

# PIMp Your Administration: Strengthening Zero Trust with Entra ID

Klaus Bierschenk  
Director Consulting Expert, CGI

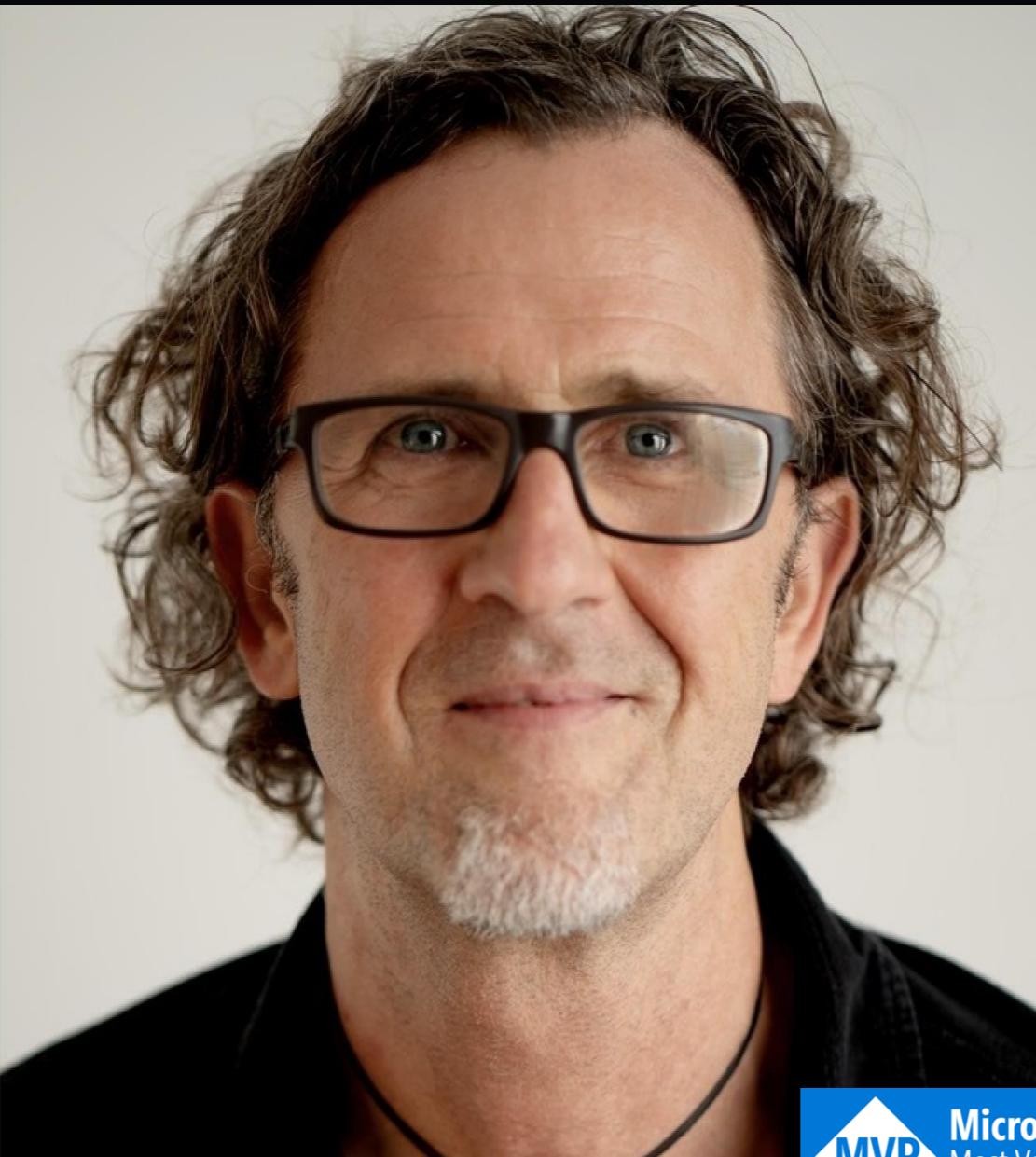
How many Entra ID Roles do we have today?

134

How many Azure Roles do we have today?

828

# Meet the Speaker



## Klaus Bierschenk

Director Consulting Expert / CGI Germany

- Based in Murnau, Bavaria
- Living with my family, two snakes, two cats – and lots of other animals my cats bring home from time to time



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# Improve Administration – Today's Topics

- ❖ PIM Concepts Explained Using an Example Environment (School)
- ❖ Improve: PIMP Your Administration with Other Technologies
- ❖ PIM for Groups – where does eligibility belong?
- ❖ Key Things You Should Know About PIM



# School (or Similar) Environment Model

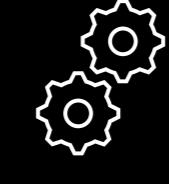
1 School-wide



Multiple GA configurations



No User Entra Admin Center access



No permanent GAs

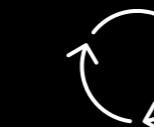


No changes to default roles

2 Class Level Access (AU)



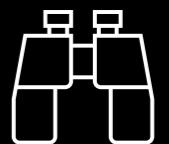
Class Admins



Manual Role Assignment

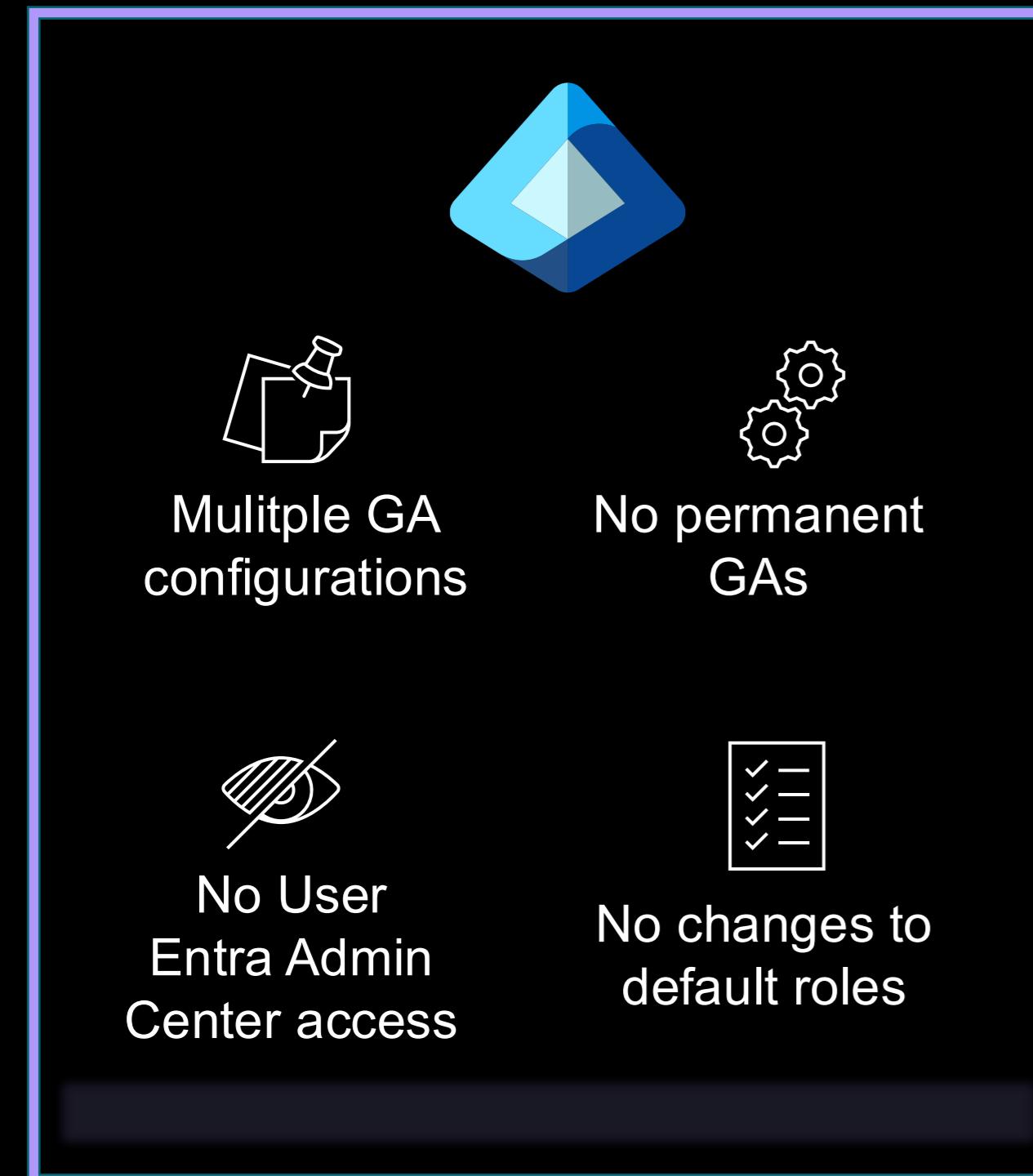


Protect groups



Monitor sensitive objects

3 Sensitive Student Support



PIM Basic



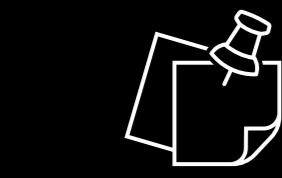
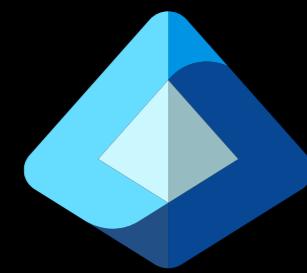
PIM for Groups



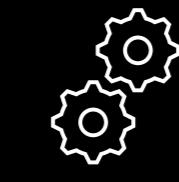
Admin Units

# School (or Similar) Environment Model

1 School-wide



Multiple GA configurations



No permanent GAs



No User Entra Admin Center access



No changes to default roles

Use PIM for Groups to manage multiple Global Administrator access

Most built-in roles are not modified

Only Break-Glass Accounts are permanently assigned

End users do not have access to the Entra Admin Center

GA activation is blocked on mobile devices (Conditional Access)



PIM Basic

PIM for Groups

Admin Units

# Demo

## Tenant Settings

- *Multiple GAs via Groups*
- *Built-in Roles are not modified*
- *Conditional Access*



Edge Datei Bearbeiten Anzeigen Verlauf Favoriten Profil Tab Fenster Hilfe

PIM-GA-ConfigEngineer - Microsoft Edge Conditional Access - Microsoft Edge

https://entra.microsoft.com/#view/Microsoft\_AAD\_ConditionalAccess/ConditionalAccessBlade/~/Overview/menuId//fromNav/identity

Microsoft Entra admin center Search resources, services, and docs (G+)

Copilot 6 Notifications Settings Help Search

klaus@kbrun.de MAIN IDENTITY LAB (KBCORP20...)

Home > Home > Conditional Access | Overview

Microsoft Entra ID

+ Create new policy + Create new policy from templates Refresh Got feedback?

Overview Policies Deleted Policies (Preview) Insights and reporting Diagnose and solve problems

Getting started Overview Coverage Tutorials

Policy Summary

Manage

Named locations Custom controls (Preview) Terms of use

VPN connectivity Authentication contexts Authentication strengths

Classic policies

Monitoring

Sign-in logs Audit logs

Troubleshooting + Support

New support request

Agent Identities There are 5 agent identities in your tenant See all unprotected sign-ins See all policies protecting agents

Policy Snapshot 7 Enabled 1 Report-only 5 Off View all policies

Devices 1% of sign-ins in the last 7 days were from unmanaged or non-compliant devices See all noncompliant devices See all unmanaged devices

Conditional Access Optimization Agent 0 suggestions View suggestions

Users 3 users signed in during the last 7 days without any policy coverage See all unprotected sign-ins

Applications Browse a list of applications that are not protected by your policies. View top unprotected apps

# School (or Similar) Environment Model

## 2 Class Level Access (AU)



Class  
Admins

Manual Role  
Assignment

Students are assigned using a dynamic membership rule

Class Admins are assigned to Administrative Units manually

Challenge:

Annual admin changes at the end of the school year

AU Admins change every year

*Do we handle this manually — or automate it?*



PIM Basic

PIM for Groups

Admin Units

# Demo

*Delegated permissions:*

- AU administration settings
- Lifecycle workflows (*Example*)



# School (or Similar) Environment

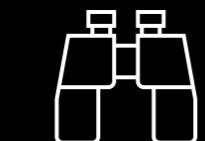
## 3 Sensitive Student Support



Control access to groups and objects



Protect  
groups



Monitor  
sensitive objects

Only specific user should have access - no Global Admins



Alert on changes via simple Alert Rule and Action Group  
Of course data still needs to be protected  
*(Purview, SPO-permissions, etc.)*



PIM Basic

PIM for Groups

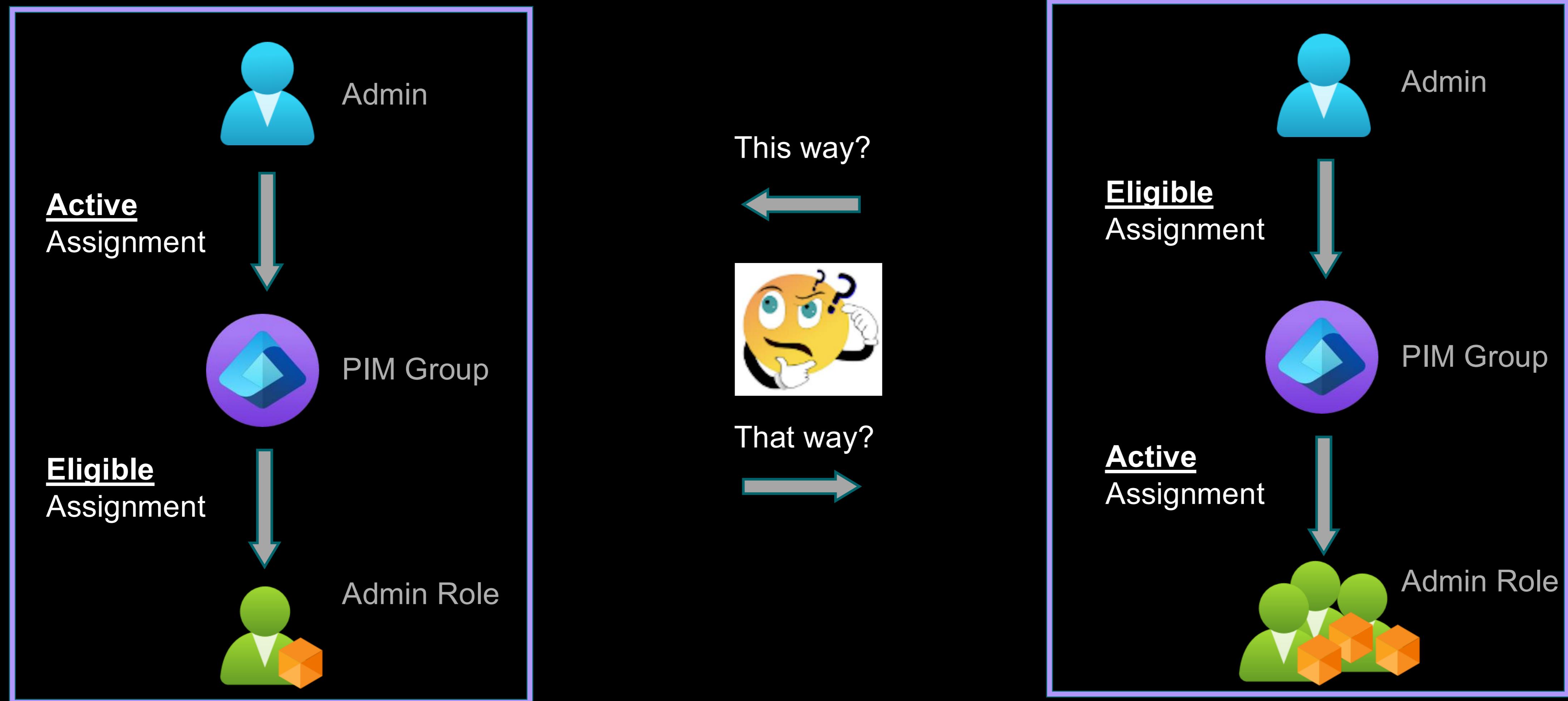
Admin Units

# Demo

*Protecting sensitive  
objects in Microsoft Entra ID*

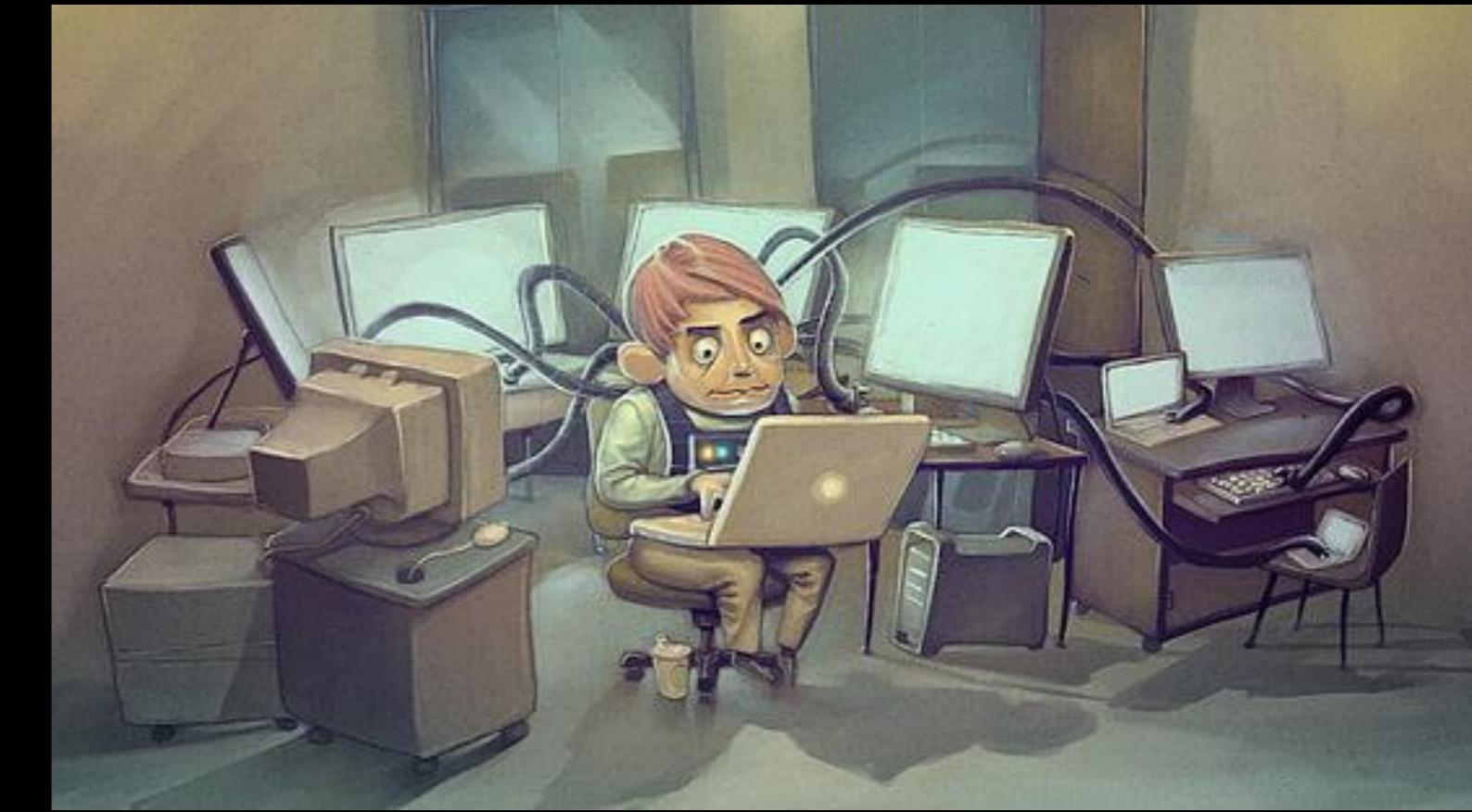


# PIM for Groups – where does eligibility belong?



# *Demo*

*PIM for Groups ...*



Home &gt;

# Privileged Identity Management | Quick start

## Quick start

### Tasks

- My roles
- My requests
- Approve requests
- Review access

### Manage

- Microsoft Entra roles
- Groups
- Azure resources

### Activity

- My audit history

### Troubleshooting + Support

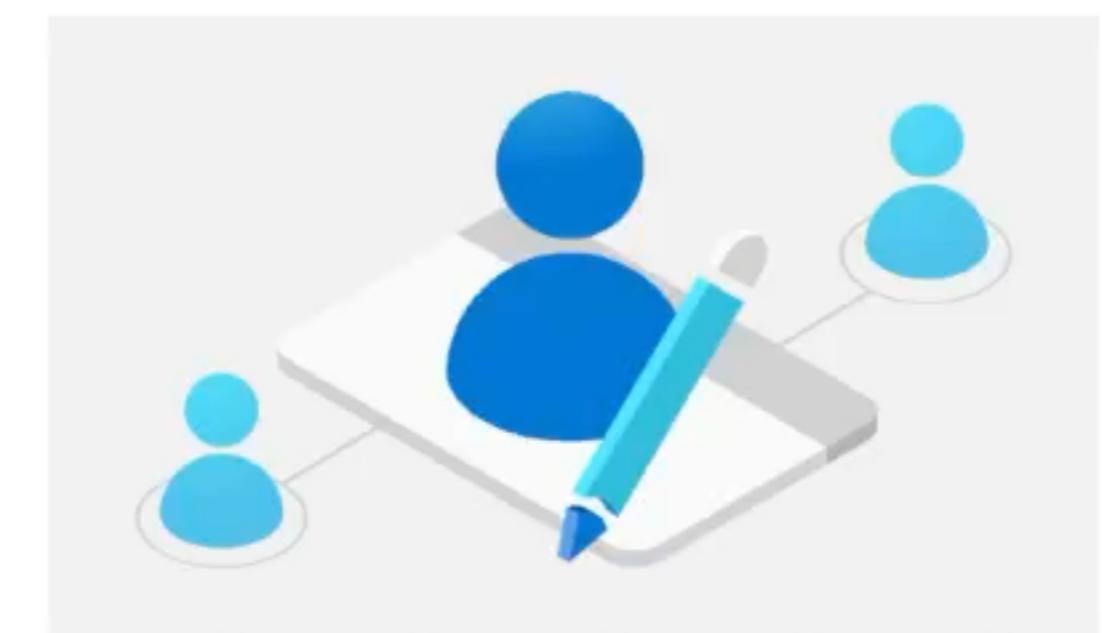
- Troubleshoot
- New support request

What's new

Get started

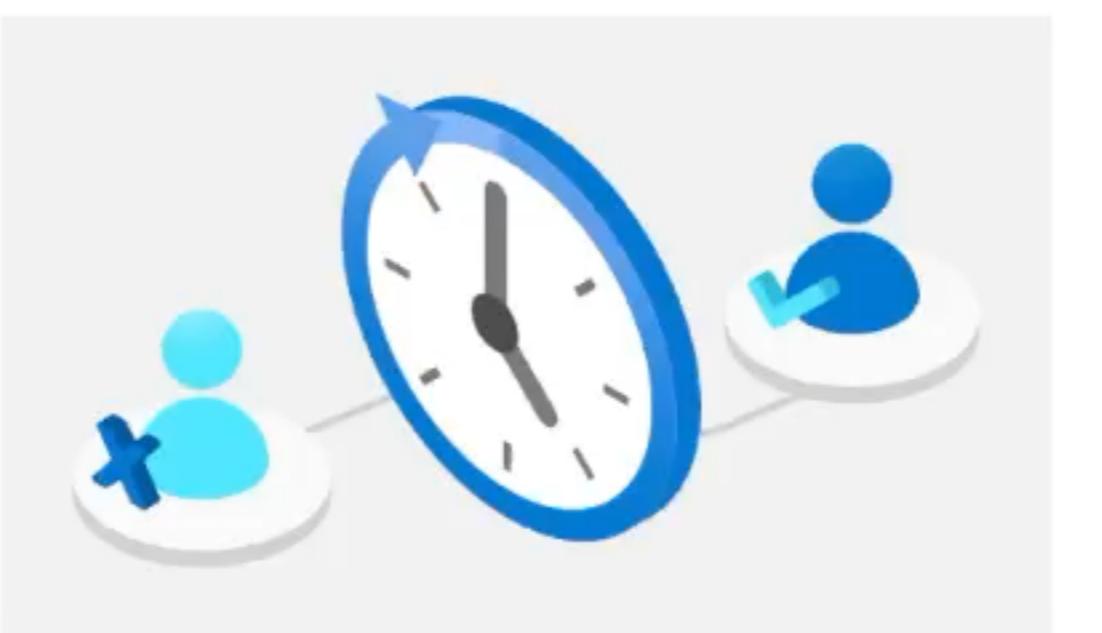
## Manage your privileged access

Use Privileged Identity Management to manage the lifecycle of role assignments, enforce just-in-time access policy, and discover who has what roles. [Learn more](#)



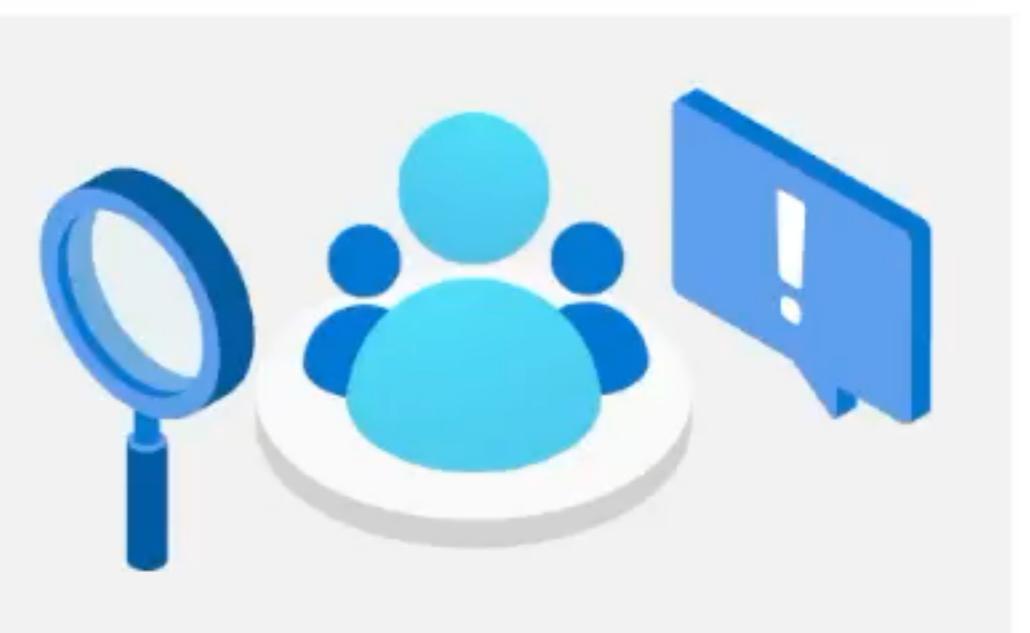
### Manage access

Users with excessive access are vulnerable in the event of account compromise. Ensure your organization manages to least privilege by periodically reviewing, renewing, or extending access to resources.

[Manage](#)

### Activate just in time

Reduce the potential for lateral movement in the event of account compromise by eliminating persistent access to privileged roles and resources. Enforce just in time access to critical roles with PIM.

[Activate](#)

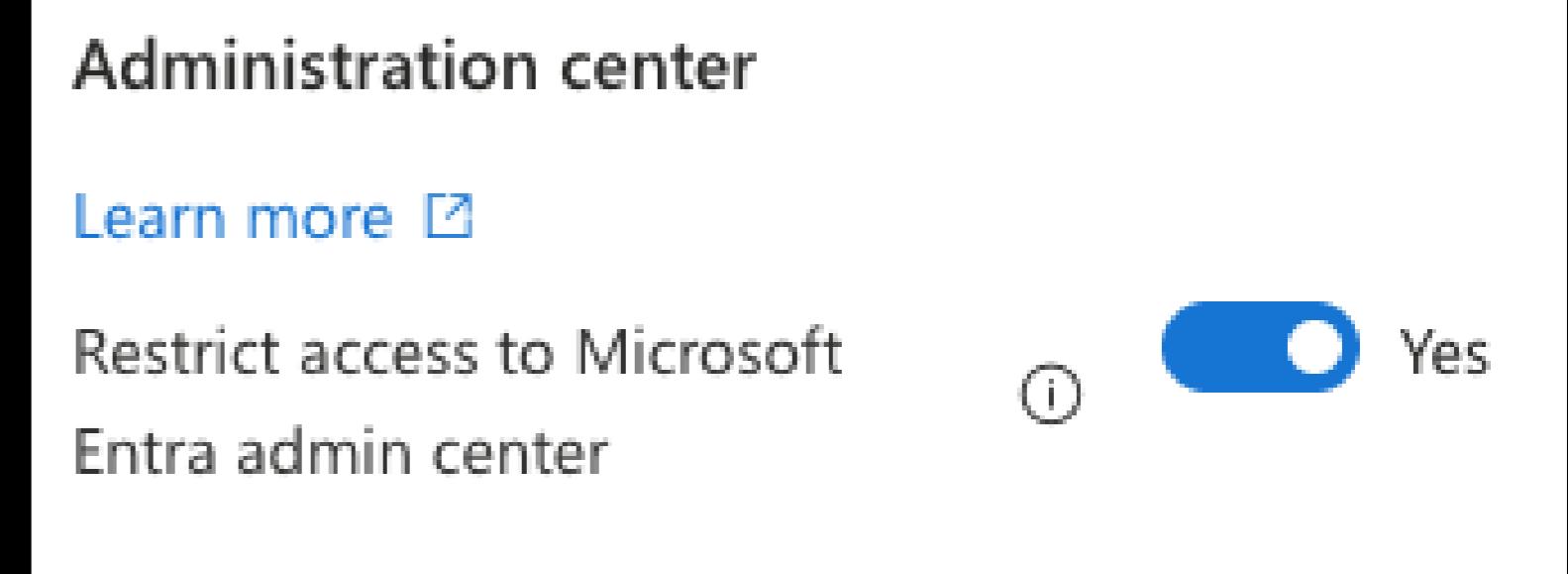
### Discover and monitor

It is common for access to critical resources to go undetected. Ensure you know who has access to what, and receive notifications when new assignments are granted to accounts in your organization.

[Discover](#)

# What else? Things You Should Know!

- ❖ Entra Admin Center Access restricted?
  - direct URL through Azure Portal
  - or via Entra Admin Center
    - both links are in the appendix slide*
  - *Does not work with Admin Portal Target in Conditional Access Policy*
- ❖ The fastest way: [aka.ms/pim](https://aka.ms/pim)



# A Few More Things You Should Know!

- ❖ **No integration with MyAccess.microsoft.com**  
*(not an Admin Portal Target)*
- ❖ **Don't forget licensing**  
*Users benefiting from PIM must be licensed*
- ❖ **Delayed cleanup with PIM groups – cosmetic only**
- ❖ **Auditing**  
Role activation: Resource audit  
Group activation: Audit logs (**Service=PIM, Category=Group Management**)
- ❖ **Ask Security Copilot ...**

Demo ...



- Home
- Entra agents
- Favorites
- Entra ID
- Overview
- Users
- Groups
- Devices
- Agent ID (Preview)
- Enterprise apps
- App registrations
- Roles & admins
- Delegated admin partners
- Domain services
- Conditional Access
- Multifactor authentication
- Identity Secure Score
- Authentication methods
- Account recovery (Preview)
- Password reset
- Custom security attributes

# Microsoft Entra

Report on ownerless groups and suggest next steps (assign owner / archive). +2

## Security Copilot agents are here

Discover a whole new way to automate security with AI.

[Learn more about agents](#)

[Go to agents](#)

## Main Identity LAB

Tenant ID f5c07476-f2f0-45bf-8745-34a90b6a2a... [View](#)

Primary domain kbcorp2021.onmicrosoft.com [View](#)

 61	 55
<a href="#">View users</a>	<a href="#">View groups</a>
 24	 34
<a href="#">View devices</a>	<a href="#">View apps</a>

## Richard Langley

6614c641-2c2c-4fa4-af93-01835fc05d77 [View](#)

[View user profile](#)

### My role assignments

1

- High privileged role assignments
- Other role assignments

[Manage my roles](#)

### Users at high risk

No detections found

No user detections with risk level "high" in the last 365 days.

[View high risk users](#)

### Shortcuts

Add [User sign-ins](#) [Audit logs](#) [Authentication Methods](#) [Blocked users](#) [Domain names](#)

## Copilot

Use Copilot to support your work in identity and access management.

Select one of the suggestions below to get started.

**Summarize**  
Report on ownerless groups and suggest next steps (assign owner / archive).

**Analyze**  
List all apps with expiring credentials.

**Troubleshoot**  
List devices that have been inactive for over 30 days for an audit review.

**Learn**  
What is the guest invite setting in my tenant?

List my eligible Entra ID directory roles managed by PIM

+

# Wrap up - takeaway

- ❖ JIT and JEA on a group-to-role basis (1:1 or 1:n relationships)
- ❖ Administrative Units + PIM for Groups enable real-world delegation models
- ❖ Full automation of admin roles is intentionally limited – but governance fills the gap



# Further Resources ...



## Microsoft Learn

[Licensing Infos](#)

[Use Microsoft Entra groups to manage role assignments](#)

[Restricted management administrative units in Microsoft Entra ID](#)



## Best Practices & Community

[Restricted management administrative units in Microsoft Entra ID](#)

[custom activation is not working in PIM -> Tokenrefresh](#)

[Direkt URL thru Azure Portal](#)

[Direct URL thru Entra Portal](#)



## NothingButCloud Blog

[Zero Trust in Entra ID: Monitoring Break-Glass Accounts and Other Sensitive Operations](#)

[Demystifying Assignment Strategies with 'PIM for Groups'](#)

[When Static Roles Are Not Enough: Dynamic Admin Assignment for Entra AUs \(class admin demo\)](#)

<https://github.com/KlaBier/Powershell/tree/main/CreateSecCopilotSCU>

File Edit Selection View Go Run ... ← → Q Powershell [Administrator] ⌂ ⌂ ⌂ ⌂ ⌂ ⌂ ⌂ ⌂ ⌂

> CreateSecCopilotSCU.ps1 X > EntraExporter\_WriteLocalGit.ps1

CreateSecCopilotSCU > > CreateSecCopilotSCU.ps1

```
4
5 # Connect to the correct tenant and subscription
6 Connect-AzAccount -Tenant 'YOUR TENANT ID' -SubscriptionId 'YOUR SUBSCRIPTION ID'
7
8 # Resource Group for Security Copilot capacity
9 New-AzResourceGroup -Name "SecurityCopilotRG" -Location "WestEurope"
10
11 # One-time operation per subscription
12 # Depending on Tenant rollout stage, either Microsoft.Security OR Microsoft.SecurityCopilot may be required
13 #Register-AzResourceProvider -ProviderNamespace "Microsoft.Security"
14 #Register-AzResourceProvider -ProviderNamespace "Microsoft.SecurityCopilot"
15
16 # Create a Security Copilot capacity (SCU)
17
18 New-AzResource -ResourceName "SecurityCopilotSCU" ^
    -ResourceType "Microsoft.SecurityCopilot/capacities" ^
    -ResourceGroupName "SecurityCopilotRG" ^
    -Location "westeurope" ^
    -ApiVersion "2023-12-01-preview" ^
    -Properties @{numberOfUnits=2; crossGeoCompute="NotAllowed"; geo="EU"} ^
    -force
19
20
21
22
23
24
25
26 # Important: delete the SCU or the entire resource group afterwards to avoid costs
27 # DeleteSecCopilotSCU.ps1
28
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS + ... X pwsh PowerShell ...

PS C:\Users\klaus\OneDrive\GitContent\Powershell>

1 inch of rain Thursday

Search M365 CLOUD DEU 🔍

A screenshot of the Visual Studio Code interface, specifically focusing on the terminal tab. The terminal is currently active and displays a PowerShell prompt: PS C:\Users\klaus\OneDrive\GitContent\Powershell>. To the right of the terminal, there is a dropdown menu with two options: 'pwsh' and 'PowerShell ...'. The status bar at the bottom shows the file path as 'main' and the author as 'Klaus Bierschenk (2 weeks ago)'. Other status indicators include 'Ln 4, Col 1', 'Spaces: 4', 'CRLF', and a PowerShell icon.



 Search



DEU





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# Questions?