Simplifying repetitive administrative tasks by using low-code solutions

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Agenda

- Quick introduction to Azure Logic Apps
- Quick introduction to Microsoft Graph
- Quick introduction to Adaptive Cards for Microsoft Teams
- [Demo] Using Logic Apps (workflows) with Microsoft Intune
- Quick introduction to Azure Automation Accounts
- [Demo] Using Logic Apps with Azure AD
- Closing notes and summary

Quick introduction to Azure Logic Apps
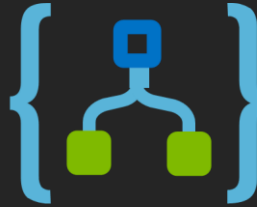
- Available via https://portal.azure.com
- Used for workflow automation
- Offers integration with custom APIs
- Trigger based on a recurrence and/or condition
- Add numerous built-in actions
- Ability to 'design' your own code
- Code can be used as well to write in JSON language
- Examples for which Logic Apps can be used:
  - Administrative tasks;
  - Business processes;
  - Adoption;
  - Alerts;
  - Many more;
- The biggest limitation is your own creativity ☺

Quick introduction to Microsoft Graph

- Single endpoint via https://graph.microsoft.com
- Gateway to data and intelligence in Microsoft 365
- Connectors for delivering data external to the Microsoft cloud
- Data Connect for delivering data to popular Azure data stores
- REST APIs and client libraries to access data on
  - Microsoft 365 core services
  - Enterprise Mobility and Security services (including Azure Active Directory and Microsoft Intune)
  - Windows 10 services
  - Dynamics 365 Business Central
- Everything to retrieve data and automate tasks

Quick introduction to Adaptive Cards for Microsoft Teams

- Open card exchange format to exchange UI content

- Content described as JSON-object

- Content rendered natively inside the app

- Payload supported by Microsoft Teams
  - Other examples are for example Microsoft Outlook

- Keep it simple and expressive

- Easy method for creation via https://adaptivecards.io/

[Demo] Using Logic Apps (workflows) with Microsoft Intune

- Expiring Apple MDM Push Certificate

- [Windows Autopilot status information]

- [Retiring noncompliant devices]

Quick introduction to Azure Automation Accounts

- Available via https://portal.azure.com
- Run Python or PowerShell scripts directly in Azure
- Supports the use of PowerShell Modules
- Supports variables and certificates
- Use Hybrid workers to connect back to your own VM
- Possible cost saving
- Runbook can be triggered as an action in Azure Automation
- Output can be retrieved via a Logic App and be used in next steps
- Take out 'complex logic app steps' and put them into simple PowerShell steps and output

Closing notes and summary

- Use Developer Tools of Microsoft Edge for finding the Graph call
- Use Microsoft Graph docs for finding details of the Graph call
- Use the Adaptive Cards designer for a nice design
- Start with simple activities and grow to more advanced activities
- Use Azure Automation to simplify your Logic Apps
- Adaptive Cards are also a great fit for user adoption.

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Thank you!

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