Microsoft

PowerBI
Business intelligence like never before

Patrick Alexander
Data Solution Architect - Microsoft

Patrick.Alexander@Microsoft.com
Twitter: @iLikeAzureSQL

Microsoft Azure

Microsoft

Microsoft Azure Account | Start Free with $200 Credit
https://azure.microsoft.com/en-us/free/

SQL Database – Cloud Database as a Service | Microsoft Azure
https://azure.microsoft.com/en-us/services/sql-database/

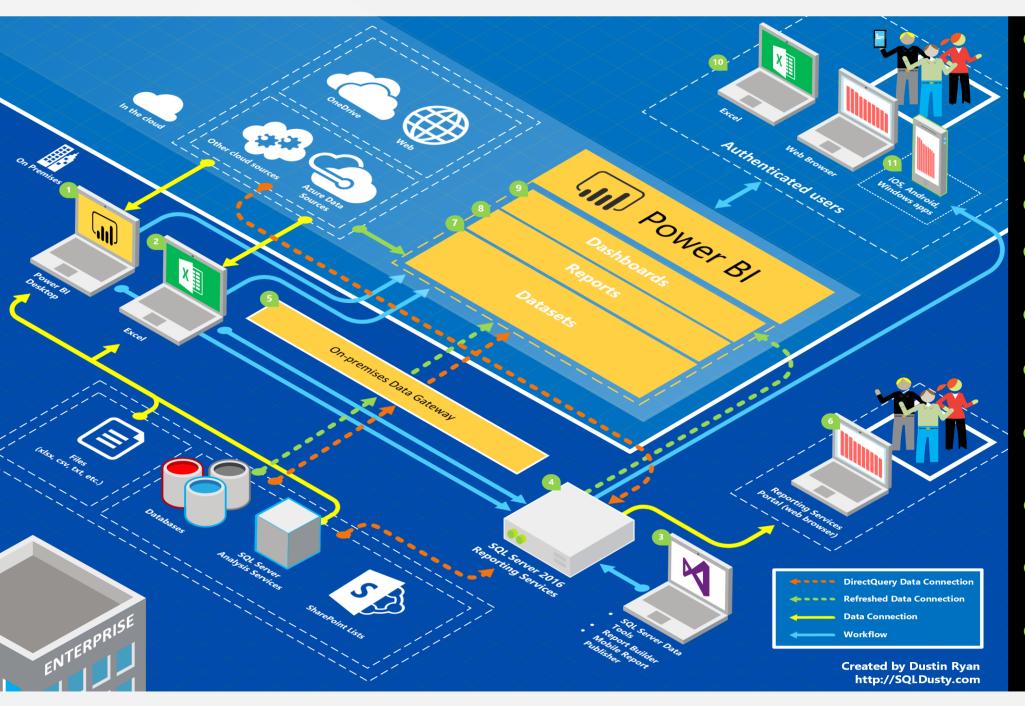Azure Blog
https://azure.microsoft.com/en-us/blog/

Microsoft Azure SQL DB Certification
https://ready.azurewebsites.net/csslearning/2083

Free Online Courses
https://azure.microsoft.com/en-us/training/free-online-courses/

Free Hands-on Labs
https://www.microsoft.com/handsonlabs

Power BI

Dashboards
Reports
Datasets

On-premises Data Gateway

Authenticated users

On Premises

In the cloud

OneDrive

Web

Other cloud sources

Azure Data Sources

Power BI Desktop

Excel

Files (xlsx, csv, txt, etc.)

Databases

SQL Server Analysis Services

SharePoint Lists

SQL Server 2016 Reporting Services

SQL Server Data Tools
Report Builder
Mobile Report Publisher

Reporting Services Portal (web browser)

Excel

Web Browser

iOS, Android, Windows apps

Legend:
- ➤ **DirectQuery Data Connection** (orange dashed)
- ➤ **Refreshed Data Connection** (green dashed)
- → **Data Connection** (yellow solid)
- → **Workflow** (blue solid)

Created by Dustin Ryan
http://SQLDusty.com

1. Power BI Desktop is Power BI's authoring tool. Here you'll define the semantic model including data sources, relationships, business metrics, hierarchies, and visuals. You'll publish your Power BI content to your Power BI site or Reporting Services portal.

2. With Excel 2016, you can publish your Excel workbooks right to your Power BI site, where you can create highly interactive reports and dashboards based on your workbook's data. Your Excel workbooks can also be published to your Reporting Services portal.

3. SQL Server Reporting Services data sources, datasets, paginated reports, and mobile reports can be developed using SQL Server Data Tools, Report Builder, and SQL Server Mobile Report Publisher.

4. Your Reporting Services content is published to your report server. Your report server enables report authoring experiences, report rendering, report deliver, security, and administration.

5. The On-premises Data Gateway enables you to deploy, configure, and manage a collection of data sources requiring data transfer between your on-premises data sources and your Power BI site. The gateway supports periodic data refreshes and DirectQuery for certain data sources.

6. Your Reporting Services content can be accessed by users through the Reporting Services portal. Users can access their data sources, datasets, reports, KPIs, Power BI reports, Excel workbooks, and other documents.

7. Datasets are the heart of Power BI and can be created using Power BI Desktop, Excel, or in the Power BI site. Datasets include the tables, relationships, calculations, and hierarchies and are created using a variety of data sources such as SQL Server, Oracle, Excel files, text files, and many more.

8. A Power BI report is one or more pages of visualizations (charts and graphs). Reports can be created from scratch within Power BI, can be imported with dashboards that colleagues share with you, or can be created for you when you connect to the datasets from Excel, Power BI Desktop, databases, SaaS applications, and content packs.

9. A Power BI dashboard is a single canvas that contains one or more tiles. Each tile displays a single visualization that was created within a report using a dataset. A dashboard can include visualizations from multiple reports across different work spaces referencing different data sources.

10. Power BI mobile apps allow you to stay connected to your data from anywhere, whether you're using a Windows, iOS, or Android device. You can also view your reports through the web browser and can navigate your published data models using Excel 2016.

11. The iPad and iPhone apps for Microsoft Power BI for iOS offer live, touch-enabled mobile access to your on-premises mobile reports and KPIs published to your Reporting Services portal.