





# **Tonights Roadmap ...**

**OAuth2 Authentication flow Basics** 

How do we authenticate on Azure AD?

How can we access Office 365 App Data? (or content from Azure Services)

**Basics on talking to the Microsoft Graph using PowerShell** 

Demo, Demo, Demo



# First things first: About me...





# First things first: who am i?



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Office 365 User Group Hamburg, Owner Hamburg PowerShell User Group, Member Azure Meetup Hamburg, Member

Main focus:

Azure Infrastructure, Automation using PowerShell, varíous Office 365 services Hier steht der Name der Präsentation

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# I WANT TO BELIEVE

... It's secure





Let's consider a short demo

on one of our main issues

with authentication

to a service

out there in the internet

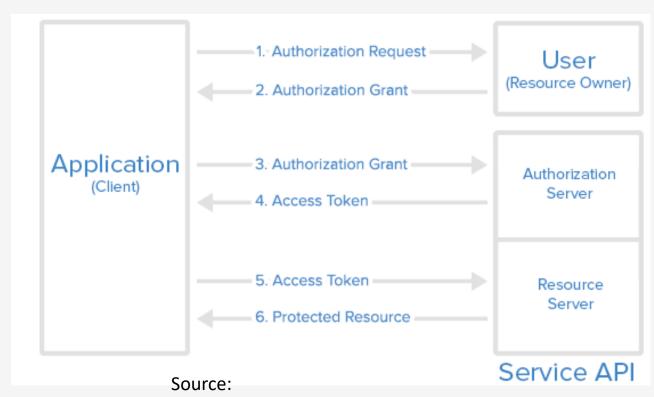
## **OAuth2 Authentication Flow Basics**

#### OAuth2

- is the name for an Authorization Framework using HTTP services
- applications get <u>limited access</u> using users permissions
- defines "Authorization Flows" for 3rd-party apps to access data by using that accounts
- OAuth2 roles
  - Application
  - User
  - Resource Server
  - Authorization Server

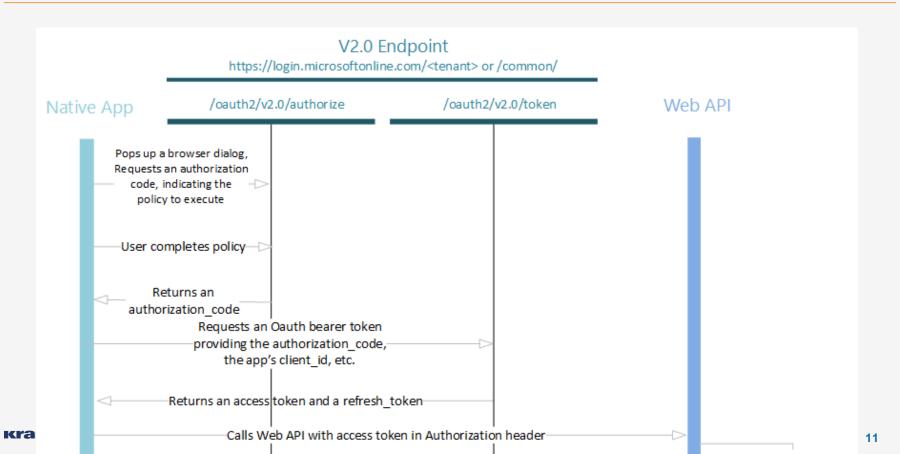


# A basic Authentication Flow when using OAuth2 (3/3)

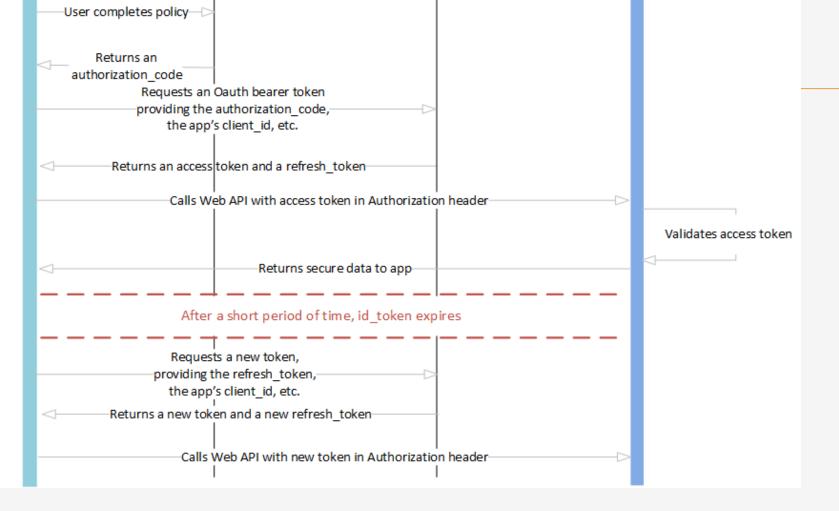




### Let's consider Azure AD Authentication to the Microsoft Graph



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# **Azure AD authentication options**

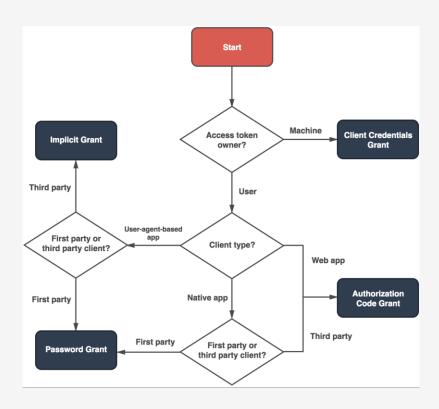
Azure AD currently implements 4 types for authentication

- 1. Authorization Code
- 2. Password
- 3. Client Credentials
- 4. Implicit

- → for a user [i.e. used by Exchange Online module]
- → this is a really bad idea!



# Consider this as a good decision when to use what





# Now let's do that in code DEMO









