Azure Policy, DevOps und GitHub - Better together?!

Eric Berg
Microsoft MVP – Azure & CDM
Vice President @ CGI

Experts Live Germany

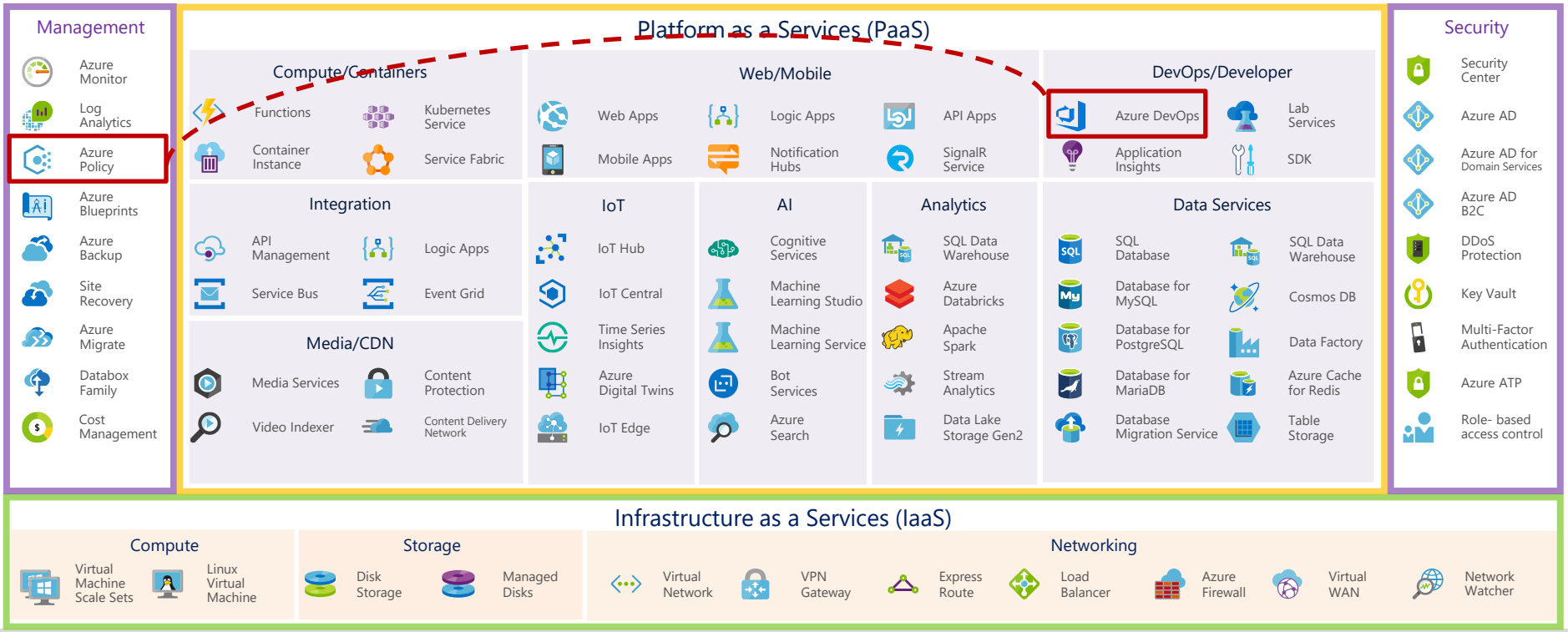
Eric Berg

- Vice President Expert @ CGI
- Cloud, Datacenter and Management
- Azure, AWS, GCP
- info@ericberg.de
- @ericberg_de | @GeekZeugs
- www.ericberg.de | www.geekzeugs.de

Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Deployment Tasks
  - Policy as Code
  - Policy Deployment

Azure Services Überblick



Agenda

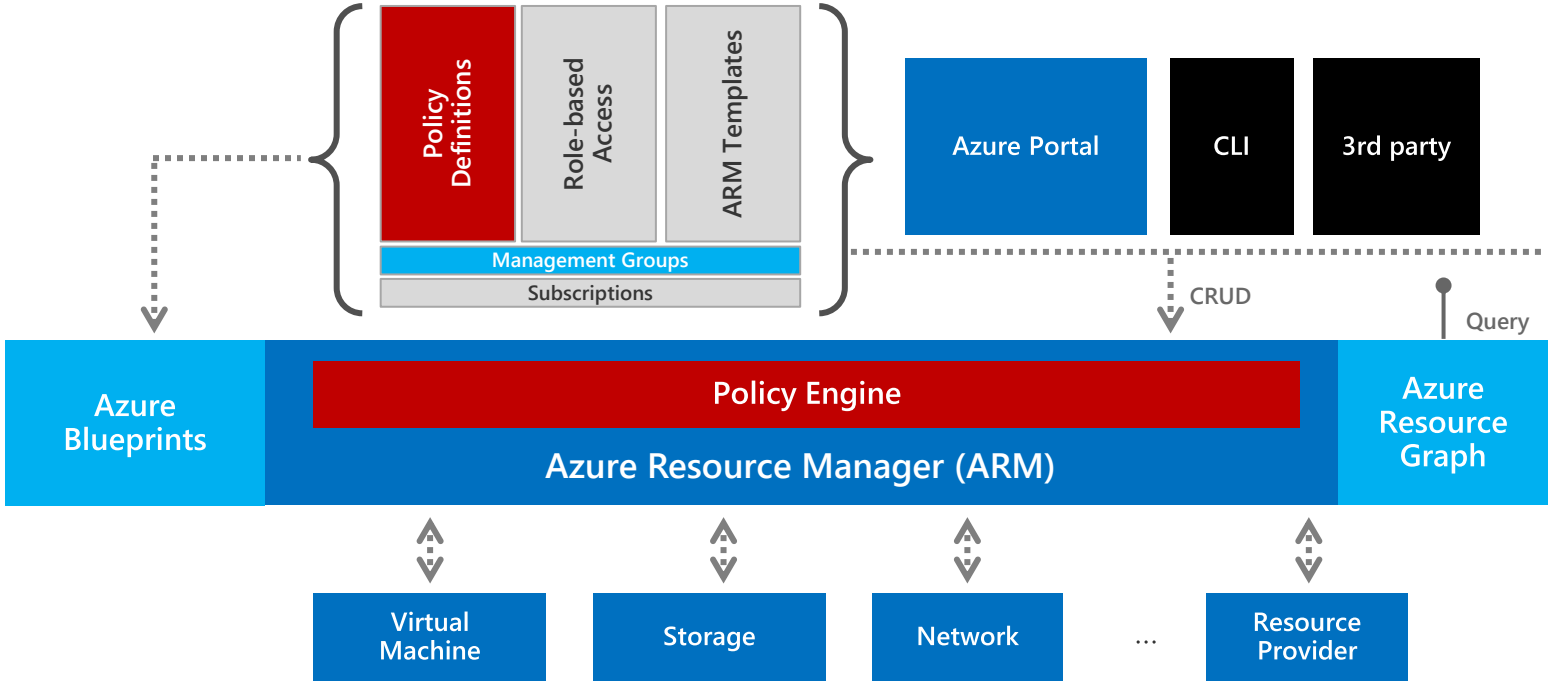
- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Deployment Tasks
  - Policy as Code
  - Policy Deployment

Cloud Governance - Definition

> ***ESTABLISHMENT of POLICIES, and continuous MONITORING of their proper IMPLEMENTATION, by the members of the governing body of an organization. […]***

Source: www.businessdictionary.com

Azure Governance Architektur



Experts Live Germany

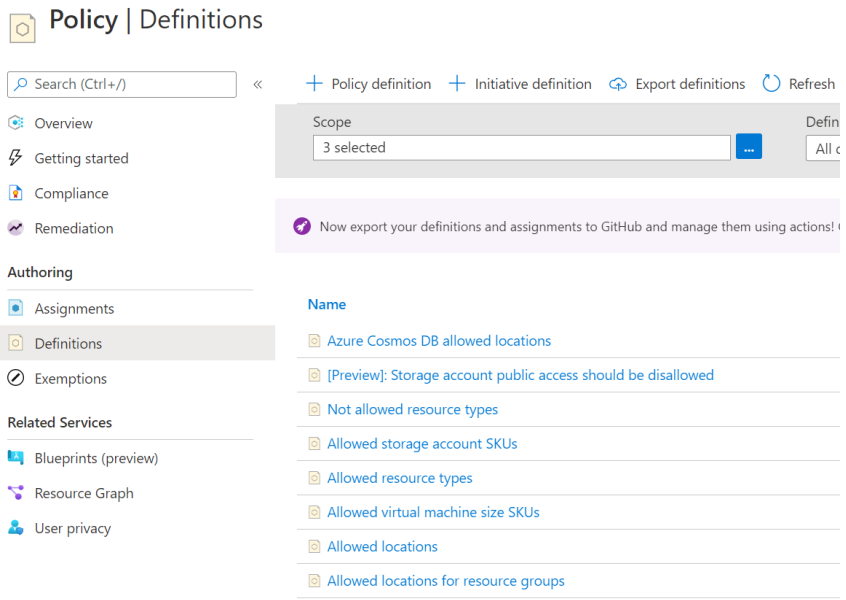
Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Deployment Tasks
  - Policy as Code
  - Policy Deployment

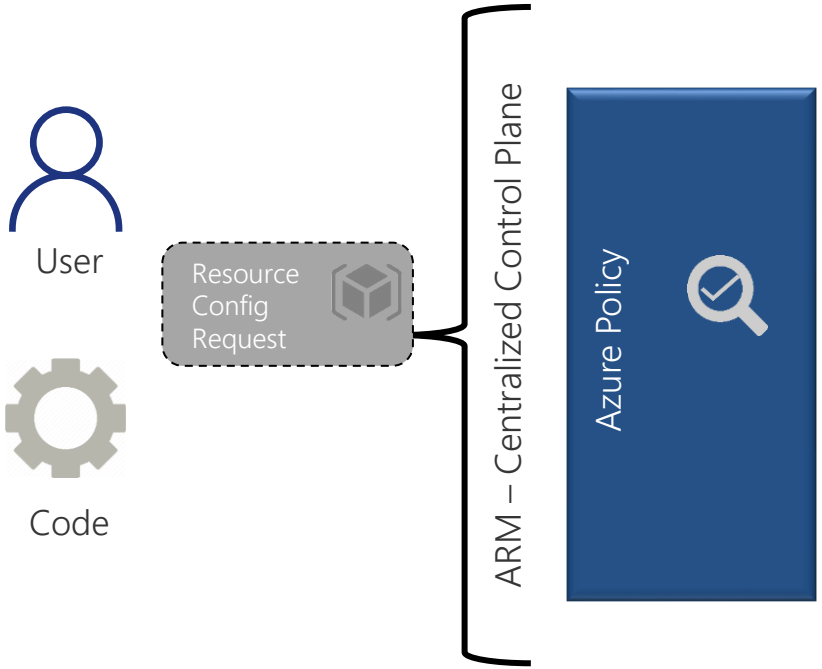
Resource Policies

- Management Groups, Subscriptions oderr RGs
- Policy ist das „Allow“ oder „Define“ System
- Arbeitet im if-then Prinzip
- Erstellung via JSON

- Aktionen:
  - Append
  - Audit
  - AuditIfNotExists
  - Deny
  - DeployIfNotExists
  - Disabled
  - Modify



Wie werden Policies abgearbeitet?



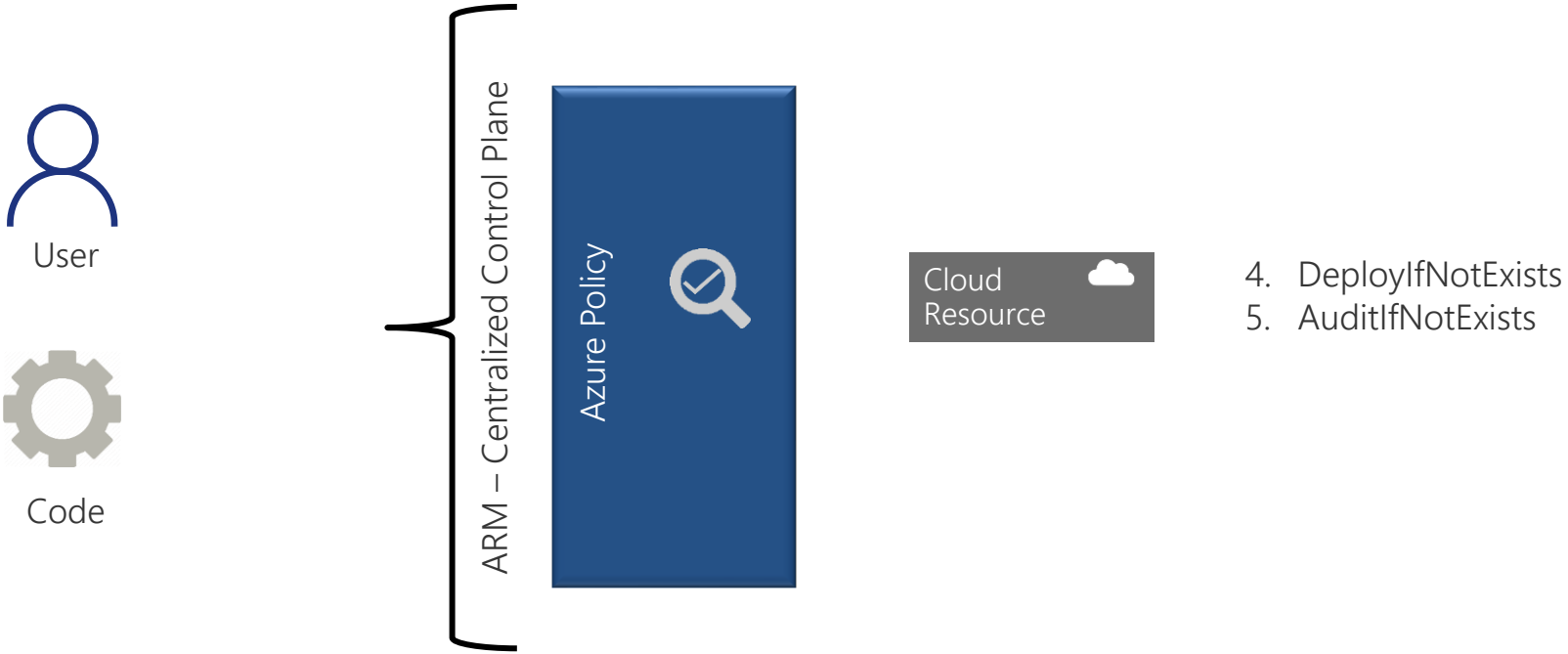
Order of evaluation

Cloud Resource

1. Disabled
2. Append / Modify
3. Deny
4. Audit

Experts Live Germany

Wie werden Policies abgearbeitet?



DEMO

Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Deployment Tasks
  - Policy as Code
  - Policy Deployment

Deliver with Azure DevOps

Azure Boards

Azure Repos

Azure Pipelines

Azure Artifacts

Azure Test Plans

Experts Live Germany

Azure DevOps Pricing

Open Source Projekte

Azure Pipelines
- 10 kostenfreie parallele Jobs mit unlimitierten Minuten
- 1 Microsoft-hosted Job mit bis zu 1800 Minuten
- 1 self-hosted Job mit unlimitierten Minuten

Azure Boards
- Aufgaben-Tracking und Kanban-Boards

Azure Repos
- Unbegrenzte private Git-Repos

Azure Artifacts
- 2 GiB kostenlos pro Organisation

Azure Test Plans

Erste 5 User frei
6 $ pro User / Monat

Basic Plan

Azure Pipelines
- 1 Microsoft-hosted Job mit bis zu 1800 Minuten
- 1 self-hosted Job mit unlimitierten Minuten

Azure Boards
- Aufgaben-Tracking und Kanban-Boards

Azure Repos
- Unbegrenzte private Git-Repos

Azure Artifacts
- 2 GiB kostenlos pro Organisation

Erste 5 User frei
6 $ pro User / Monat

Basic + Test Plans

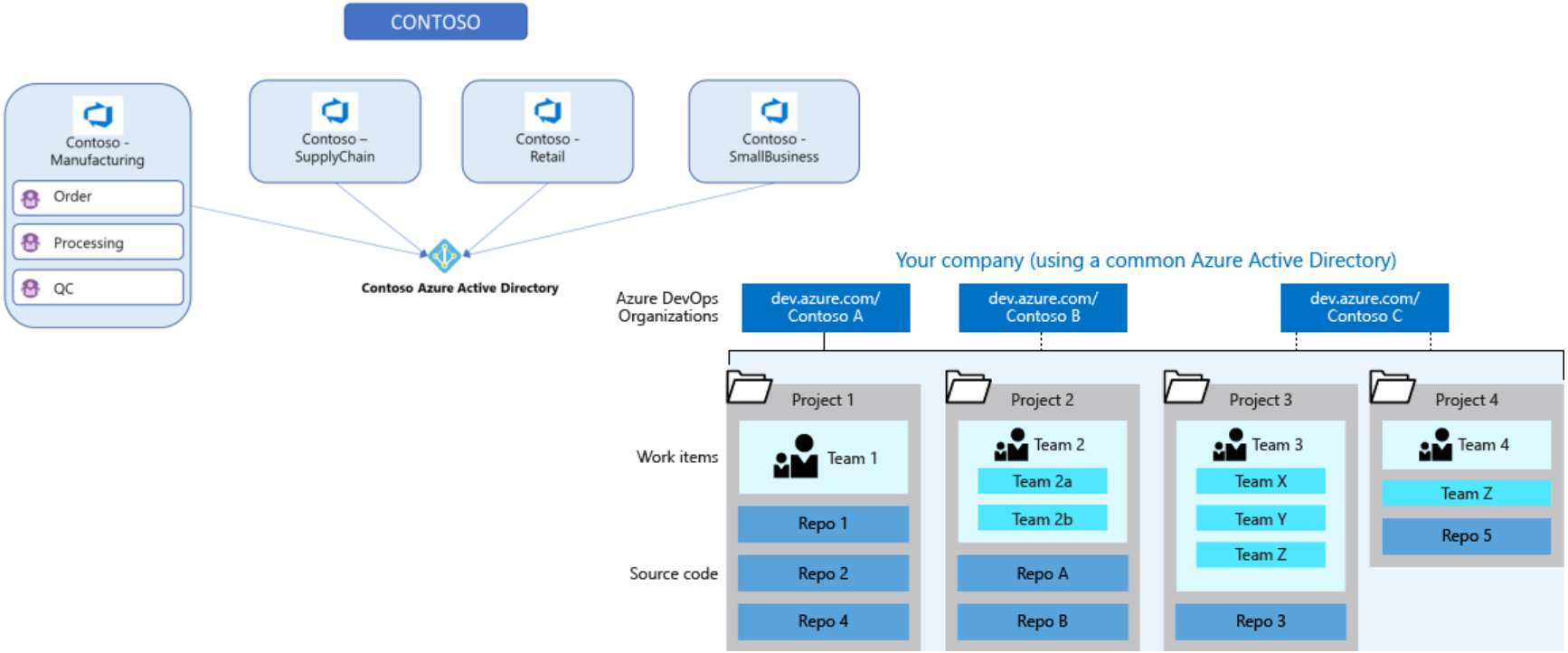
Azure Test Plans
- Test planning, tracking & execution
- Browser based tests with annotation
- Rich-client test execution
- User acceptance testing
- Centralized reporting

Azure Pipelines
Azure Boards
Azure Repos
Azure Artifacts

52 $ pro User / Monat

Experts Live Germany

DevOps Organizations and Projects



DEMO

Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
    - Pre- and Post-Deployment Tasks
    - Policy as Code
    - Policy Deployment

DEMO

Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Deployment Tasks
  - Policy as Code
  - Policy Deployment

DEMO

Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Deployment Tasks
  - Policy as Code
  - Policy Deployment

DEMO

Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Deployment Tasks
  - Policy as Code
  - Policy Deployment

DEMO

Agenda

- Azure Governance Recap
- Azure Policy Überblick
- Azure DevOps Überblick
- Policy & DevOps
  - Template Validation Pipeline
  - Pre- and Post-Depl
  - Policy Deployment

Implement Azure Policy as Code with GitHub

DEMO

Vielen Dank an unsere Sponsoren!

Platinum

FUJITSU

THOMAS KRENN®

bluechip
CREATING COMPUTERS.

Lenovo™

Gold

EXPERTS INSIDE

EasyLife 365

SVA

NiCE
IT Management Solutions

Silver

HORNETSECURITY

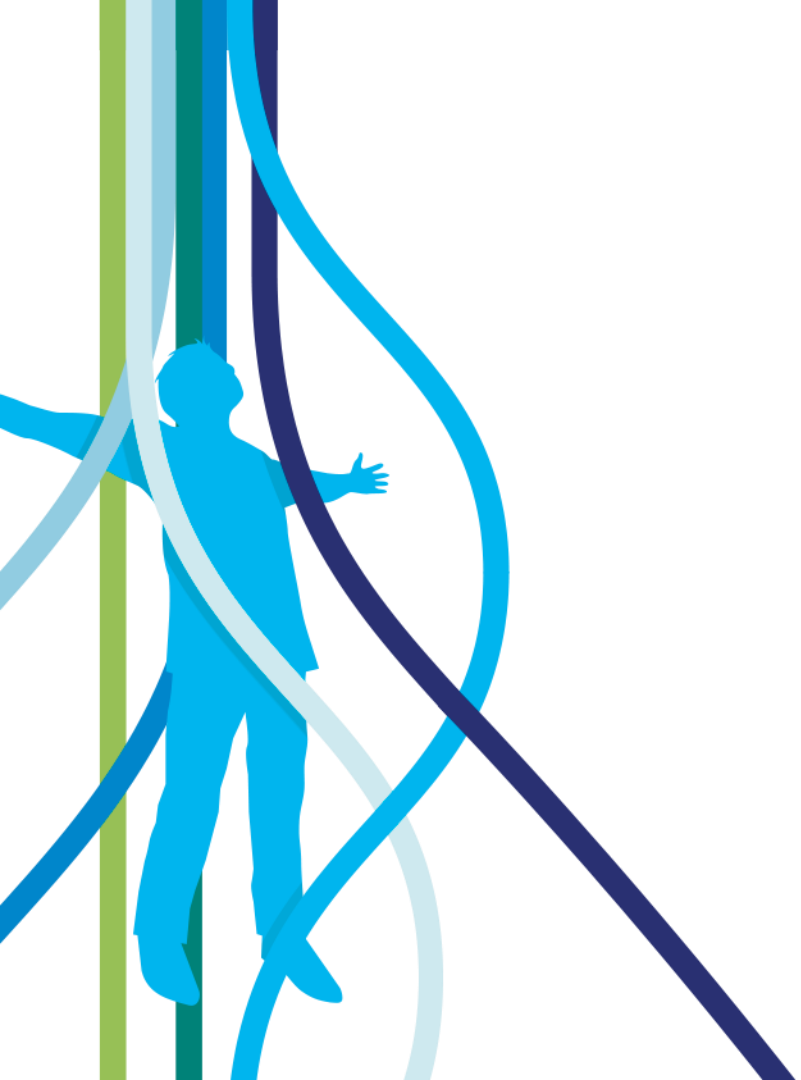
Experts Live Germany

Bitte gebt uns euer Feedback!

Feedbackbogen abgeben und Geschenk mitnehmen

Vielen Dank!

Experts Live Germany



DANKE! FRAGEN?

Eric Berg
Microsoft MVP – Azure & CDM
Vice President @ CGI