

CLOUD IDENTITY SUMMIT '22

Identity Management Track

Using Logic Apps to automate tasks in your AAD - and secure your Logic Apps
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Community Event by



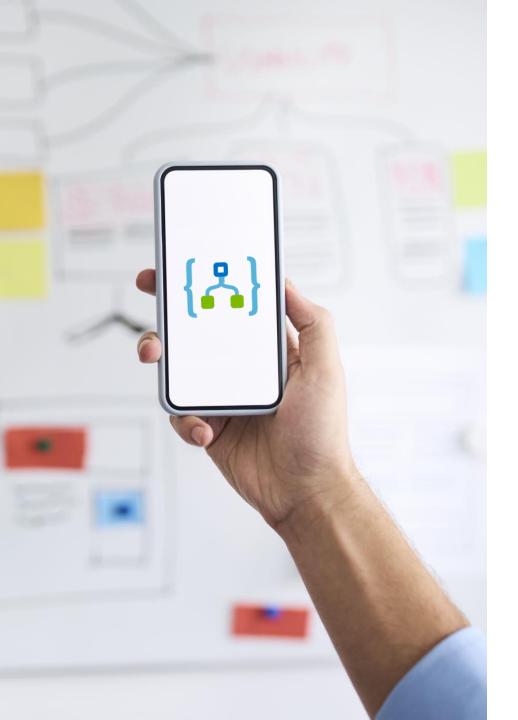


Hi I'm Chris!

Living in Hamburg, Germany Consultant & Architect Identity & Security enthusiast

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Agenda

- Why Logic Apps and some Use Cases?
- Some good practices
- Connections from a Logic App
- Connection to a Logic App

Some use cases from the last months

Scheduled

Config and Asset Management

- Set Password Policies for Service Accounts
- Maintain dynamic groups based on Authentication methods

Reporting and Alerting

- Write Authentication Methods for specific groups to a custom Log Analytics table.
- Fetch 3rd Party app data from MDCA

Triggered

Security

• Block a specific user.

Deployment

 Create and configure Enterprise Apps to integrate AWS Accounts via SAML

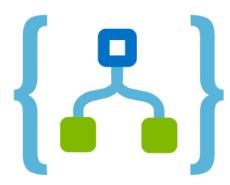
APIs

MS Graph

MDCA API

Choosing a platform

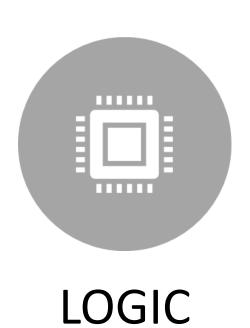




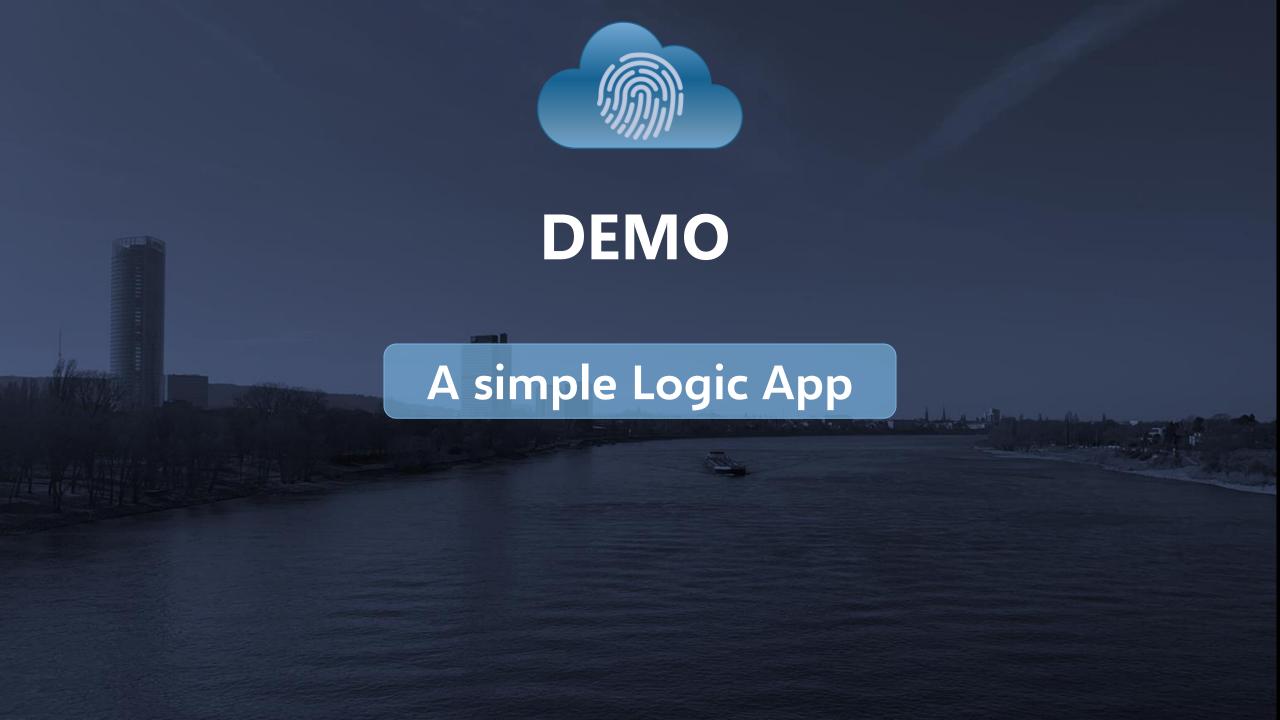


Logic App concept









If you work with MS Graph...

Determine needed permissions

- with the Permission Reference in MS Docs and Graph Explorer
- document the reasoning for the needed permissions

Only one Managed Identity can be bound to a Logic App.

- Note that the tokens are cached for up to 24hours
- For dev/testing you can work with User Assigned
- For prod you should use System Assigned (portability, transparency)

Enabling system assigned managed identity

ManagedIdentityLimitPerFlowExceeded: The workflow 'LogicApp05' can only have one managed identity. Remove the user-assigned managed identity before enabling the system-assigned managed identity.

 \times

Use PowerShell to manage the permission of the Managed Identities

If you work with credentials...











HIDE INPUTS AND OUTPUTS

USE A KEY VAULT

USE MANAGED IDENTITIES

RESTRICT READ
ACCESS TO THE
LOGIC APP

Next Level...

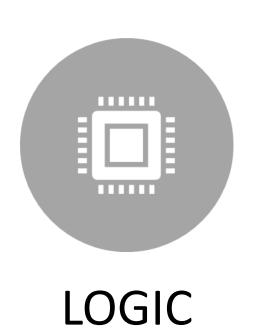


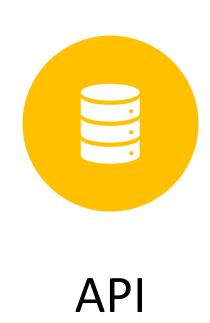


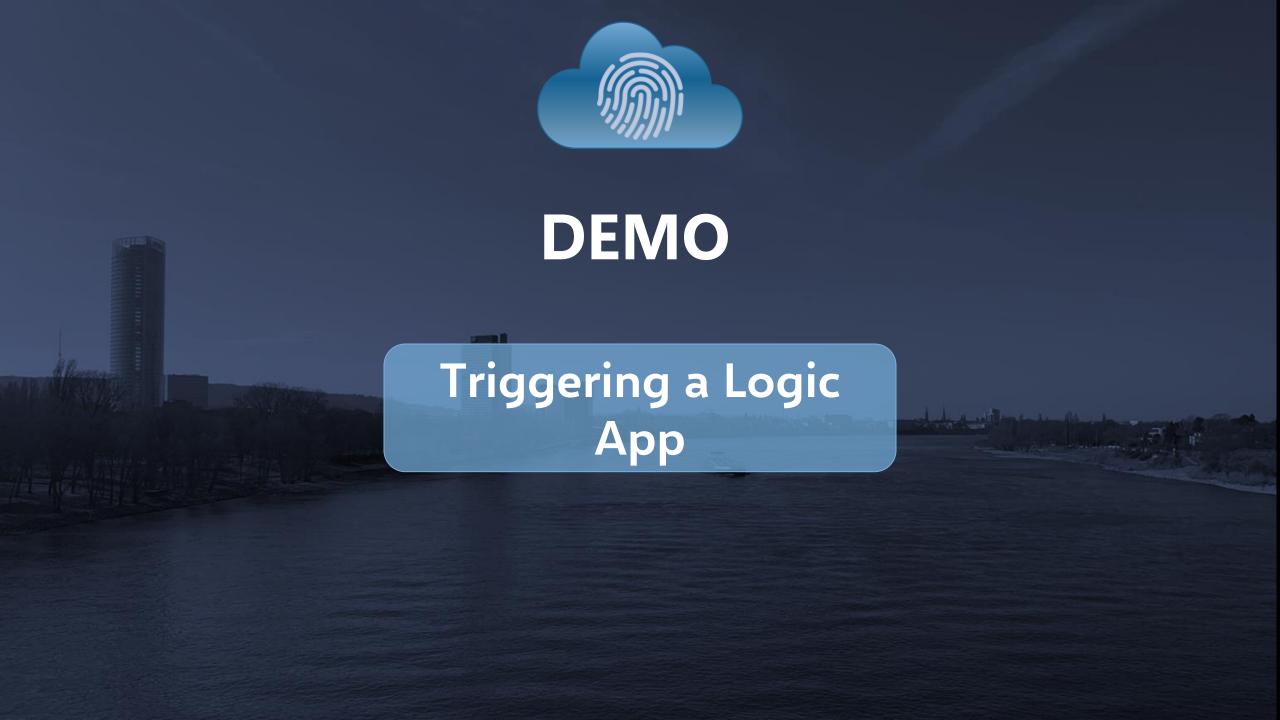


Logic App concept









Securing the trigger

Input validation

Firewalling



Next Level...





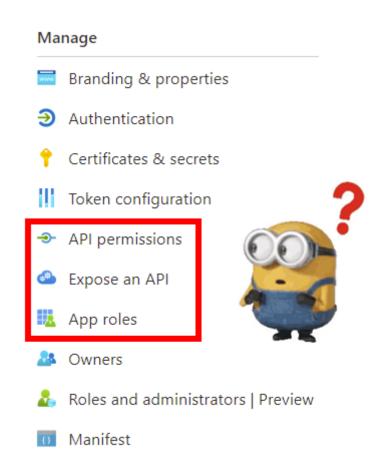




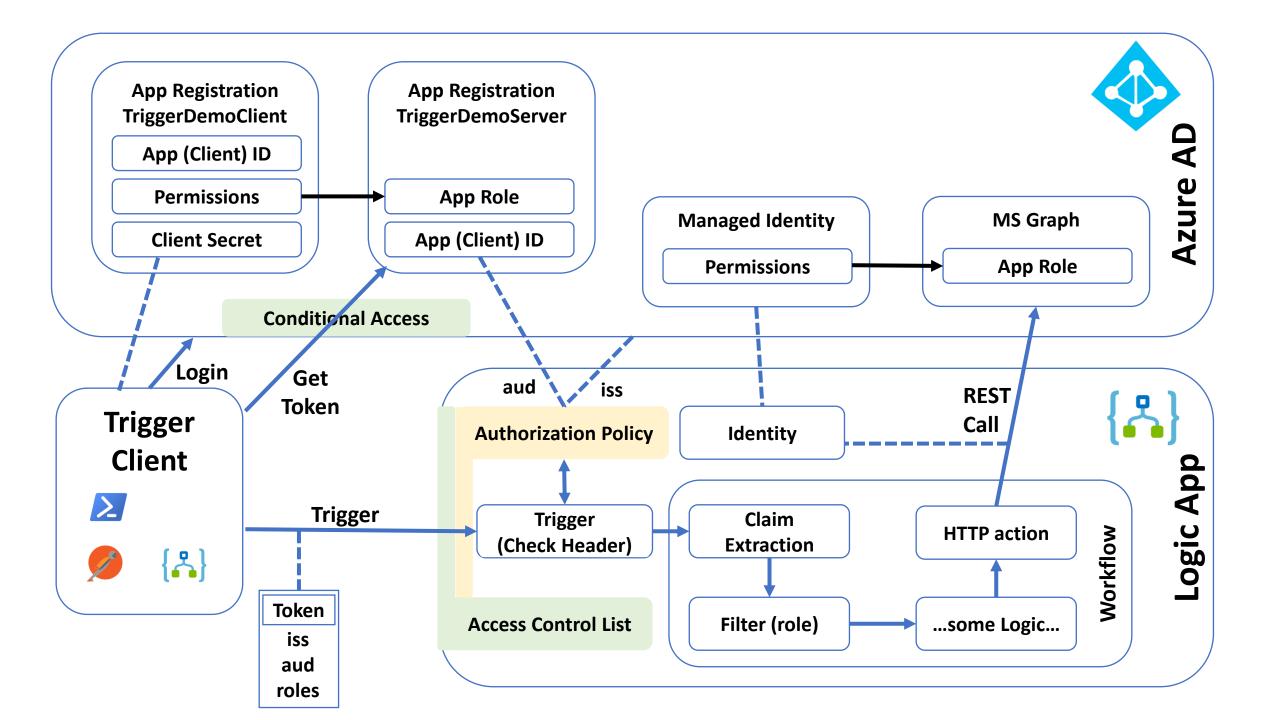
If you work with App Registrations...

Use the integration assistant!

- Know the difference between
 - API permissions and app roles
 - a redirect URI and an app ID URI
 - V1 and V2 endpoints

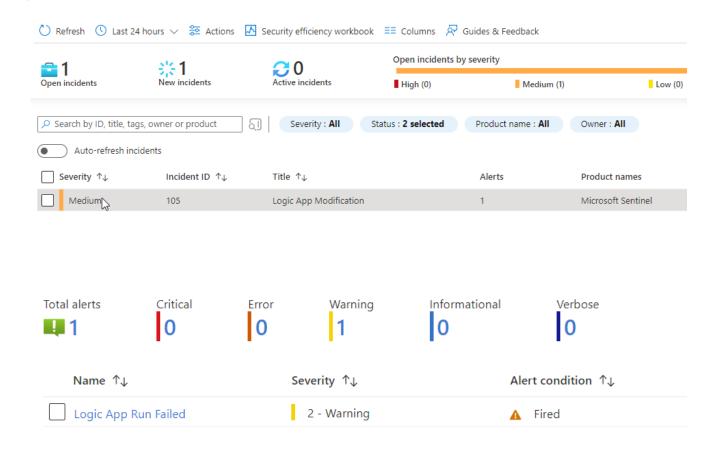








One last thing...



If you're automating stuff in AAD your might have high permissions...

➤ Send your Activity Logs to Microsoft Sentinel and monitor modifications.

If you're automating stuff in AAD you want to rely on success...

➤ Send your Diagnostic Logs to Azure Monitor and monitor failed runs



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