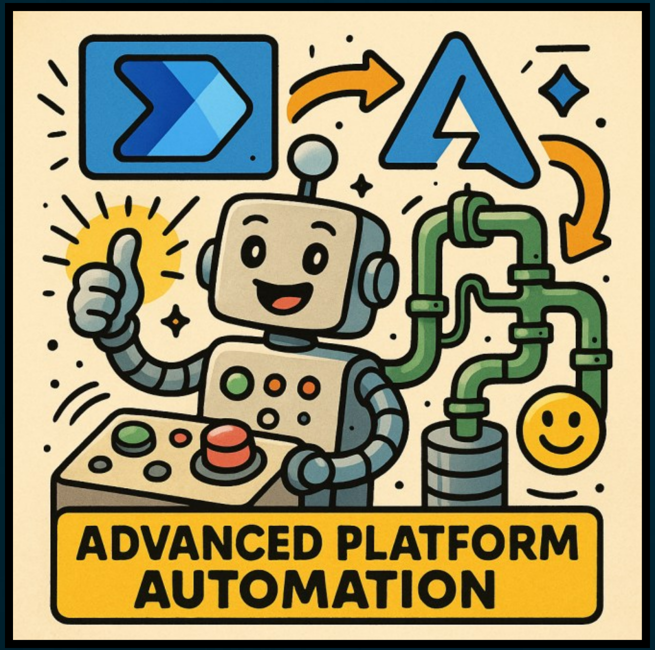
European **Power Platform** Conference

WELCOME TO

VIENNA 2025

JOIN THE CONVERSATION

#EPPC25



Lab 2 – Azure Functions

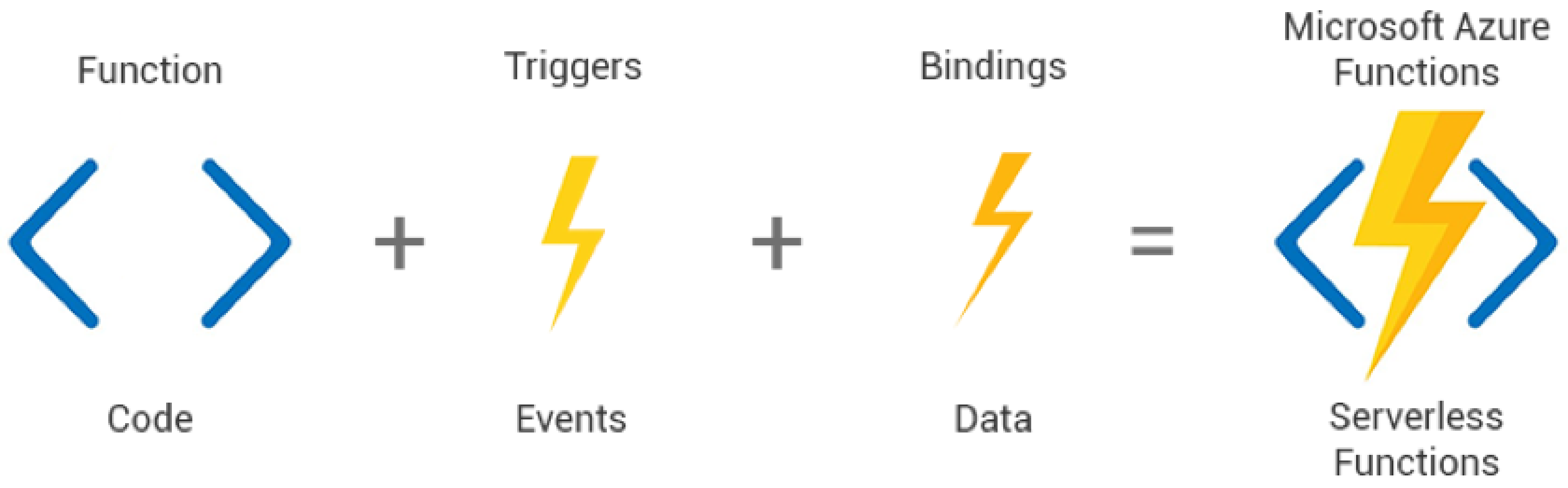
Advanced Integrations Workshop @ EPPC

What ever you dream of – in Functions you can build it!

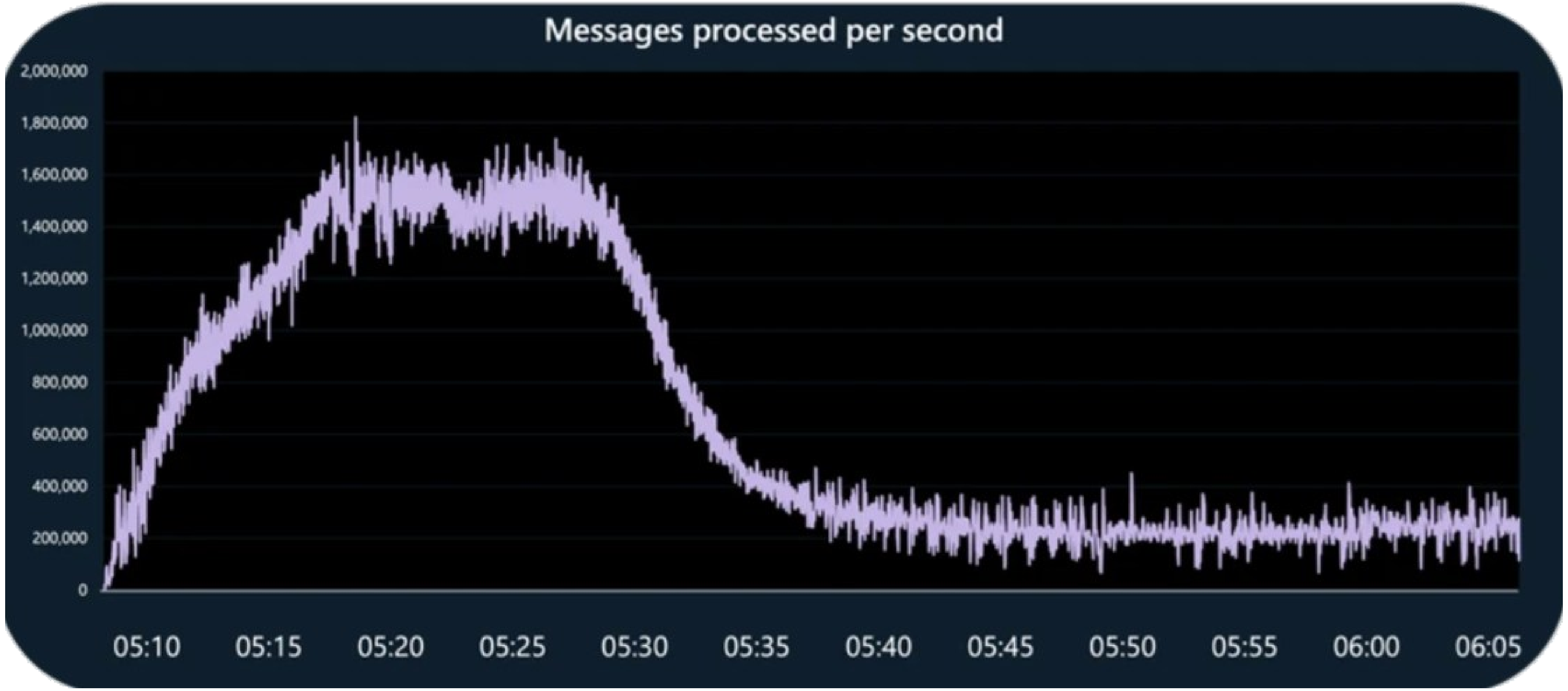
Azure Functions & Dataverse

🤝

Azure Functions



Performance



“In a recent test, GitHub’s new function app processed ***1.6 million messages per second*** *in the Azure Functions Flex Consumption plan”*

Azure Functions

🚀

Azure Functions are like..

Power Apps Pro-Dev

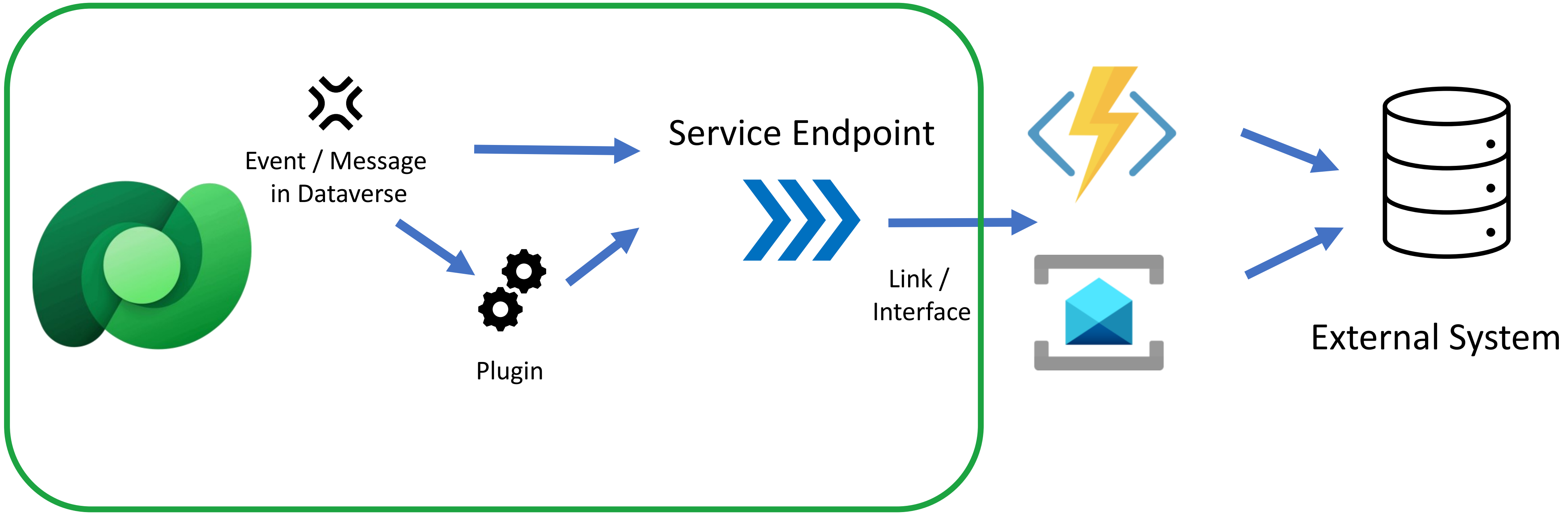
- Plugins run outside of Dataverse
- Plugins run in other languages than C#
- Plugins where you have full control of scale
- Plugins with simple external library support

- Power Apps Low-Code
  - PowerFx outside of Power Apps with lot‘s of library support
  - Compose actions with complex Power Automate expressions

Dataverse ❤️ Functions

Dataverse native

Underused feature: Service Endpoints + Function as Webhook



Dataverse ❤️ Functions

Dataverse native

Dataverse supports calling external webhooks / service bus – either synchronous or asynchronous

Steps

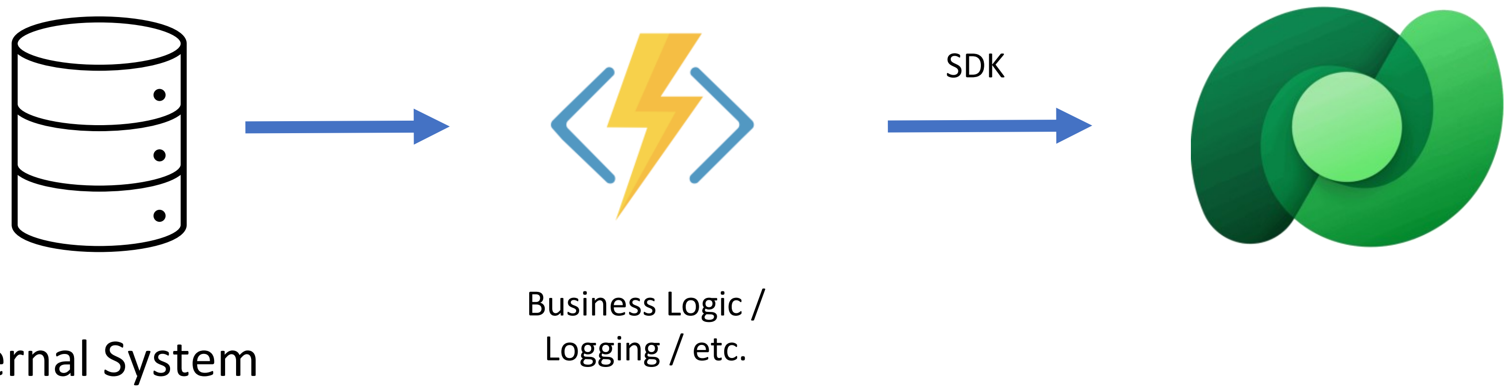
- Register "Service Endpoint"
- Either call via plugin
- Or directly via message

BUT

- Not a lot improvements
- ALM story not complete

Functions ❤️ Dataverse

Getting data into Dataverse



Managed Identities

are better than

Service Principals / App. Users

are better than

Service Accounts

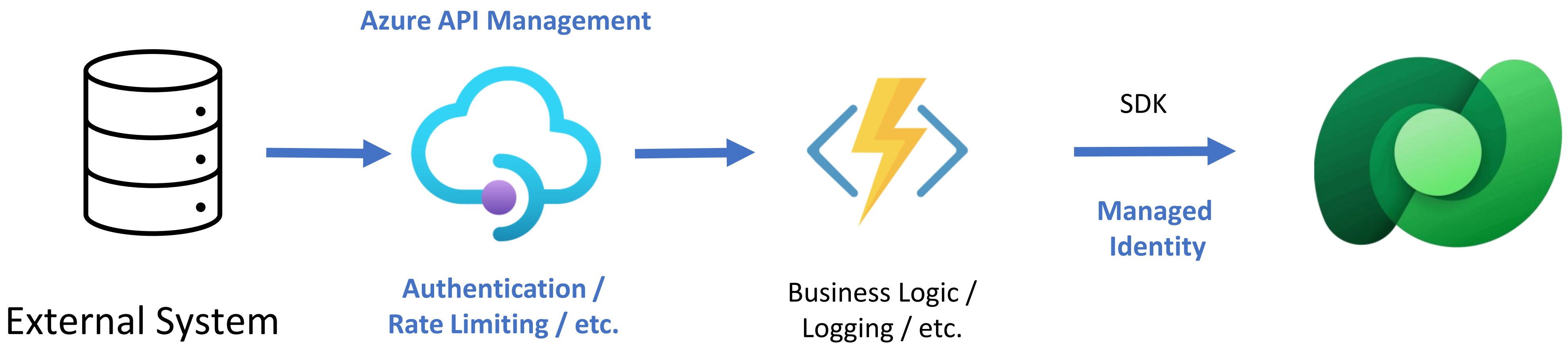
are better than

User / Names Accounts

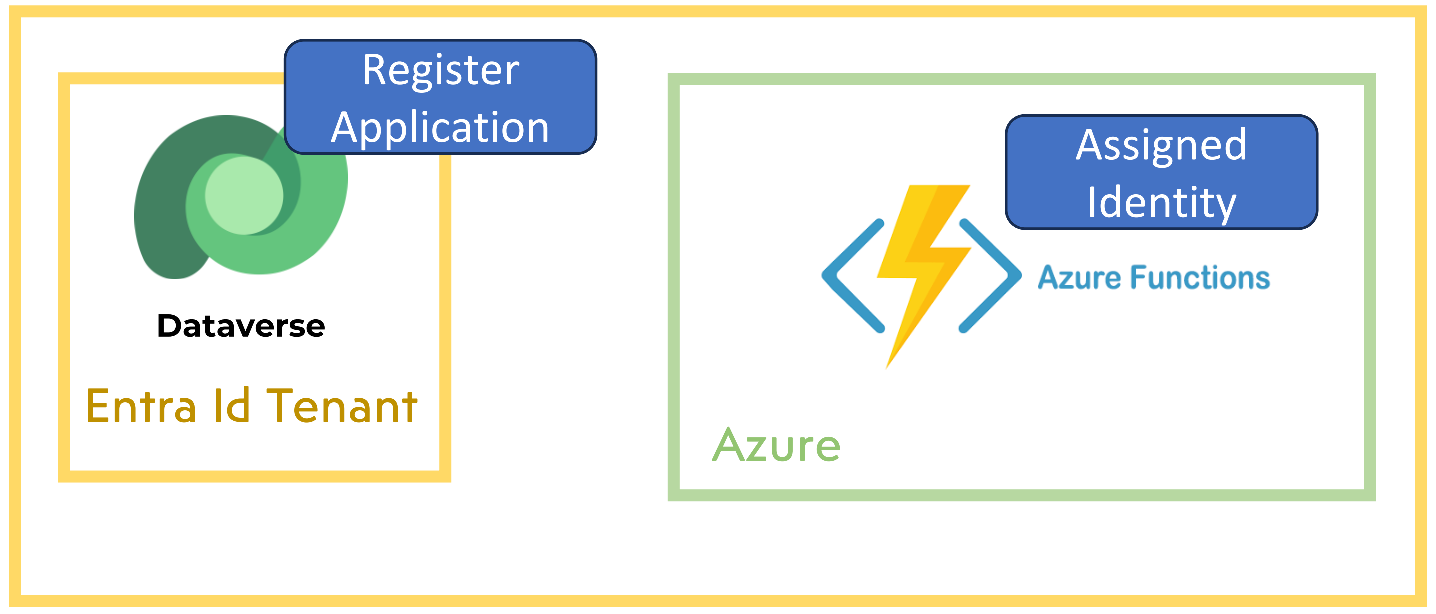
Functions ❤️ Dataverse

Authentication

Making it secure


Azure API Management
External System
Authentication / Rate Limiting / etc.
Business Logic / Logging / etc.
SDK
Managed Identity

Managed Identities only work in the same tenant



Assigned Identity

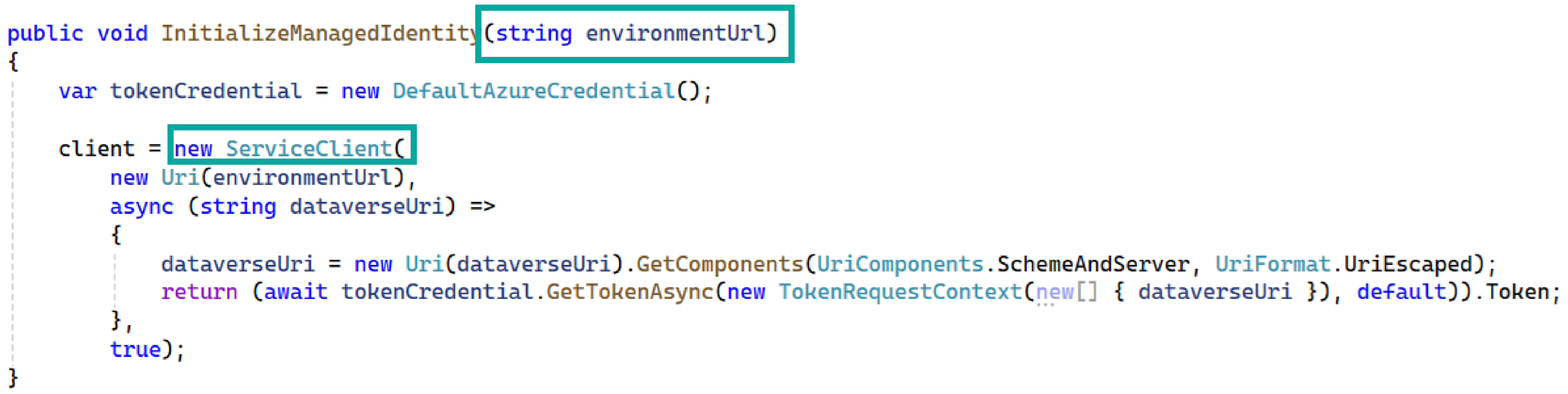
Application Registration + Secret – Managed by Microsoft

Register Application

Same process as with other App users
+ Assignment of Security Roles

Managed Identities are simple

.. if set up correctly

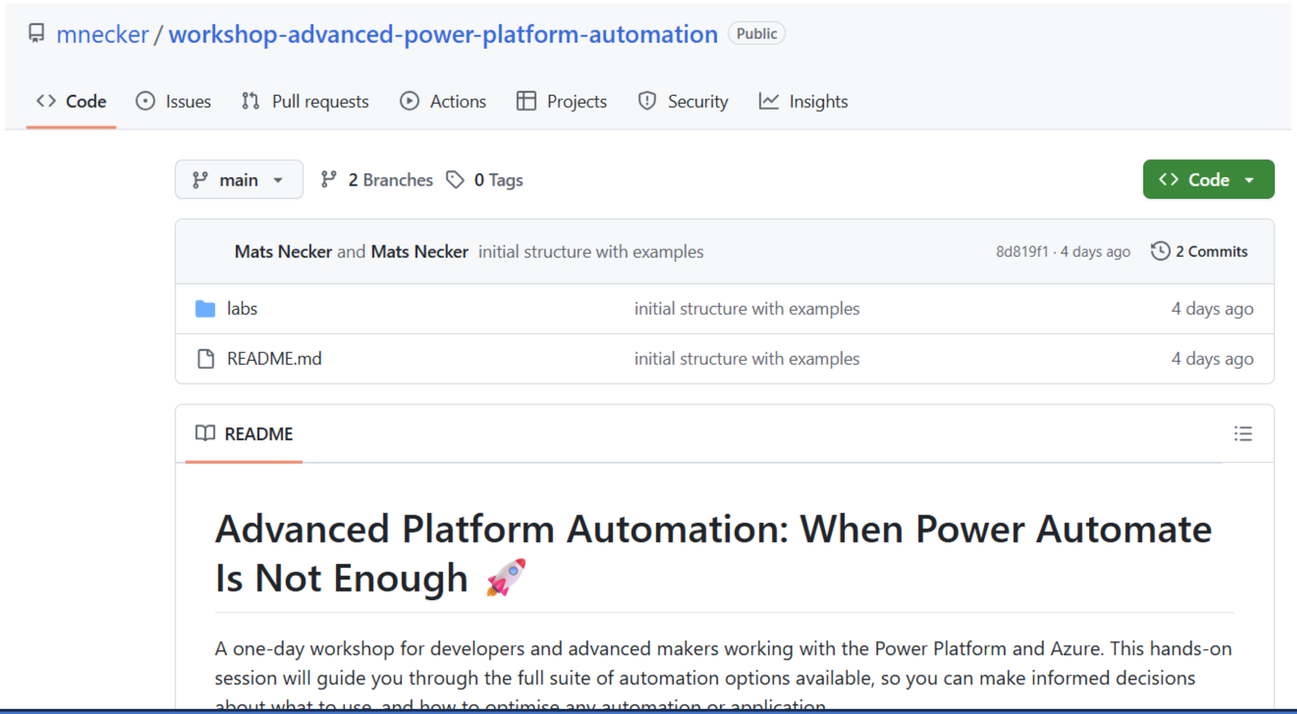


```
public void InitializeManagedIdentity(string environmentUrl)
{
    var tokenCredential = new DefaultAzureCredential();

    client = new ServiceClient(
        new Uri(environmentUrl),
        async (string dataverseUri) =>
        {
            dataverseUri = new Uri(dataverseUri).GetComponents(UriComponents.SchemeAndServer, UriFormat.UriEscaped);
            return (await tokenCredential.GetTokenAsync(new TokenRequestContext(new[] { dataverseUri }), default)).Token;
        },
        true);
}
```

Let‘s build it!

The Lab Material



mnecker / workshop-advanced-power-platform-automation Public

Mats Necker and Mats Necker initial structure with examples 8d819f1 · 4 days ago 2 Commits

labs	initial structure with examples	4 days ago
README.md	initial structure with examples	4 days ago

README

Advanced Platform Automation: When Power Automate Is Not Enough 🚀

A one-day workshop for developers and advanced makers working with the Power Platform and Azure. This hands-on session will guide you through the full suite of automation options available, so you can make informed decisions about what to use, and how to optimise any automation or application.

https://github.com/mnecker/workshop-advanced-power-platform-automation