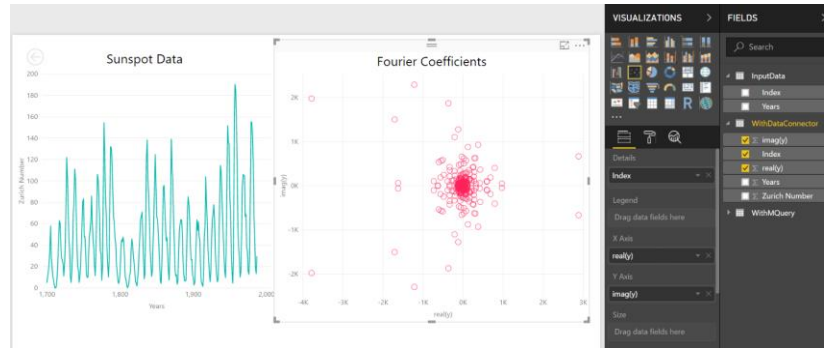


MATLAB Production Server™ Interface for Microsoft® Power BI® Software

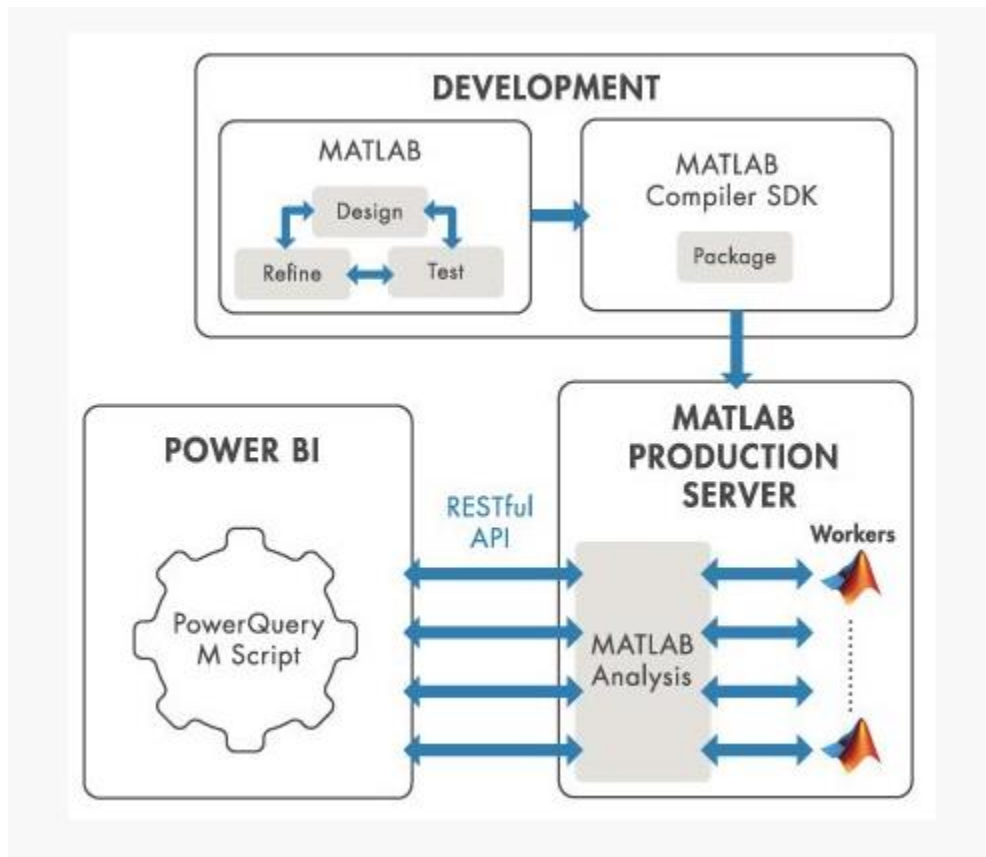
Reference Architecture Brief

MATLAB Production Server™ Interface for Microsoft® Power BI® software enables you to use MATLAB® as a scalable analytics engine for data sent from Power BI. The interface is a custom data connector which uses Power Query M scripts and enables a RESTful API connection into MATLAB.



Reference Diagram

The MATLAB Production Server Interface for Power BI enables Power BI users to directly access MATLAB algorithms using M queries and a RESTful interface.



MATLAB programs are packaged using MATLAB Compiler SDK and hosted on MATLAB Production Server. Power BI clients can then use the interface to send data and make calls to these MATLAB programs.

- MATLAB programs are packaged and encrypted for use on MATLAB Production Server.
- MATLAB Production Server capacity can be scaled-out using basic round robin load balancing techniques.
 - MATLAB programs are called as stateless functions
 - RESTful API using HTTP protocol (default port of 9910)
- The custom data connector provides user-defined controls (*see right*) to access the deployed MATLAB code on MATLAB Production Server.

From MATLAB.Invoke

MPS URL

MATLAB Archive

MATLAB Function

Input Data Table

Number of Outputs

System Components

In addition to MATLAB Production Server Interface for Power BI, the following products are required:

<p>MathWorks Products (R2016b or later)</p> <p>MATLAB</p> <p>MATLAB Compiler SDK™</p> <p>MATLAB Production Server</p>	<p>Microsoft Products</p> <p>Microsoft Power BI Desktop (version 2.47 or later)</p>
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For More Information

About Data Analytics with MATLAB

mathworks.com/solutions/data-analytics

About MATLAB Production Server

mathworks.com/products/matlab-production-server

Contact MathWorks Sales

mathworks.com/company/aboutus/contact_us/contact_sales.html