



PIMp Your Administration: Strengthening Zero Trust with Entra ID

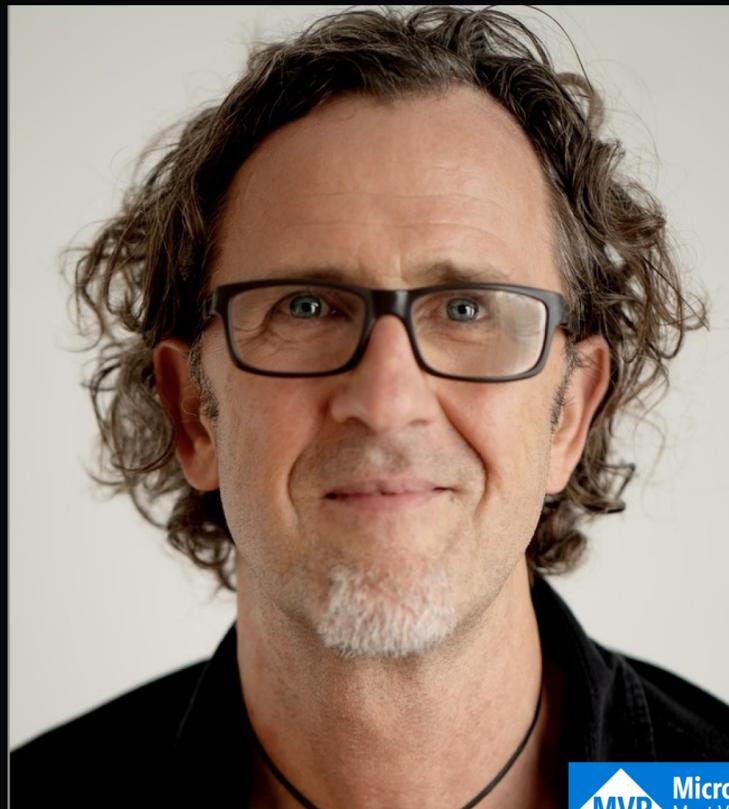
Klaus Bierschenk
Director Consulting Expert, CGI

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



[linkedin.com/in/klabier/](https://www.linkedin.com/in/klabier/)



Klaus@nothingbutcloud.net



<https://NothingButCloud.net>



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 permanent GAs
- No User Entra Admin Center access
- No changes to default roles

2 Class Level Access (AU)



- Class Admins
- Manual Role Assignment

3 Sensitive Student Support



- Protect groups
- Monitor sensitive objects



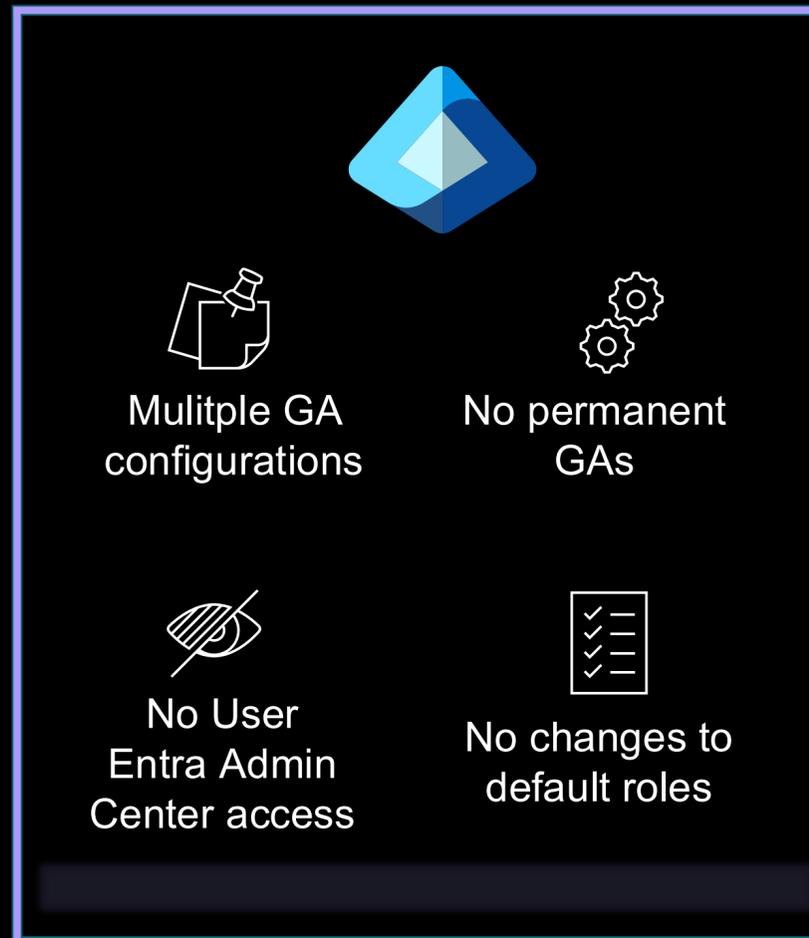
PIM Basic

PIM for Groups

Admin Units

School (or Similar) Environment Model

1 School-wide



Use PIM for Groups to manage multiple Global Administrator access

Most built-in roles are not be 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*



- 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

- Home >
- Conditional Access | Overview
- Microsoft Entra ID
- Overview
- Policies
- Deleted Policies (Preview)
- Insights and reporting
- Diagnose and solve problems
- 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

Microsoft Entra admin center

Search resources, services, and docs (G+/)

Copilot

6

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

Home >

Conditional Access | Overview

Microsoft Entra ID

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

Manage, govern, and protect your agent identities in one place to keep your tenant secure. [Learn more about Microsoft Entra Agent ID capabilities](#)

Getting started Overview Coverage Tutorials

Policy Summary

Agent Identities

There are 5 agent identities in your tenant

[See all unprotected sign-ins](#)

[See all policies protecting agents](#)

Conditional Access Optimization Agent

0 suggestions

[View suggestions](#)

Policy Snapshot

7 Enabled 1 Report-only 5 Off

[View all policies](#)

Users

3 users signed in during the last 7 days without any policy coverage

[See all unprotected sign-ins](#)

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](#)

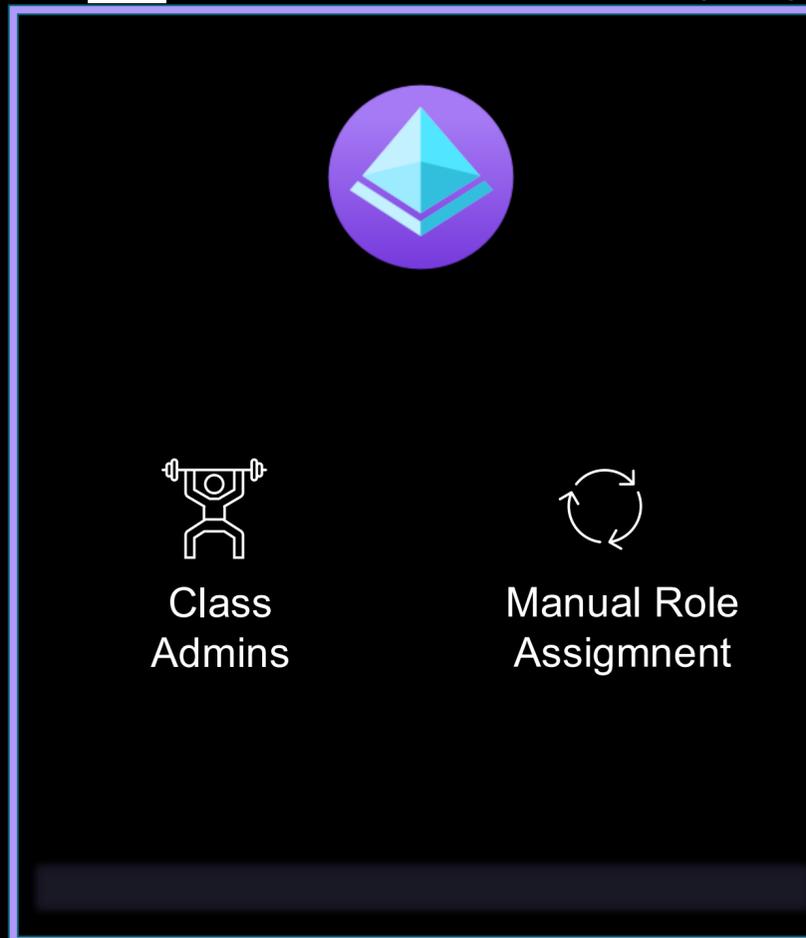
Applications

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)



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

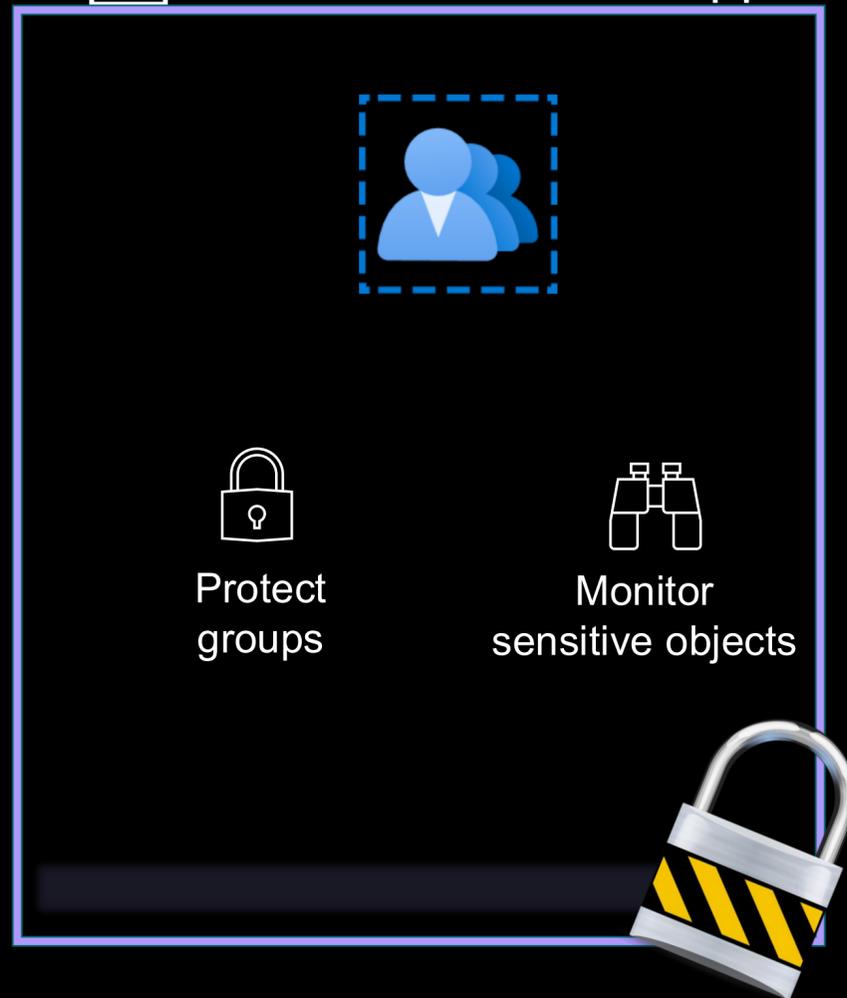
Delegated permissions:

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



School (or Similar) Environment

3 Sensitive Student Support



Control access to groups and objects

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

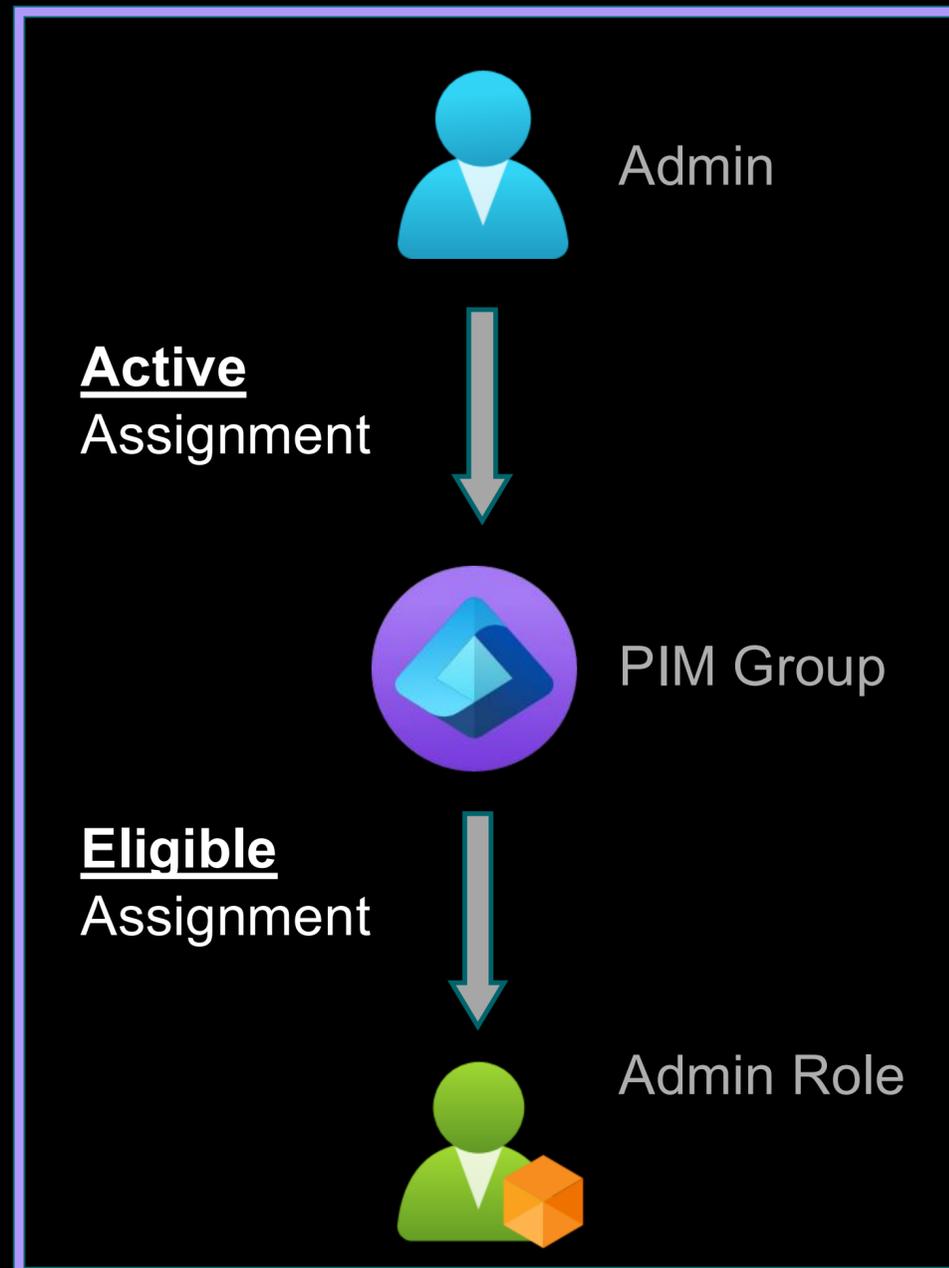
Admin Units

Demo

*Protecting sensitive
objects in Microsoft Entra ID*



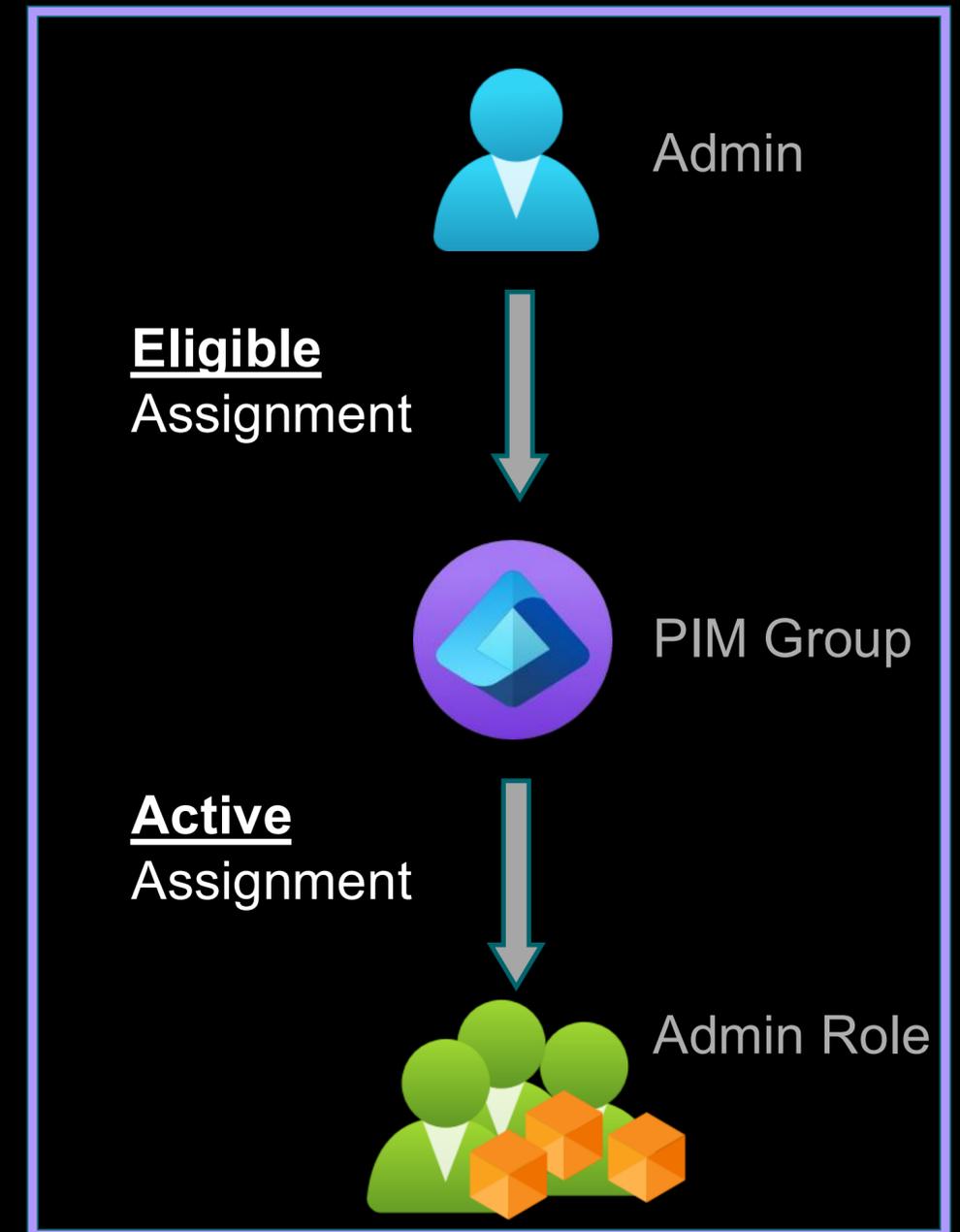
PIM for Groups – where does eligibility belong?



This way?

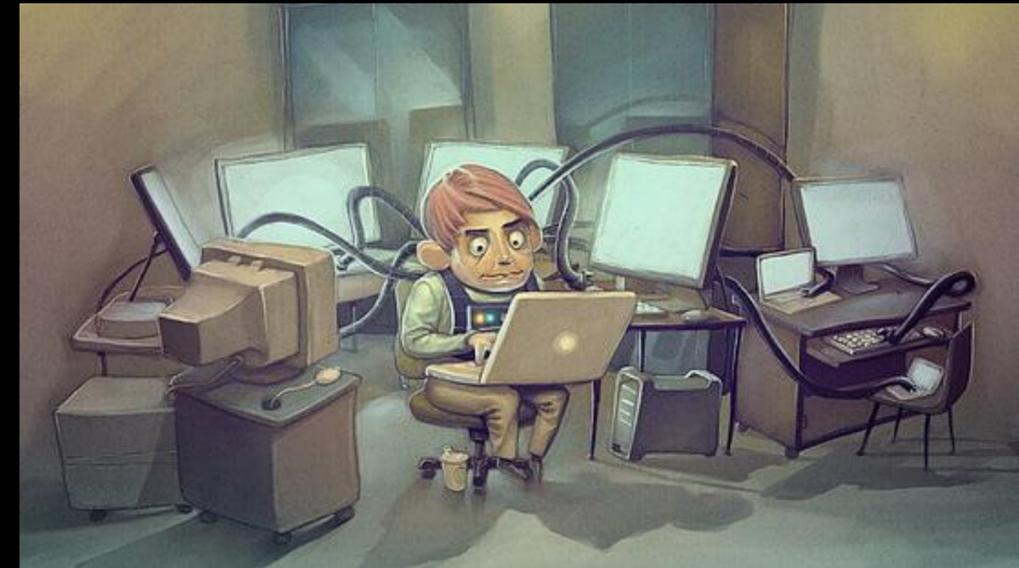


That way?



Demo

PIM for Groups ...



Home >

Privileged Identity Management | Quick start

Privileged Identity Management

<< What's new Get started

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

Manage your privileged access

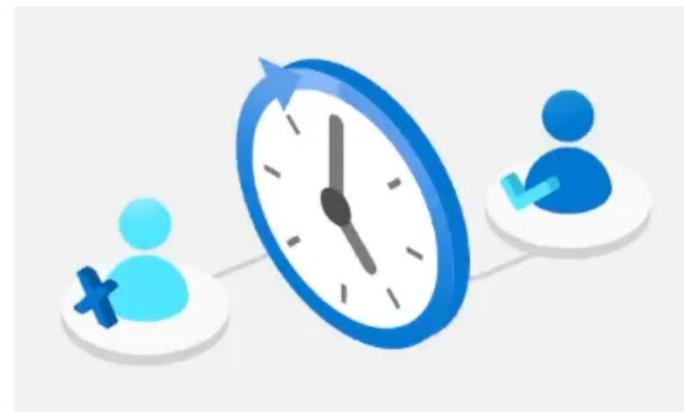
Use Privileged Identity Management to manage the lifecycle of role assignments, enforce just-in-time access policy, and discover who has what roles. [Learn more](#)



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.

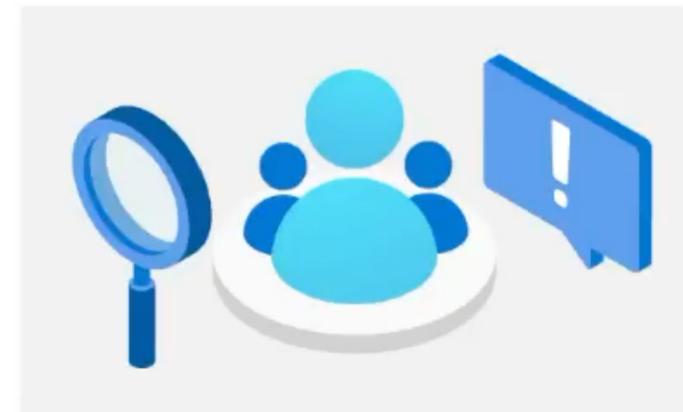
Manage



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

Administration center

[Learn more](#) 

Restrict access to Microsoft



Yes

Entra admin center

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

61 View users	55 View groups
24 View devices	34 View apps

Richard Langley
 6614c641-2c2c-4fa4-af93-01835fc05d77 [Copy](#)
[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





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>

```

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" `
19     -ResourceType "Microsoft.SecurityCopilot/capacities" `
20     -ResourceGroupName "SecurityCopilotRG" `
21     -Location "westeurope" `
22     -ApiVersion "2023-12-01-preview" `
23     -Properties @{numberOfUnits=2; crossGeoCompute="NotAllowed"; geo="EU"} `
24     -force
25
26 # Important: delete the SCU or the entire resource group afterwards to avoid costs
27 # DeleteSecCopilotSCU.ps1
28

```



CreateSecCopilotSCU > DeleteSecCopilotSCU.ps1

```

1 # Quick delete the entire RG with the associated SCU
2
3 Connect-AzAccount -Tenant 'YOUR TENANT ID' -SubscriptionId 'YOUR SUBSCRIPTION ID'
4 |
5 Remove-AzResourceGroup -Name "SecurityCopilotRG" -force
6

```



HYBRID
IDENTITY
PROTECTION
conf26

FRANKFURT

Questions?