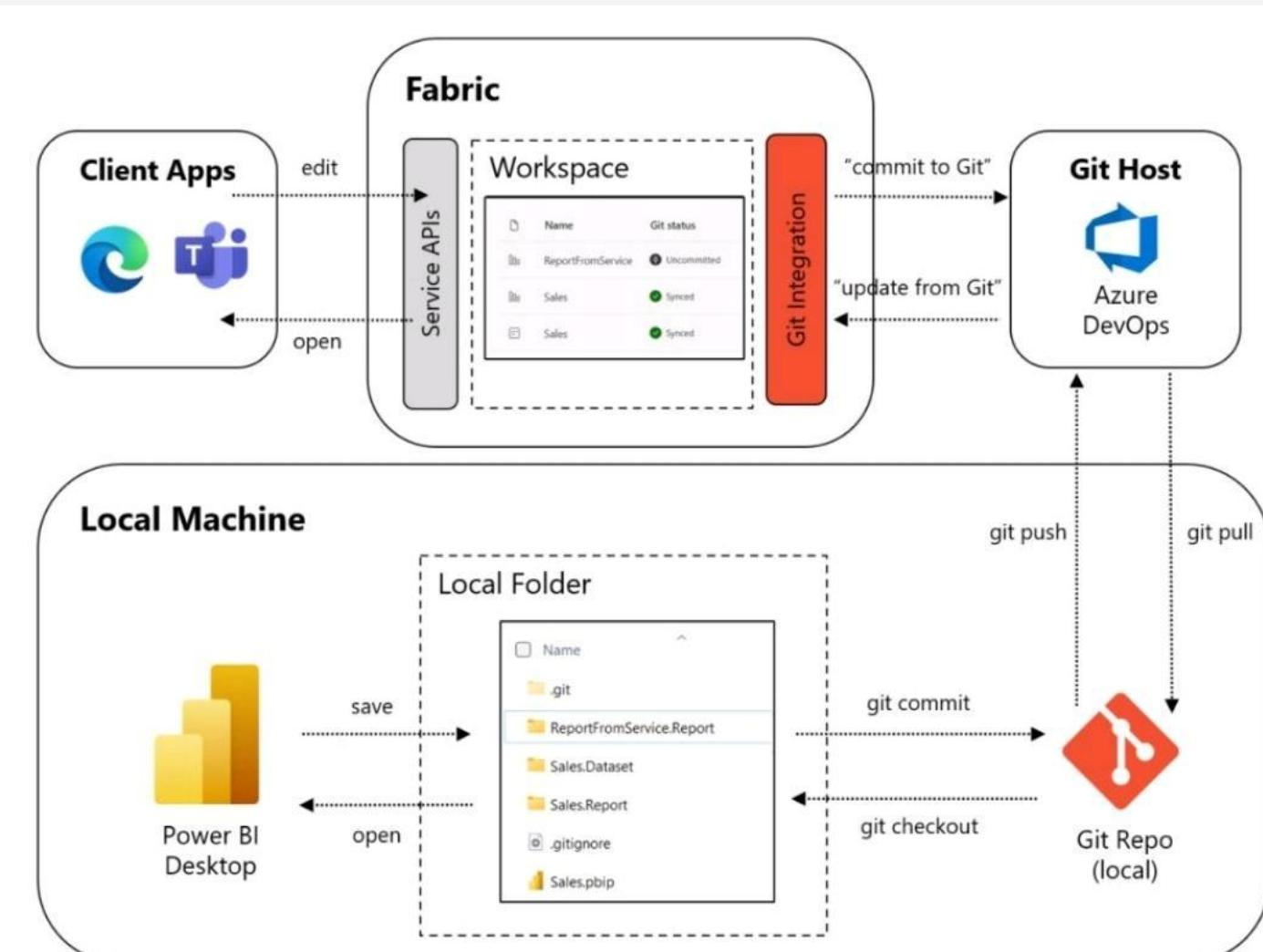
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> OUTLINE

> TIMELINE

How does it work?



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Questions, topics to further clarify?



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Our experience so far is extra positive

- Little investment (learn: VS Code, Git, GitHub/DevOps and practice), big return
- Clean, easy to follow stages during development and maintenance
- No need to manually save versions
- Easy to use earlier versions or roll back
- No more “Sorry, I accidentally removed/overwrote the PROD version”





Local version control

Detailed, step-by-step guide



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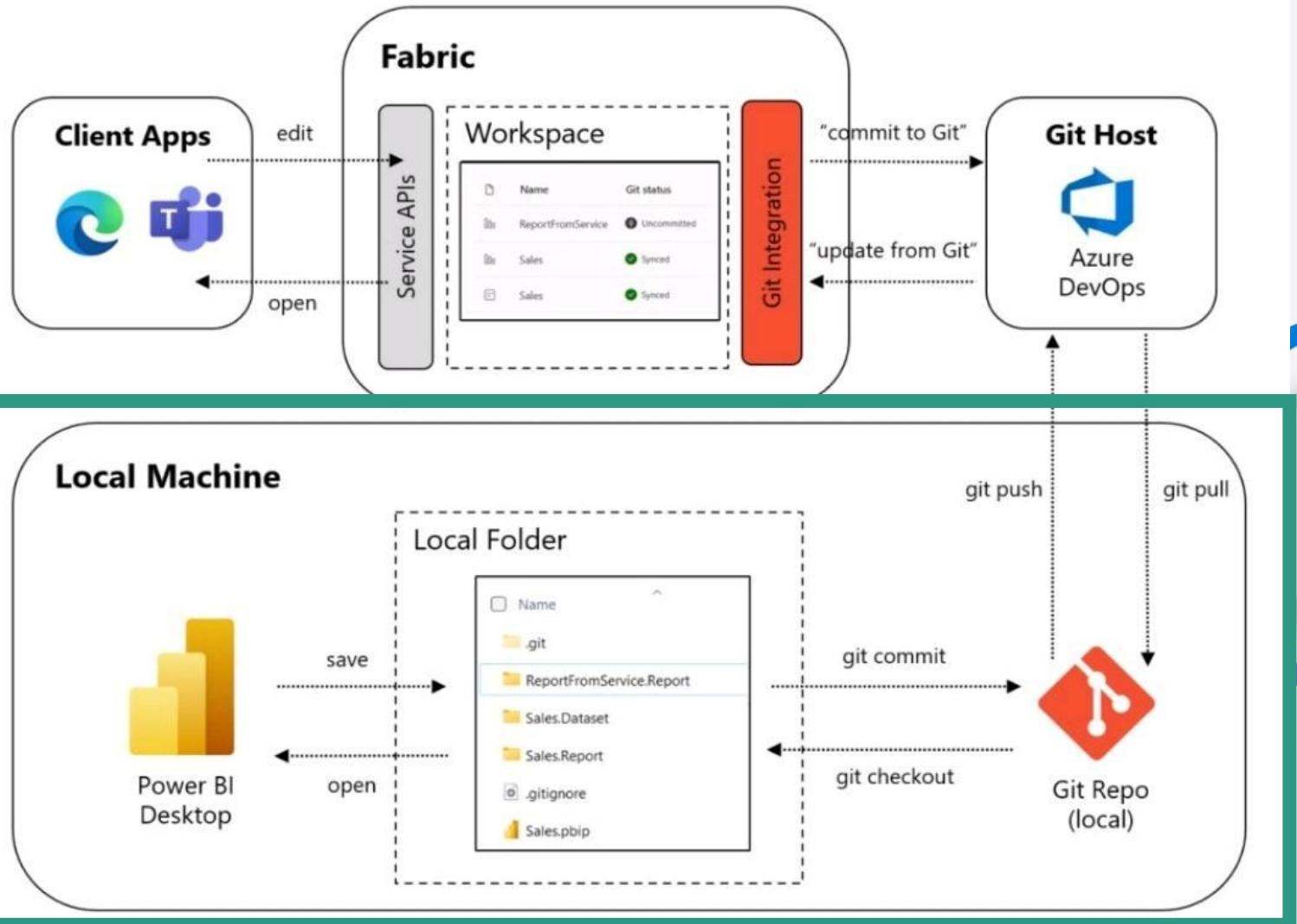
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Data Community Austria Day 2026

Version control in action....

Let's demo this part!



Git basics

- 1) **Repo** – stores your project related files and track all changes made to files
- 2) **Commit** – snapshot of the current status of your project
- 3) **Branch** – separate workspace where you can develop and try new things w/o messing up the main project
- 4) **Merge** – integrate two different versions into one
- 5) **Pull Request (PR)** – formal way to ask for approval and merge changes of 2 branches



Try it out!

- 1) Power BI settings
- 2) Install VS Code, GitGraph (optional), and GIT
- 3) Save as .pbip and Check changes
- 4) Connect project to VS Code
- 5)  **Version control has been started! - Track your changes** 



File Home Insert Modeling View Optimize Help External tools

Cut Copy Format painter Clipboard

Get data v workbook data hub v OneLake Server SQL Server Enter data Dataverse Recent sources v Transform Refresh data v New visual Text box More visuals v Calculations Insert Sensitivity v Publish Copilot

eCommerce Analytics

Web Conversion Rate

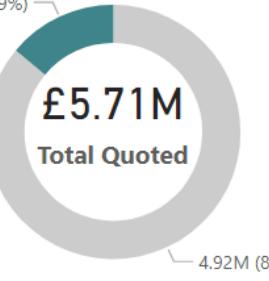
12.5% 

Newsletter click-through

8.76% 

13% of Quote requests are Completed
Target: 9.5%

Quoted - not realized ● Ordererred



Status	Value
Quoted - not realized	£0.79M (13.9%)
Ordererred	4.92M (86.1%)

£5.71M Total Quoted

Cost per conversion

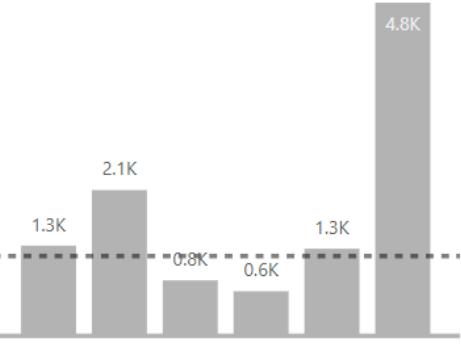
£33.54  up by 25.1% vs PQ

Ad cost YTD

£286,531

Weekly web traffic

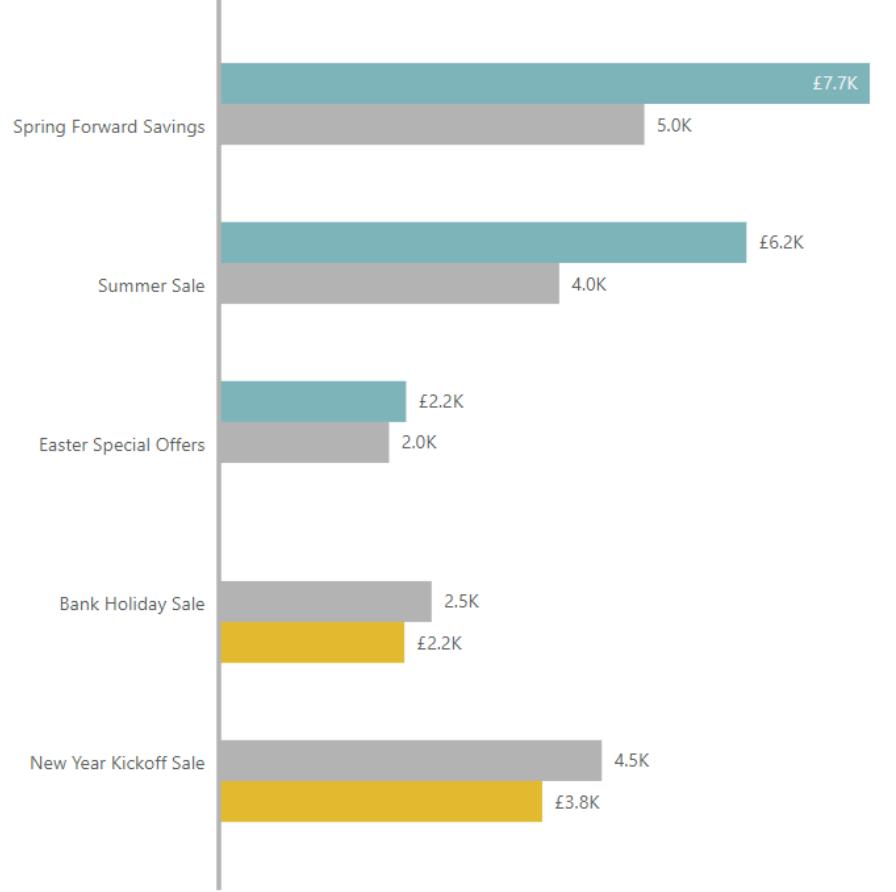
Annual Avg: 1150 user / day



Day	Users
Mon	1.3K
Tue	2.1K
Wed	0.8K
Thu	0.6K
Fri	1.3K
Sat	4.8K

Overall Return of campaign cost: +21%

- Campaign cost
- Positive ROI
- Negative ROI



Campaign	Cost (£)	Return (£)
Spring Forward Savings	5.0K	£7.7K
Summer Sale	4.0K	£6.2K
Easter Special Offers	2.0K	£2.2K
Bank Holiday Sale	2.5K	£2.2K
New Year Kickoff Sale	4.5K	£3.8K

Visualizations

Build visual

Filters

Data

Search

_Measures

Campaign Returns

CS_NewTickets

Historical_Trend

Marketing_Funnel

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Page 1 of 1

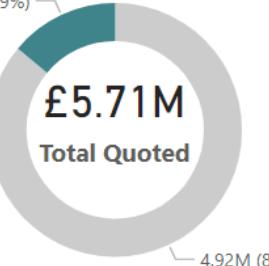
+ 118% 

eCommerce Analytics

Web Conversion Rate
12.5% 
Weekly trend

Newsletter click-through
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Weekly trend

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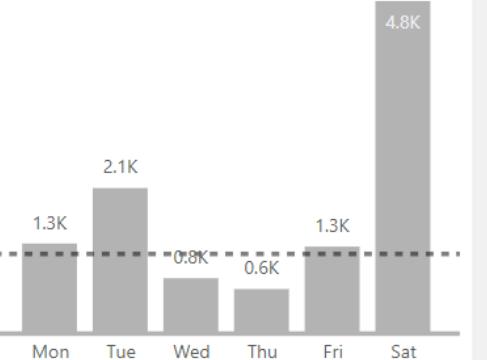
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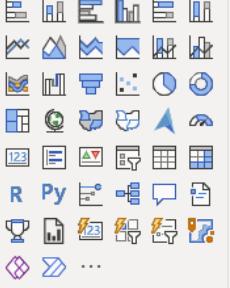
Sale Type	Actual Cost (K)	Target Cost (K)
Spring Forward Savings	£7.7K	5.0K
Summer Sale	£6.2K	4.0K
Easter Special Offers	£2.2K	2.0K
Bank Holiday Sale	£2.2K	2.5K
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Values Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here



Home

Open

Save

Save as

Share

Get data

Import

Export

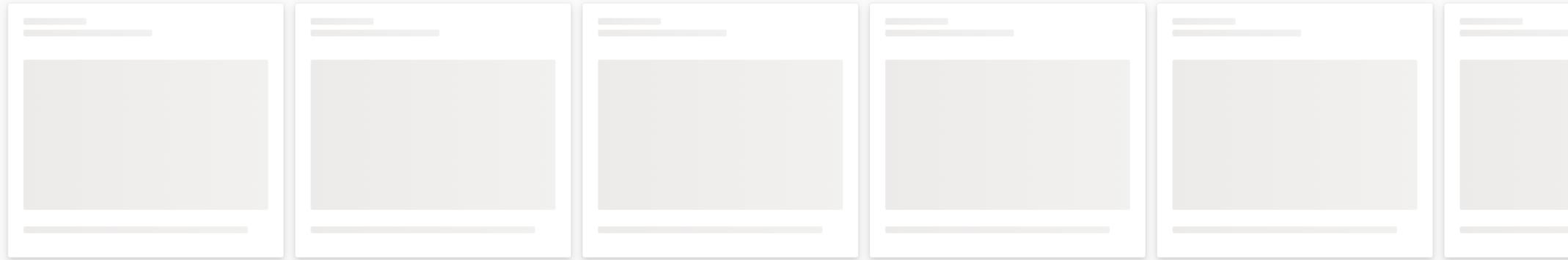
Publish

▼ New



Blank report

▼ Recommended



Recent

Shared with me

Filter by keyword

Filter ▾



Loading data...

Sign out

Options and
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About

File Edit Selection View Go Run Terminal Help

Conference demo

SOURCE CONTROL

SOURCE CONTROL

Replace "newsletter click-through" KPI background from white to green

✓ Commit 1

Changes report.json Demo Report.Report

SOURCE CONTROL GRAPH

Report as of 17 Jan 2025 daniel.patkos

main

Git Graph report.json (Working Tree) M X

PBI SUMMIT - Demo Report.Report > report.json > sections > 0 > visualContainers > 1 > config

4 "resourcePackages": [

19 {

20 "name": "REGISTEREDRESOURCES",

21 "type": 1

22 }

23],

24 "sections": [

25 {

26 "config": "{}",

27 "displayName": "Marketing",

28 "displayOption": 1,

29 "filters": "[]",

30 "height": 720.00,

31 "name": "8df3f096000c47903068",

32 "visualContainers": [

33 {

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35 "filters": "[]",

36 "height": 65.62,

37 "width": 1280.39,

38 "x": 0.00,

39 "y": 0.00,

40 "z": 0.00

41 },

42 {

43 "config": "{\"name\":\"29d1e9718ce940c20a04\", \"layouts\":[{\"id\":0,\"position\": \"top-right\", \"width\": 320.24, \"height\": 148.75, \"x\": 9.47, \"y\": 234.97, \"z\": 6000.00}], \"filters\": \"[]\"}",

44 "filters": "[]",

45 "height": 148.75,

46 "width": 320.24,

47 "x": 9.47,

48 "y": 234.97,

49 "z": 6000.00

50 },

51 {

52 "config": "{\"name\":\"3397f6208d1ab90167d2\", \"layouts\":[{\"id\":0,\"position\": \"bottom-right\", \"width\": 320.24, \"height\": 148.75, \"x\": 9.47, \"y\": 76.74, \"z\": 5000.00}], \"filters\": \"[]\"}",

53 "filters": "[]",

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55 "width": 320.24,

56 "x": 9.47,

57 "y": 76.74,

58 "z": 5000.00

59 },

60 {

61 "config": "{\"name\":\"45fc49d1d7a34287ce25\", \"layouts\":[{\"id\":0,\"position\": \"bottom-left\", \"width\": 244.44, \"height\": 166.75, \"x\": 46.42, \"y\": 493.62, \"z\": 4000.00}], \"filters\": \"[]\"}",

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64 "width": 244.44,

65 "x": 46.42,

66 "y": 493.62,

67 "z": 4000.00

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71 "filters": "[]",

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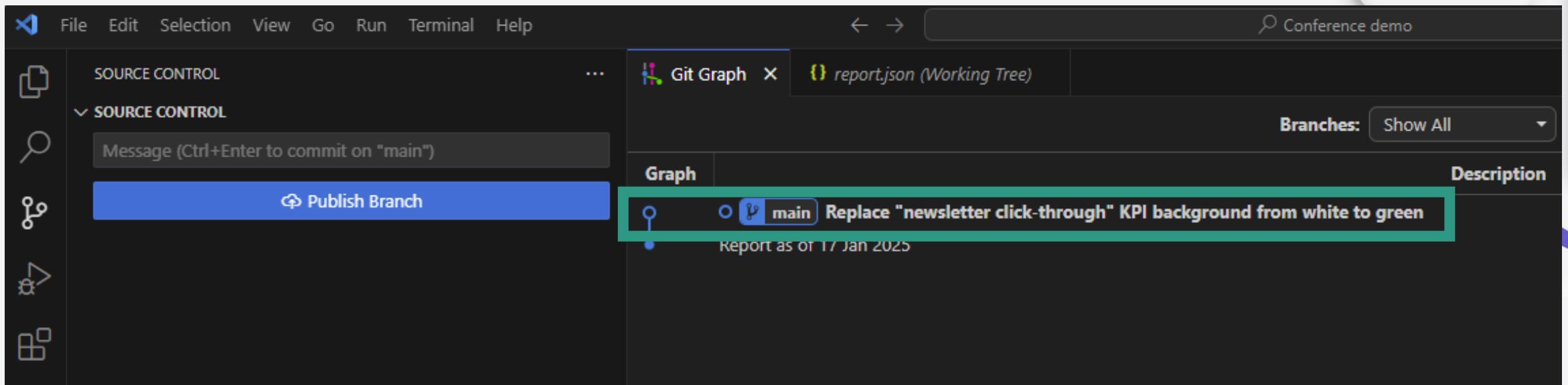
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Commit changes



Questions, topics to further clarify?





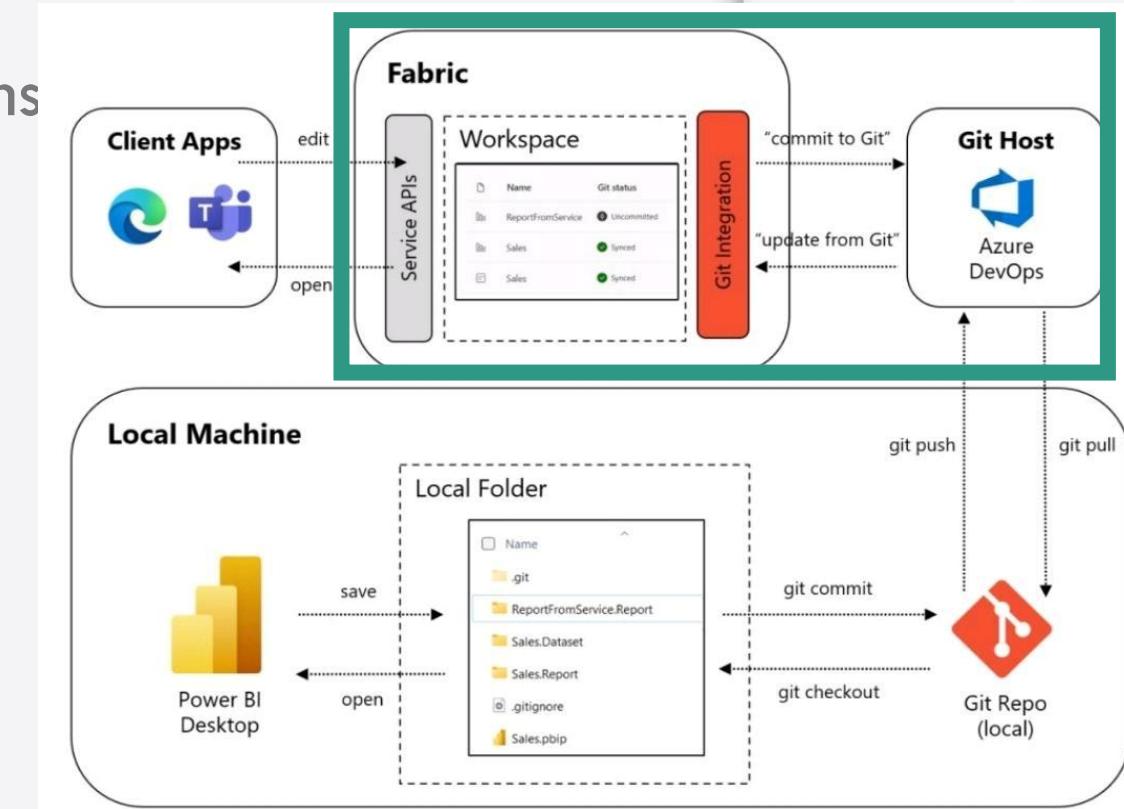
GitHub & Power BI Service

Share with the team and automate the deployment



GitHub & Power BI Service

- Control the deployment of new versions
- Two-way integration
- PPU or Premium required



File Home Insert Modeling View Optimize Help External tools Format Data / Drill

Cut Copy Format painter Clipboard Paste

Get data v Excel OneLake SQL Server Enter Dataverse Recent sources v Data Transform Refresh data v Queries New visual Text box More visuals v Insert Calculations Sensitivity v Share Copilot

New visual calculation v measure measure Sensitivity v Share Copilot

eCommerce Analytics

Web Conversion Rate

12.5% 

Newsletter click-through

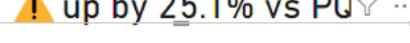
8.76% 

13% of Quote requests are Completed
Target: 9.5%

Quoted - not realized ● Ordererred

£0.79M (13.9%)  £5.71M Total Quoted
4.92M (86.1%)

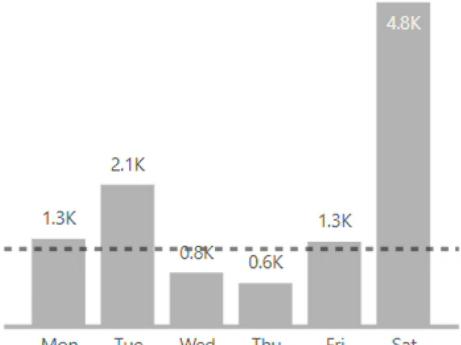
Cost per conversion

£34.71  up by 25.1% vs PQ ...

Ad cost YTD

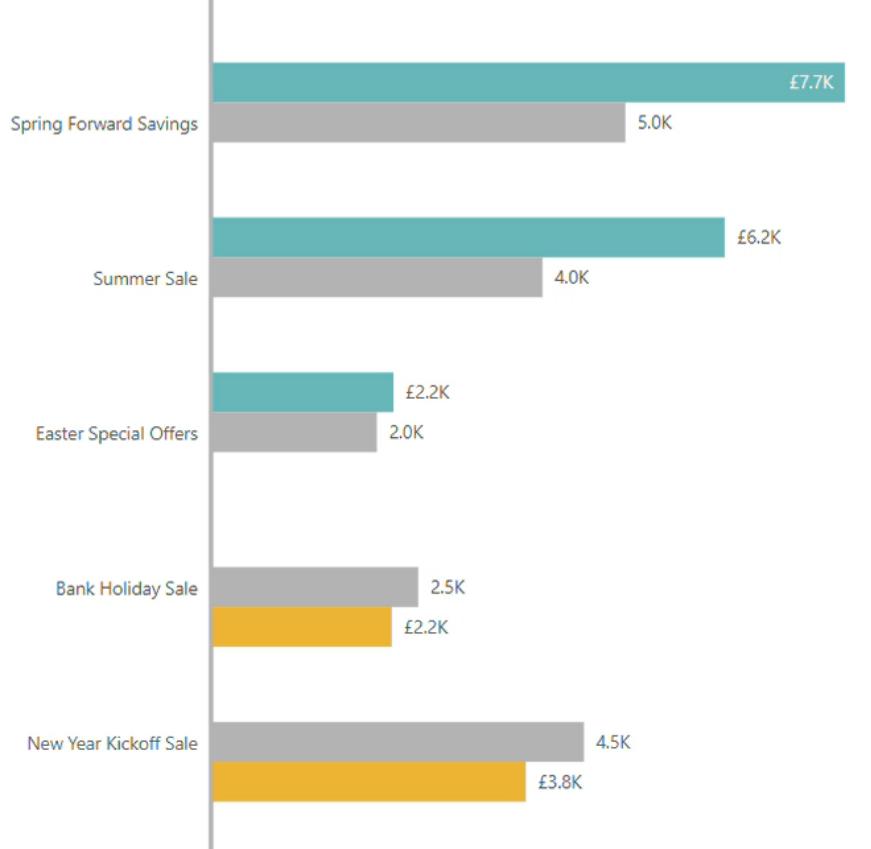
£296,531

Weekly web traffic
Annual Avg: 1150 user / day



Day	Users
Mon	1.3K
Tue	2.1K
Wed	0.8K
Thu	0.6K
Fri	1.3K
Sat	4.8K

Overall Return of campaign cost: +21%
 ● Campaign cost ● Positive ROI ● Negative ROI



Campaign	Cost
Spring Forward Savings	£7.7K
Summer Sale	£6.2K
Easter Special Offers	£2.2K
Bank Holiday Sale	£2.2K
New Year Kickoff Sale	£3.8K

Visualizations

Build visual

Filters

Search

Measures

- ✓ Ad cost
- Campaigns
- Cost per conver...
- Cost per conver...
- Less
- Marketing C... ...
- More
- Ordered Amount
- Quote vs Order
- Sales Conversio...
- Web Quoted A...

Data

Ad cost YTD

Small multiples

Add data fields here

Tooltips

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

File Home Insert Modeling View Optimize Help External tools Format Data / Drill Table tools Measure tools

Name Ad cost Format Currency Data category Uncategorized New measure Quick measure Calculations

Home table Measures \$ v % 0.00 0 0

Structure 1 Ad cost =
2
3 357982

Formatting Properties Calculations

Web Conversion Rate
12.5% Weekly trend

Cost per conversion
£41.90 ▲ up by 25.1% vs PQ ...

Overall Return of campaign cost: +21%
• Campaign cost • Positive ROI • Negative ROI

Newsletter click-through
8.76% Weekly trend

Ad cost YTD
£357,982

13% of Quote requests are Completed
Target: 9.5%
• Quoted - not realized • Ordererred

£0.79M (13.9%)
£5.71M Total Quoted
4.92M (86.1%)

Weekly web traffic
Annual Avg: 1150 user / day

Spring Forward Savings £7.7K
Summer Sale £6.2K
Easter Special Offers £2.2K
Bank Holiday Sale 2.5K £2.2K
New Year Kickoff Sale 4.5K £3.8K

Filters

Visualizations Build visual

Search

Measures Ad cost, Campaigns, Cost per conver..., Cost per conver..., Less, Marketing Con..., More, Ordered Amount, Quote vs Order, Sales Conversio..., Web Quoted A...

Data Ad cost YTD, Campaign Returns, CS_NewTickets, Historical_Trend, Marketing_Funnel

Small multiples Add data fields here

Tooltips Add data fields here

Drill through Cross-report (off), Keep all filters (on)

Add drill-through fields here



Microsoft Fabric User Group Network

25 Countries

60 Groups

105,905 Members

Microsoft Learn



File Edit Selection View Go Run Terminal Help

Git Graph _Measures.tmdl (Working Tree) PBI SUMMIT - Demo Report.SemanticModel > definition > tables > _Measures.tmdl

```
1 table _Measures
2   lineageTag: e2d9271e-85c8-4a52-840f-16bfad1f41c5
3
4   measure 'Web Quoted Amount' =
5     5712495
6     formatString: "£",0;"£",0;"£",0
7     lineageTag: e310460f-1a52-488a-84ff-fa3c5f7ff715
8
9     annotation PBI_FormatHint = {"currencyCulture":"en-GB"}
10
11   measure 'Ordered Amount' =
12
13     794527
14     formatString: "£",0;"£",0;"£",0
15     lineageTag: e97d11f0-508a-4149-9f87-cceaf1cc82cf
16
17     annotation PBI_FormatHint = {"currencyCulture":"en-GB"}
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19   measure 'Quote vs Order' =
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21
22     [Web Quoted Amount] - [Ordered Amount]
23     formatString: #,0
24     lineageTag: e0c443d5-1cab-4aa5-8c35-ba918193e8d6
25
26   measure 'Ad cost' =
27
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29     357982
30     formatString: "£",0;"£",0;"£",0
31     lineageTag: 2b0fd2ad-adc6-49d5-9a1c-31b614555a12
32
33     annotation PBI_FormatHint = {"currencyCulture":"en-GB"}
34
35   measure 'Cost per conversion' = ``
36
37
38     DIVIDE (
39       [Ad cost] ,
40       CALCULATE (
41         SUM ( Marketing_Funnel[Users] ),
42         Marketing_Funnel[Stage] = "Completed Orders"
43       )
44     )
45
46
47     formatString: "£",0.00;"£",0.00;"£",0.00
48     lineageTag: 23a1d732-b70f-4562-840d-1ac6bbf5c435
49
50     annotation PBI_FormatHint = {"currencyCulture":"en-GB"}  
MICROSOFT Learn
```

VisualLabs-Kft/powerbisummit X Power BI

https://github.com/VisualLabs-Kft/powerbisummitconference-bi-cicdaction

VisualLabs-Kft / conference-bi-cicdaction

Type to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

conference-bi-cicdaction Private

Watch 1 Fork 0 Star 0

main 3 Branches 0 Tags Go to file Add file Code

vlpatkosdani YTD ad cost increased

5ea34c6 · now 13 Commits

.github/workflows Install latest Tabular Editor and run BPA yesterday

- Demo Report.Report increased YTD value 10 minutes ago

- Demo Report.SemanticModel YTD ad cost increased now

.gitignore Demo report 2 weeks ago

- Demo Report.pbip Demo report 2 weeks ago

About

This repo is created to share and showcase the GH and GA related part of the CI/CD in action presentation.

Activity

Custom properties

0 stars

1 watching

0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

README

Add a README

Add a README

VisualLabs-Kft/powerbisummit X Power BI

https://app.powerbi.com/groups/9688edc6-1732-4ad6-8c7c-637c1c13cff6/list?experience=power-bi&clientSideAuth=0

Power BI Power BI 2025 Trial: 11 days left

Home Create deployment pipeline Create app Manage access Workspace settings

+ New item New folder Upload Source control 1 Filter by keyword Filter

⚠ You have pending updates from Git. We recommend you update the incoming changes and then continue working.

Name	Git status	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Included in app
Demo Report	Synced	Report	—	Power BI & Fabri...	1/19/2025, 12:55:31 ...	—	—	—	<input type="checkbox"/> No
Demo Report	Update Required	Semantic model	—	Power BI & Fabri...	1/19/2025, 12:55:31...	N/A	—	—	

Power BI & Fabric ... PBI SUMMIT - Demo ...

Microsoft Apache User Group Network 25 Countries 60 Groups 105,905 Members Microsoft Learn

https://app.powerbi.com/groups/9688edc6-1732-4ad6-8c7c-637c1c13cff6/list?experience=power-bi&clientSideAuth=0

Trial: 11 days left 45

Power BI & 2025

Search

Create deployment pipeline Create app Manage access Workspace settings

+ New item New folder Upload Source control 1 Filter by keyword Filter

You have pending updates from Git. We recommend you update the incoming changes and then continue working.

Name	Git status	Type	Task	Owner	Refreshed	Next refresh	Endorsement
Demo Report	Synced	Report	—	Power BI & Fabri...	1/19/2025, 12:55:31 ...	—	—
Demo Report	Update Required	Semantic model	—	Power BI & Fabri...	1/19/2025, 12:55:31...	N/A	—

Source control

Current branch: main

Changes Updates 1

Item Status

PBI SUMMIT - Demo Report

Update all

main Last synced: 1/20/2025 at 9:51 PM 58a3d7d0

25 Countries 60 Groups 105,905 Members

INNOVATE LEARN

A screenshot of the Microsoft Power BI interface showing a list of items in a group named "Power BI & Fabric - Demo".

The interface includes a left sidebar with various navigation icons such as Home, Create, Browse, OneLake, Apps, Metrics, Monitor, Learn, Real-Time, Workloads, Workspaces, Power BI & Fabric, and PBI SUMMIT.

The main content area displays a table with columns: Name, Git status, Type, Task, Owner, Refreshed, Next refresh, and Endorsement. Two items are listed:

Name	Git status	Type	Task	Owner	Refreshed	Next refresh	Endorsement
P...emo Report	Synced	Report	—	Power BI & Fabri...	1/19/2025, 12:55:31 ...	—	—
Demo Report	Synced	Semantic model	—	Power BI & Fabri...	1/19/2025, 12:55:31...	N/A	—

A modal window titled "Source control" is open on the right side, showing the current branch is "main". It has tabs for "Changes" (which is selected) and "Updates". A message at the bottom states: "You don't have any changes. Any uncommitted changes will be listed here." There is also a large circular button with a checkmark icon.

The browser address bar shows the URL: https://app.powerbi.com/groups/9688edc6-1732-4ad6-8c7c-637c1c13cff6/list?experience=power-bi&clientSideAuth=0

The Microsoft Learn logo is visible at the bottom of the page.

VisualLabs-Kft/powerbisummit X - Demo Report - P X + https://app.powerbi.com/groups/9688edc6-1732-4ad6-8c7c-637c1c13cff6/reports/78bda146-95b1-40dd-8445-3b2534a11b22/8df3f096000c47903068?experience=power-bi& A Star Trial: 11 days left 46 🔍 ⚙️ ⏪ ⏴ ? ⏵

Demo Report | Data updated 1/20/25 Search

Home Create Browse OneLake Apps Metrics Monitor Learn Real-Time Workloads Workspaces Power BI & Fabric ... PBI SUMMIT

eCommerce Analytics

Web Conversion Rate

12.5%  Weekly trend

Cost per conversion

£41.90  up by 25.1%    

Newsletter click-through

8.76%  Weekly trend

Ad cost YTD

£357,982

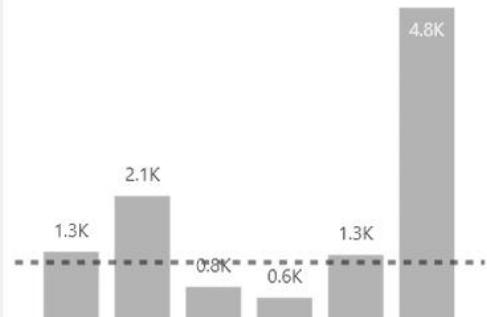
13% of Quote requests are Completed

Target: 9.5%  

£0.79M (13.9%)  £5.71M Total Quoted

Weekly web traffic

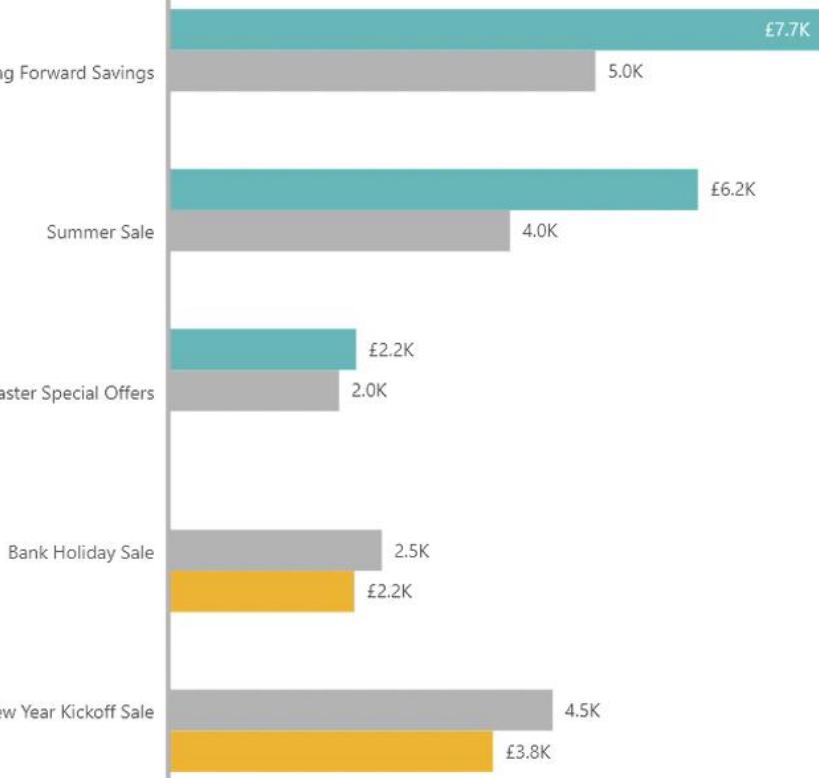
Annual Avg: 1150 user / day



Day	Users
Monday	1.3K
Tuesday	2.1K
Wednesday	0.8K
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Friday	1.3K
Saturday	4.8K

Overall Return of campaign cost: +21%

● Campaign cost ● Positive ROI ● Negative ROI



Campaign	ROI	Cost (£)
Spring Forward Savings	Positive	£7.7K
Summer Sale	Positive	£6.2K
Easter Special Offers	Negative	£2.2K
Bank Holiday Sale	Negative	£2.2K
New Year Kickoff Sale	Positive	£3.8K

Microsoft Learn

Lessons learned

- 1) Practice before use
 - 2) Commit frequently
 - 3) Meaningful commit messages
 - 4) Check your current branch
 - 5) Communicate with your team
- Microsoft Fabric User Group Network**
25 Countries 60 Groups 105,905 Members



Keep in mind

- Direct edits on PBI Service are displayed immediatly – no need for approvals, you have the chance to push the changes back to GH
- You can still publish and overwrite your file on PBI Service from PBI Desktop
- On GH side you won't get any notification about changes made on PBI Service – if not commeted





GitHub Action

Here comes the cavalry



Microsoft Fabric User Group Network
25 Countries 60 Groups 105,905 Members

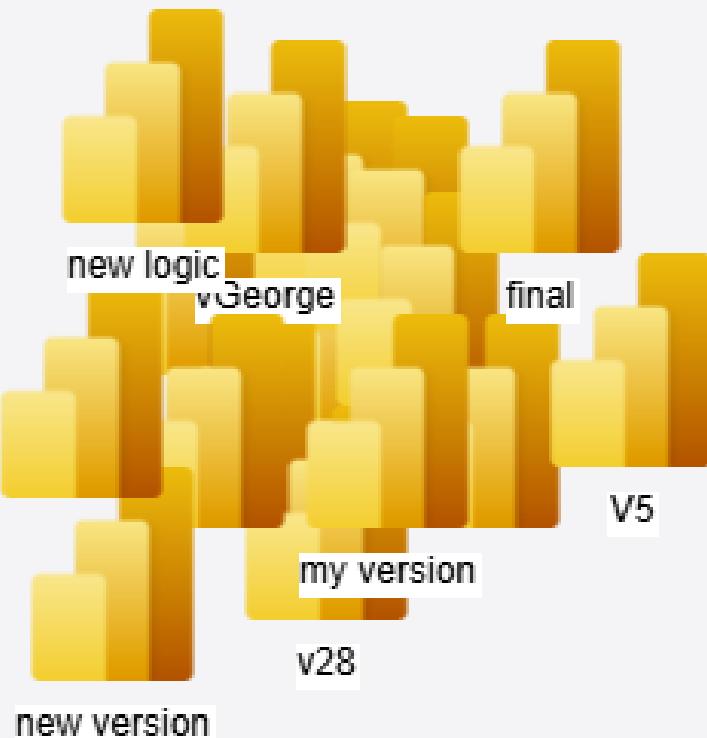
Microsoft Learn



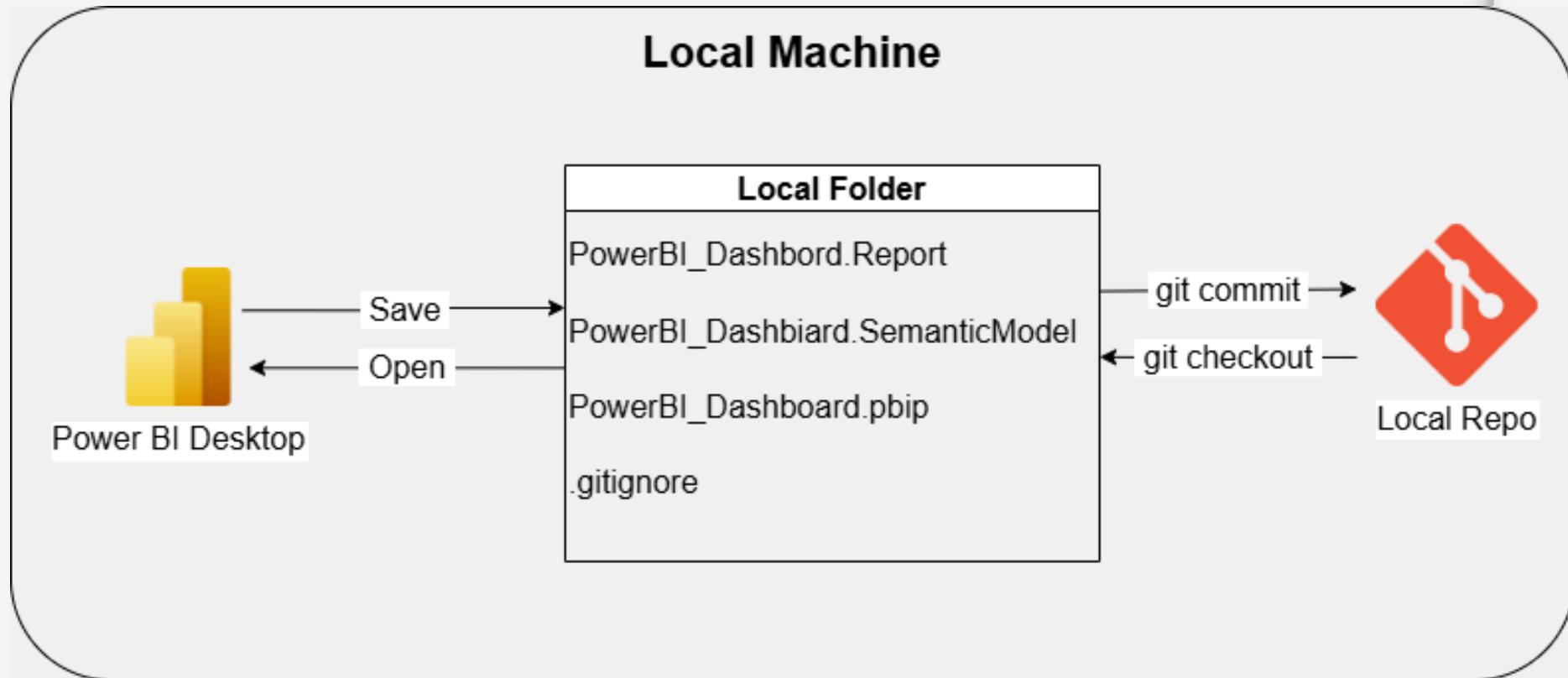
The Fabric Cafe



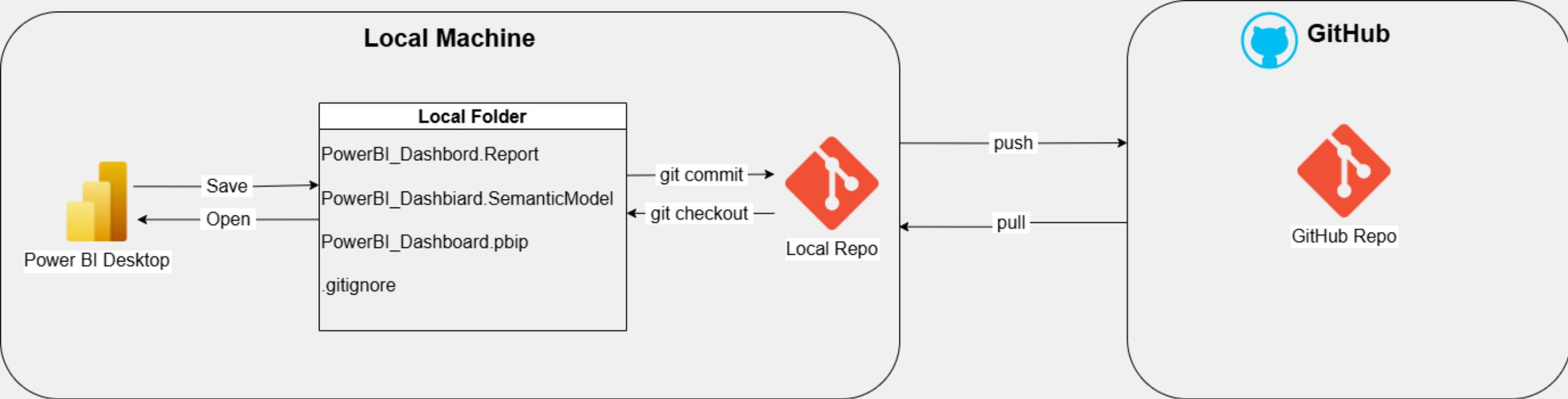
Version Chaos



Local version control



Repo stored in GitHub



Your next challenge: How do you...

1. Ensure consistency across multiple Power BI projects?
2. Stop suboptimal practices from leaking into production?
3. Align developers with different habits and skill levels?
4. Automate security and quality checks reliably?



Beyond version control: PBI meets CI/CD

- Apply security measure on your main branch(es)
- Run automated tests
- *Automate security checks and approvals*
- Use familiar 3rd party tools like: Tabular Editor and run:
 - Best Practice Analyzer
 - Format DAX
 - Any macros



Beyond version control: PBI meets CI/CD

Best Practice Analyzer

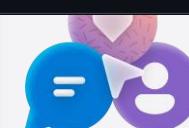
Show ignored

Object Type

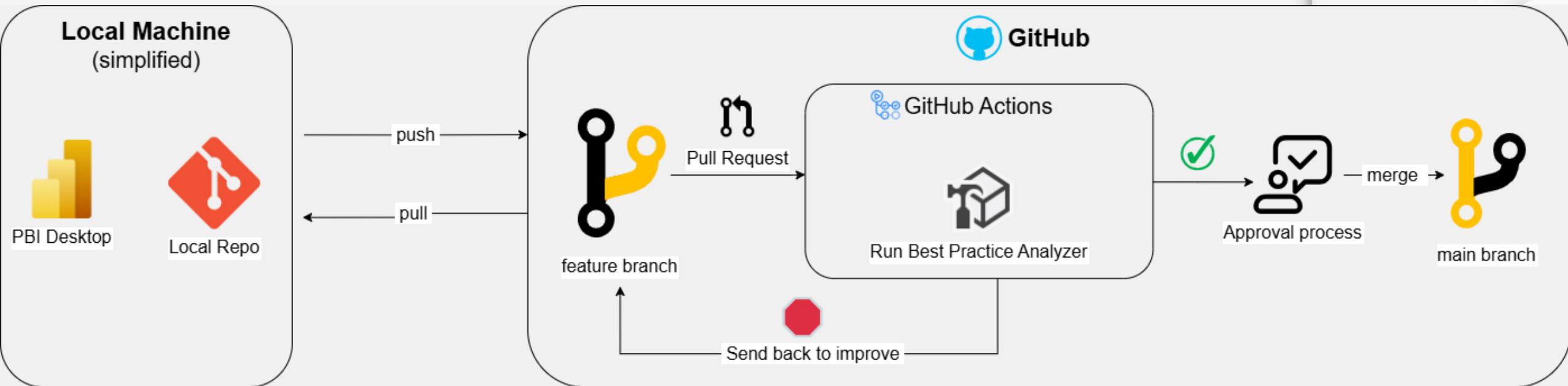
- + Don't summarize numeric columns (22 objects)
- + Avoid division (use DIVIDE function instead) (12 objects)
 - [Internet Current Quarter Gross Profit Performance] Measure
 - [Internet Current Quarter Sales Performance] Measure
 - [Internet Previous Quarter Gross Profit Proportion] Measure
 - [Internet Previous Quarter Sales Proportion to Q... Measure
 - [Reseller Current Quarter Sales Performance] Measure
 - [Reseller Previous Quarter Gross Profit Proportion] Measure
 - [Reseller Previous Quarter Sales Proportion to Q... Measure
 - [Reseller Current Quarter Gross Profit Performance] Measure
 - [Total Current Quarter Gross Profit Performance] Measure
 - [Total Current Quarter Sales Performance] Measure
 - [Total Previous Quarter Gross Profit Proportion t... Measure
 - [Total Previous Quarter Sales Proportion to QTD] Measure
- + Do not use floating point data types (4 objects)
 - 'Reseller Sales'[Discount Amount] Column
 - 'Reseller Sales'[Unit Price Discount Pct] Column
 - 'CurrencyRate'[AverageRate] Column
 - 'CurrencyRate'[EndOfDayRate] Column
- + Avoid empty descriptions (62 objects)
- + Add objects to perspectives (30 objects)
- + Organize columns and hierarchies in display folders (7 obje...
 - + Organize measures in display folders (3 objects)

146 objects in violation of 8 Best Practice rules.

```
1  [
2    "Name": "Avoid division (use DIVIDE function instead)",
3    "Category": "DAX Expressions",
4    "CustomSeverity": 3,
5    "Description": "Calculated Columns, Measures or Calculated Tables should not use the division symbol in their expressions (/) unless the denominator is a constant value. Instead, it is advised to always use the DIVIDE(<numerator>,<denominator>) function.",
6    "Severity": 3,
7    "Scope": "Measure, CalculatedColumn, CalculatedTable",
8    "Expression": "Tokenize().Any( Type = DIV and Next.Type <> INTEGER_LITERAL and Next.Type <> REAL_LITERAL )",
9    "CompatibilityLevel": 1200,
10   "ID_Original": "DAX_DIVISION_COLUMNS",
11   "ID": 52,
12   "Anchor": "avoid-division-use-divide-function-instead"
13 },
14 [
15   "Name": "[Performance] check if relationship is many-to-many (N:N)",
16   "Category": "Performance",
17   "CustomSeverity": 3,
18   "Description": "Many-to-many (N:N) relationships can lead to performance issues or incorrect results if not implemented carefully. Evaluate the necessity of such relationships.",
19   "Severity": 3,
20   "Scope": "Relationship",
21   "Expression": "FromCardinality.ToString() = \"Many\" and ToCardinality.ToString() = \"Many\"",
22   "CompatibilityLevel": 1200,
23   "ID_Original": "CHECK_MANY_TO_MANY_RELATIONSHIPS",
24   "ID": 74,
25   "Anchor": "performance-check-if-relationship-is-many-to-many"
26 },
27 [
28   "Name": "[Performance] check if relationship is bi-directional",
29   "Category": "Performance",
30   "CustomSeverity": 3,
31   "Description": "Bi-directional relationships can introduce ambiguity and performance issues. Use them only when necessary and well understood.",
32   "Severity": 3,
33   "Scope": "Relationship",
34   "Expression": "CrossFilteringBehavior == CrossFilteringBehavior.BothDirections",
35   "CompatibilityLevel": 1200,
36   "ID_Original": "CHECK_BI_DIRECTIONAL_RELATIONSHIPS",
37   "ID": 75,
38   "Anchor": "performance-check-if-relationship-is-bi-directional"
39 ]
40 ]
```



PR triggered BPA analysis





GitHub Actions - Demo

Here comes the cavalry



Microsoft Learn

Microsoft Fabric User Group Network
25 Countries 60 Groups 105,905 Members

Link to demo video



Microsoft Fabric User Group Network
25 Countries 60 Groups 105,905 Members

Microsoft Learn

PBI SUMMIT - Demo Report • Last saved: Today at 7:37 AM (Power BI Project)

Daniel Patkó

Home

Clipboard

Data

Queries

Transform data

Text box

More

Calculated columns

Sensitivity

Share

Copilot

Visualizations

Build visual

Filters

Data

Search

File

Insert

Modeling

View

Optimize

Help

External tools

Get data

Copy

Excel

OneLake

SQL Server

Enter data

Recent sources

Transform data

Refresh data

New visual

Text box

More

Calculated measures

Quick measure

Sensitivity

Share

Copilot

eCommerce Analytics

Web Conversion Rate

12.5% 

Newsletter click-through

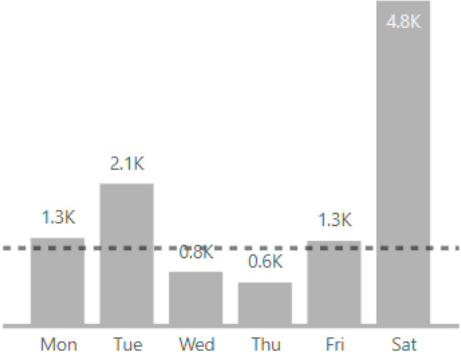
8.76% 

13% of Quote requests are Completed
Target: 9.5%

Quoted - not realized ● Ordererred

£0.79M (13.9%) — £5.71M Total Quoted
4.92M (86.1%)

Weekly web traffic
Annual Avg: 1150 user / day



Day	Users
Mon	1.3K
Tue	2.1K
Wed	0.8K
Thu	0.6K
Fri	1.3K
Sat	4.8K

Cost per conversion

£41.90 

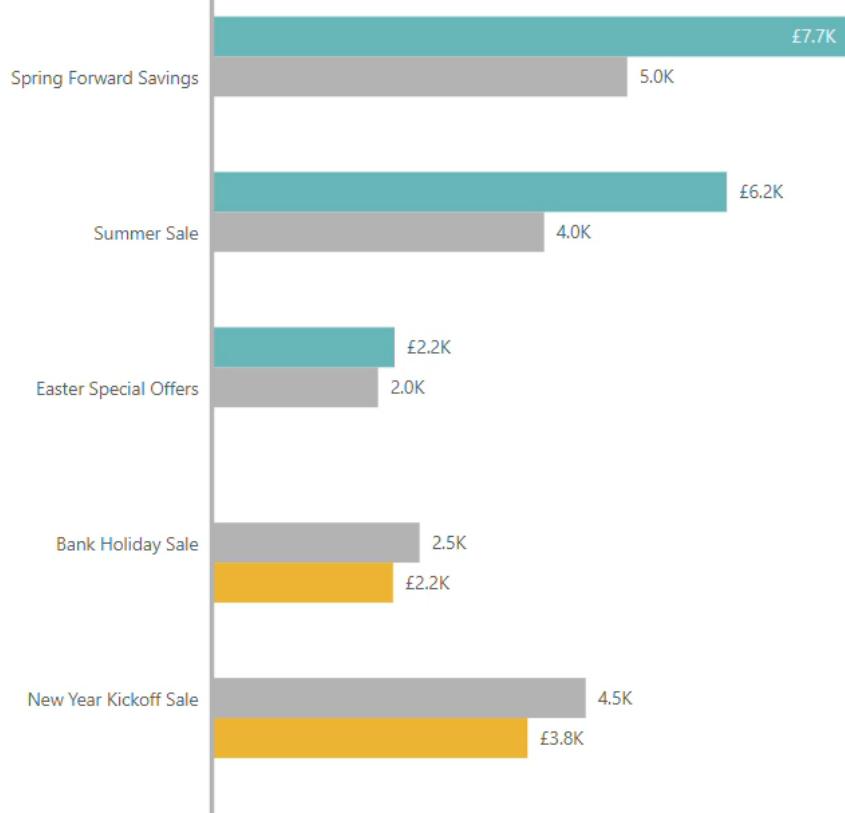
up by 25.1% vs PQ

Ad cost YTD

£357,982

Overall Return of campaign cost: +21%

- Campaign cost
- Positive ROI
- Negative ROI



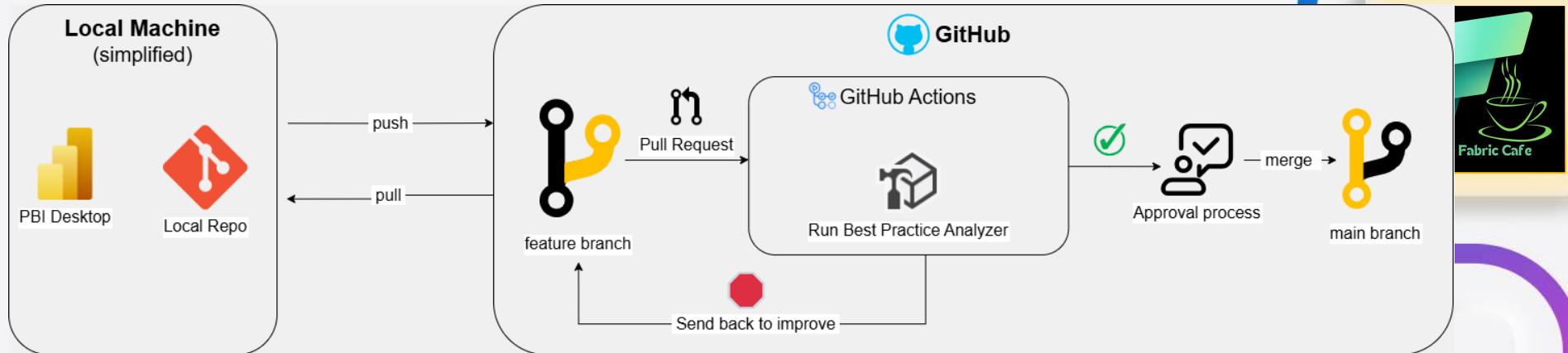
Sale Period	Cost (£)
Spring Forward Savings	£7.7K
Summer Sale	£6.2K
Easter Special Offers	£2.2K
Bank Holiday Sale	£2.2K
New Year Kickoff Sale	£3.8K

Marketing

Page 1 of 1

113%

This is just the beginning!





Summary

- PBIP & TMDL enhance development quality and efficiency
- Integrating with GitHub ensures smoother, secure, and standardized delivery
- Connecting GitHub and PBI Service may also improve the quality of your deployment cycle
- GitHub Actions – where CI/CD starts





Reminder

- Still in preview! - but for only a few weeks now!
- **Make sure everyone is using the way you intended and everyone is are comfortable using it**
- **Start using it now!** 🎉





Useful sources

- Kevin Chant
- Peer Grønnerup
- Rui Romano
- Mathias Thierbach



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Microsoft Learn



Thank you!

