



PowerBI

Enterprise Project Server 2016 and Project Online Reporting

Presented by


Hari Prasad Thapliyal

Agilest & Project Management Trainer, Coach & Consultant

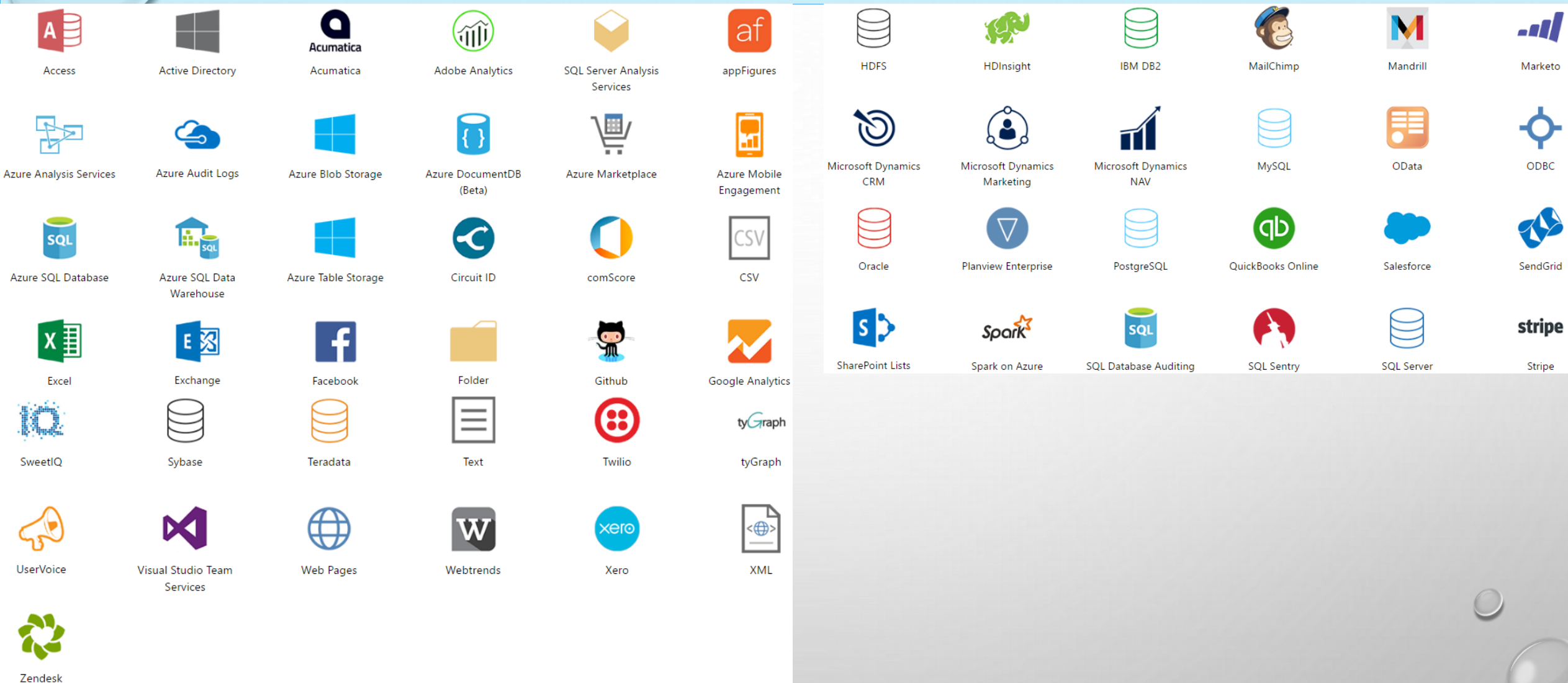
(MBA, MCA, PGDOM, PGDFM, CIC, PMP, PMI-ACP, CSM, SCPO, SDC

PRINCE2-Trainer, Scrum Certified Trainer, Microsoft Certified Trainer, ZED Master Trainer)

Although PowerBI can be used to connect to many kind of data stores and generate many kind of dashboard, reports and perform analysis. But in this presentation I am limiting myself to “Project Online”



PowerBI can Connect to many database/store/serives



Author	Share and collaborate	Scale large deployments
<p>Power BI Desktop</p> <p>Free</p> <p>DOWNLOAD FREE ></p> <hr/> <p>Connect to hundreds of data sources</p> <p>Clean and prepare data using visual tools</p> <p>Analyze and build stunning reports with custom visualizations</p> <p>Publish to the Power BI service</p> <p>Embed in public websites</p>	<p>Power BI Pro</p> <p>\$9.99</p> <p>per user per month</p> <p>TRY FREE ></p> <hr/> <p>Build dashboards that deliver a 360-degree, real-time view of the business</p> <p>Keep data up-to-date automatically, including on-premises sources</p> <p>Collaborate on shared data</p> <p>Audit and govern how data is accessed and used</p> <p>Package content and distribute to users with apps</p>	<p>Power BI Premium</p> <p>Capacity pricing</p> <p>per node per month</p> <p>PLAN YOUR COSTS ></p> <hr/> <p>Gain dedicated capacity you allocate, scale, and control</p> <p>Distribute and embed content without purchasing per-user licenses</p> <p>Publish reports on-premises with Power BI Report Server</p> <p>Unlock more capacity and higher limits for your Pro users</p>

Start sharing your data visualizations and insights

Power BI

Cloud collaboration and sharing

Use Power BI Pro to share and distribute reports with others, without any complicated setup. Get started now with a free 60-day trial of Power BI Pro.

[TRY FREE >](#)

Power BI Report Server

On-premises report deployment

Deploy and distribute interactive Power BI reports—and traditional paginated reports—within the boundaries of your organization's firewall.

[LEARN MORE >](#)

Method 1 to Connect to Project Online using PowerBI

On Premise Power BI

Using this Method

You need to create all report, dashboard from start.



To connect to Project Online database you need to have Project Online account before you proceed

- **Step 1: Download Power BI Desktop**

- [Download Power BI Desktop](#), then run the installer to get **Power BI Desktop** on your computer.

- **Step 2: Connect to Project Online with OData**

- Open **Power BI Desktop**.
- On the *Welcome* screen, select **Get Data**.
- Choose **OData feed** and select **Connect**.
- Enter the address for your OData feed in the URL box, and then click OK.

URL Format: https://<tenantname>.sharepoint.com/sites/pwa/_api/Projectdata

Example: https://contoso.sharepoint.com/sites/pwa/_api/Projectdata

https://vedavit.sharepoint.com/sites/pwa/_api/Projectdata

- Power BI Desktop will prompt you to authenticate with your Office 365 account. Select Organizational account and then enter your credentials.

Connect to Project Online

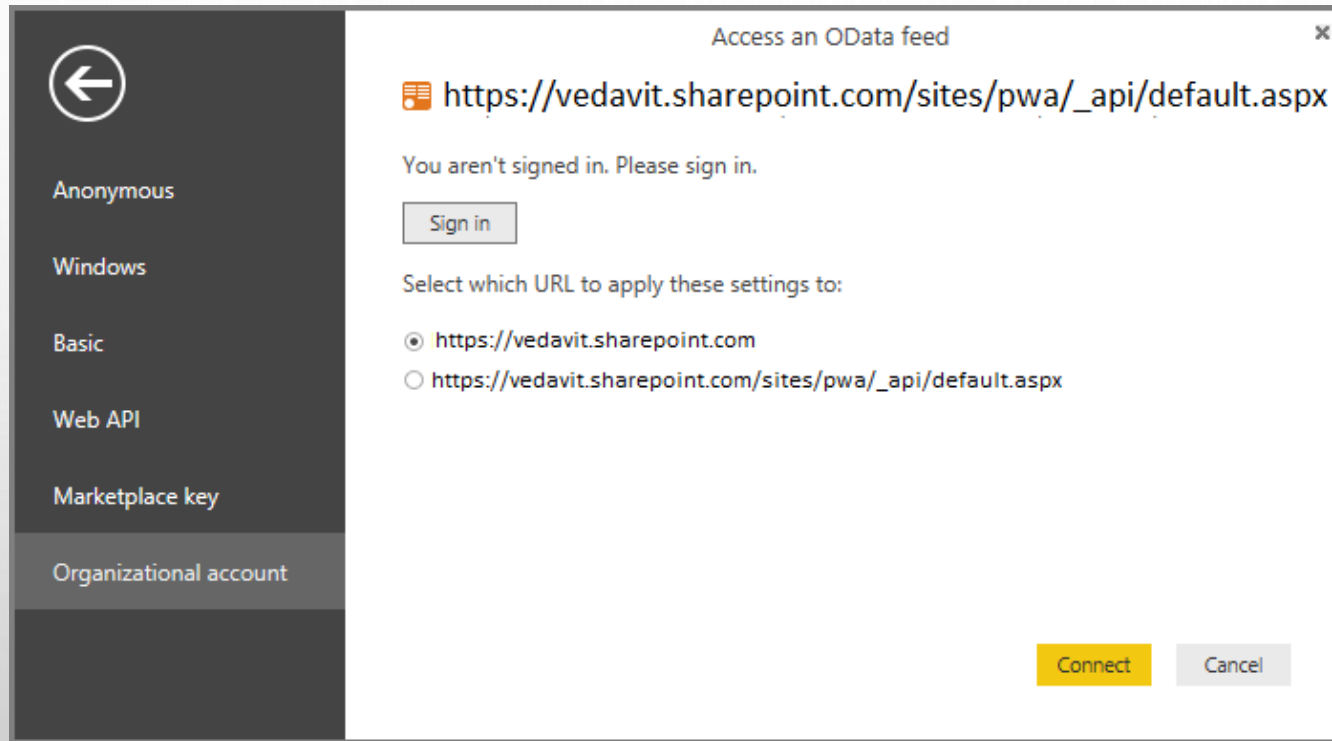
The screenshot illustrates the steps to connect to Project Online in Power BI Desktop:

1. Click the **Get Data** button in the ribbon.
2. Select **Other** in the list of data sources.
3. Select **OData Feed** in the 'Other' list.
4. Enter the URL `https://vedavit.sharepoint.com/sites/pwa/_api/Projectdata` in the 'OData feed' dialog box.

The 'OData feed' dialog box shows the **Basic** tab selected and the URL field populated with the provided URL. The **OK** button is highlighted in yellow.

Connect to Project Online

You need to login here and authorize PowerBI on Project Online database to access the data. This is one time job.



After login. Click on connect to get access to all your Project Online data

Now you are connected to Project Online database. You can play around and create whatever report, chart, dashboard you want to create

Method 2 to Connect to Project Online using PowerBI

Cloud Collaboration

Using this Method

You get access to [out of the box reports/dashboards](#)



Launch PowerBI to See Project Dashboard & Reports

Secure | <https://vedavit.sharepoint.com/sites/pwa/default.aspx>

Apps | Press This | Mozilla Firefox | Press This | Microblogging - Wiki | Other bookmarks

Office 365 | Project | Hari Thapliyal

BROWSE

Home

Projects

Approvals

Tasks

Timesheet

Issues and Risks

Resources

Status Reports

Strategy

Driver Library

Driver Prioritization

Portfolio Analyses

Reports

Server Settings

EDIT LINKS

Get Started with Project Web App REMOVE THIS

Create or import projects.

New to Project Online?

Download Project Pro for O365

Analyze your data with Power BI.

Use reports. Gain insight.

Share your site.

More features?

Your site. Your brand.

Add lists, libraries, and other apps.

Track your work

Projects

Approvals: 0 Pending

Tasks: 0 New

Reports

You need **PowerBI Pro** Account

Login into to Office365 Account to Authenticate PowerBI to get your data

Microsoft Power BI

Almost there

You're signed in as hari@vedavit.onmicrosoft.com

By choosing **Start**, you agree to our [terms and conditions](#) and understand that your name and email address will be visible to other people in your institution. [Microsoft Privacy Policy](#)

Start ➞

Microsoft Power BI

Invite more people

Power BI makes it easy to create and share data stories. Tell your friends. It's free.

User name	@vedavit.onmicrosoft.com
User name	@vedavit.onmicrosoft.com
User name	@vedavit.onmicrosoft.com
User name	@vedavit.onmicrosoft.com
User name	@vedavit.onmicrosoft.com

Send invitations ➔

[Skip](#)


To Connect to Your Project Online Database Click “GET IT NOW”

AppSource

Power BI

×

← Apps



Microsoft Project Online

Microsoft

Explore and monitor key aspects of your PPM deployment such as Projects, Issues, Risks and more

Import and analyze data from Project Online in Power BI. The content pack is designed to help you quickly connect to your Project Online tenant in Office 365 and quickly download a variety of data to visually explore and monitor all the key aspects of your PPM deployment such as Projects, Issues, Risks and much more. Note that Project Online Premium is required to access this content pack.

GET IT NOW

Products

Power BI

Publisher

Microsoft

Accounts supported

Work or school account

Power BI

Microsoft Project

Microsoft Project

Microsoft Project

Microsoft Project

Microsoft Project

Ask a question about the data on this dashboard

How to ask

Planned Baseline Work, Work, Actual Remaining Work

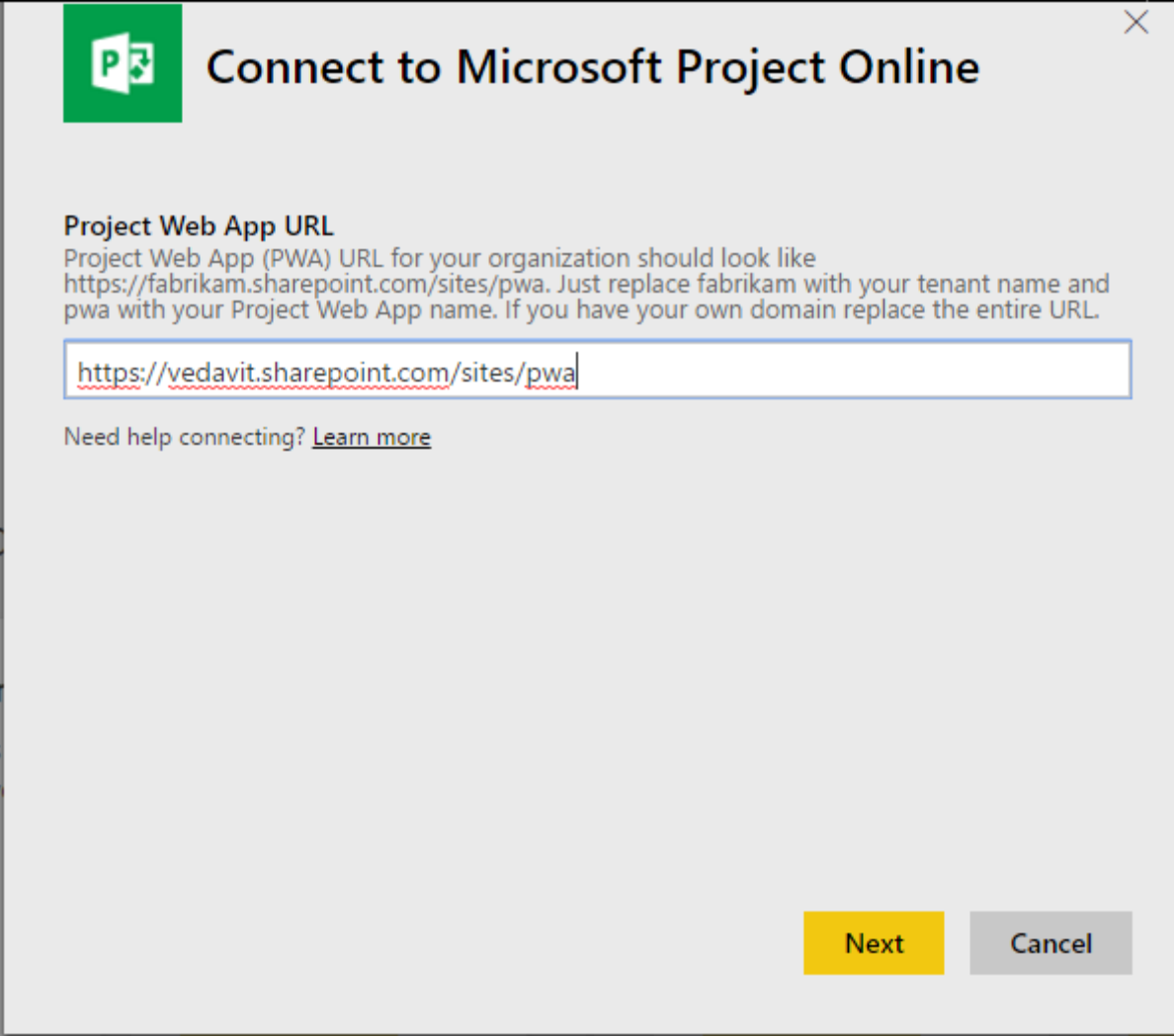
Planned Baseline Work, Work, Actual Remaining Work

Overdue and Upcoming Milestones

11/17/2015 6:36:45 PM

Last Refreshed

Enter your PWA URL



Connect to Microsoft Project Online

Project Web App URL
Project Web App (PWA) URL for your organization should look like
`https://fabrikam.sharepoint.com/sites/pwa`. Just replace fabrikam with your tenant name and
pwa with your Project Web App name. If you have your own domain replace the entire URL.


`https://vedavit.sharepoint.com/sites/pwa`

Need help connecting? [Learn more](#)

Next **Cancel**

Replace “Vedavit”
with your name,
whatever you used
to create PWA

When you purchase
or get trial version
of project, you need
to register your
details there. This
name information is
entered there.



Connect to Microsoft Project Online

url

Authentication method

OAuth2


Need help connecting? [Learn more](#)

Sign in


Cancel

Sign in to your account - Google Chrome


Microsoft Corporation [US] | https://login.microsoftonline.com/common/oauth2/authorize?state=app.powerbi.com&display&client_id=a672d62c-fc7




Office 365



Hari Thapliyal
hari@vedavit.onmicrosoft.com
Signed in



Hari Thapliyal
hari.thapliyal@gmail.com



Use another account

It takes some time and refresh extract the data from Project Online

Work or school, or personal Microsoft account

Sign in

Dashboards

Secure | <https://app.powerbi.com/groups/me/contentlist/dashboards?onlySharedWithMe=false>









Apps Press This Mozilla Firefox Press This Microblogging - Wiki Other bookmarks

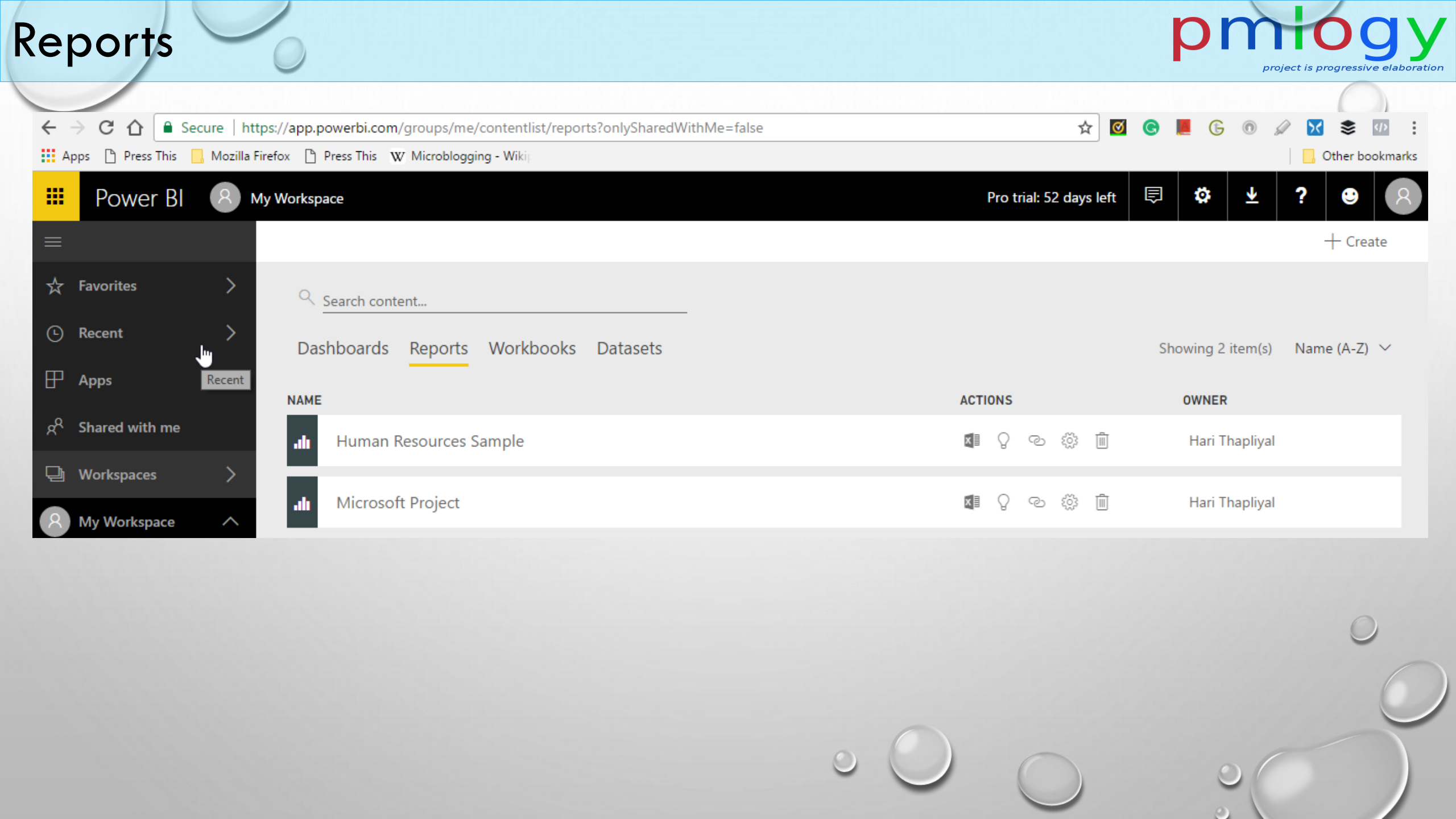
Power BI My Workspace Pro trial: 52 days left

+ Create

Search content...

Dashboards Reports Workbooks Datasets Showing 2 item(s) Name (A-Z)

NAME	ACTIONS	OWNER
☆ Human Resources Sample	   	Hari Thapliyal
★ Microsoft Project	   	Hari Thapliyal



Reports

←

→

↺

🏠

Secure | https://app.powerbi.com/groups/me/contentlist/reports?onlySharedWithMe=false

☆

🟢

🟢

🔴

🟢

🕒

✍️

🔗

📁

⌵

⋮

Apps | Press This | Mozilla Firefox | Press This | Microblogging - Wiki | Other bookmarks

📊

Power BI

👤 My Workspace

Pro trial: 52 days left

💬

⚙️

⬇️

?

😊

👤

☰

☆ Favorites >

🕒 Recent >

📱 Apps

Recent

👥 Shared with me













📁 Workspaces >

👤 My Workspace ^

🔍 Search content...

Dashboards Reports Workbooks Datasets

Showing 2 item(s) Name (A-Z) ▾

NAME	ACTIONS	OWNER
 Human Resources Sample	    	Hari Thapliyal
 Microsoft Project	    	Hari Thapliyal

Secure | <https://app.powerbi.com/groups/me/contentlist/datasets?onlySharedWithMe=false>











Apps Press This Mozilla Firefox Press This Microblogging - Wiki Other bookmarks

Power BI My Workspace Pro trial: 52 days left

Search content...

Dashboards Reports Workbooks **Datasets**

Showing 2 item(s) Name (A-Z) ▾

NAME	ACTIONS	LAST REFRESH	NEXT REFRESH	API ACCESS
 Human Resources Sample	    ..	5/11/2017, 11:58:38 AM	N/A	--
 Microsoft Project	    ..	5/18/2017, 5:50:23 PM	5/19/2017, 7:38:13 AM	--

Report Layout Screen (Out of the box)

Secure | <https://app.powerbi.com/groups/me/reports/19c09bca-fb1e-45ea-8ba5-0f74a6cbfab8/ReportSection2>

Apps | Press This | Mozilla Firefox | Press This | Microblogging - Wiki | Other bookmarks

Power BI | My Workspace > Microsoft Project | Pro trial: 52 days left

File View Reading view | Explore | Text Box 1 | Shapes 2 | Visual Interactions | Refresh | Duplicate this page | Save | Pin Live Page | ...

Issues

5/18/2017 12:20:31 PM

1 Total Active Issues (Blank) Total Postponed Issues (Blank) Issues Closed

Total Active Issues by Priority

Issues Opened and Issues Closed by Month

May 2017

Total Active Issues and Total Postponed Issues by Project Name

ABC Maintenance ...

Priority (1) High

Project Name	Issue Title	Assigned To	Owner	Priority	Status	Created Date	Link
ABC Maintenance Project	Team leader has resigned			(1) High	(1) Active	5/17/2017	https://vedavit.sharepoint.com/s

Visualizations | Fields

Values

Drag data fields here

Filters

Page level filters

Age(All) X

Assigned To(All) X

Category(All) X

Create By(All) X

Issue Status(All) X

Modified By(All) X

Owner(All) X

Applies to all the visuals on this page

Issues 5 | Portfolio Status | Project Compliance | Risks | +

Visualizations



Different type of charts and map you can use on reports and dashboard to present your data



Fields



Search

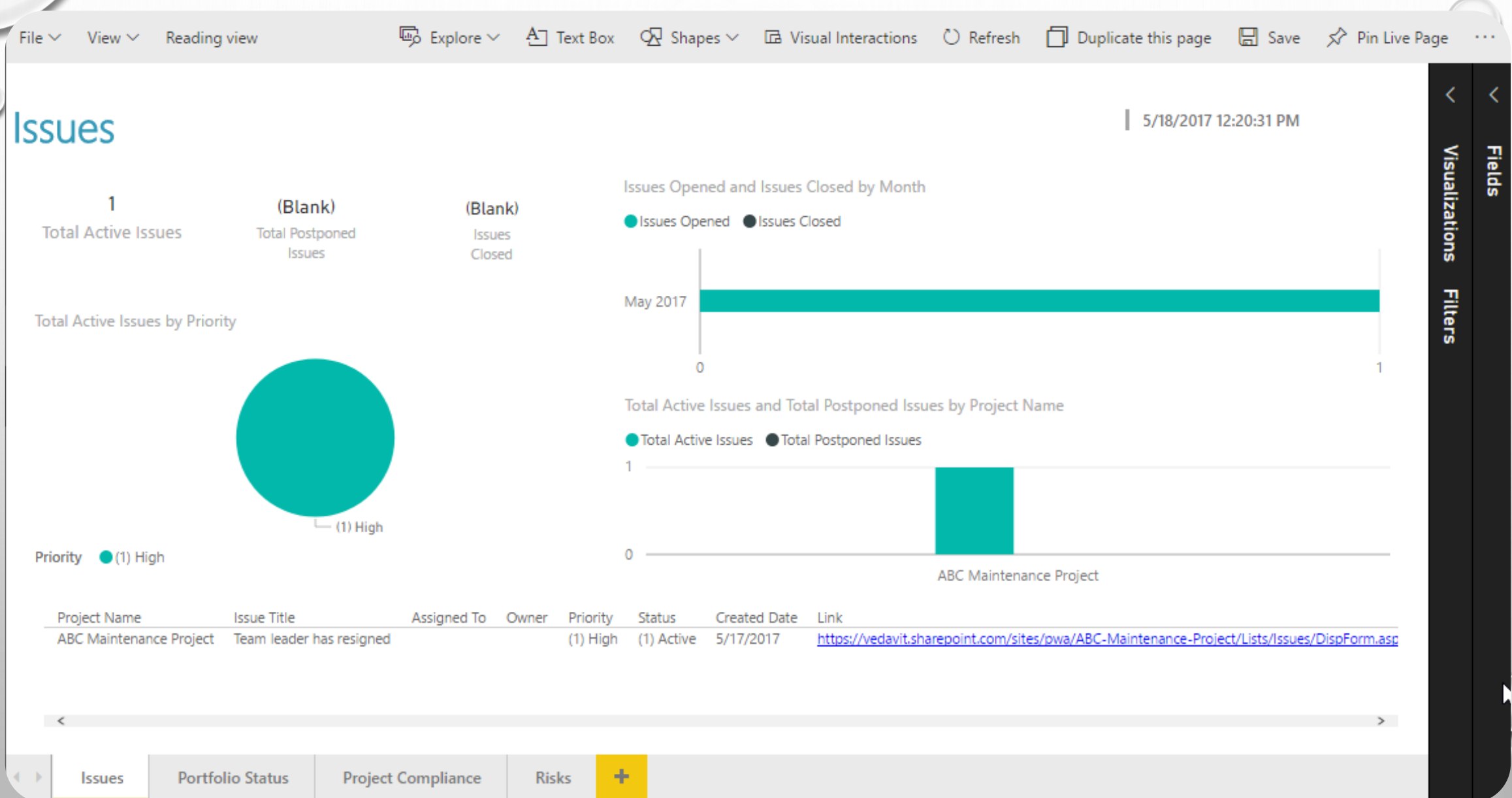
Visualizations

Filters

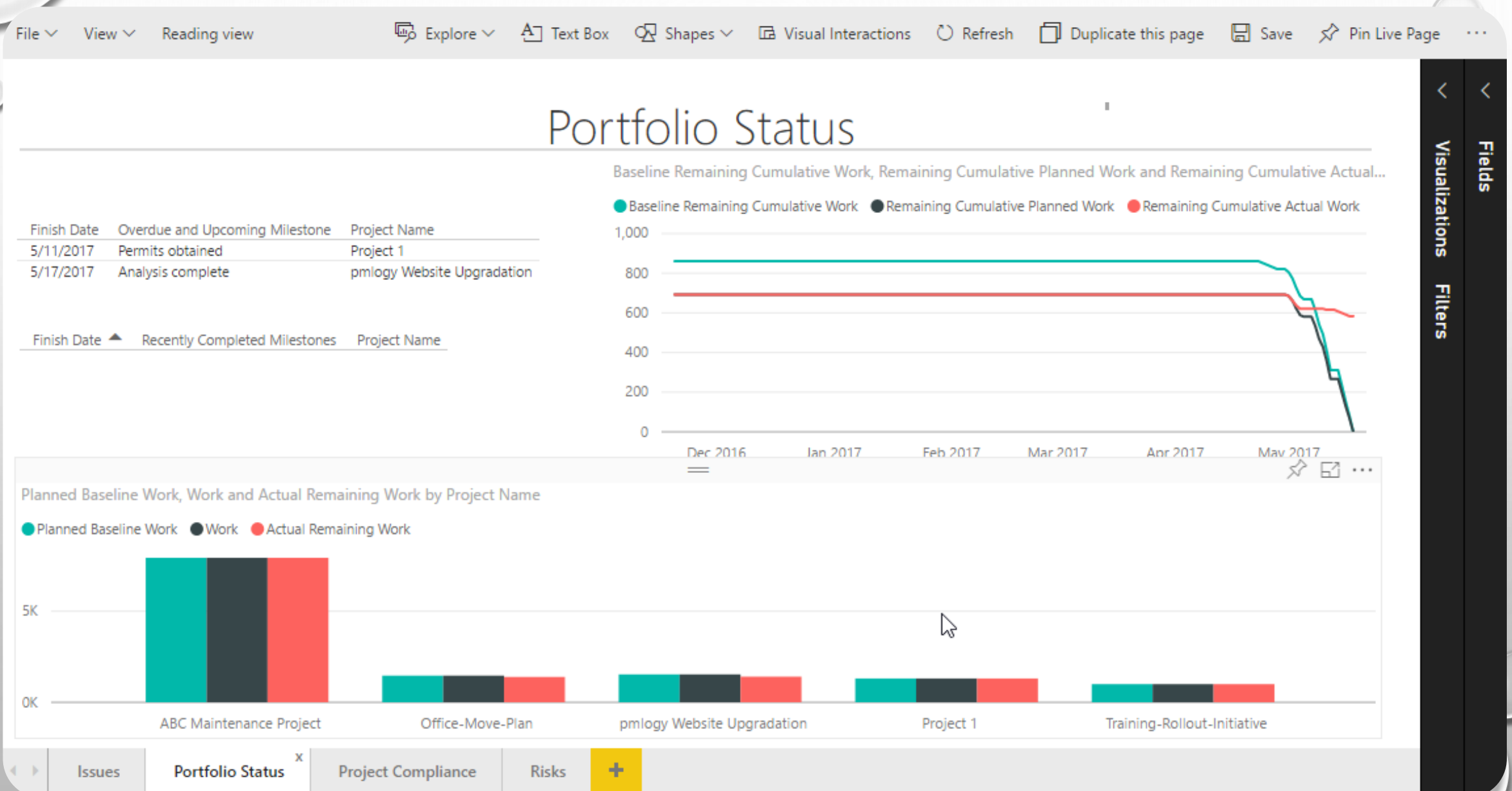
- ▶ AssignmentBaselin...
- ▶ AssignmentTimeph..
- ▶ Issues
- ▶ LastRefresh
- ▶ ODataUrl
- ▶ ProjectBaselines
- ▶ Projects
- ▶ Risks
- ▶ Tasks
- ▶ TimeSet

Various tables and fields you can select to create meaningful dashboard and reports

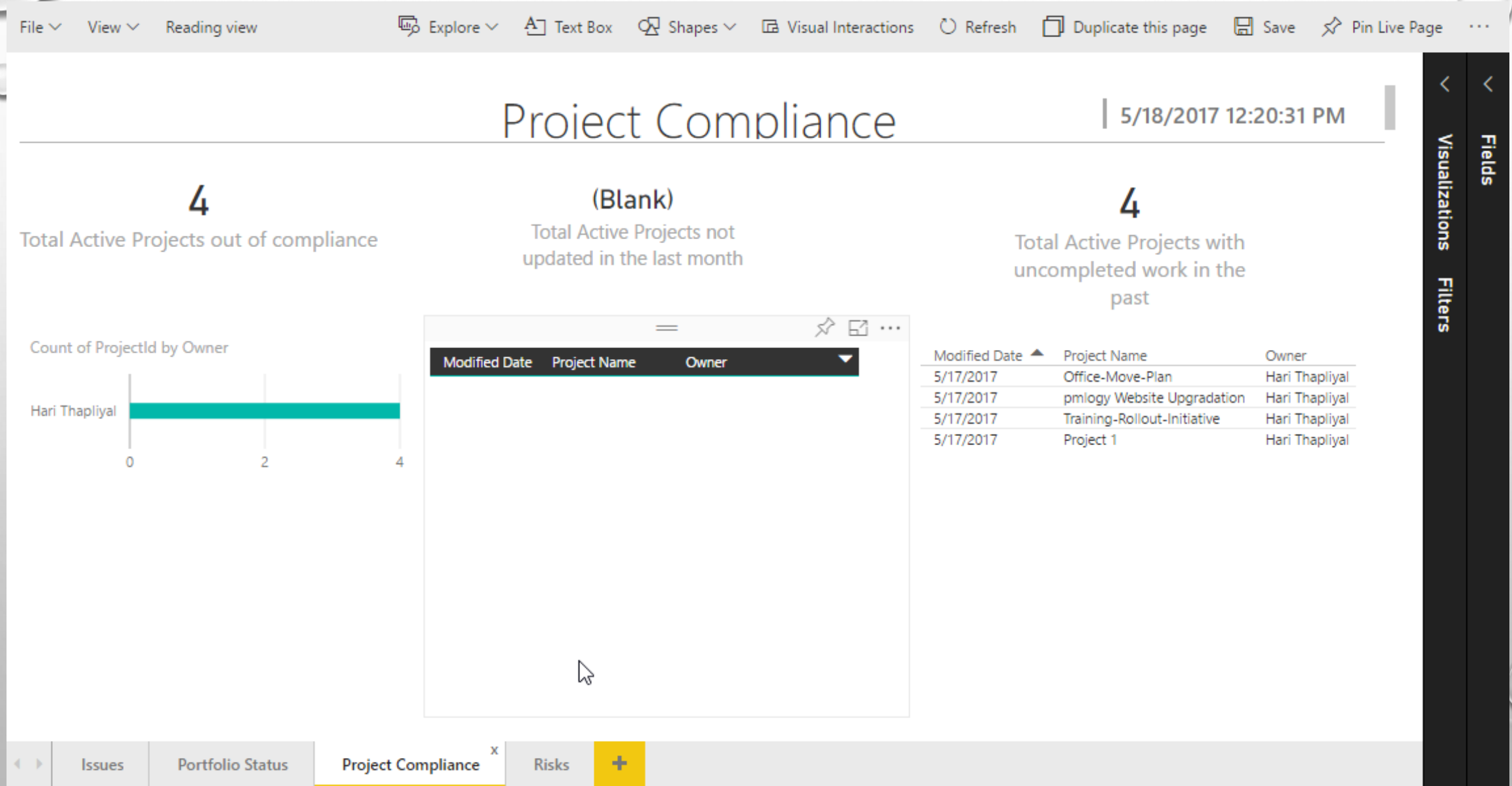
Reports-Issues (Pre-existing)



Reports-Portfolio Status (Pre-existing)



Reports-Compliance (Pre-existing)



Reports-Risk (Pre-existing)

File

View

Reading view

Explore

Text Box

Shapes

Visual Interactions

Refresh

Duplicate this page

Save

Pin Live Page

Save

Save this report

Save as

Save a copy of this report

Print

Print current page

Publish to web

Embed this report for public access by anyone on the Internet

Export to PowerPoint (Preview)

Export this report as a PowerPoint presentation

Download report (Preview)

Download a .pbix copy

Risks

5/18/2017 12:20:31 PM

Risks Opened and Risks Closed by Month

Risks Opened

Risks Closed

1

0

May 2017

Total Active Risks and Total Postponed Risks by Project Name

Total Active Risks

Total Postponed Risks

1

0

ABC Maintenance Project

Prob... 0.15

Impact 9

Project Name	Risk Title	Assigned To	Owner	Probability	Impact	Status	Created Date	Link
ABC Maintenance Project	Internet connection may not be available at the time of demo	Hari Thapliyal	Hari Thapliyal	15 %	9.00	(1) Active	5/17/2017	https://vedavit.sharepoint.com/sites/pv

Issues

Portfolio Status

Project Compliance

Risks

+

Dashboard (Pre-existing)

Ask a question about your data

Planned Baseline Work, Work, Actual Remaining Work



Overdue and Upcoming Milestones

Finish Date	Overdue and Upcoming Milestone	Project Name
5/11/2017	Permits obtained	Project 1
5/17/2017	Analysis complete	pmlogy Website Upgradation

5/18/2017 12:20:31 PM
Last Refreshed

Baseline Remaining Cumulative Work, Remaining Cumulative Planned Work, Remaining Cumulative Actual Work



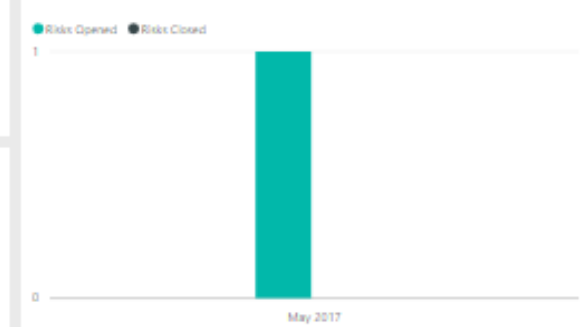
Projects Not Updated in the Last Month or with Incomplete Work in the ...



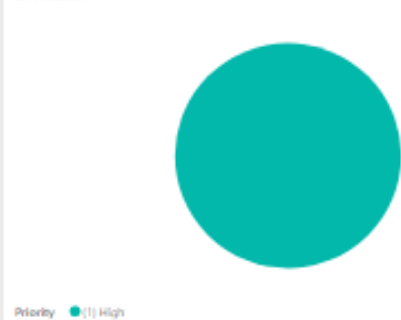
Active Issues



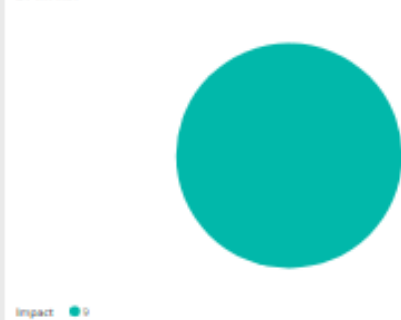
Risks Opened, Risks Closed



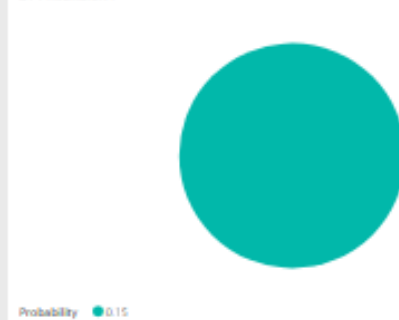
Active Issues



Active Risks



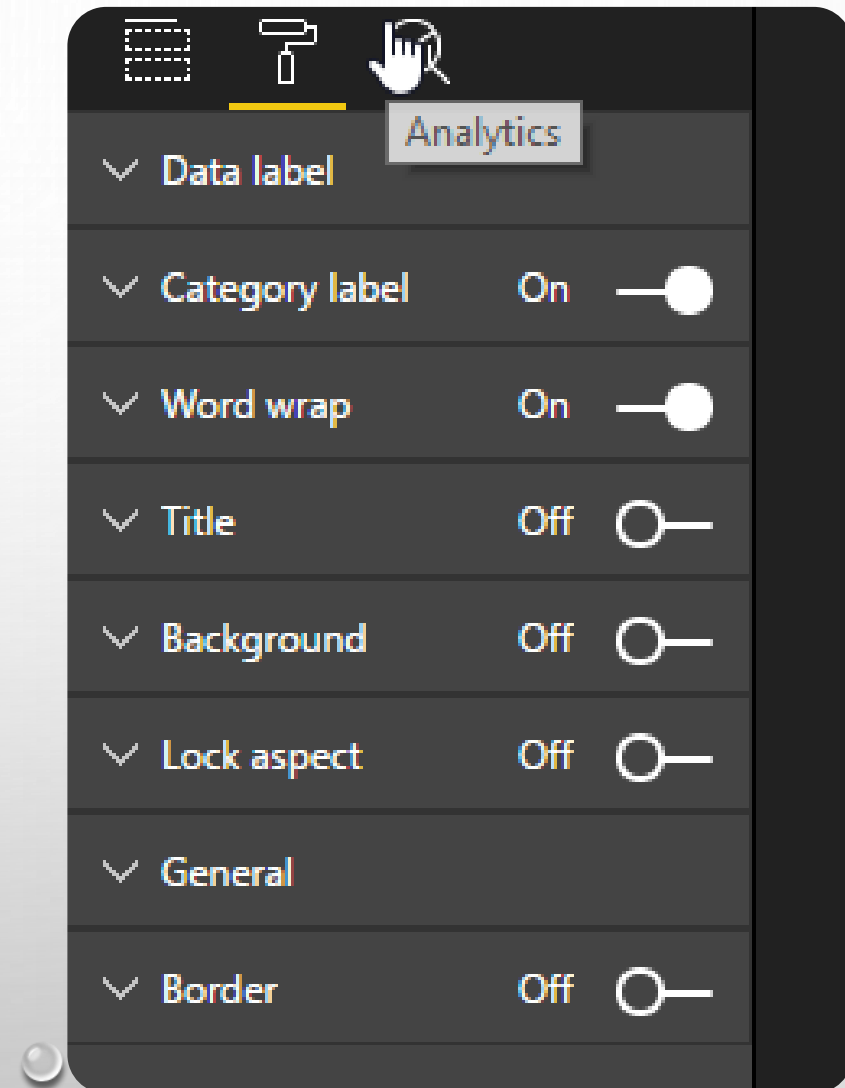
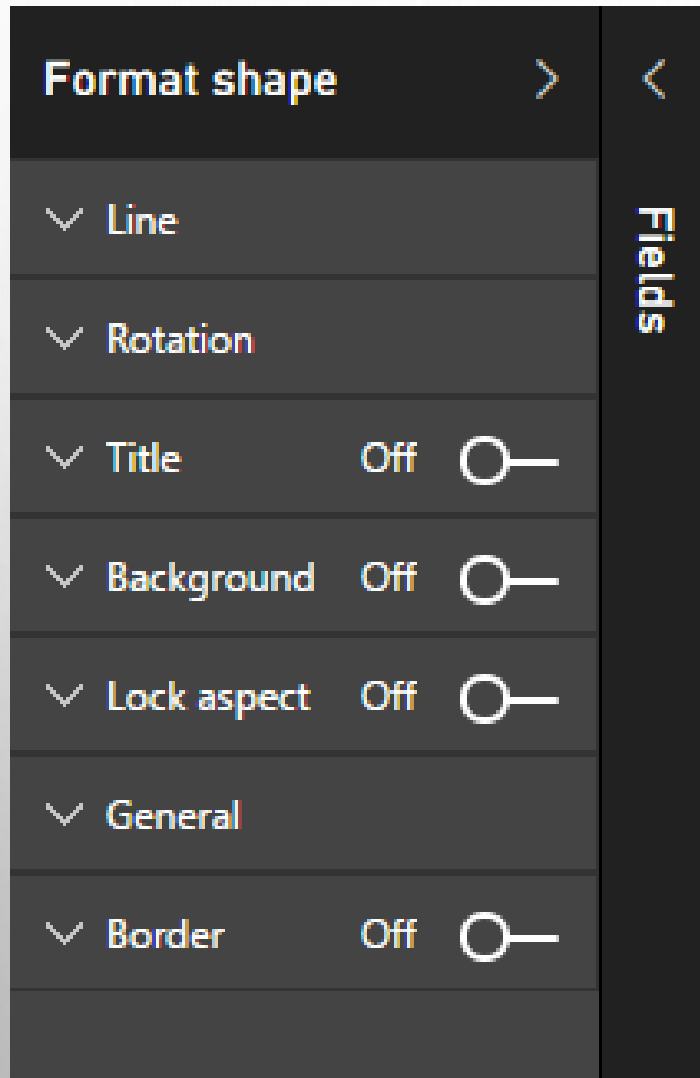
Active Risks



Issues Opened, Issues Closed



Shape and Field Formatter for Creating Attractive Dashboard and Reports





hari.prasad@vedavit-ps.com



+91 9535999336



<https://in.pinterest.com/harithapliyal>



<https://www.instagram.com/thapliyal.h>



<https://in.linkedin.com/in/harithapliyal>



<http://twitter.com/pmlogy>



<http://pmlogy.com/>



<http://facebook.com/harithapliyalpage>