



**POWER BI**

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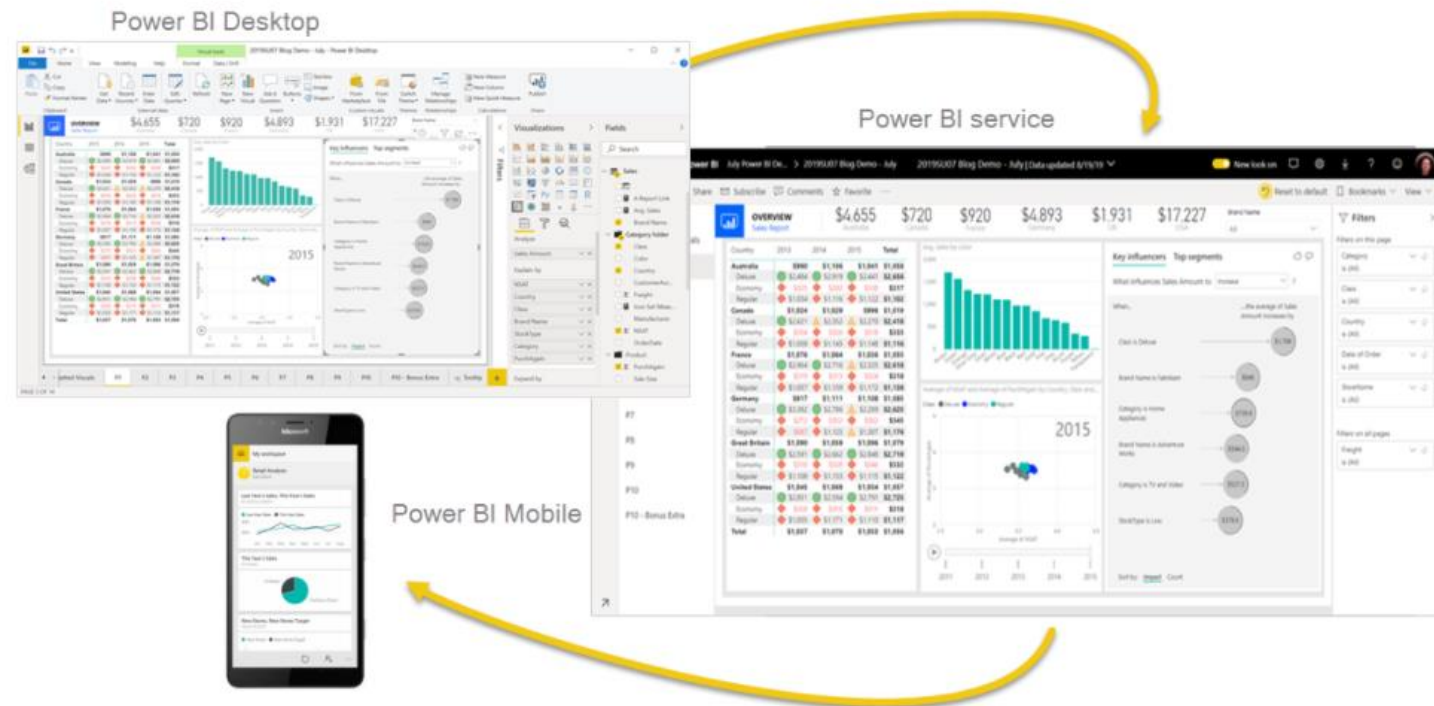
# WHAT IS IT

- **Power BI** is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.
- Data may be an Excel spreadsheet, or a collection of cloud-based and on-premises hybrid data warehouses.
- Power BI lets you easily connect to your data sources, visualize and discover what's important, and share that with anyone or everyone you want.

# ELEMENTS OF POWER BI

- A Windows desktop application called Power BI Desktop.
- An online SaaS (Software as a Service) service called the Power BI service.
- Power BI mobile apps for Windows, iOS, and Android devices.

+ Power BI Report Builder &  
Power BI Report Server



# THE WORKFLOW OF POWER BI

One common workflow that shows how the three main Power BI elements complement each other:

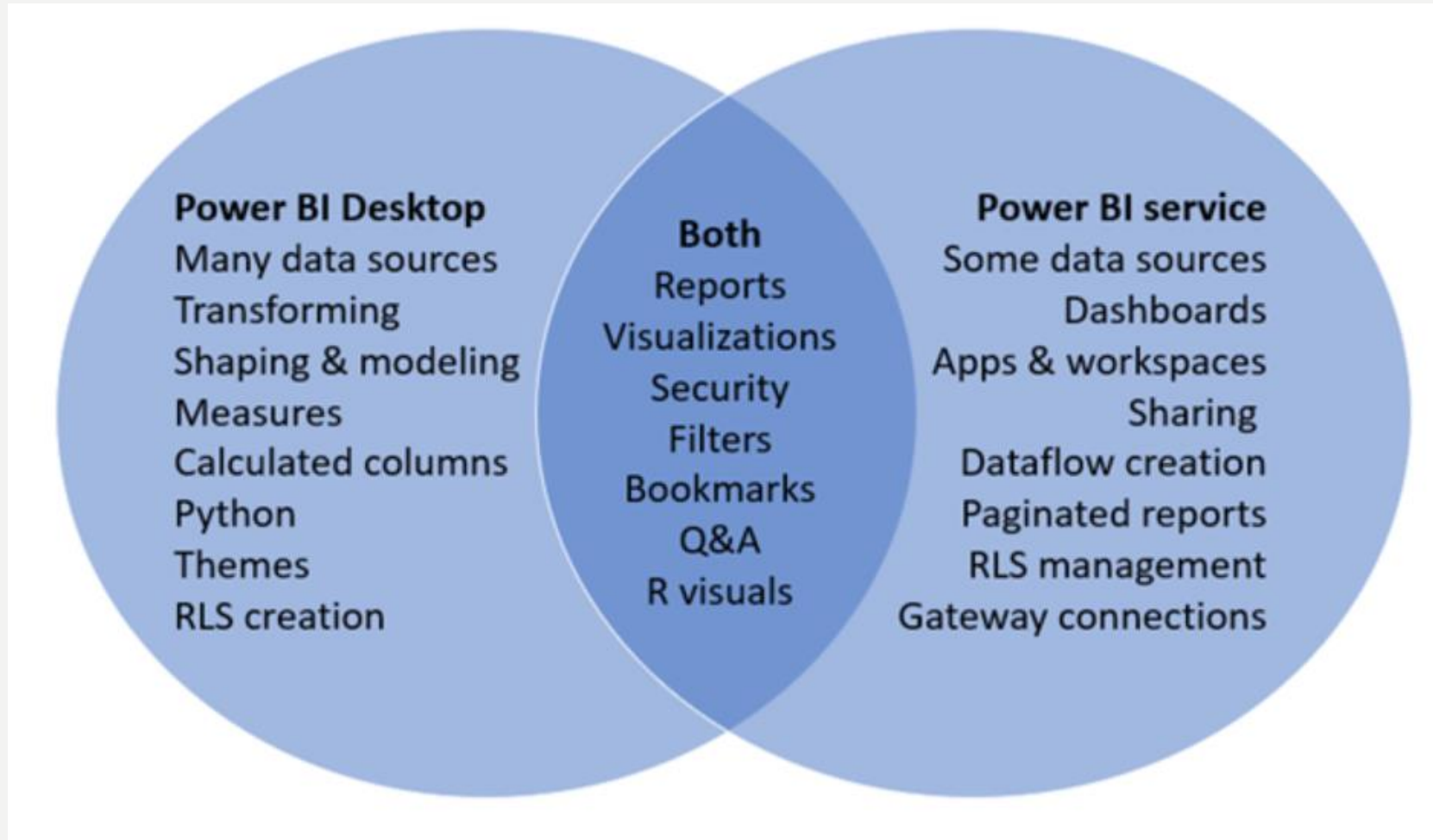
- Bring data into Power BI Desktop, and create a report.
- Publish to the Power BI service, where you create new visualizations or build dashboards.
- Share your dashboards with others, especially people who are on the go.
- View and interact with shared dashboards and reports in Power BI Mobile apps.

(data analysts or BI professionals often are responsible for the tasks performed in Power BI Desktop).

# BUILDING BLOCKS OF POWER BI

- Visualizations: a visual representation of data.
- Datasets: a collection of data that Power BI uses to create its visualizations.
- Reports: a collection of visualizations that appear together on one or more pages.
- Dashboards: a high-level view of some of key KPIs of one or more reports. A single-page collection of visuals built from a report.
- Tiles: a single visualization on a report or dashboard.

# POWER BI DESKTOP VS. SERVICE



# SOURCES

- Power BI official documentation  
<https://docs.microsoft.com/en-us/power-bi/fundamentals/>
- Download Power BI Desktop  
<https://powerbi.microsoft.com/en-us/desktop/>
- Learning Path: Create and use analytics reports with Power BI  
<https://docs.microsoft.com/en-us/learn/paths/create-use-analytics-reports-power-bi/>
- Learning Path: Perform analytics in Power BI  
<https://docs.microsoft.com/en-us/learn/modules/perform-analytics-power-bi/>
- Power BI Desktop and Python; Amazing capabilities  
<https://medium.com/analytics-vidhya/power-bi-desktop-and-python-amazing-capabilities-9e66f645b4e#:~:text=Why%20Use%20Python%20in%20Power,based%20on%20the%20predicated%20result>
- Get samples for Power BI  
<https://docs.microsoft.com/en-us/power-bi/create-reports/sample-datasets>
- What can developers do with the Power BI API?  
<https://docs.microsoft.com/en-us/power-bi/developer/automation/overview-of-power-bi-rest-api>