

Power BI Report Server (PBIRS) What, why & How?

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About Me – Wolfgang Strasser



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Software, Business Intelligence and DWH @  **UBIDO**

SQL Server, SSIS, Power BI, ...

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A LITTLE BIT OF HISTORY

TN Microsoft Business Intelli

https://blogs.technet.microsoft.com/dataplatforminsider/2015/10/29/microsoft-business-intelligence-our-reporting-roadmap/

Apps Submit MVP Activity Addons

Server & Tools Blogs > Data Platform Blogs > SQL Server Blog

Sign in

Data Development

Data Quality Services

OLTP

Integration Services

Data Security & Storage

Data in the Cloud

Cortana Intelligence and Machine

SQL Server Blog

Official News from Microsoft's Information Platform

Microsoft Business Intelligence – our reporting roadmap

October 29, 2015 by [SQL Server Team](#) // 31 Comments

f 0

t 25

in 313

For eight consecutive years, Microsoft has been positioned as a Leader in the [Gartner Magic Quadrant for Business Intelligence and Analytics Platforms](#). And while each year has seen advances across our product line, this past year's progress is truly unprecedented. We firmly believe Microsoft now offers the industry's most complete and modern business intelligence product family – with unmatched breadth and depth.

At first approach, this depth can be overwhelming – how do all the components fit together? Where are things heading in the future? These are frequent questions from our customers and partners.

As we approach the release of [SQL Server 2016](#) it's a great time to tackle those questions in a definitive blog.

Where we are heading

Our goal is simple – we want to put the power of data in the hands of every business and person on the planet. It is our objective to serve over a billion users with the Microsoft business intelligence (BI) platform.

SQL Server Reporting Services

Marketing Dashboard 2013

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Archives

August 2016 (3)

July 2016 (7)

June 2016 (10)

May 2016 (3)

April 2016 (10)

March 2016 (18)

February 2016 (8)

January 2016 (11)

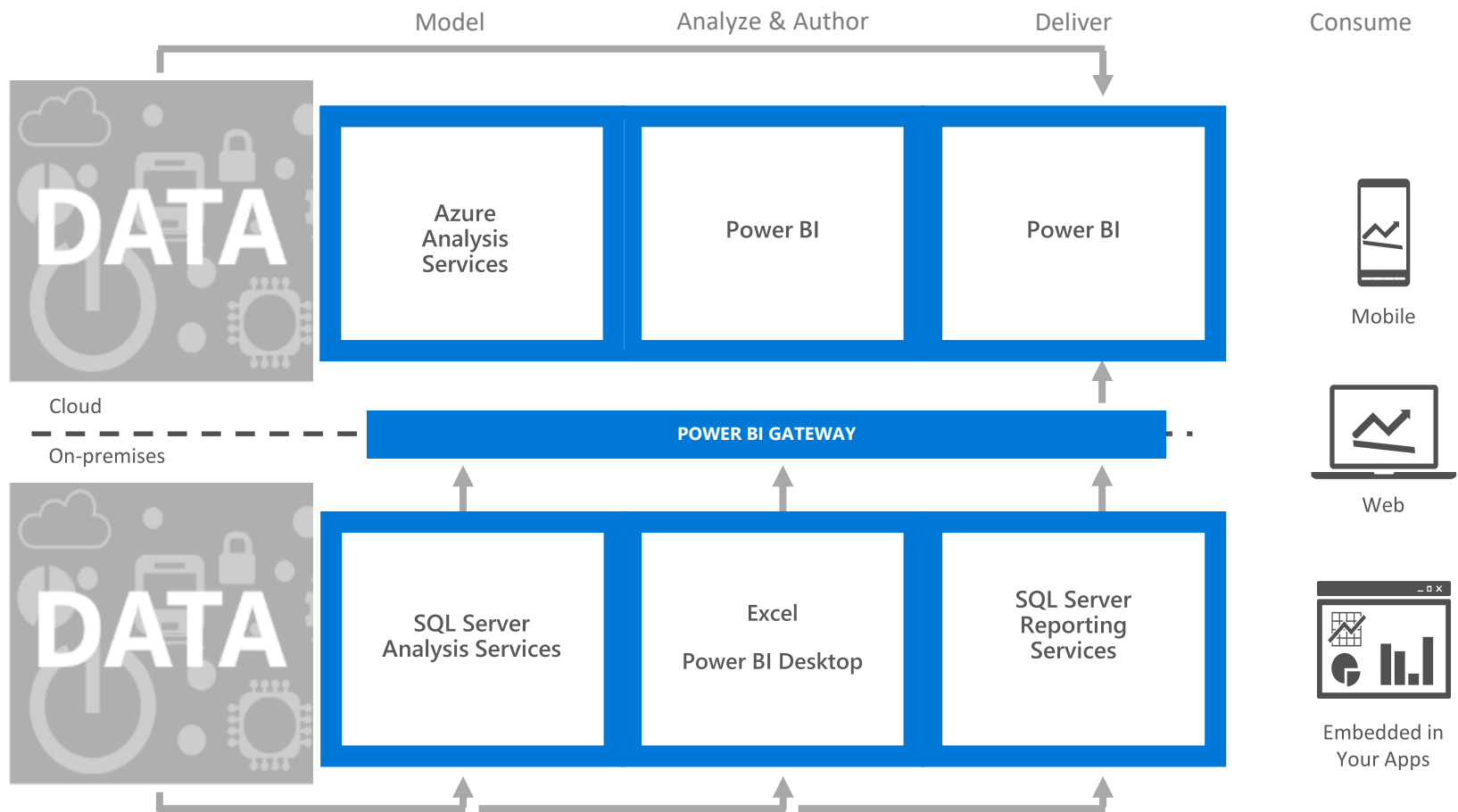
December 2015 (13)

All of 2016 (70)

All of 2015 (96)

<https://blogs.technet.microsoft.com/dataplatforminsider/2015/10/29/microsoft-business-intelligence-our-reporting-roadmap/>

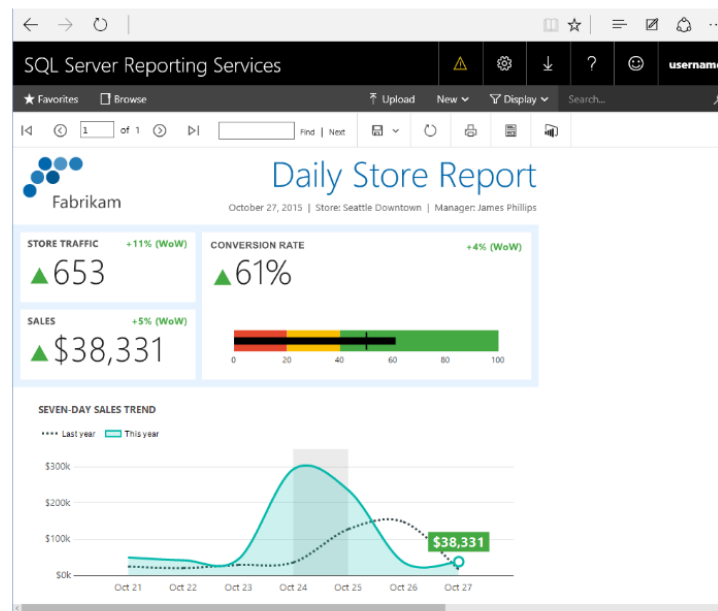
CLOUD ONLY!?
CLOUD PARITY!?



Harmonizing report types

We intend to standardize reporting content types across Microsoft on-premises, cloud and hybrid systems. Our reporting path forward focuses on four report types:

- **Paginated reports** built with SQL Server Report Builder or SQL Server Data Tools. Paginated reports allow for exact placement of elements on a page and are capable of complex display logic for creating printed reports or online operational reports. Paginated/operational reports have been a popular, invaluable foundation for day-to-day reporting and analytics for over a decade. These reports will continue to be a standard report type.
- **Interactive reports** built with [Power BI Desktop](#). Power BI Desktop is a contemporary visual data discovery application and the next generation of our Power View technology. It generates HTML5-based reports, ensuring compatibility across all modern browsers.
- **Mobile reports** are based on [Datazen technology](#). We believe dedicated reports optimized for mobile devices and form factors provide an optimal experience for users accessing BI reports on mobile devices. By specifically designing reports for different mobile form factors, we deliver on our promise and enable users to get business insights, any way, anywhere and from any device.
- **Analytical reports and charts** created with Excel. Excel is the most widely used analytical tool today and it will continue to be an important report type, critical to our solution on-premises and in the cloud.





Interactivity

Mobility

Standard

Spreadsheets

Interactivity
Power BI

Mobility
Mobile Reports

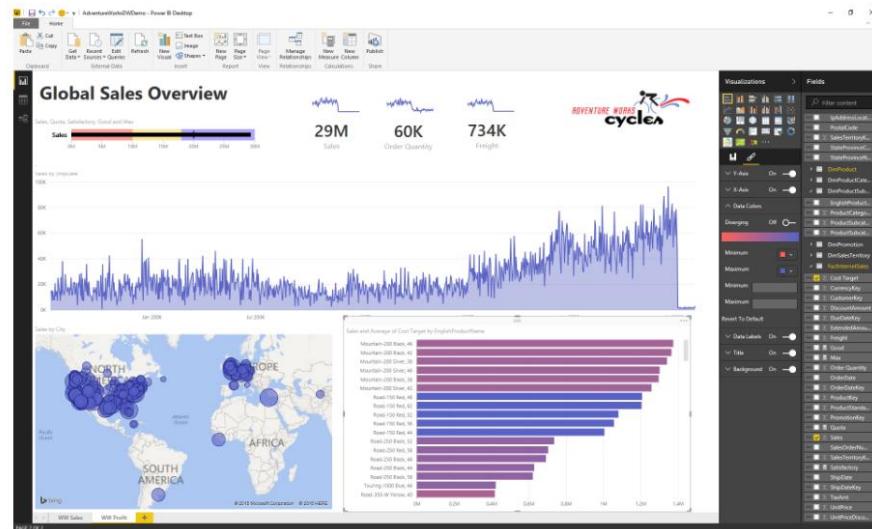
SSRS

Standard
Reporting Services

Spreadsheets
Excel

Publish Power BI Desktop Reports on-premises

Power BI Desktop is a data discovery and interactive reporting tool allowing business analysts to connect, prepare, and visually explore data across a freeform canvas. It combines the strengths of Power Query to connect to a vast spectrum of data sources and easily shape data, Power Pivot for rich data blending and modeling, and next generation Power View to intuitively perform visual analytics and author compelling reports.



Based on the same technology as Power View, Power BI Desktop supports existing Power View reports and provides the future path to a HTML5 based interactive report experience on-premises.

Just as we've added mobile report delivery to SSRS in SQL Server 2016, we intend to add governed Power BI Desktop report delivery in the future. Today Power BI Desktop supports publishing of reports to Power BI; Power BI Desktop is free to use, [experience it yourself today](#).

2,568

votes

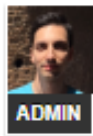
Vote

PowerBI reports and dashboard on-premise hosting

As per available documentation, power bi reports and dashboards will be published to microsoft cloud. It is very awesome approach as it saves all overhead of maintaining infrastructure. But there are case where on-premise hosting is required, Can we configure on-premise server to host power bi reports just like SSRS reports?



sandeep yadav shared this idea · May 14, 2015 · [Flag idea as inappropriate...](#)



ADMIN

COMPLETED · Riccardo Muti (Admin, Microsoft Power BI) responded · June 21, 2017

Hi everyone,

With Power BI Report Server now generally available (<https://powerbi.microsoft.com/report-server/>), we're marking this idea completed. I want to take this opportunity to thank each and every one of you for participating in this community over the past few months and taking time out of your busy days to try the previews and share your feedback; I can't overemphasize how much we appreciate it and how much it contributes to the product.

In case you missed it, check out our recent blog post, "A closer look at Power BI Report Server" (<https://blogs.msdn.microsoft.com/sqlrsteamblog/2017/05/17/a-closer-look-at-power-bi-report-server/>).

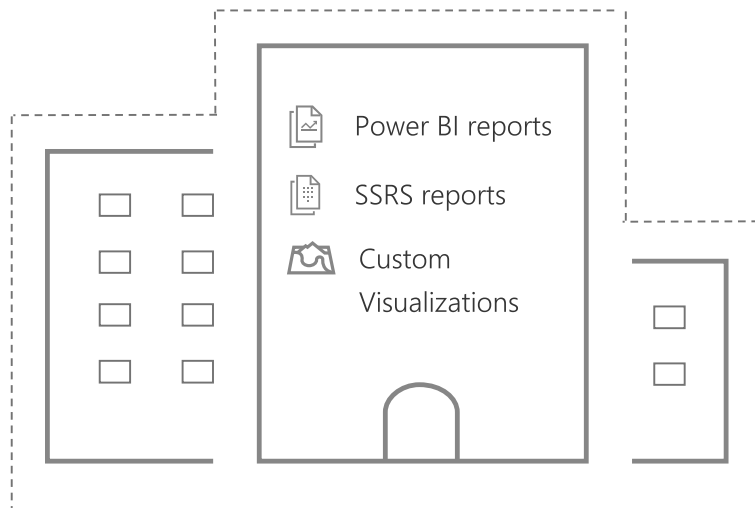
While the June 2017 release supports Power BI reports that connect "live" to Analysis Services, we're hard at work on integrating the Power Query/M-language and Analysis Services/DAX engines to unlock direct connectivity to the other Power BI Desktop data sources, targeted for later this (calendar) year.

We've now created a "Report Server" category for your ideas. Have an idea for a feature you'd like to see in a future release of Power BI Report Server? Submit it here: <https://ideas.powerbi.com/forums/265200-power-bi-ideas/category/207604-report-server>.

Thanks!

INTRODUCING POWER BI REPORT SERVER (PBIRS)

What is Power BI REPORT Server...



Keep Power BI reports on-premises



Includes all SSRS functionality

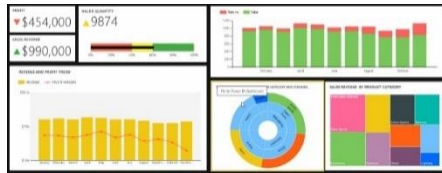


Move to the cloud on your terms

PBIRS = SSRS + Power BI Reports

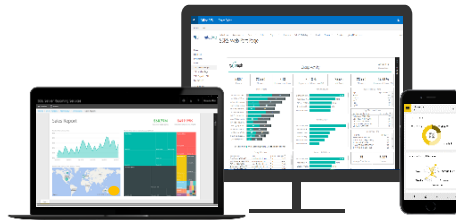
<https://powerbi.microsoft.com/report-server/>

Yes – It is SSRS under the hood...



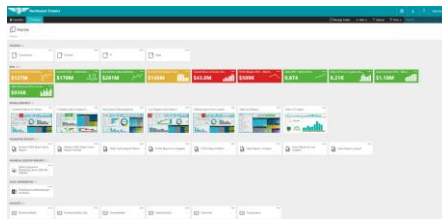
Publish SSRS reports

Create precisely-formatted paginated reports



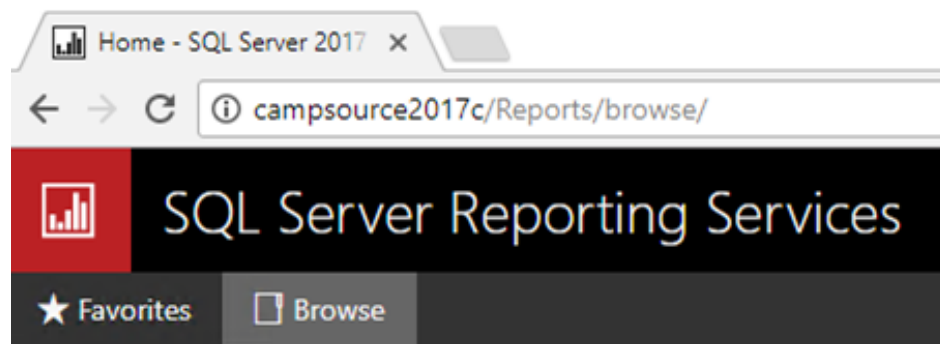
Consume in multiple ways

Web browser, mobile app, or embedded into your app

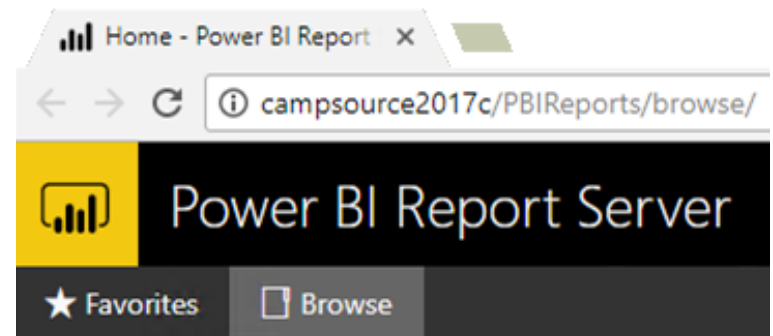


Benefit from an enterprise-ready solution

Organize reports, manage permissions, audit usage



Home
Home



Home
Home

BI DEVELOPERS / CONSULTANTS

Power BI Report Server

Create



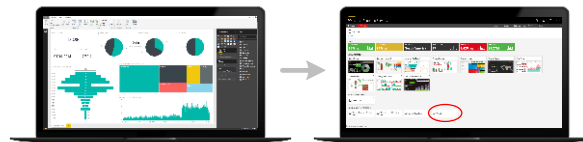
Create compelling interactive Power BI reports



Publish



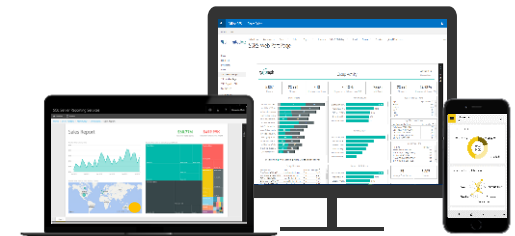
Publish seamlessly to Power BI Report Server



Consume



Consume in multiple ways to meet your business needs



Consume in multiple ways to meet business needs

Mobile Apps

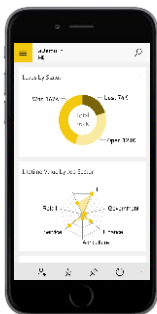
Windows Phone App



Android App

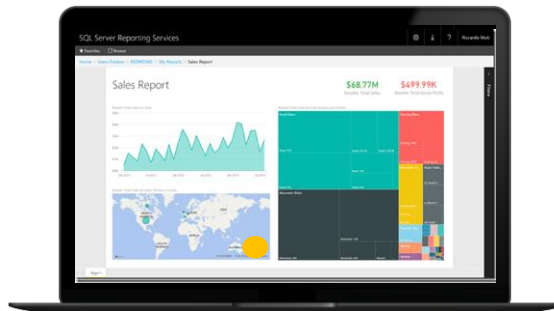


iOS App



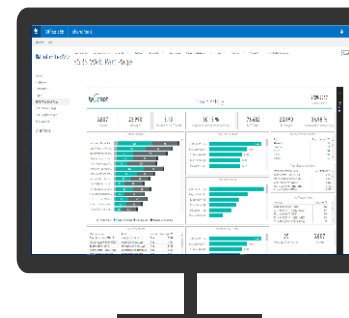
Web Portal

Consume with ease via Power BI Report Server web portal



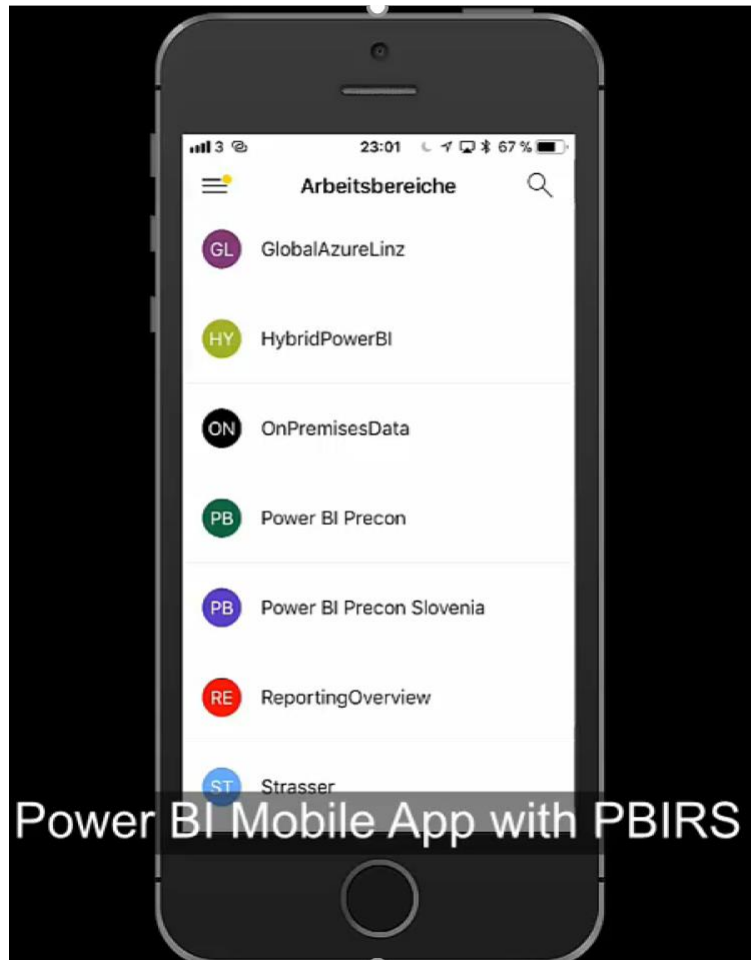
Embedded In Your Apps

Easy to embed into apps



POWER BI REPORT SERVER FOR EVERYONE


Power BI Mobile App & Power BI Report Server



https://youtu.be/6_j-tzQChBo

Power BI Mobile App with PBIRS

Power BI Desktop (Optimized for Report Server)



Options

GLOBAL

- Data Load
- Query Editor
- DirectQuery
- R scripting
- Security
- Privacy
- Updates
- Usage Data
- Diagnostics
- Preview features
- Auto recovery

CURRENT FILE

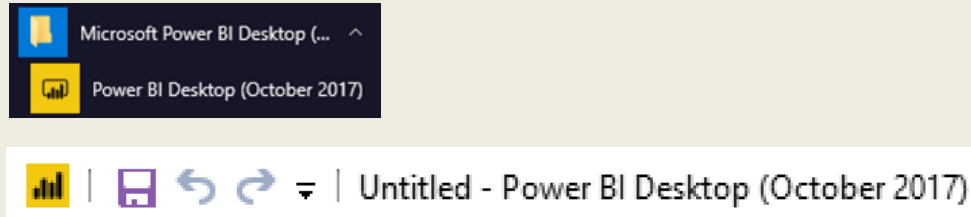
- Data Load
- Regional Settings
- Privacy
- Auto recovery
- Query reduction
- Report settings

Monthly releases

Can work with preview .. features

.. data sources

Works with powerbi.com



Options

GLOBAL

- Data Load
- Query Editor
- DirectQuery
- R scripting
- Security
- Privacy
- Usage Data
- Diagnostics
- Auto recovery

CURRENT FILE

- Data Load
- Regional Settings
- Privacy
- Auto recovery

PBI Desktop release coupled to PBIRS release

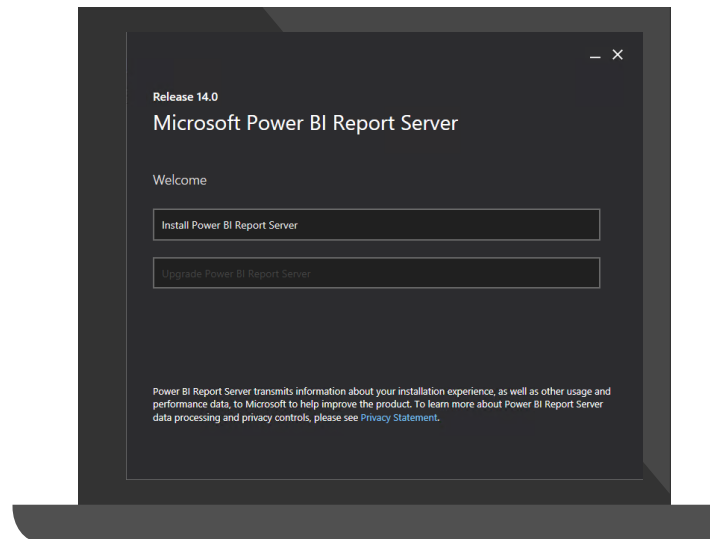
NO preview features

Save As for PBIRS

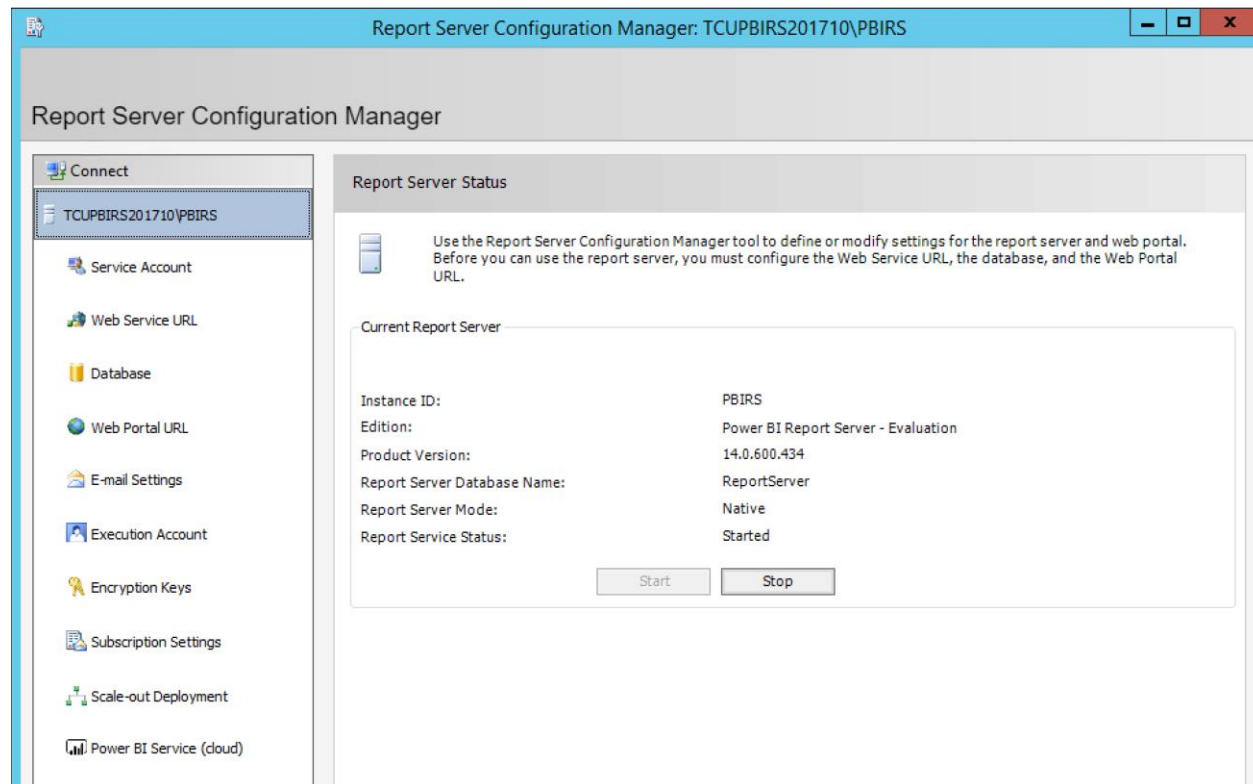
Publish to powerbi.com

ADMINISTRATION

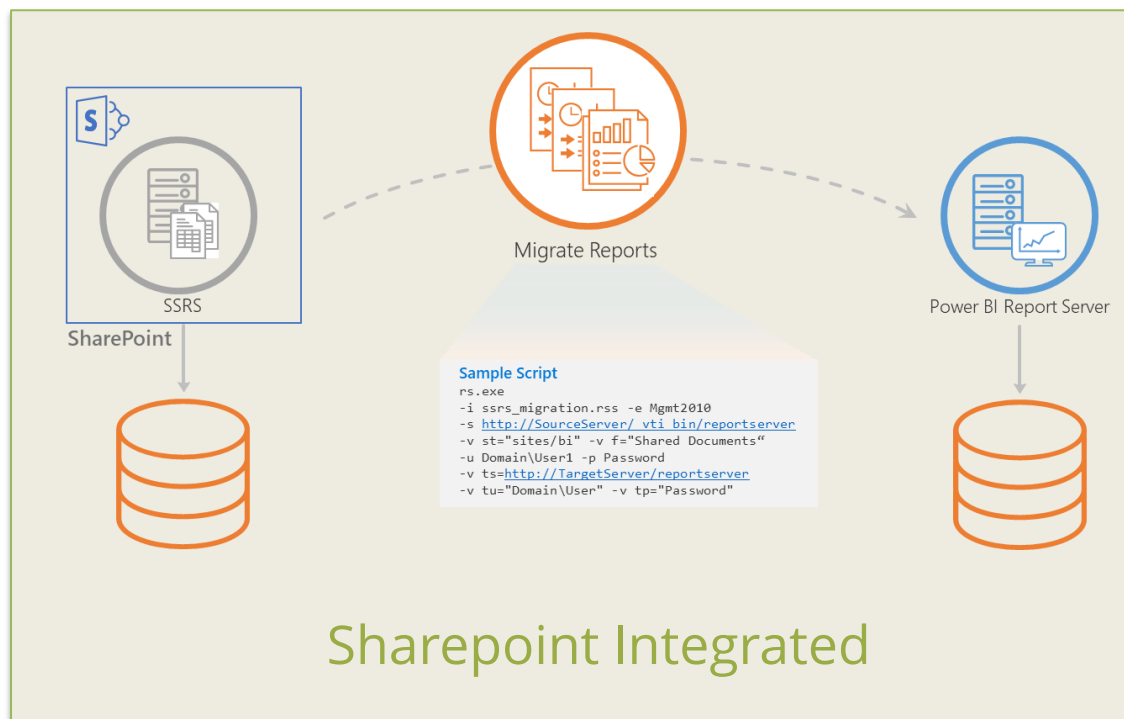
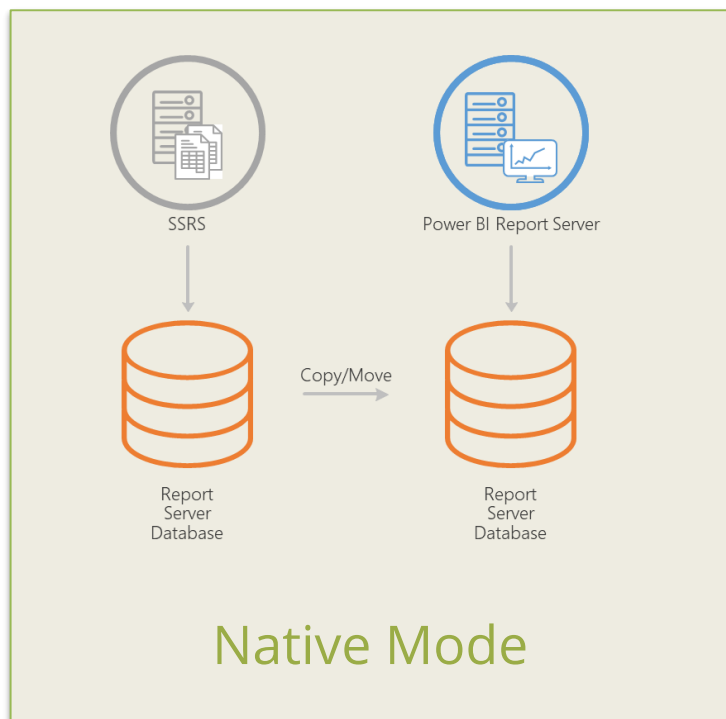
Easy and fast installation



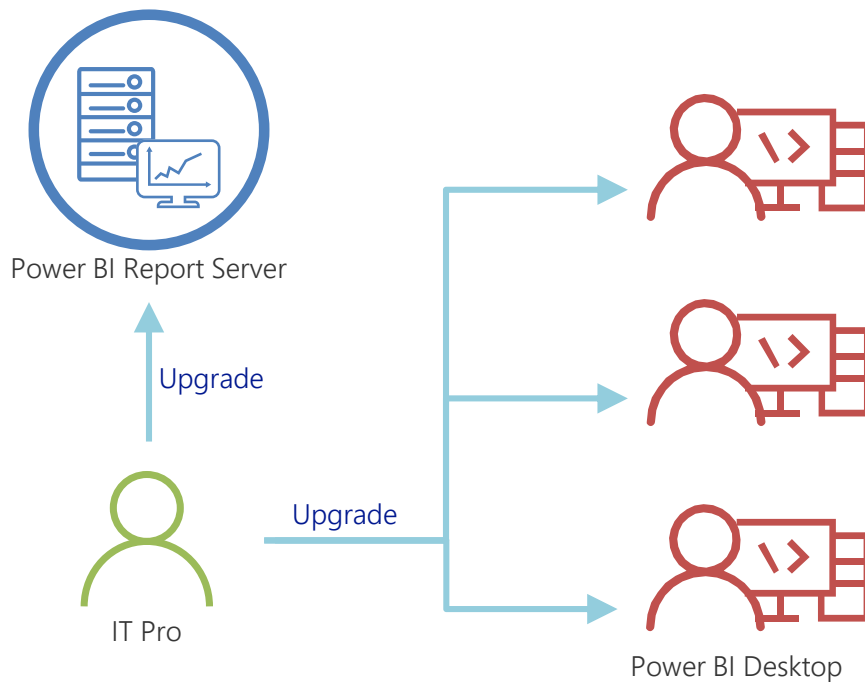
Well-known configuration options



Easy migrations (from previous installations)



ATTENTION: PBIRS Upgrades + PBI Desktop



Power BI Report Server
and Power BI Desktop
release concurrently

Need to coordinate
deployment of updates

FASTER RELEASE CYCLES

Current Releases...

June 2017 – Power BI Report Server (PBIRS) GA

- Analysis Services models (Live connection)
- No import models
- NO other sources

August 2017 – Preview

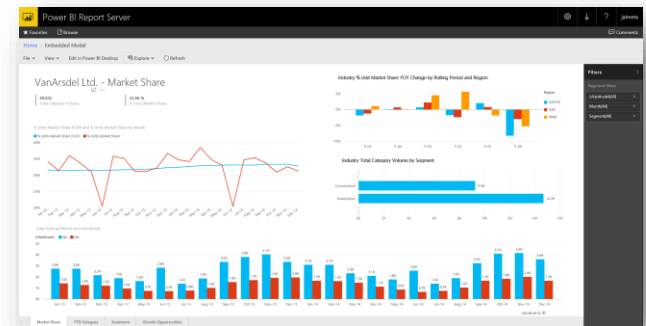
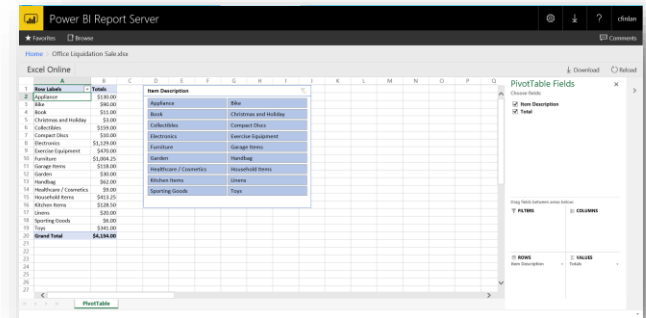
- Excel workbook viewing
- Embedded Datasets

October 2017 – PBIRS Release

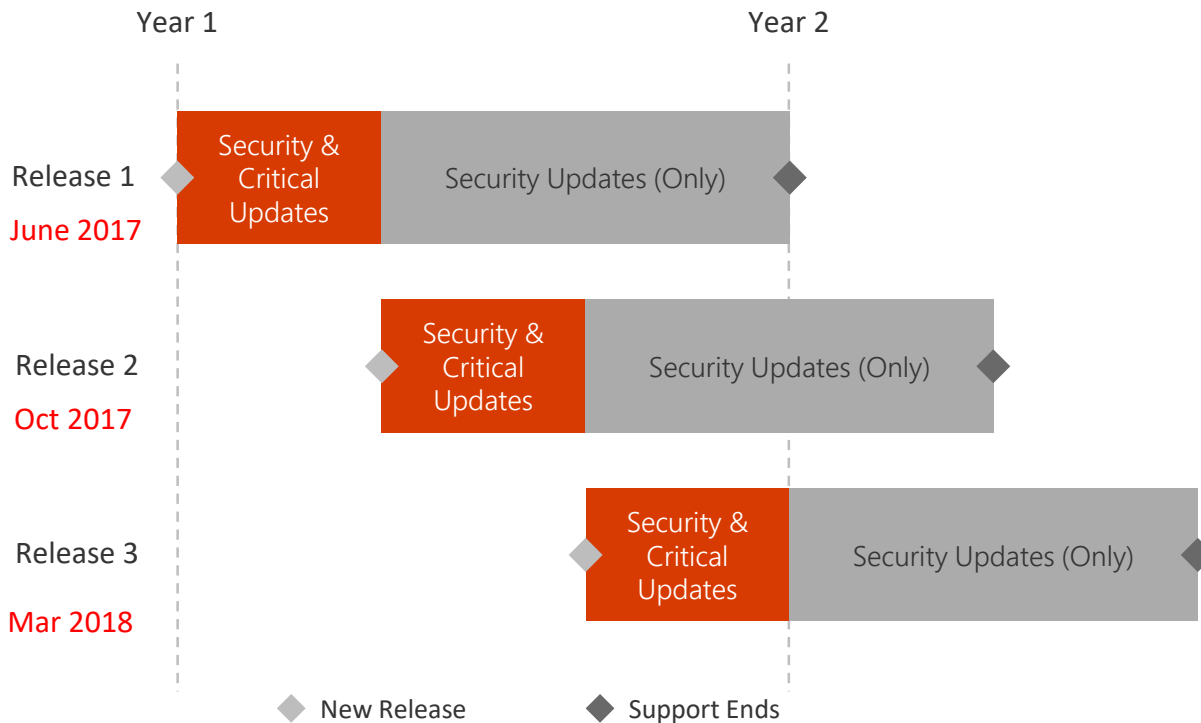
- Import Data models
- (virtually) any Data source
- Scheduled Refresh
- Direct Query
- Public REST API
- SharePoint Webpart (RDL reports)

March 2018 – PBIRS Release

- Visual
- Reporting (Bookmarking)
- Performance Improvements
- Query Editing
- Analytics



Modern Lifecycle Policy



Frequent releases
(planning ~3/4 per year)

Security & critical updates
until next release

Security updates continue for
remainder of 12 months

WHAT IS IN THERE FOR DEVELOPERS!?

PBIRS REST API (2017-October release)

REST API

This release cycle, we wanted to invest in updating our developer story, and we're excited to introduce a [new, modern REST API](#) for Reporting Services. Think of it as a RESTful successor to the legacy [ReportingService2010](#) SOAP API.

Extensions >

FavoriteItems >

Folders >

Kpis >

LinkedReports >

Me >

MobileReports >

PowerBIReports ▾

GET /PowerBIReports Gets an array of PowerBIReport CatalogItems.

POST /PowerBIReports Creates a new PowerBIReport CatalogItem.

GET /PowerBIReports({Id}) Gets a PowerBIReport CatalogItem specified by the Id.

PATCH /PowerBIReports({Id}) Updates the specified PowerBIReport CatalogItem using the provided definition.

DELETE /PowerBIReports({Id}) Deletes the specified PowerBIReport.

<https://app.swaggerhub.com/apis/microsoft-rs/PBIRS/2.0>

<https://docs.microsoft.com/en-us/sql/reporting-services/developer/rest-api>

LICENSING / COSTS

Power BI Report Server Licensing

Power BI Premium

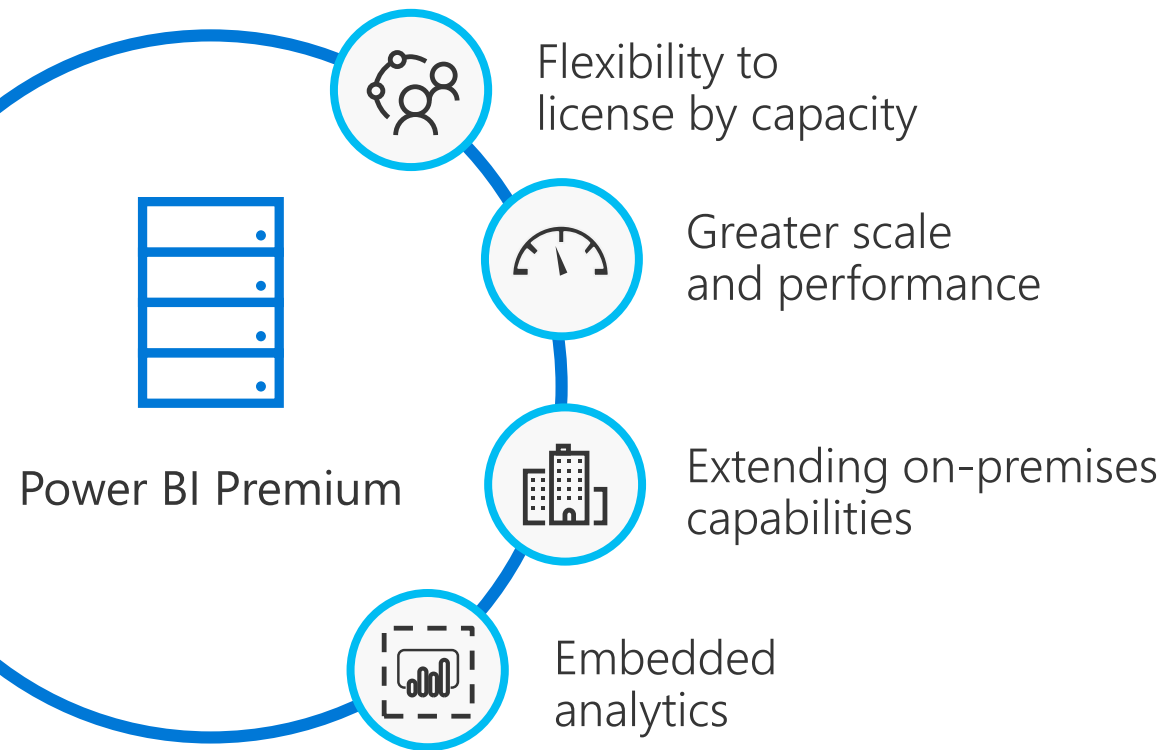


SQL Server Enterprise
+ Software Assurance



Power BI Pro license required to publish Power BI reports to Power BI Report Server

Premium?



No per-user license (for readers)

Dedicated HW, Scaling!

Power BI Report Server (PBIRS)

<https://aka.ms/pbipremiumwhitepaper>

<https://powerbi.microsoft.com/en-us/power-bi-premium/>

WHAT ARE YOUR OPTIONS?

My organization wants an **on-premises** solution to generate **precisely-formatted operational reports**



SQL Server Reporting Services

My organization wants an **on-premises** solution for **self-service BI** as well as operational reporting



Power BI Report Server

My organization wants a **managed Software-as-a-Service (SaaS)** solution for **next-generation, business user-led BI**, complete with Apps, real-time Dashboards, Q&A, and more



Power BI service

Compare reporting options



SQL Server
Reporting Services



Power BI
Report Server



Power BI
Service



	On-premises	On-premises	Cloud
Deployment			
Power BI reports		✓	✓
Real-time Power BI Dashboards			✓
Content packs			✓
Q&A			✓
Quick Insight			✓
Built-in embedded analytics services		✓	✓
Paginated reports	✓	✓	
Mobile BI	✓	✓	✓
Lifecycle	Fixed Lifecycle Policy	Modern Lifecycle Policy	Fully Managed Service

A hand holding a black pen points to a location on a detailed map spread across a table. In the background, there is a cup of coffee on a saucer and a glass of water. The scene is dimly lit, creating a focused and professional atmosphere.

Power BI & Report Server

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What?

Why?

How?