

PowerBI für Entwickler

How to integrate PowerBI with
External Applications



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Our Sponsors



About Me

Gerhard Brueckl

From Austria 

Working with Microsoft BI since 2006

Mainly focused on Analytics and Reporting
Analysis Services

Power BI / Azure

Advanced Analytics and Machine Learning



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SSAS
MAESTRO
by Microsoft



<http://www.pmone.com>

Agenda

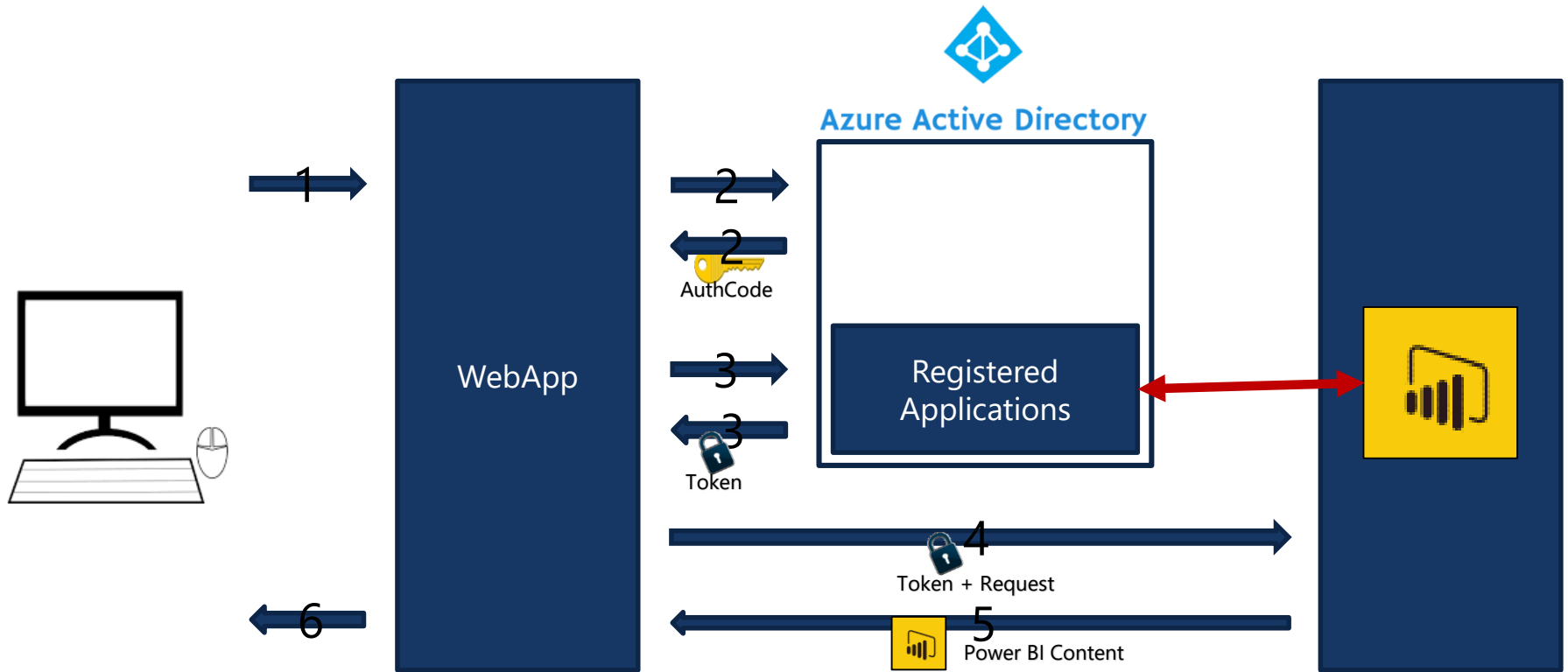
- APIs
- R-Integration
- Custom Visuals

APIs

APIs

- REST
- Any Language
- OAuth2 / Azure AD

Authentication (WebApp)



APIs

<http://docs.powerbi.apiary.io/#>

<https://msdn.microsoft.com/en-us/library/mt147898.aspx>

- Datasets
 - Tables
 - Rows

- Groups

- Dashboards (Preview)
 - Tiles

- Reports (Preview)

- Imports (Preview)

Power BI Client

- APIARY – interactive online client
 - <http://docs.powerbi.apiary.io/#>

- C# Wrapper for Power BI

R-Integration

R-Integration

- Preview/Beta
- As Datasource
 - Online Refresh with Personal Gateway
- For Visualization

R-Integration - DataSources

- R-DataFrames are exposed
 - Multiple ResultSets per Script
 - Script is duplicated!
 - Hard to maintain
- Use "Base"-ResultSet and reference it
- DataFrames must be "regular"

R-Integration - Visualization

- Transforms input to a DataFrame
- Visualizes the LAST plot
- Automatically Refreshed
 - Slicers
 - Highlighting
- No Filter itself!

Custom Visuals



Custom Visuals

- TypeScript / JavaScript
- Gallery
- Power BI Service & Desktop
- No Pro-Plan required!
- IVisuals Interface