



# Exposing business data in Microsoft 365 using Azure Data API builder

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# Davide Mauri

- Joined Azure SQL group on mid 2019
  - SQL Server / Azure Data MVP for 12 Years
  - Worked in consulting services for 20 years
- Still a developer at heart!
  - Now Azure SQL PM
- Focus on Azure SQL & Developers
  - Very active in the Community, Conference Speaker
  - Website: <http://davidemauri.it/>
  - DevBlogs: <https://devblogs.microsoft.com/azure-sql/>
  - Twitter: @mauridb





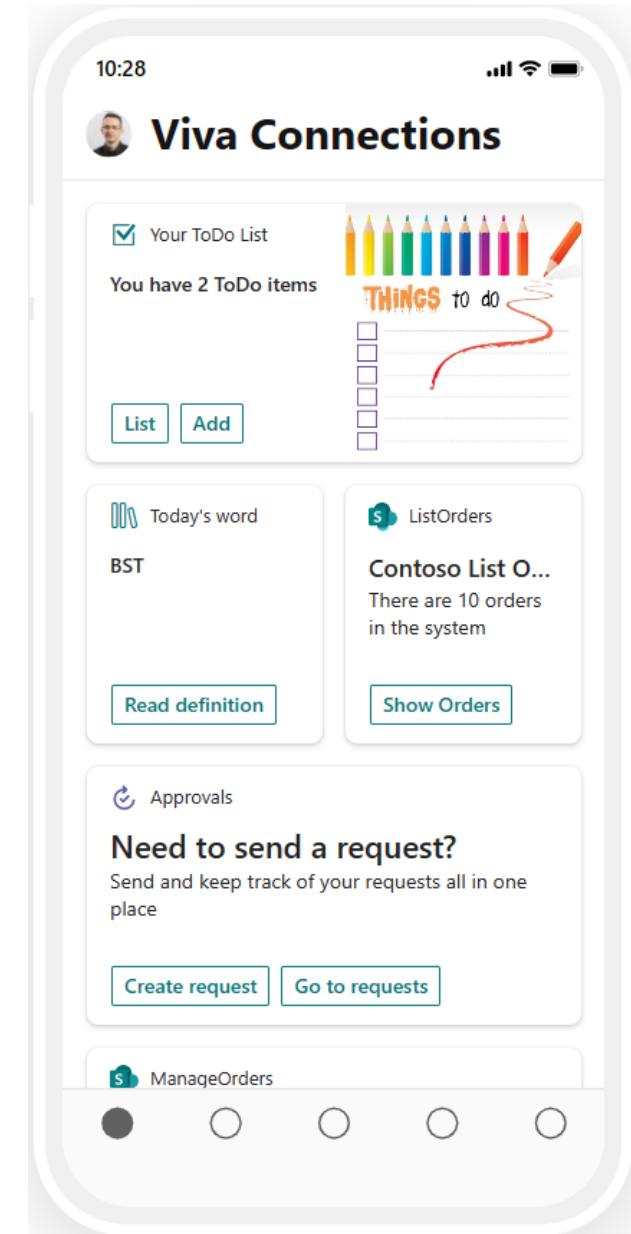
# Paolo Pialorsi

- Solution Architect, Consultant, Trainer
  - PiaSys.com based in the USA and in Italy
- More than 50 Microsoft certification exams passed
  - MCSM – Charter SharePoint
  - MVP M365 Development + M365 Apps & Services
  - Microsoft 365 PnP Team Member
- Focused on SharePoint, Teams, Viva and Microsoft 365
- Author of many books about XML, SOAP, .NET, LINQ, SharePoint, and Microsoft 365
- Speaker at main IT conferences worldwide
- Follow me @PaoloPia
- Subscribe to: <https://youtube.com/@PiaSysTechBites>



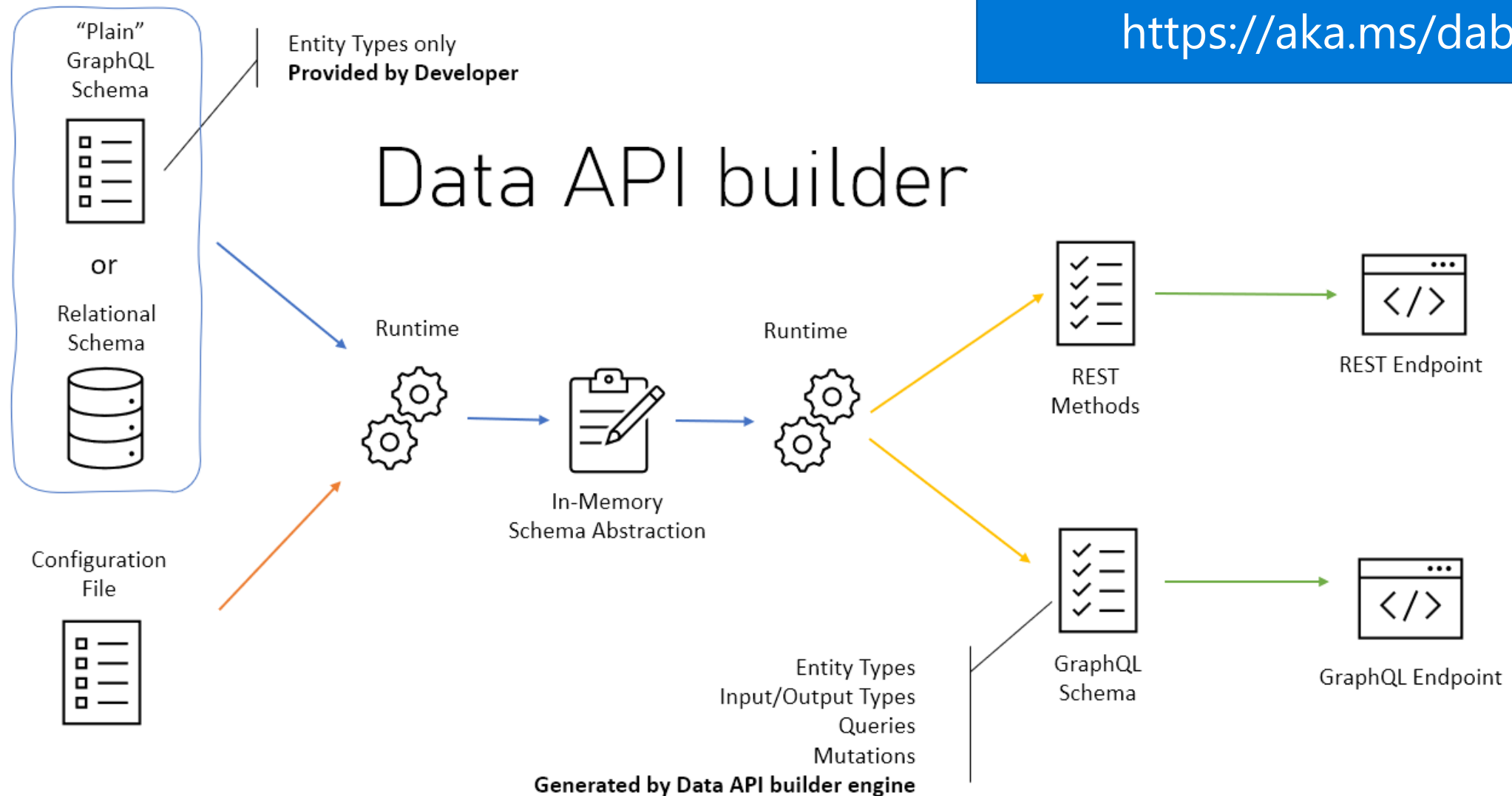
# Understanding the Context

- **Consuming custom ToDo list**
  - Items stored in a SQL Azure Database
- **We use Azure Data API builder**
  - To easily expose data via REST API or GraphQL
    - You can securely expose your business data in minutes
  - Can be secured with Azure Active Directory + OAuth 2.0
  - Accessible from any Microsoft 365 workloads
    - SharePoint Online
    - Microsoft Teams
    - Viva Connections
    - Power Platform
    - Etc.
  - It is now under Preview
    - Go get it and play with it!



# Introducing Data API builder

<https://aka.ms/dab>



# Introducing Data API builder

- **Open Source**

.NET Core 6 application

- **Easiest way to host it in Azure is via Web App**

Use the container image available on MCR: <https://mcr.microsoft.com/en-us/product/azure-databases/data-api-builder/about>

- **Run it on-prem for testing**

```
➤ dab start
```



# DEMO

Exposing business data in  
Microsoft 365 using  
Azure Data API builder

# Consuming DAB from SPFx

- **You simply need to rely on AAD + OAuth 2.0**
  - Register AAD application for your DAB API
  - Use the *AadHttpClientFactory* of SPFx *context* to get a client
  - Make REST requests
    - SPFx will automatically add the OAuth 2.0 Access Token for you
    - You will need to add the *X-MS-API-ROLE* custom header with custom role
    - Remember to configure CORS for your SharePoint Online tenant
- **Remember to require permissions in SPFx**
  - Add *webApiPermissionRequests* section to *package-solution.json*
  - Grant requested permissions via *API Access* page of SharePoint Online



# Useful links

- **DAB**

- <https://github.com/Azure/data-api-builder> (or aka.ms/dab)

- **DAB Demo Model**

- <https://github.com/yorek/dab-microsoft365-demo>

- **SPFx consuming DAB Demo**

- <https://github.com/pnp/sp-dev-fx-aces/tree/main/scenarios/ace-data-api-builder/spfx>

# Thank you!