Microsoft Security

Microsoft Entra

Azure Architects Connect

31.01.2024

Your Microsoft Entra Nerds

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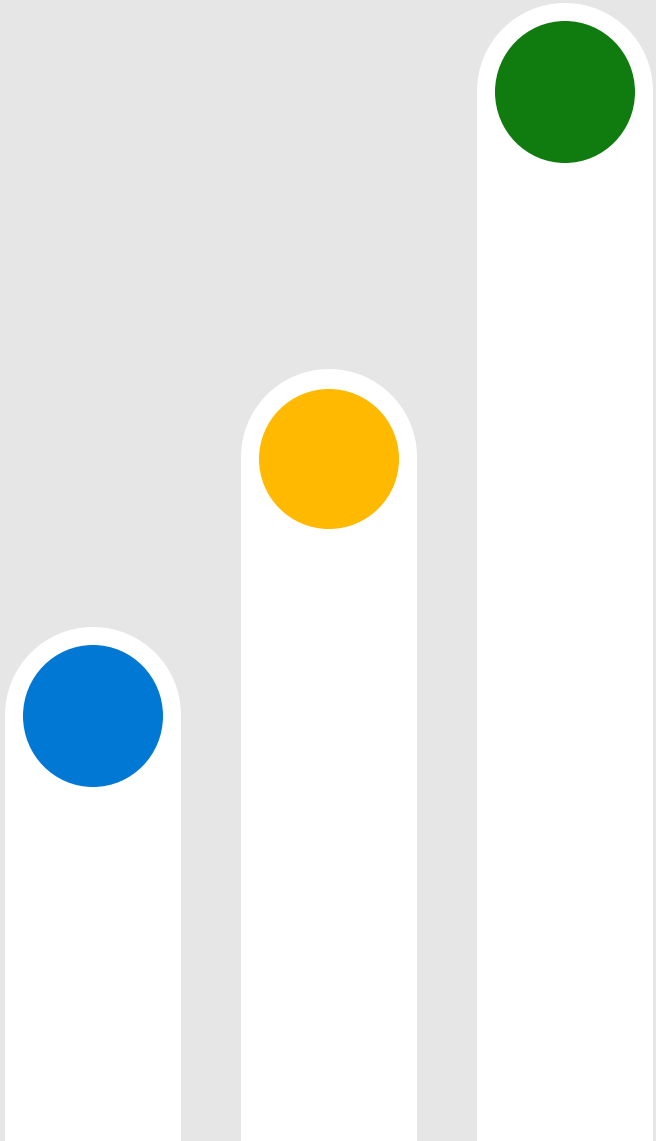
Agenda

- Einführung in die Microsoft Entra Suite
- Neuigkeiten rund um Microsoft Entra
- Einblick in die Microsoft Secure Service Edge (SSE) Lösung
- Q & A



Microsoft Security

Einführung in die Microsoft Entra Suite

Today's identity and access challenges demand a holistic solution

Accelerated growth of identities and apps, on and off the corporate network, requiring secure, user-friendly access

Massive rise in identity cyberattacks—more than 4,000 password cyberattacks per second[1] —increasing risk of compromised accounts

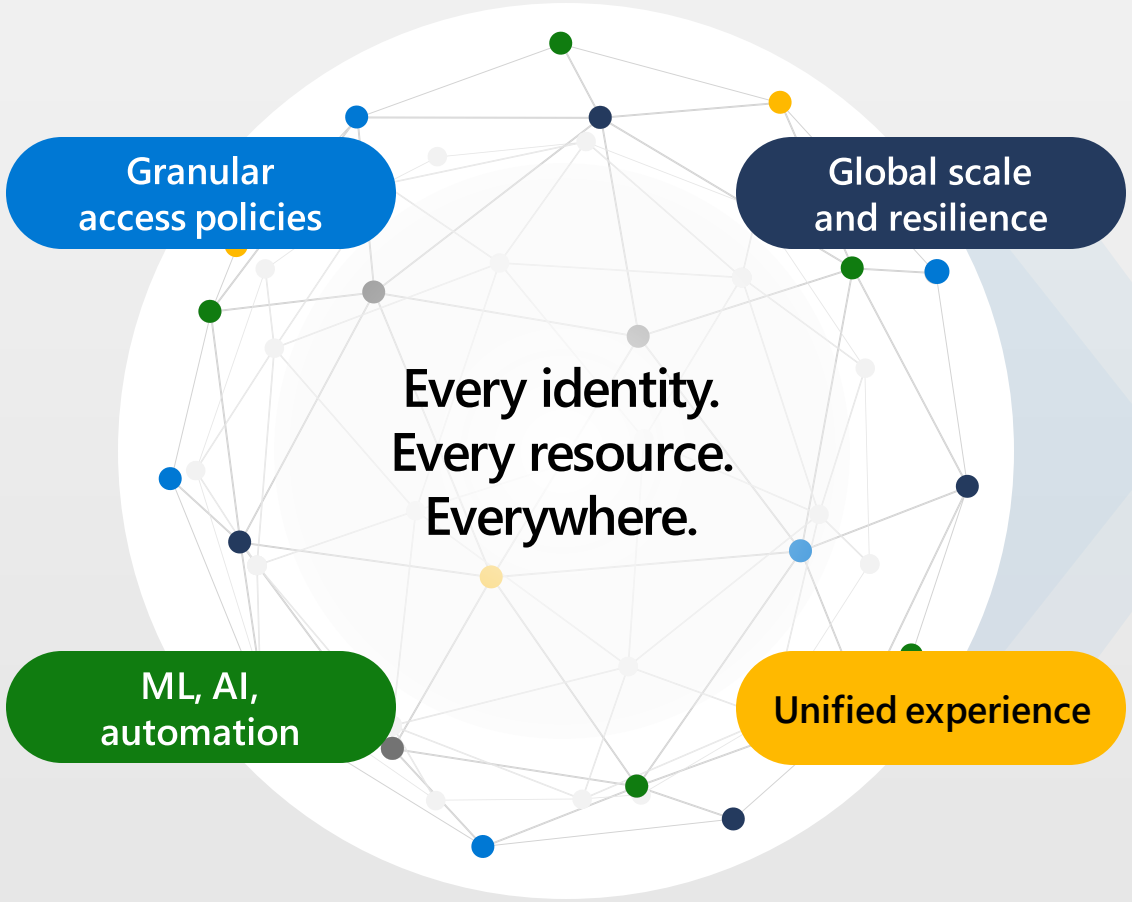
Evolving regulations and compliance requirements for protecting identities and auditing access rights

[1]Microsoft Entra expands into Security Service Edge and Microsoft Entra ID becomes Microsoft Entra ID and Microsoft Security Blog

Microsoft Entra

Secure access for a connected world

- Human identities
- Workload identities
- Customers
- Partners
- Devices

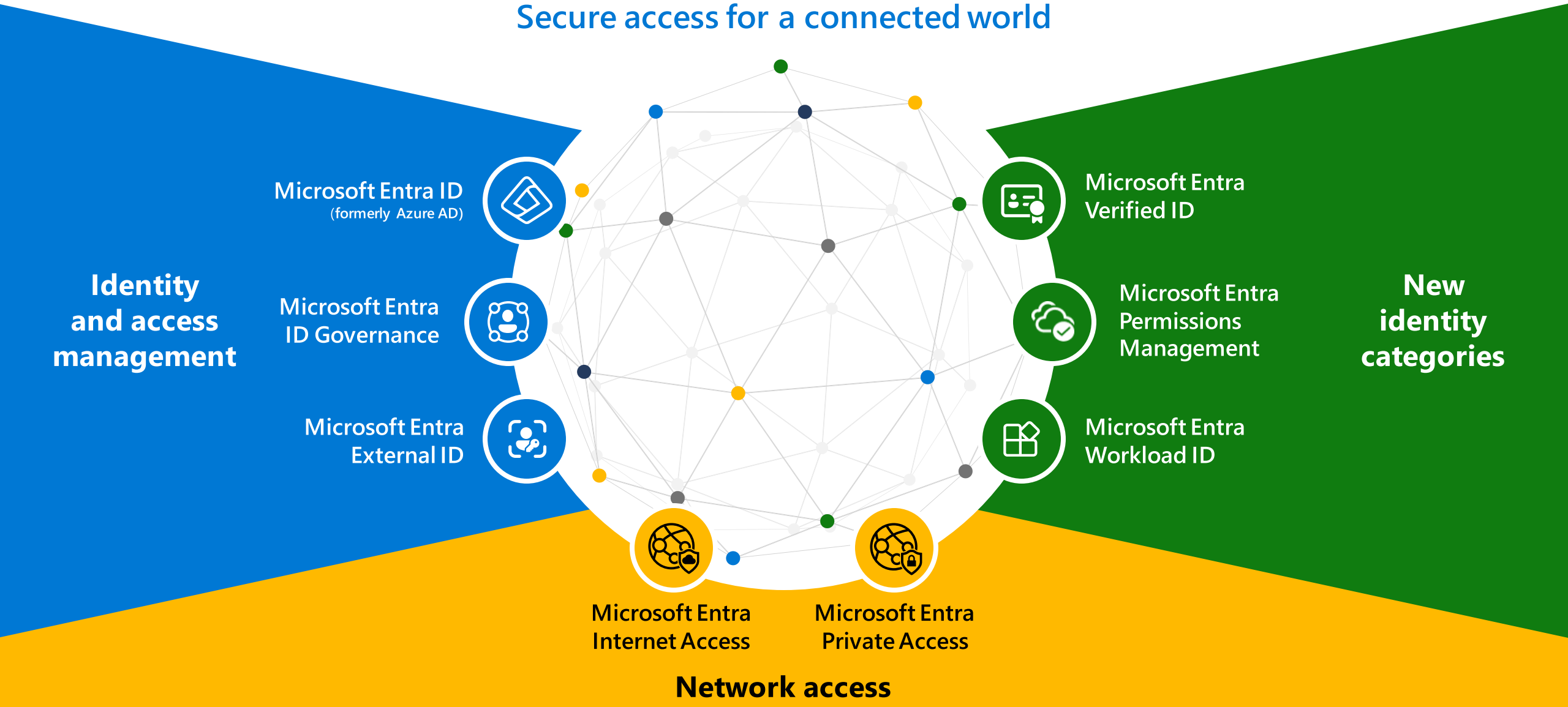


- Data
- SaaS apps
- Cloud-hosted apps and resources
- On-premises applications
- Websites

Powered by trillions of security signals

Microsoft Entra product family

Secure access for a connected world



Microsoft Entra product family

Secure access for a connected world

Identity and access management

Microsoft Entra ID
(formerly Azure AD)

Microsoft Entra ID Governance

Microsoft Entra External ID

New identity categories

Microsoft Entra Verified ID

Microsoft Entra Permissions Management

Microsoft Entra Workload ID

Network access

Microsoft Entra Internet Access

Microsoft Entra Private Access

Microsoft Entra ID

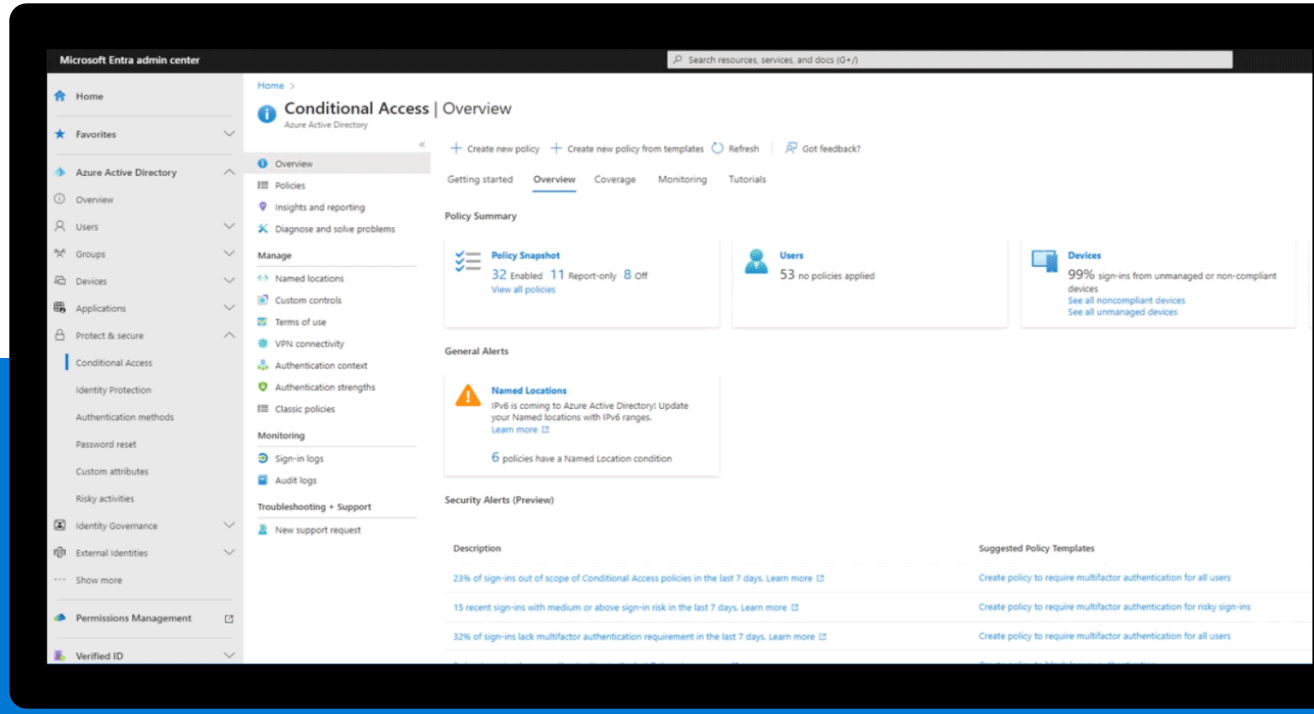
Go to section

Help organizations protect access to resources and data using strong authentication and real-time, risk-based adaptive access policies without compromising user experience

Secure adaptive access

Seamless user experiences

Unified identity management



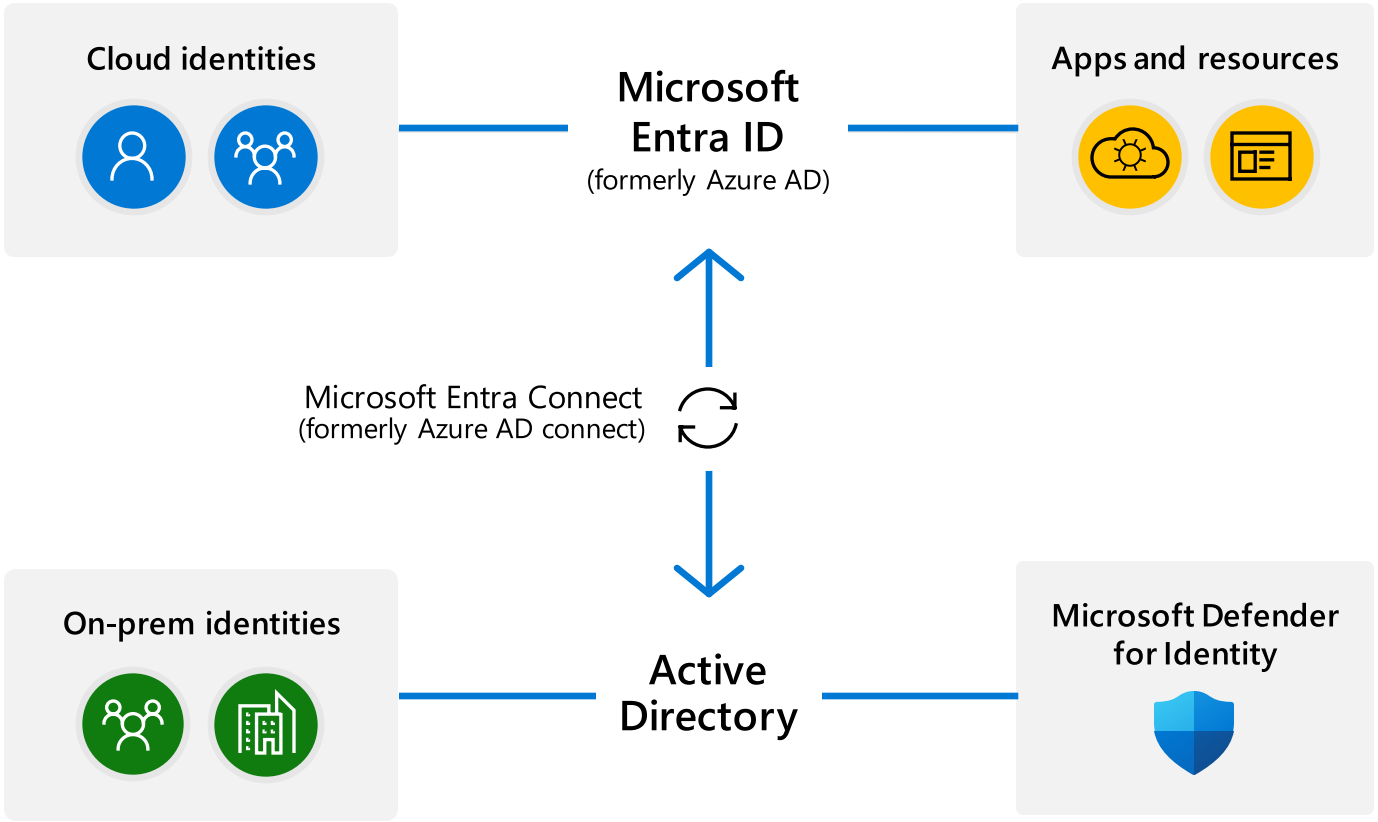
Market challenge:

Organizations require a comprehensive IAM solution across hybrid and cloud environments that provides security, simplifies user authentication, and enables secure access to resources

Provide a common identity for your users

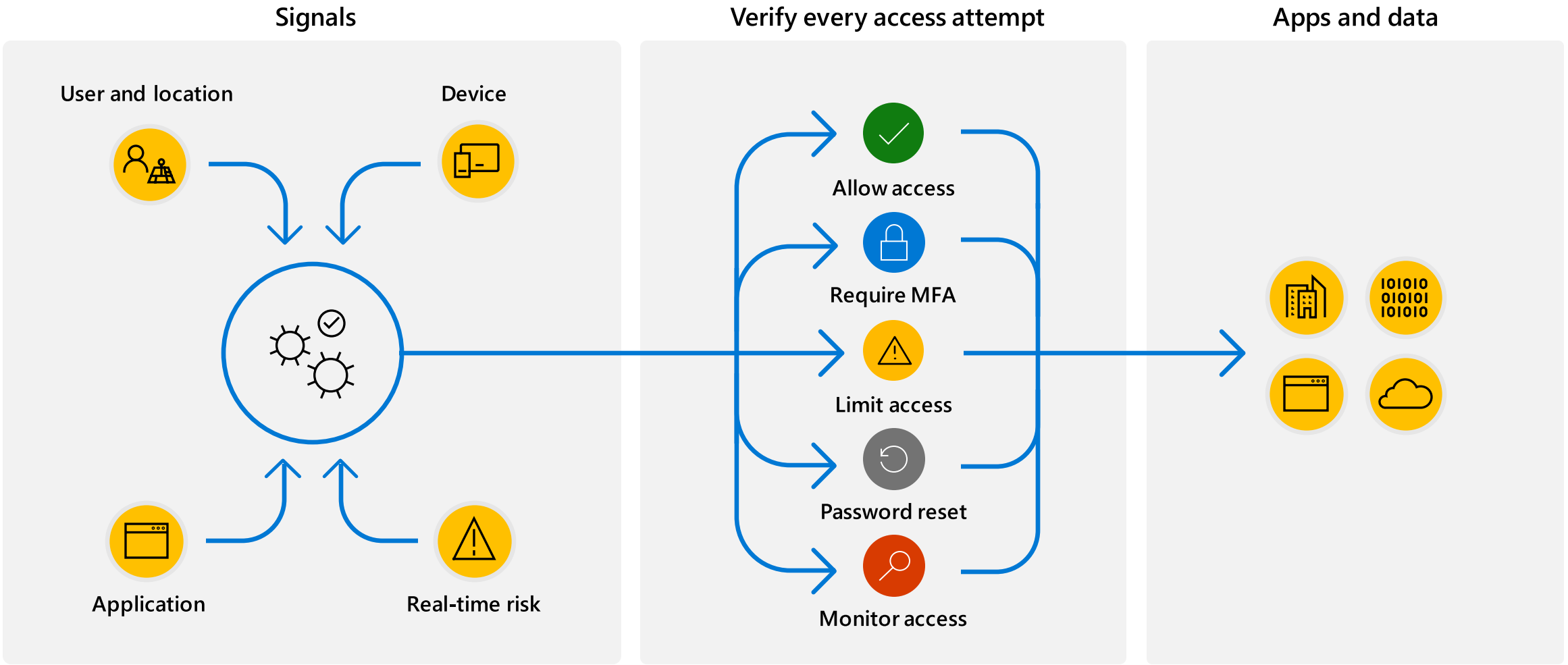
Manage your hybrid identity from the cloud for greater security and control

- Sync identities with Microsoft Entra Connect (formerly Azure AD Connect) so users gain a common identity for access to resources no matter where they are
- Embrace cloud authentication and upgrade from AD FS, reducing your on-premises footprint
- Identify and resolve vulnerabilities and assess threats efficiently with Microsoft Defender for Identity and advanced protection with Microsoft Entra ID (formerly Azure AD)



Protect resources with Conditional Access

Enable Zero Trust with strong authentication and adaptive policies

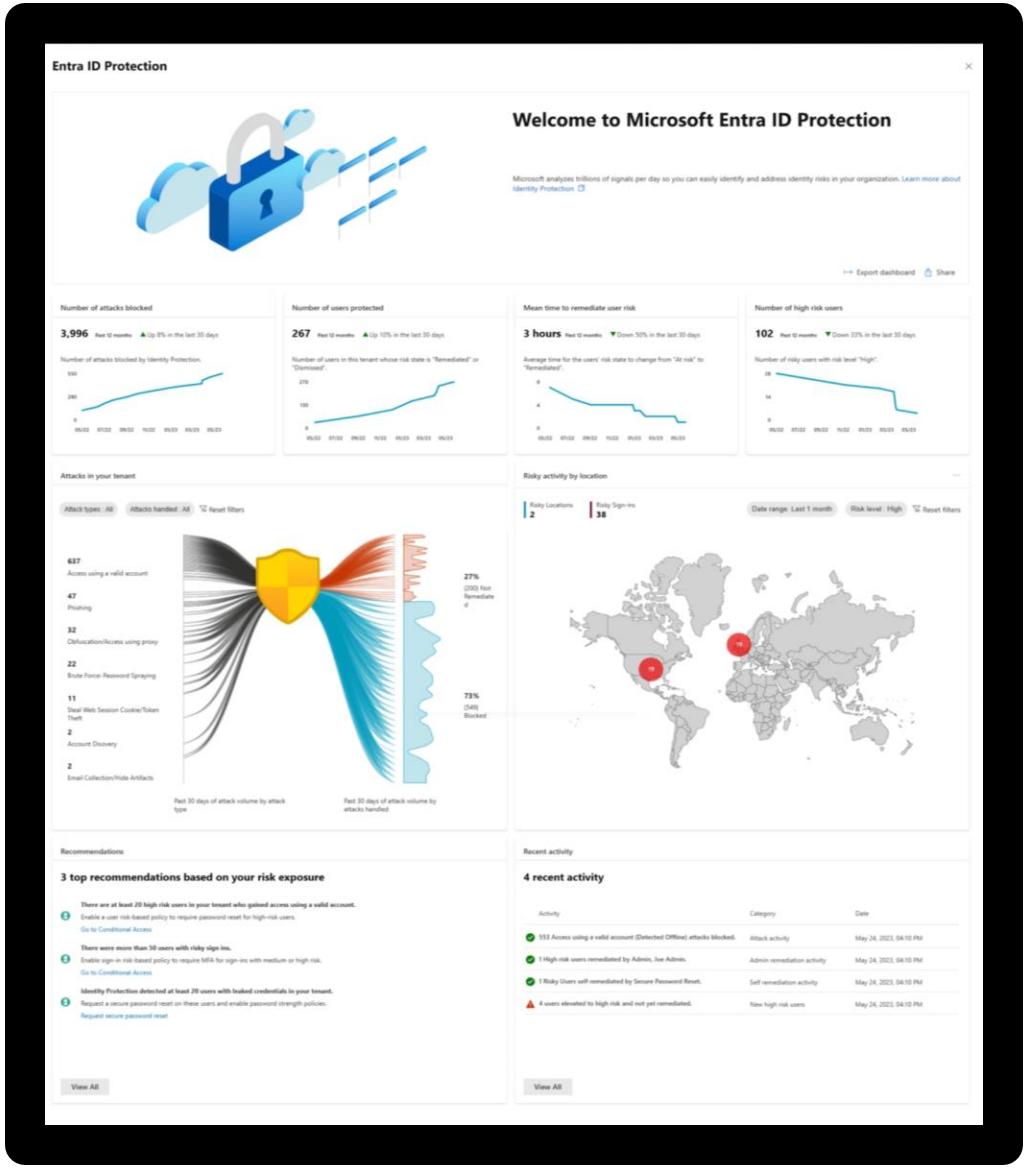


Identity and access management | Microsoft Entra ID | Microsoft Entra ID Governance | Microsoft Entra External ID

ID Protection

Block identity takeover in real-time

- Prevent identity compromise
- Enforce policies
- Seamlessly integrate



Learn more about Microsoft Entra ID

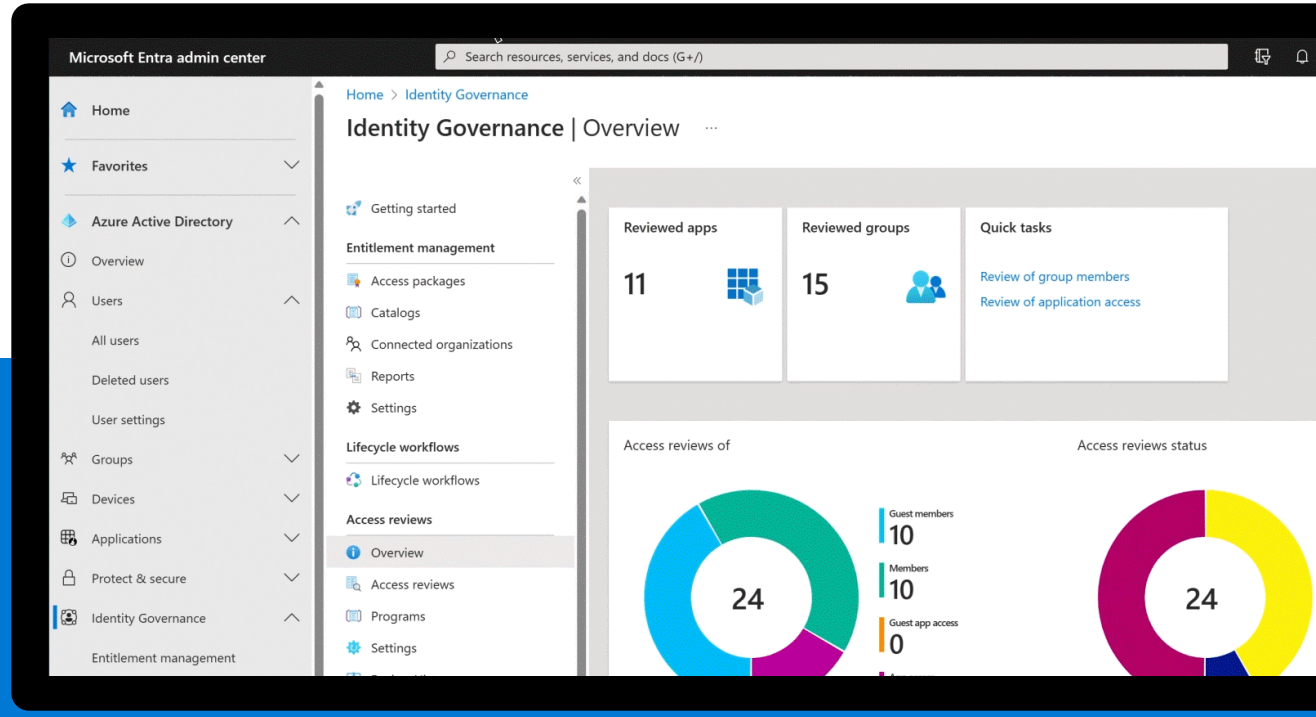
Start a free trial for Microsoft Entra ID

- **Microsoft Security ID blog**
  aka.ms/identityblog
- **Microsoft Entra product family page**
  microsoft.com/Entra
- **Microsoft Entra ID product page**
  aka.ms/EntraID
- **Microsoft Entra ID Beginners Tutorial Video**
  microsoftmechanics_youtube

Microsoft Entra ID Governance

Go to section

Ensuring that the right people have the right access to the right resources, at the right time

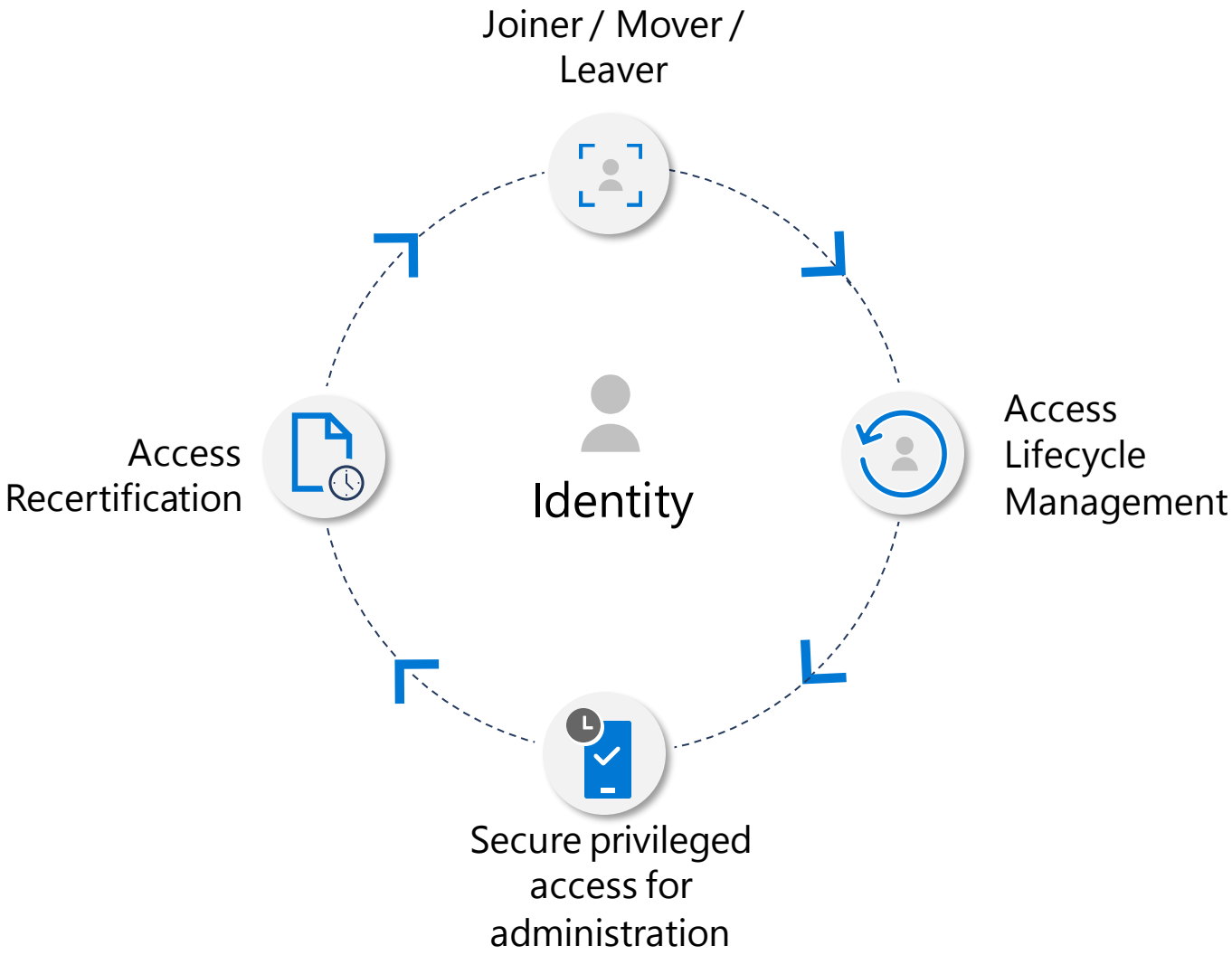


- Improve productivity
- Strengthen security
- Automate routine tasks

Market challenge:

Managing user identities, access rights, and entitlements across IT environments to ensure proper access controls, mitigate risk, and maintain compliance with regulatory requirements

What is Microsoft Entra ID Governance?



01

Who has/should have access to which resources?

02

What are they doing with that access?

03

Are there effective organizational controls for managing access?

04

Can auditors verify that the controls are working?

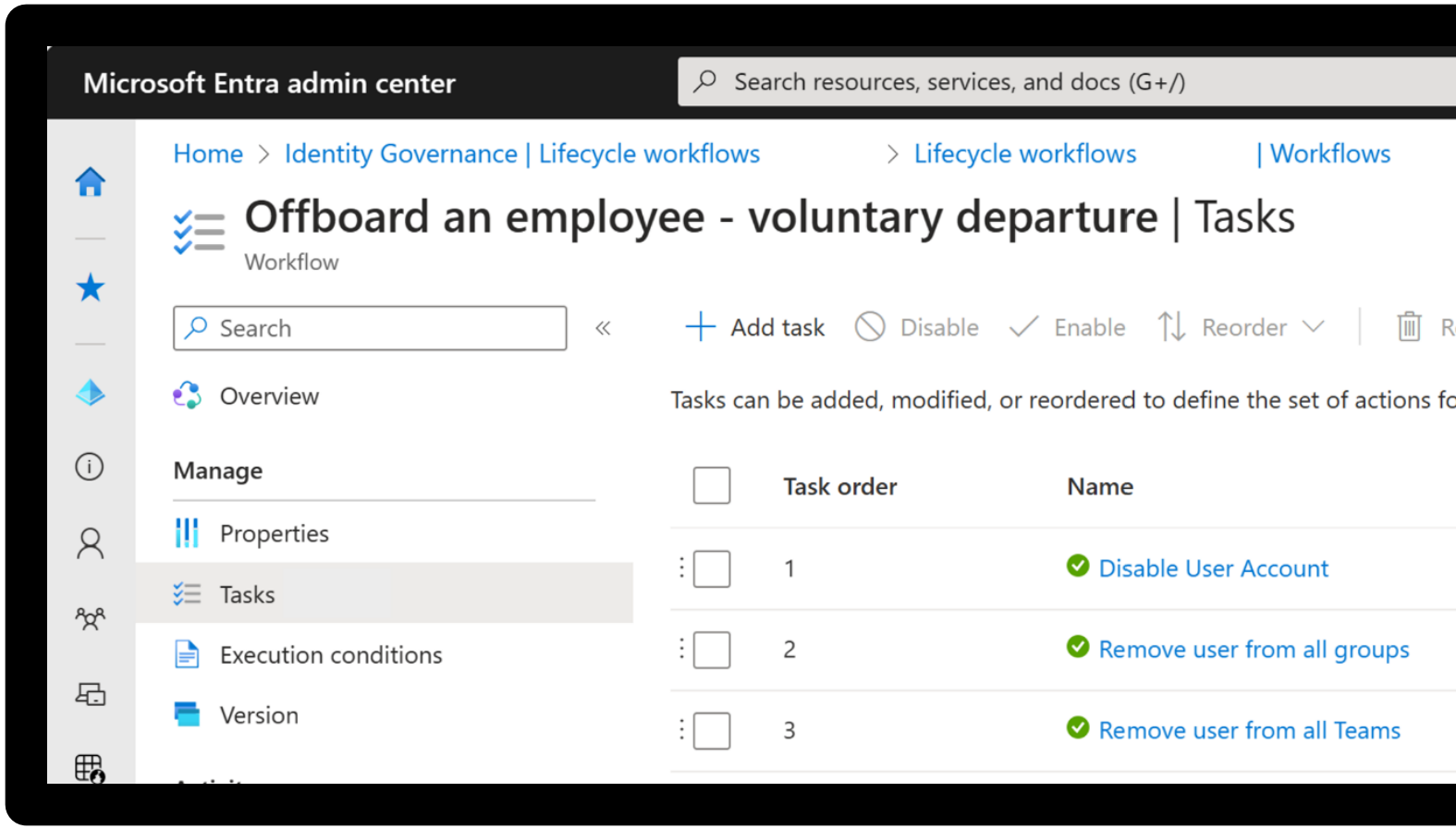
Automate identity processes with lifecycle workflows

Manual processes are slow for users, and error-prone for IT

- **Joiner**
  Templates and automated actions through workflows make the identity process efficient and infallible for IT admins and enables access quicker for new team members

- **Mover***
  Team members who have experienced change get access to new resources immediately, while outdated accesses are removed without IT

- **Leaver**
  Customizable workflow templates for common offboarding tasks ensures timely, reliable resource access removal for IT, and peace of mind for former team members



* To be supported in the future

Learn more about Microsoft Entra ID Governance

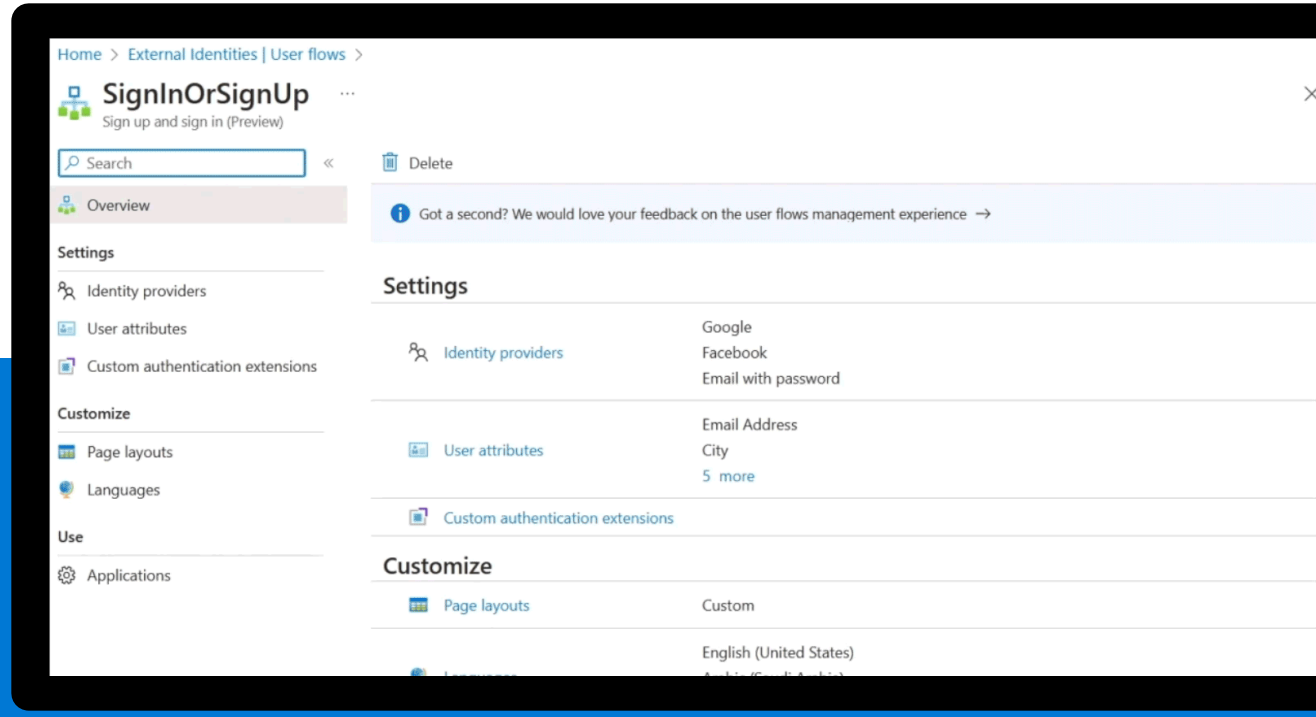
Start a free trial for Microsoft Entra ID Governance

- **Microsoft Security ID blog**
  aka.ms/identityblog
- **Microsoft Entra product family page**
  microsoft.com/entra
- Watch the Microsoft Mechanics video
- Demo the Interactive Guide

Microsoft Entra External ID

A complete customer identity and access management solution that allows you to personalize and secure access to any application for customers and partners

Go to section



Secure partner and customer access

Create people-centric experiences

Accelerate development of secure applications

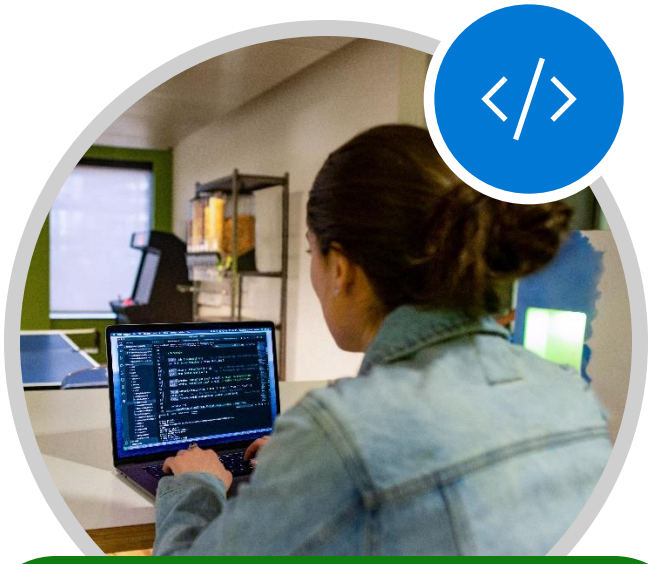
Market challenge:

Rapid increase of external identities that need to collaborate with customers, partners, and employees

Personalize and secure access to any application for customers and partners

Personalized user experiences

Secure, scalable and resilient



Developer friendly

Identity and access management | Microsoft Entra ID | Microsoft Entra ID Governance | Microsoft Entra External ID

Learn more about Microsoft Entra External ID

Learn more about our capabilities and the future of customer identity and access management on our product page. Or dive into resources such as documentation, videos, demos, and code sharing on our new developer experience, the Developer Center

- **Microsoft Security ID blog**
  aka.ms/identityblog
- **Microsoft Entra product family page**
  microsoft.com/entra
- **External ID product page**
  aka.ms/External-ID
- **The Dev Center**
  aka.ms/ciam/dev
- **Microsoft Identity Developer Blog**
  devblogs.microsoft.com/identity/

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Microsoft Entra Permissions Management

Microsoft Entra Workload ID

New identity categories

Microsoft Entra Internet Access

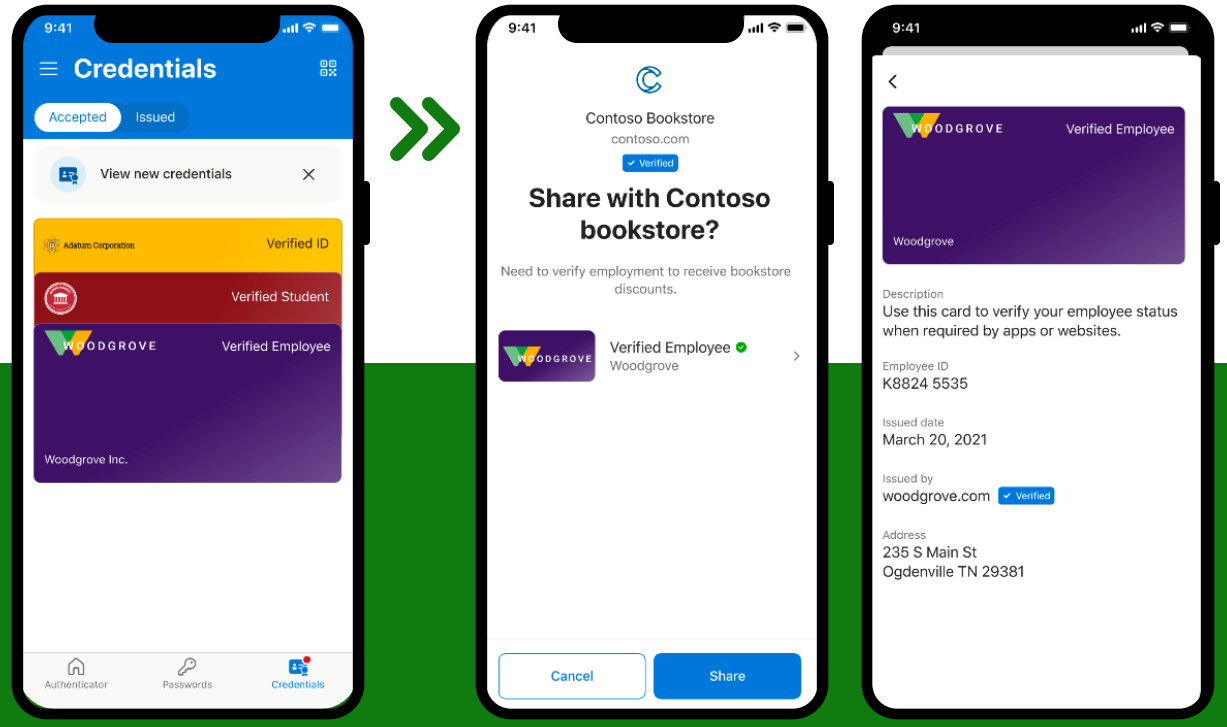
Microsoft Entra Private Access

Network access

Microsoft Entra Verified ID

Go to section

Confidently issue and verify workplace credentials, citizenship, education status, certifications, or any unique identity attributes in a global ecosystem designed for more secure interaction between people, organizations, and things



Fast remote onboarding

More secure access

Easy account recovery

Market challenge:

People don't own their identity data and individuals lack visibility on how their data is used and how to get it back

Building a trust fabric for tomorrow: decentralized Identity

For everyone

Own and control your digital identity and protect your privacy with highly secure user experiences

For organizations

Engage with less risk, use electronic data verification, and improve transparency and auditability

For developers

Design user-centric apps and services and build true serverless apps that store data with users

New identity categories

» Microsoft Entra Verified ID

Microsoft Entra Permissions Management

Microsoft Entra Workload ID

Learn more about Microsoft Entra Verified ID

Learn more about Verified ID at aka.ms/verifyonce or jump straight to the configuration instructions

- Landing page
  aka.ms/verifyonce
- Read the white paper
- Read the customer stories
- Verify your workplace on LinkedIn
  aka.ms/VerifyOnLinkedIn

Microsoft Entra
Permissions Management

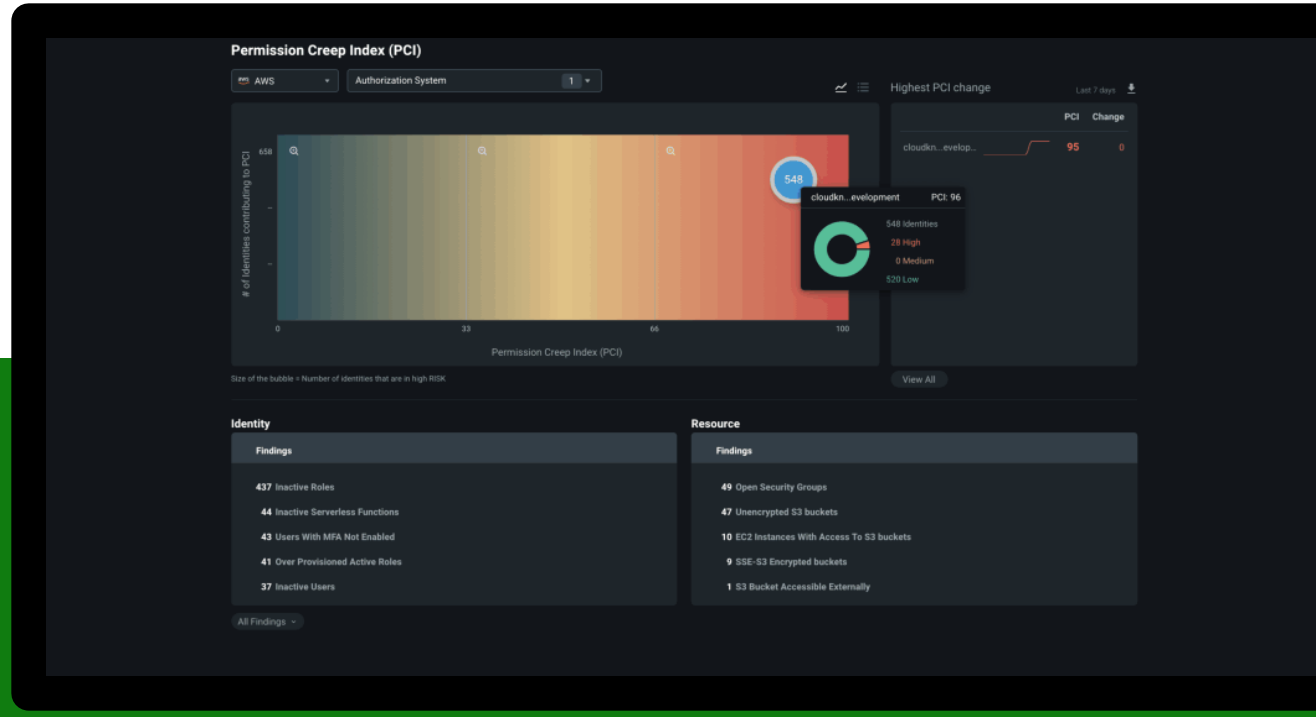
Go to section

A cloud infrastructure entitlement management (CIEM) product that provides comprehensive visibility and control over permissions for any identity and any resource in Microsoft Azure, Amazon Web Services (AWS) and Google Cloud Platform (GCP)

Get granular cross-cloud visibility

Enforce the principle of least privilege

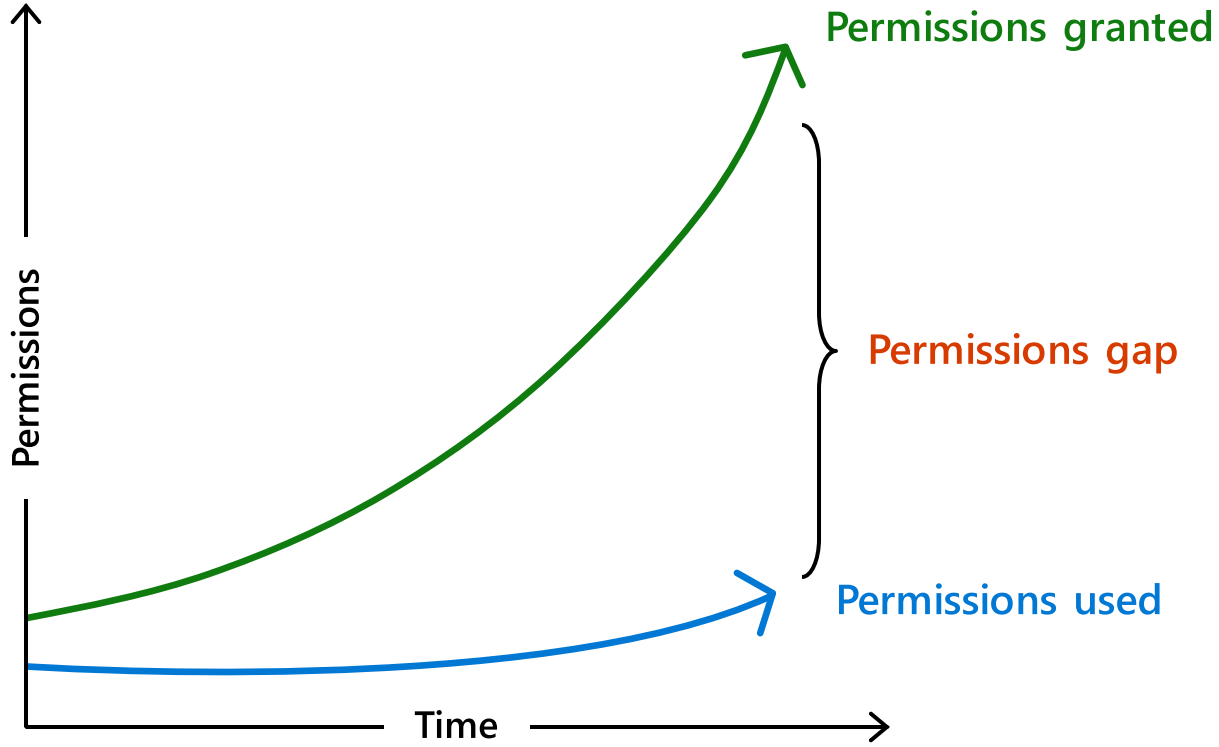
Reduce permission risk



Market challenge:

There are over 40,000 permissions that can be granted across AWS, GCP and Azure. Identities are only using 1% of permissions granted

Unmanaged permissions are expanding your attack surface



Lack of comprehensive visibility into identities, permissions and resources

Increased complexity for IAM and security teams to manage permissions across multicloud environments

Increased risk of breach from accidental or malicious permission misuse

Managing permissions across multicloud environments requires a new approach

Today's static, outdated approach	A new, dynamic approach
Grants permissions based on job roles and responsibilities	Grants permissions based on historical usage and activity
IAM admins manually grant permissions which are not time-bound	Allow temporary access to high-risk permissions on-demand
Permission clean-up is done manually on an as-need basis	Continuously monitor and right-size identities to prevent privilege creep

New identity categories

Microsoft Entra Verified ID

» Microsoft Entra Permissions Management

Microsoft Entra Workload ID

Learn more about Microsoft Entra Permissions Management

Try Permissions Management for free and run a risk assessment to identify the top permission risks across your multicloud infrastructure: https://aka.ms/TryPermissionsManagement

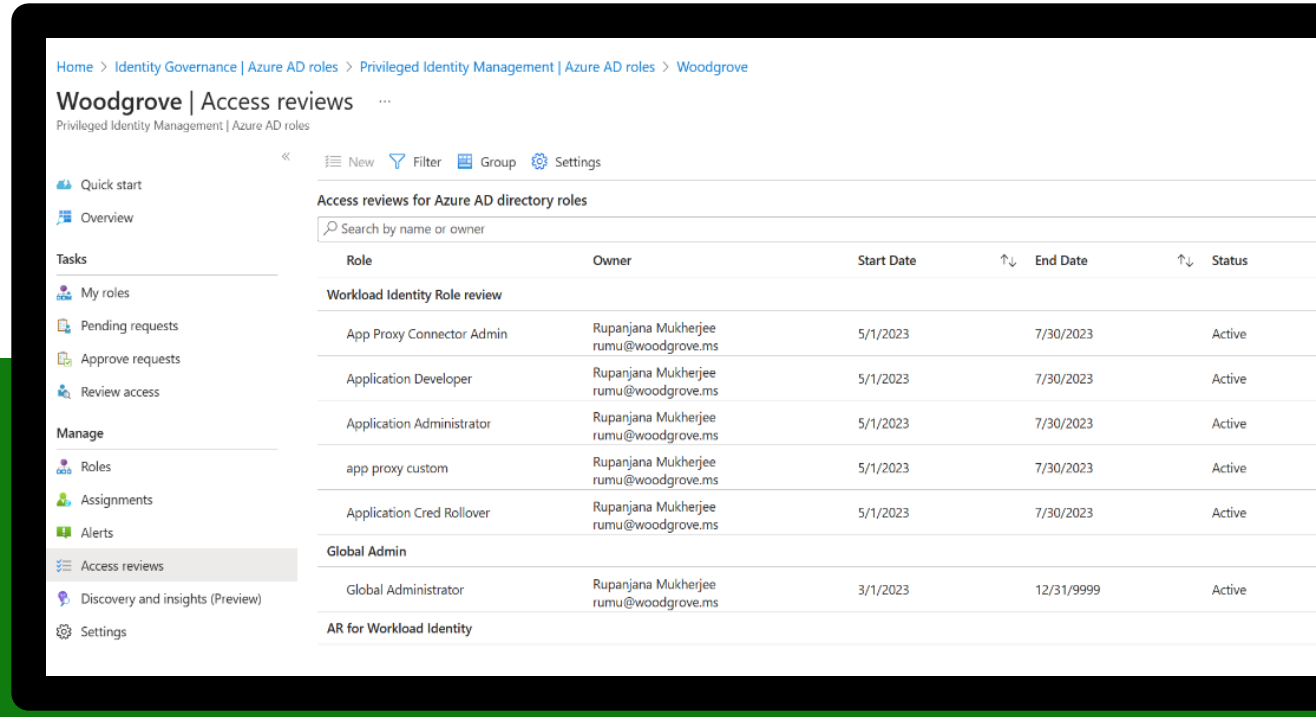
- **Permissions Management Website**
  aka.ms/PermissionsManagement

- **Permissions Management Documentation**
  aka.ms/CIEM

Microsoft Entra Workload ID

Go to section

A comprehensive set of features that helps secure adaptive access, detect and respond to compromised workload identities, and simplify their lifecycle management



Secure access with adaptive access policies

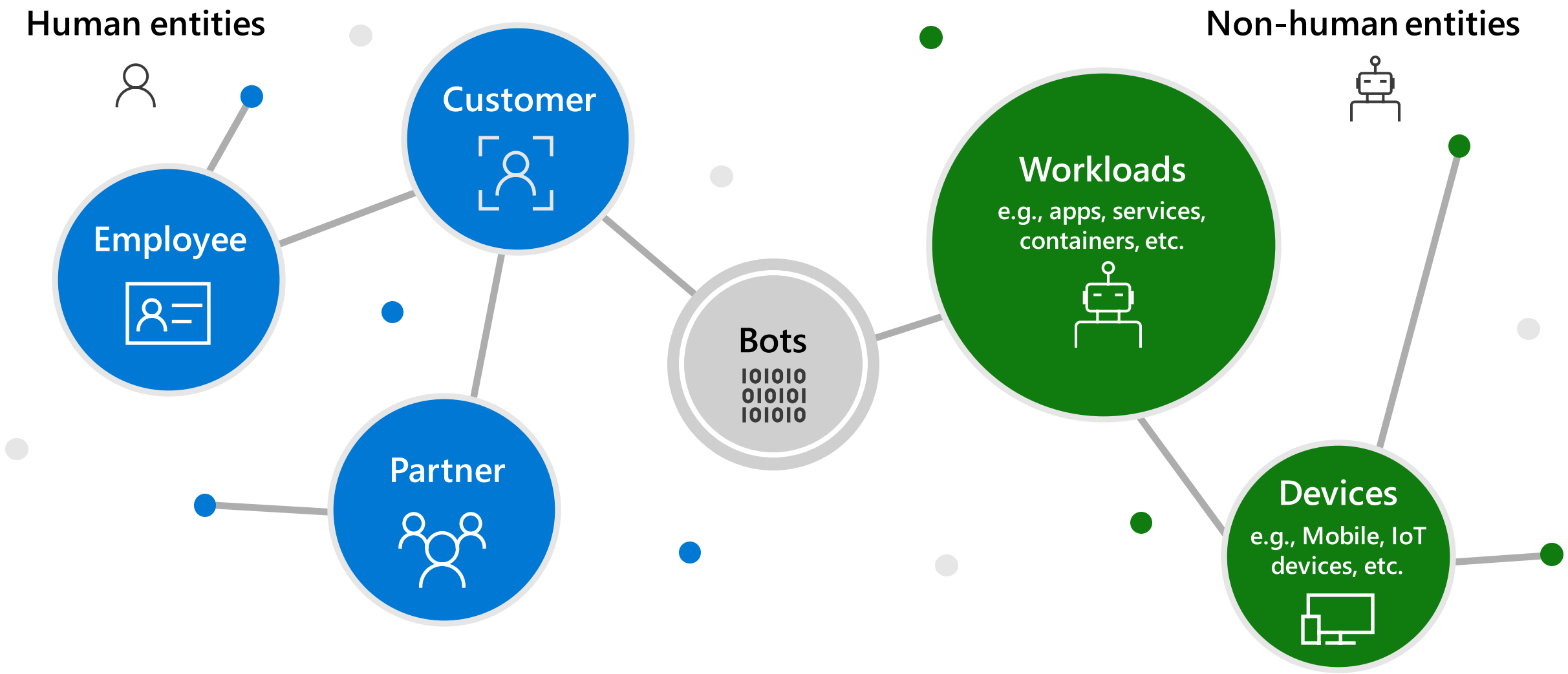
Detect compromised workload identities

Simplify lifecycle management

Market challenge:

The number of workload identities accessing critical infrastructure are increasing, now outnumbering human identities 10:1

What are workload identities?



New identity categories

Microsoft Entra Verified ID

Microsoft Entra Permissions Management

Microsoft Entra Workload ID

Introducing Microsoft Entra Workload ID

An identity and access management (IAM) solution that provides security controls for applications and services and helps manage their lifecycle

- Secure access with adaptive access policies
- Detect compromised workload identities
- Simplify lifecycle management

Learn more about Microsoft Entra Workload ID

Start a free trial on Microsoft Entra Admin Center at entra.microsoft.com

- **Microsoft Security ID blog**
  aka.ms/identityblog
- **Microsoft Entra product family page**
  microsoft.com/entra
- **Workload ID Docs**
  aka.ms/workloadidentities
- **Workload ID Website**
  aka.ms/EntraWorkloadIdentities

Microsoft Entra product family

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Microsoft Entra Private Access

Network access

Microsoft Entra Internet Access

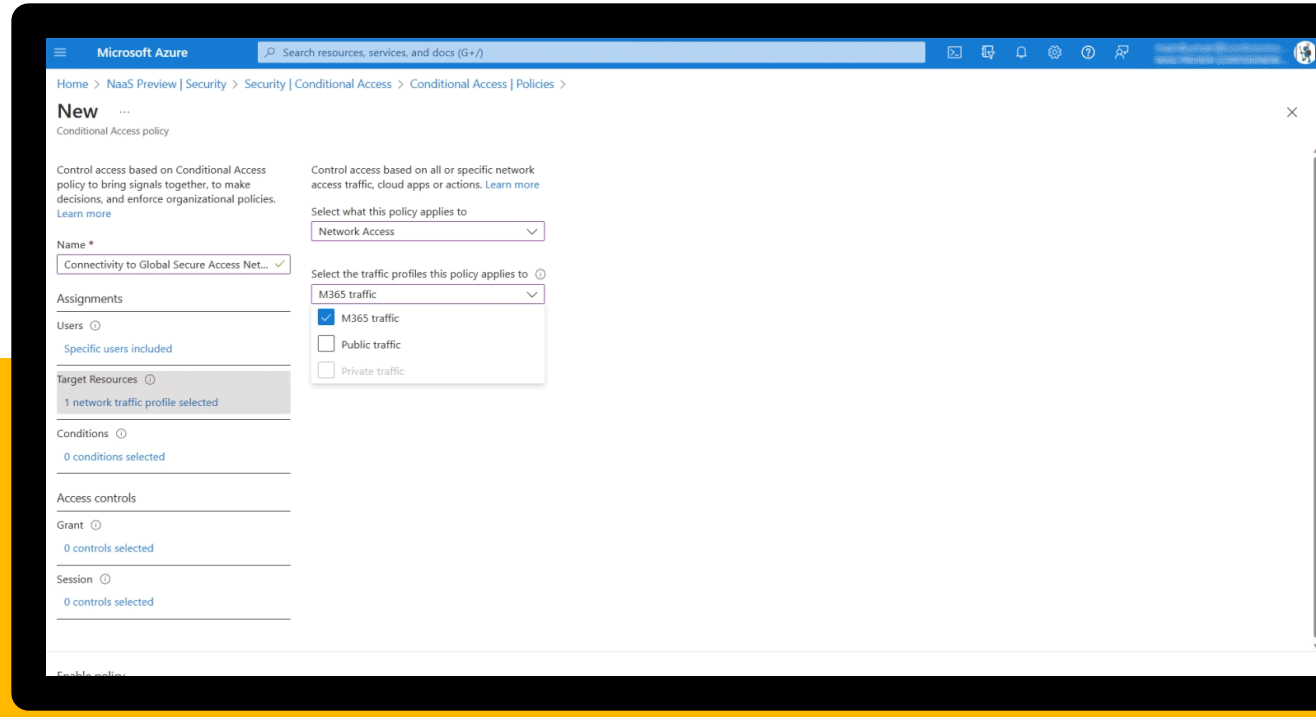
Go to section

Secure access to all internet, SaaS, and Microsoft 365 apps and resources while protecting your organization against internet cyberthreats, malicious network traffic, and unsafe or non-compliant content with an identity-centric Secure Web Gateway (SWG)

Extend Conditional Access to your network

Modernize network security to protect users, apps, and resources

Enhance security and visibility for Microsoft 365 access



Market challenge:

Control web traffic with advanced threat protection, content filtering, and policy enforcement to ensure safe and productive internet usage for employees

Microsoft Entra Private Access

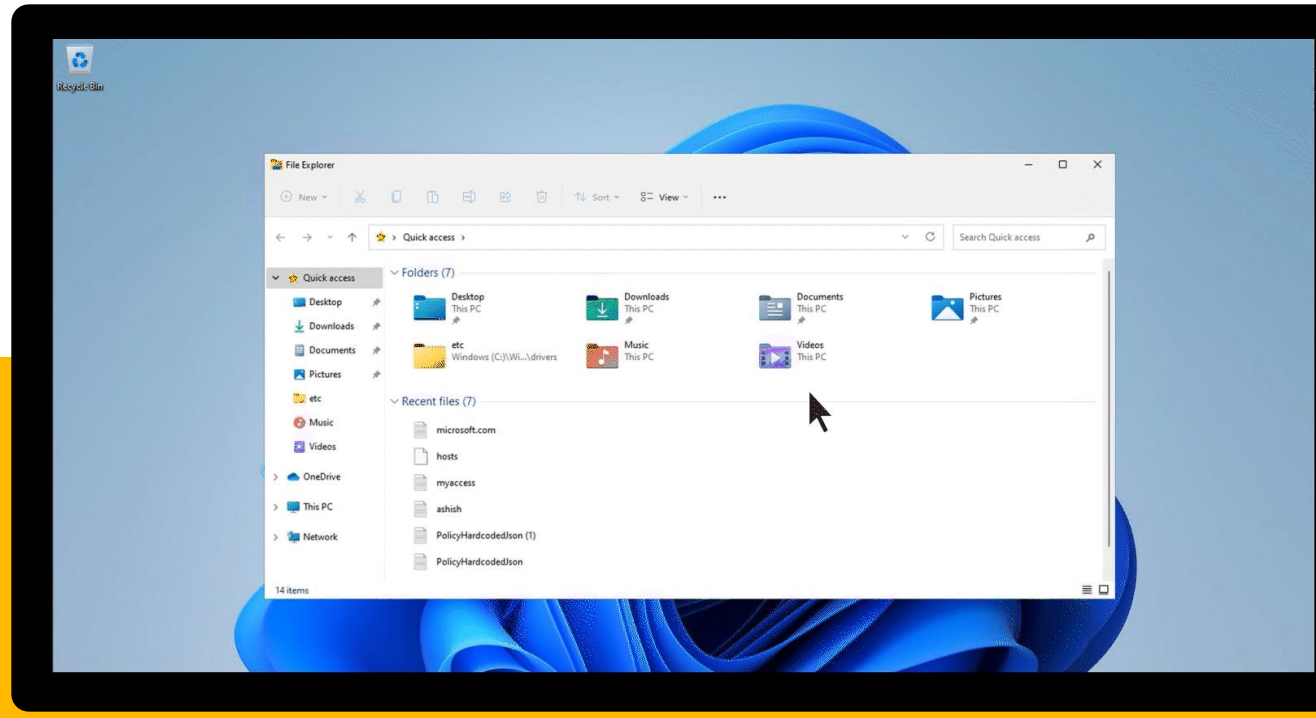
Go to section

Remove the risk and operational complexity of legacy VPNs while boosting user productivity. Quickly and securely connect remote users from any device and any network to private apps—on-premises, across clouds, and anywhere in between

Modernize private app access with an identity-centric ZTNA

Prevent breaches with adaptive access controls

Enhance security through granular app segmentation



Market challenge:

Simplify organization's network architecture to enhance security and reduce operational complexities by converging multiple security and networking functions into a unified cloud-based service

Learn more about Microsoft's SSE solution

- **Microsoft Entra Internet Access**
  https://aka.ms/InternetAccess
- **MS Docs page**
  https://aka.ms/InternetandPrivateAccessDocs
- **Microsoft Entra Private Access**
  https://aka.ms/PrivateAccess

Network access » Microsoft Entra Internet Access » Microsoft Entra Private Access

Microsoft Security

Neuigkeiten rund um Microsoft Entra

Microsoft Entra's Top 20 Features of 2023 (1/2)

1. **Secure Access in the Era of AI** - at Microsoft Ignite 2023, we announced that Microsoft Security Copilot is coming to Microsoft Entra (in Private Preview) to help you automate common tasks, troubleshoot faster, interpret complex policies, and design workflows. This monumental inclusion is only one component of maintaining strong and consistent **identity security.**
2. Upcoming support for passkeys offering **phishing-resistant alternative to physical FIDO2 security keys** supporting our enterprises and government customers.
3. **Secure by default**, through the auto-rollout of Microsoft Entra Conditional Access policies protecting tenants based on risk signals, licensing, and usage.
4. Conditional Access enforcement of token protection for sign-in sessions (Public Preview) to **combat token theft and replay attacks**.
5. Conditional Access for protected actions enabling organizations to **safeguard critical administrative operations**, such as altering Conditional Access policies, adding credentials to an application, or changing federation trust settings etc.
6. Conditional Access overview dashboard offering a comprehensive view of Conditional Access posture and templates providing a convenient method to deploy new policies aligned with Microsoft recommendations.
7. Conditional Access authentication strength to enable organizations to tailor authentication method requirements based on the user's sign-in risk level or the sensitivity of the accessed resource, **empowering those in highly regulated industries** or with strict compliance requirements.
8. Implement Zero Trust access control by invalidating tokens that violate your IP-based location policies and **prevent token replay attacks** in near real-time through the strict enforcement of location policies (Public Preview).
9. The new Entra ID Protection dashboard (Public Preview) is a central hub aiding identity admins and IT practitioners in understanding security posture and implementing effective protections against identity compromises.
10. New Entra ID Protection signals: verified threat actor ID and attacker in the middle, to help protect organizations from malicious actors and activities.

Microsoft Entra's Top 50 Features of 2023

Microsoft Entra's Top 20 Features of 2023 (2/2)

11. Entra ID Protection now offers real-time threat intelligence detections to apply risk-based Conditional Access policies to protect identities.
12. Manage the permissions of identities across a multicloud infrastructure - Improve the security posture of your **identities for multicloud** infrastructure by managing their permissions and ensuring the principle of least privilege.
13. Leverage Entra ID Protection - Allow on-premises password change to reset user risk (Public Preview) to effectively **manage user risk in hybrid environments**.
14. Integration of Entra ID Protection with Microsoft 365 Defender to investigate incidents efficiently and effectively, gaining a **comprehensive understanding of end-to-end attacks** and facilitating a quicker response to identity compromises.
15. System-preferred authentication for MFA to sign in users with the most secure method they've registered and the method that's enabled by admin policy.
16. Configure phishing-resistant MFA on mobile without having to provision certificates on the user's mobile device using certificate-based authentication (CBA) on mobile.
17. New features and enhancements in certificate-based authentication (CBA) enabling government organizations to comply with Executive Order 14028 requirements and helping customers migrate from Active Directory Federation Services.
18. Use Quick setup for Microsoft Entra Verified ID, removing several configuration steps and admin needs to complete your initial Verified ID set up with a single click.*
19. Converged Authentication Methods - Manage multi-factor authentication (MFA) and self-service password reset (SSPR) in one policy alongside passwordless methods like FIDO2 security keys and certificate-based authentication (CBA).
20. **Secure non-human identities** using Microsoft Entra Workload Identities App Health Recommendations.

Microsoft Entra's Top 50 Features of 2023

Nov 23 Awareness

Automatic Microsoft-managed Conditional Access policies in Microsoft Entra

At launch **Microsoft is deploying the following three policies** where our data tells us they would increase an organization's security posture:

1. Multifactor authentication for admins accessing Microsoft Admin Portals (P1/P2 licensed tenants)
2. Multifactor authentication for per-user multifactor authentication users (users with P1/P2 licenses using per-user MFA, if in total less than 500 per-user MFA users)
3. Multifactor authentication and reauthentication for risky sign-ins (P2 licenses for all users + all users registered for MFA)

- **Not every policy will appear in every tenant!**
- You will be informed via Message Center if and which policies will be enabled in your tenant
- The policies will be created in **report-only mode** and **cannot be deleted, only modified/disabled**

Microsoft will enable these policies after no less than 90 days after they're introduced in your tenant **if they're left in the Report-only state** (approx. earliest enforcement date: beginning of February 2024).

Secure your resources with Microsoft-managed Conditional Access policies

Mar 23 | Public Preview

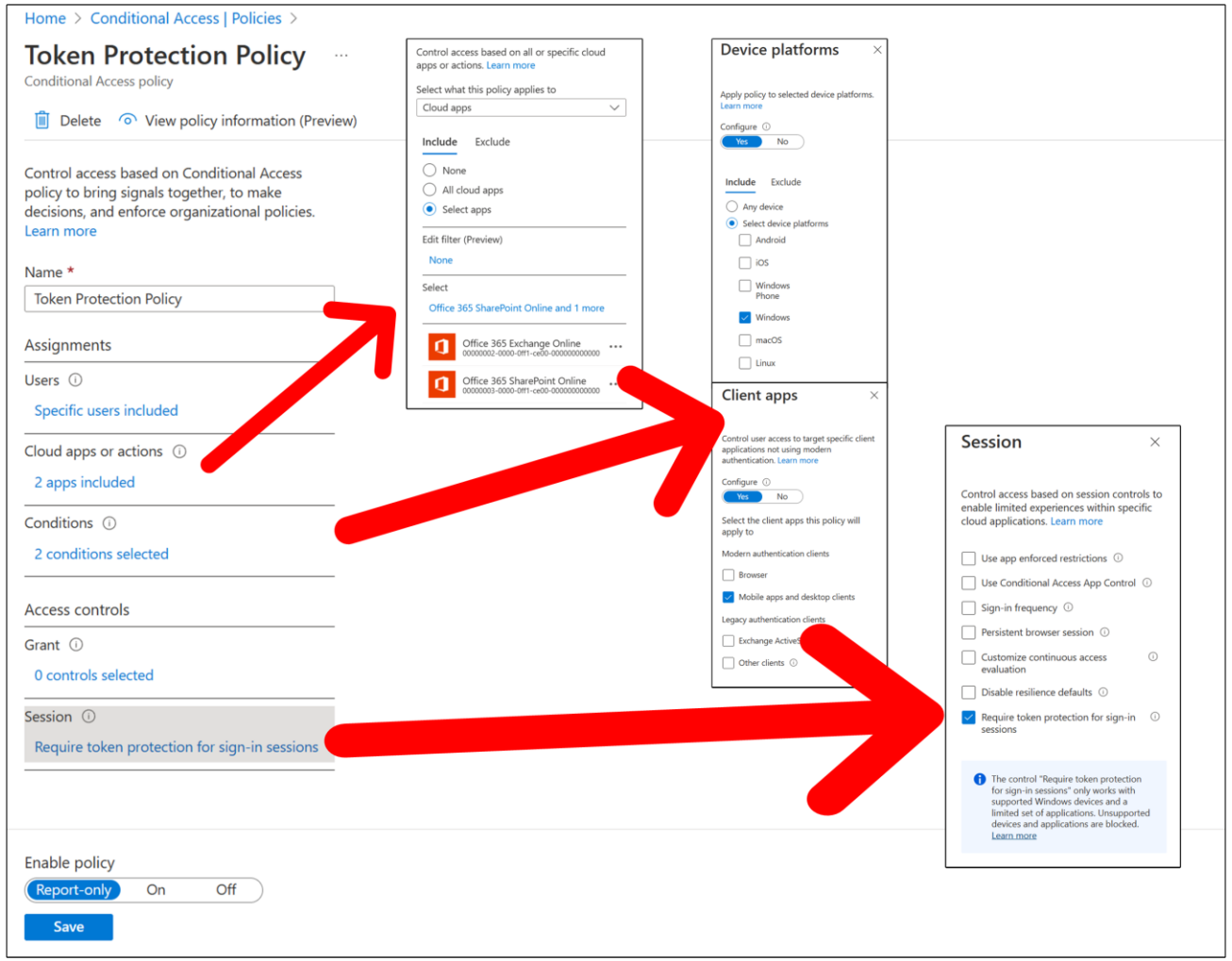
Conditional Access: Token protection for sign-in sessions

Token protection (also known as token binding) attempts to **reduce attacks using token theft** by ensuring a token is usable **only** from the **intended device**.

Currently, this **only** works with **supported Windows devices** and **desktop applications**:

- **Exchange Online**
- **SharePoint Online**

Unsupported devices and client applications will be blocked.



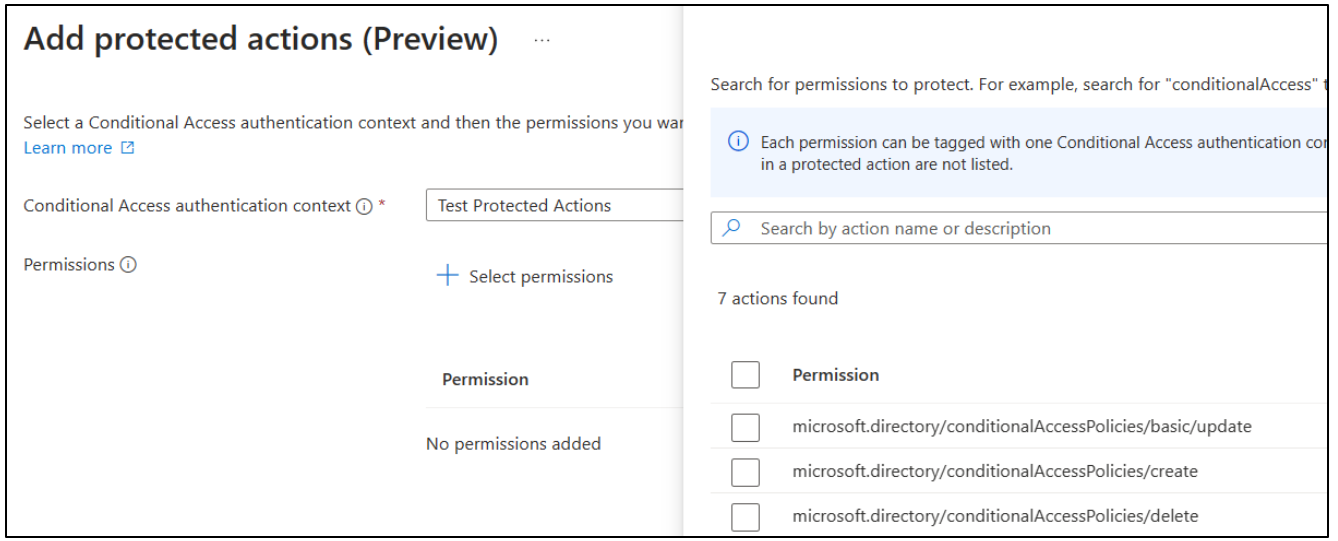
[Token protection in Azure AD Conditional Access]

Jul 23 | General Available

Protected actions in Conditional Access

Protected actions in Microsoft Entra ID (formerly Azure Active Directory) are **permissions that have been assigned Conditional Access policies**. When a user attempts to perform a protected action, they must first **satisfy** the **Conditional Access** policies assigned to the required permissions.

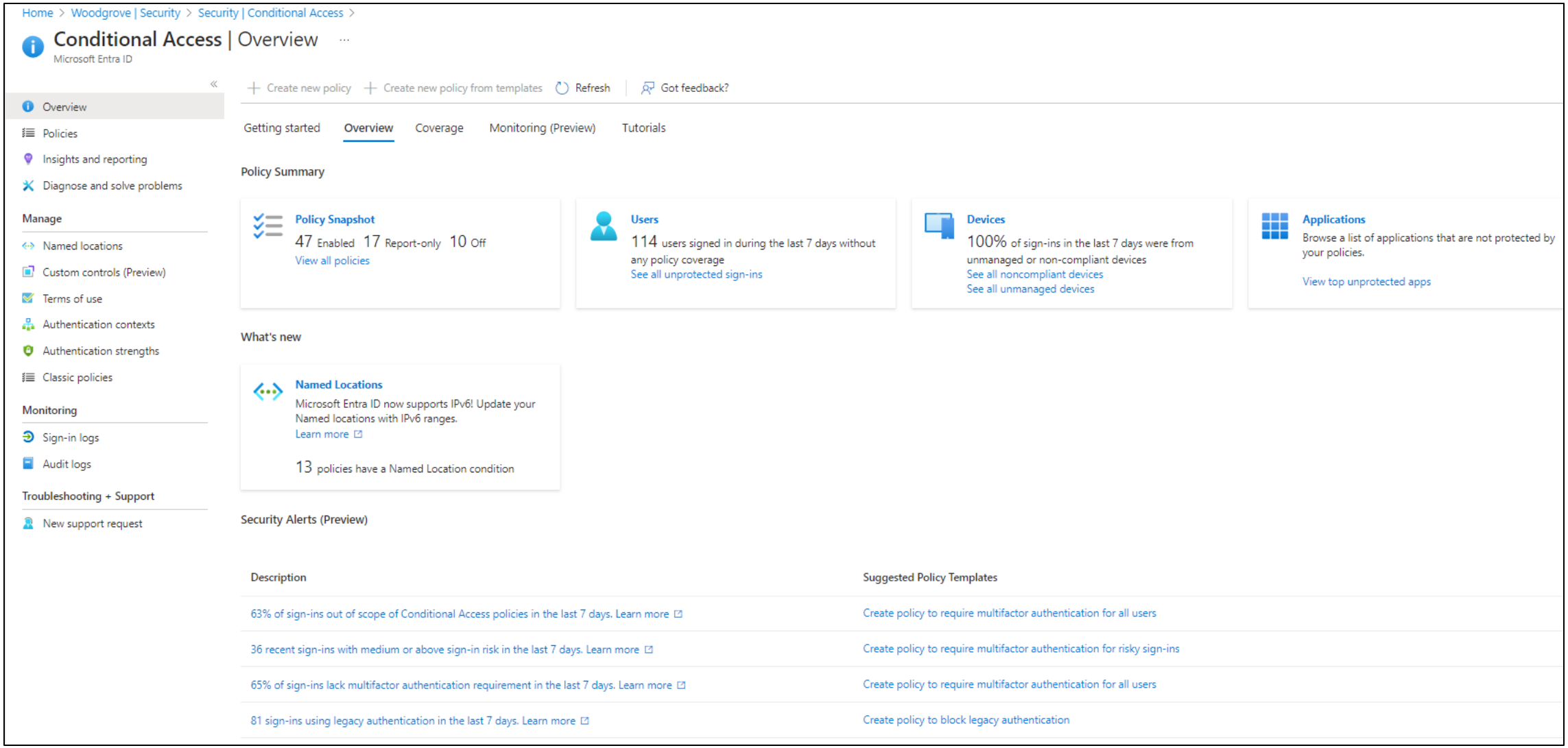
Example: To allow administrators to update Conditional Access policies, you can require that they first satisfy the Phishing-resistant MFA policy.



[What are protected actions in Azure AD?]

Sep 23 General Available

Conditional Access overview dashboard

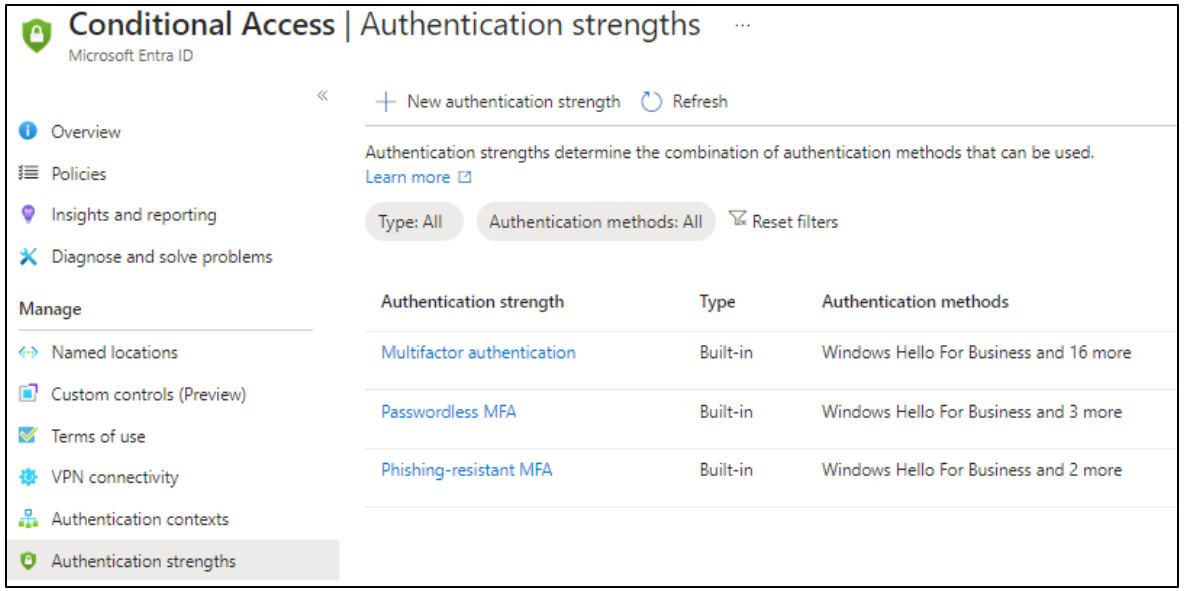


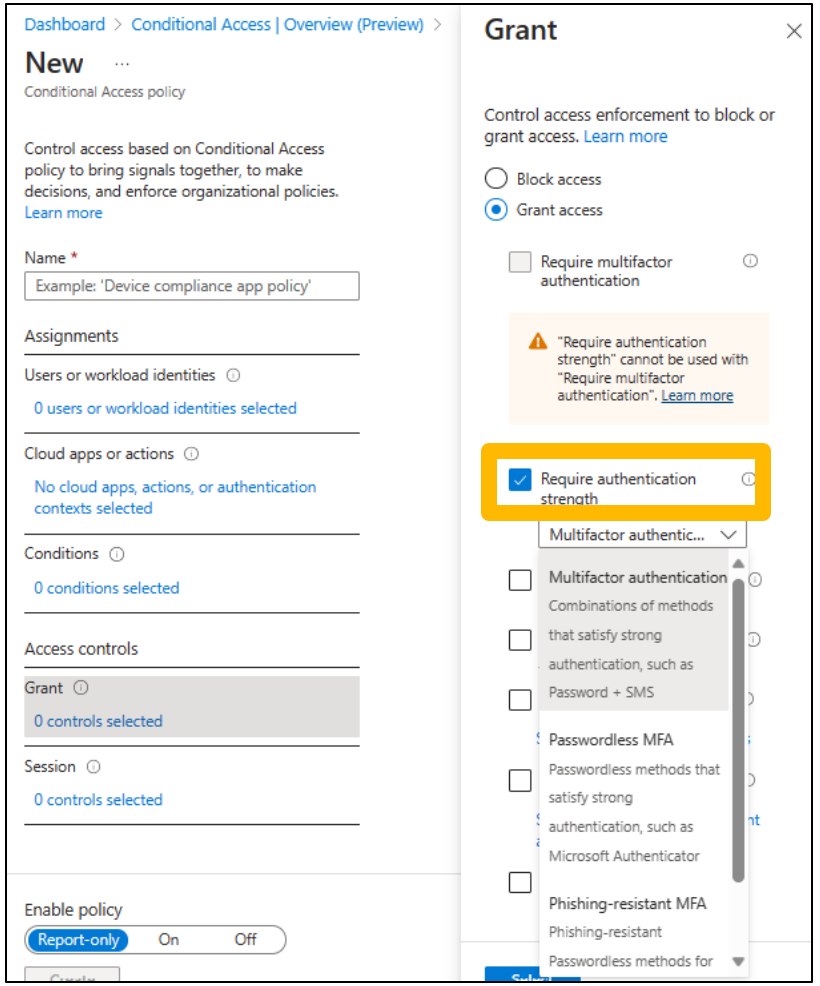
[What is Conditional Access in Microsoft Entra ID?]

May 23 General Available

Conditional access authentication strength for members, external users and FIDO2 restrictions

- **Authentication strength** is a **Conditional Access control** that allows administrators to specify **which authentication methods** can be used to access a resource.
- For example, they can make only **phishing-resistant** authentication methods available to access a sensitive resource.



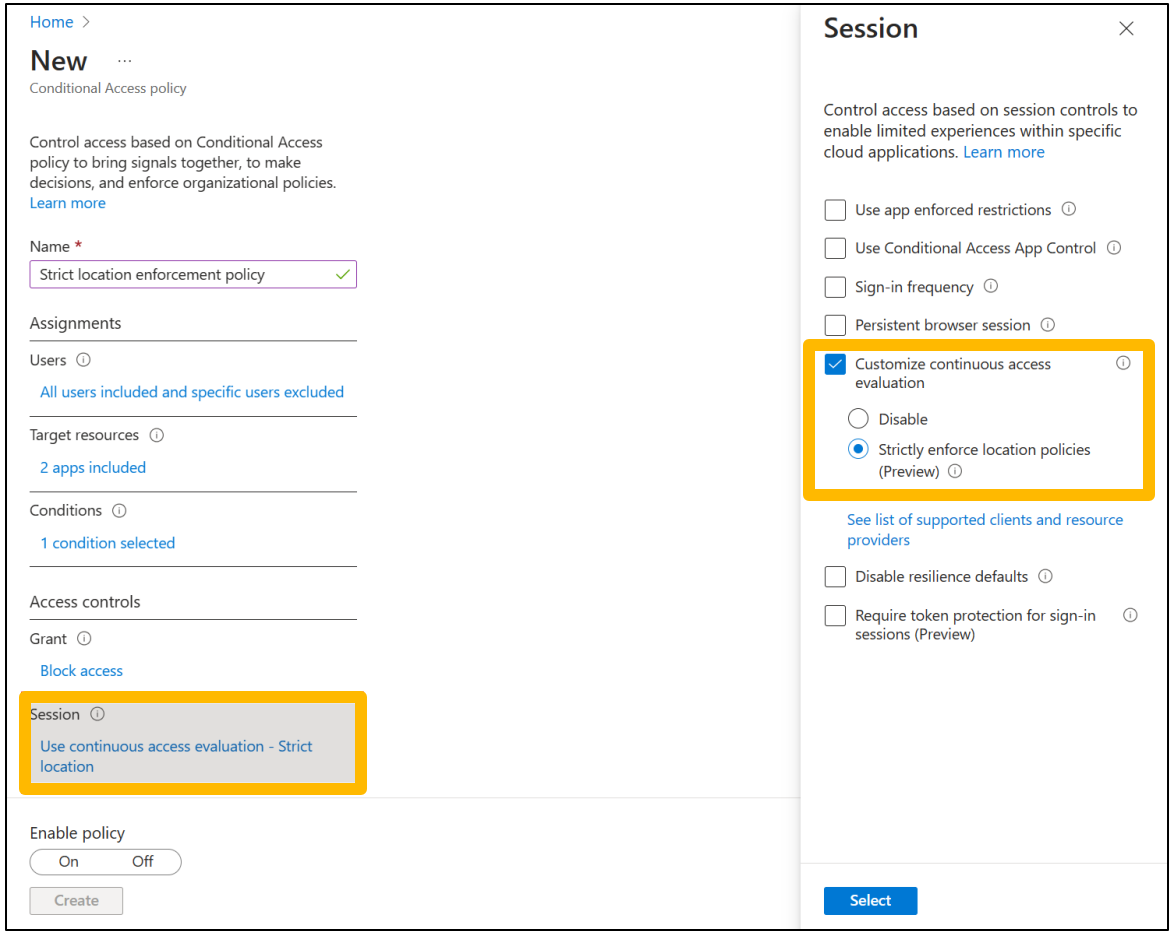


Overview of Azure Active Directory authentication strength | Conditional Access authentication strength is now Generally Available!

Jul 23 | Public Preview

Strictly enforce location policies using continuous access evaluation (CAE)

- Strictly enforce location policies is a **new enforcement mode** for continuous access evaluation (CAE), used in Conditional Access policies.
- It allows tenant admins to **investigate IP addresses** seen by resource providers to **utilize CAE to promptly invalidate tokens** that violate location policies.



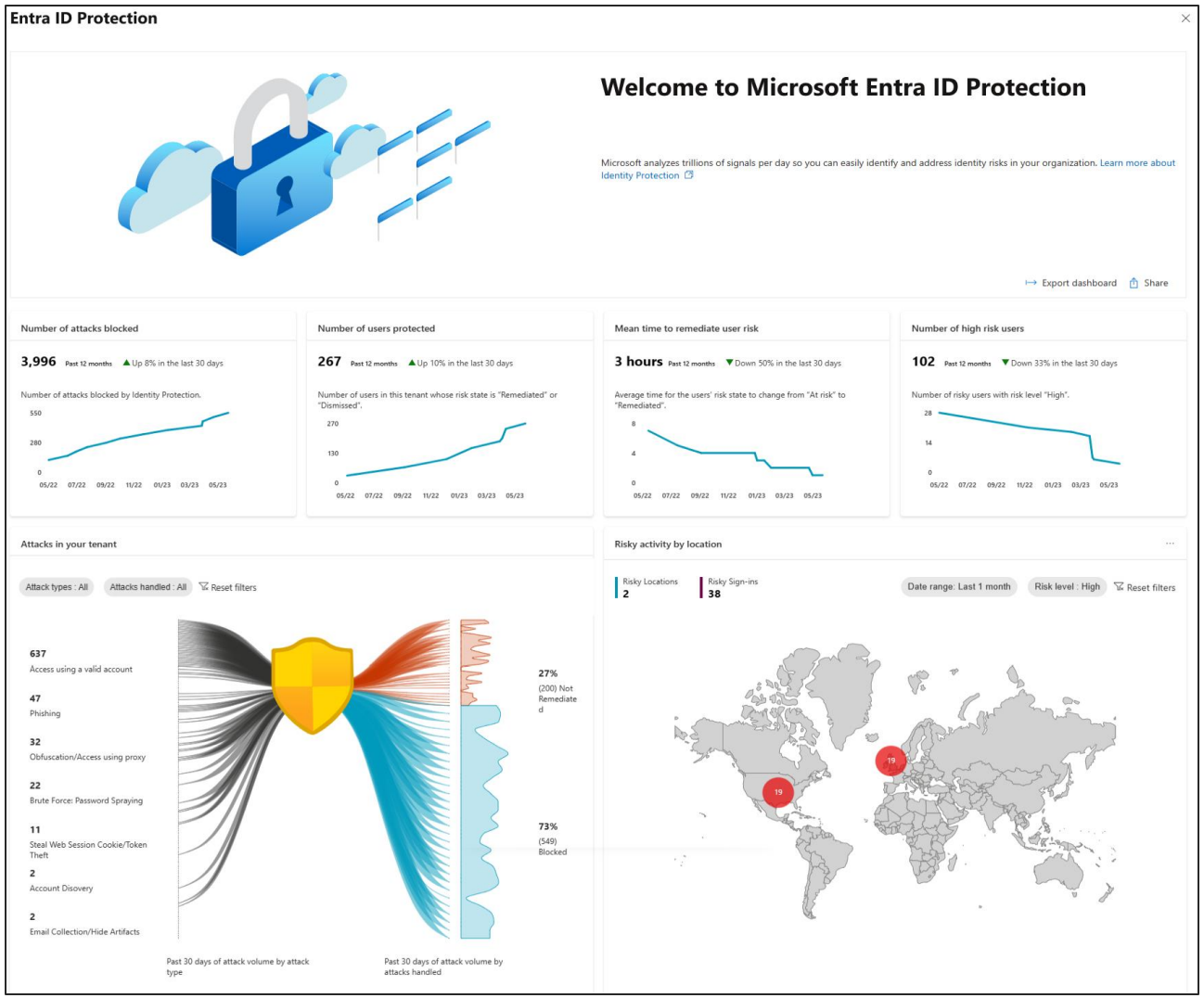
Continuous access evaluation strict location enforcement in Azure AD

Jul 23 | Public Preview

Entra ID protection dashboard

The new Microsoft Entra ID Protection dashboard is designed as a **central hub** to empower IT admins and SOC teams with **rich insights and actionable recommendations** tailored to your tenant.

By providing a **deeper view into the security posture** of your organization, the dashboard enables you to **implement effective protections accordingly**.



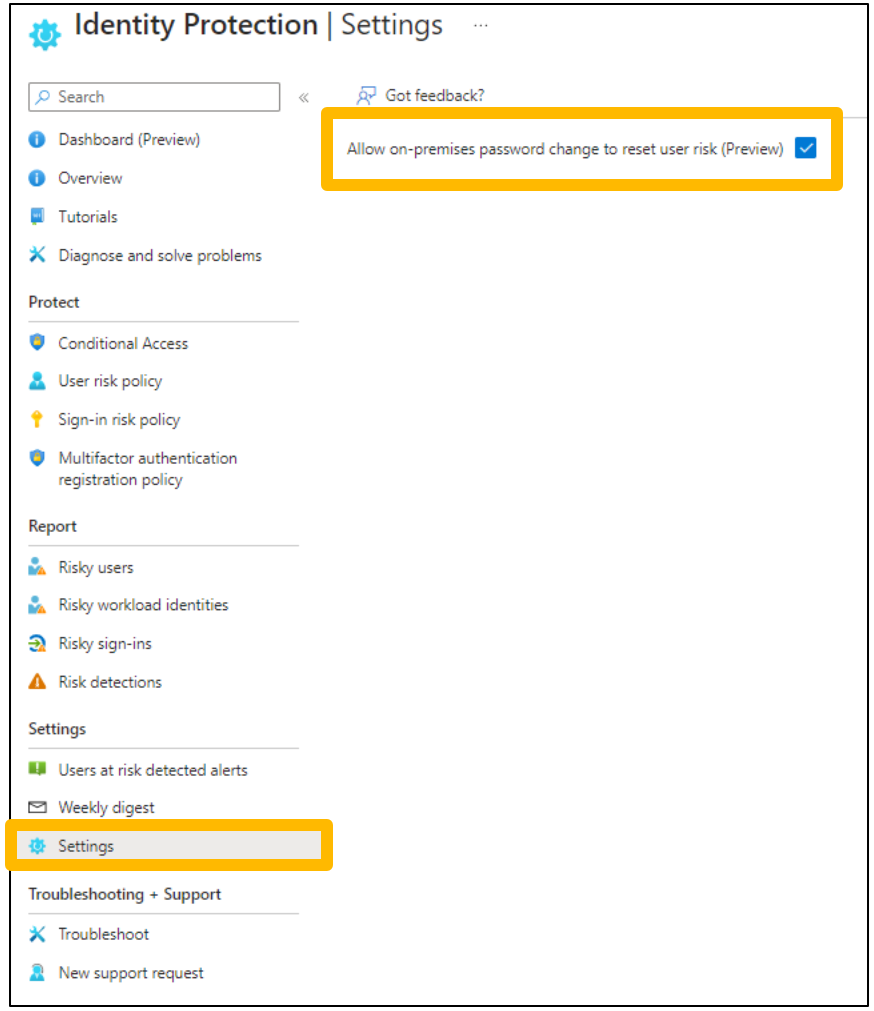
[Microsoft Entra ID Protection overview preview]

Oct 23 | Public Preview

Allow on-premises password reset to remediate user risk

By enabling **allow on-premises password change** to reset user risk you can **remediate risky users** through on-premises password resets.

- Organizations can proactively deploy **user risk policies** that require password changes to confidently protect their hybrid users.
- This option strengthens your organization's security posture and **simplifies security management**, even in **complex hybrid** environments.



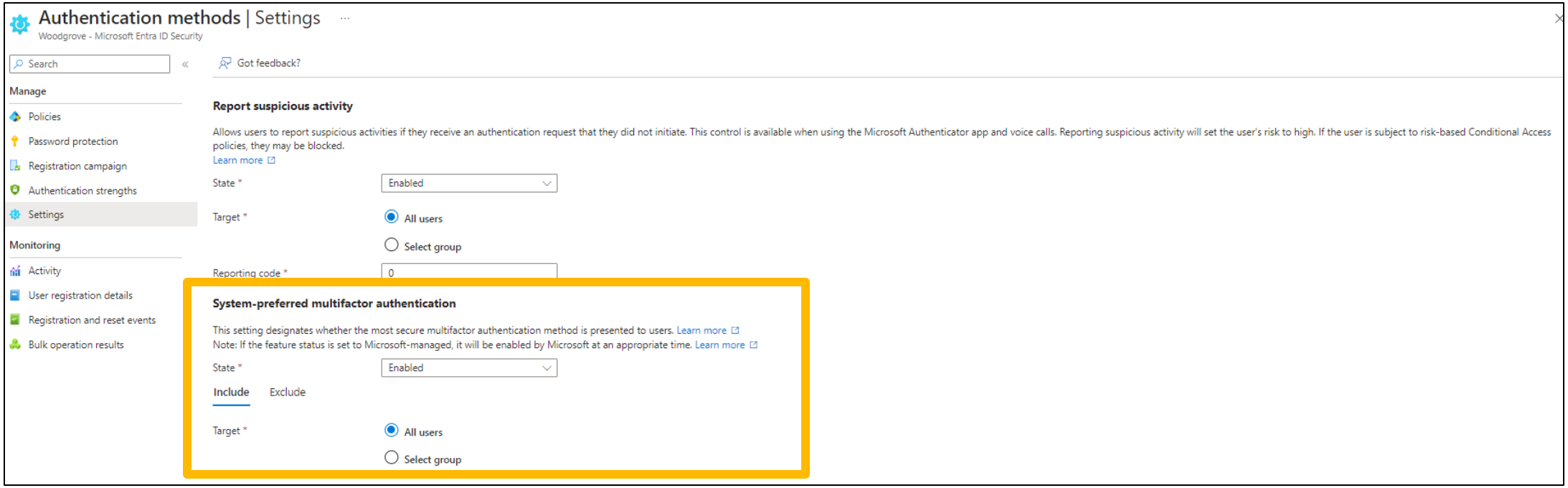
[Remediate risks and unblock users in Microsoft Entra ID Protection]

Apr 23 General Available

System-preferred multifactor authentication method

System-preferred multifactor authentication (MFA) enables IT admins to make the decision to **prompt their users for the most secure multi-factor authentication method** users have registered.

- We evaluate the different methods a user has at run time and **present them with the most secure method**. The **order** of authentication methods is **dynamic** and continuously updated.
- If users cannot access the method they are prompted for, they can **select another option**.



System-preferred multifactor authentication (MFA)

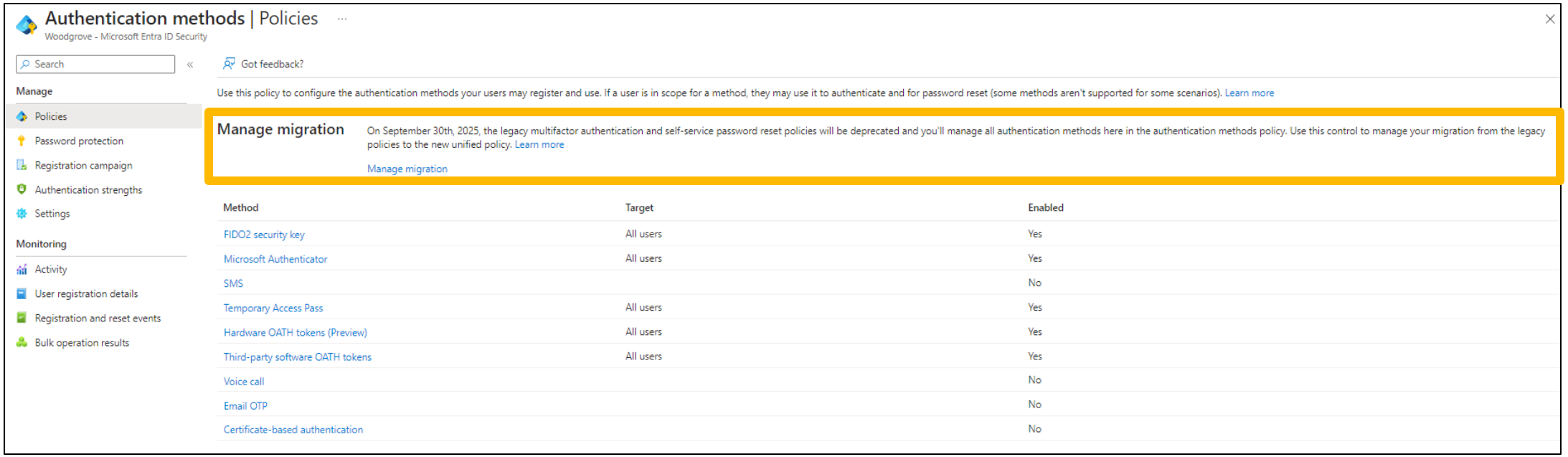
Mar 23 | General Available

Converged Authentication Methods Policy

The Converged Authentication Methods Policy enables you to manage **all authentication methods** used for **MFA and SSPR** in one policy and **migrate off the legacy MFA and SSPR policies**.

Settings aren't synchronized between legacy and authentication method policies.

- Entra ID respects the settings in **all of the policies.**
- To prevent users from using a method, it must be disabled in all policies.

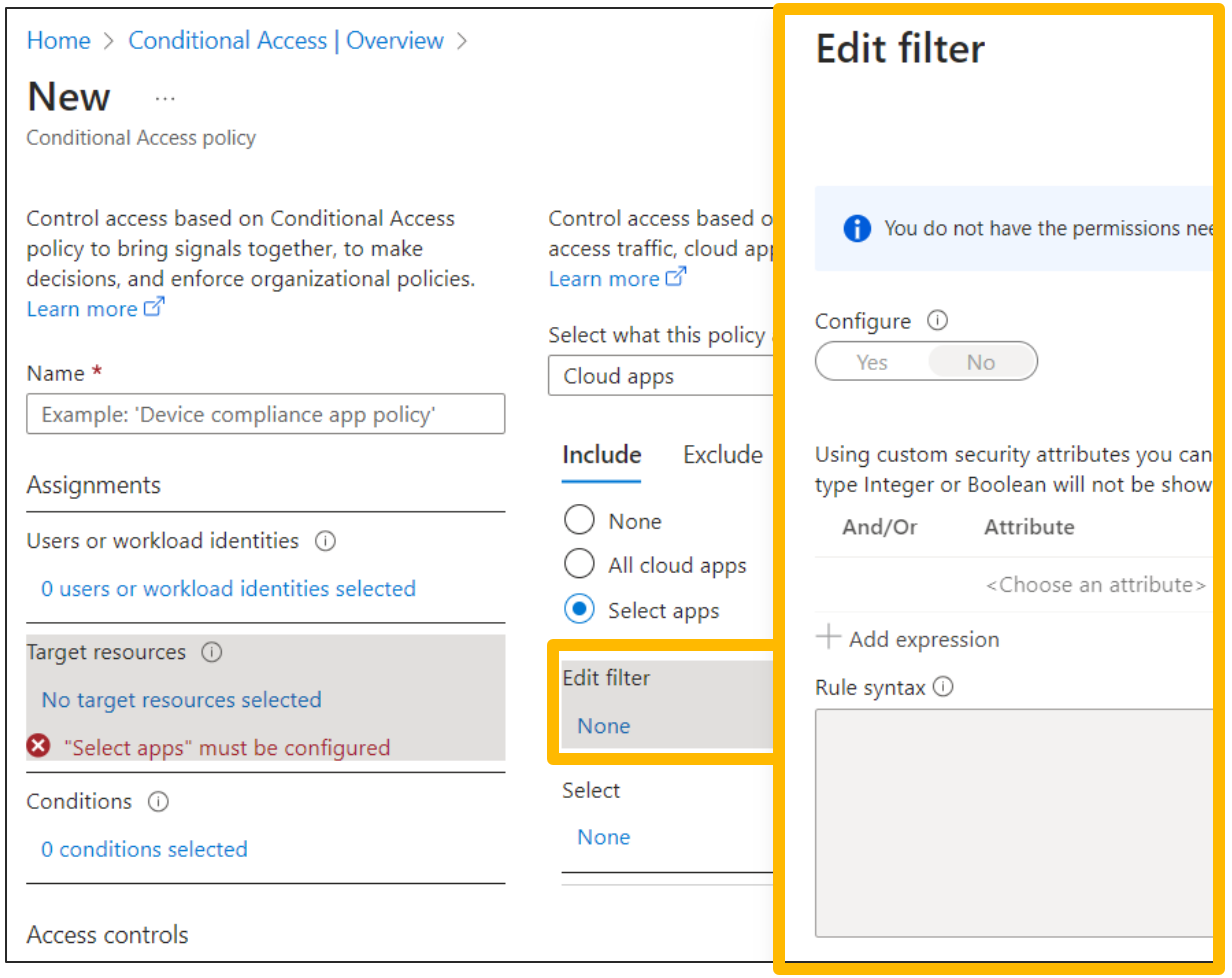


Manage authentication methods

Dec 23 | General Available

Conditional Access: Filter for applications*

- Filters for apps in conditional access allow admins to tag apps with **custom security attributes** and target them in policies, avoiding direct assignments.
- With this feature you can scale up your policies as the **policy size won't increase when more apps are added.**
- **Workload identities** can also be targeted with the new filter capability.



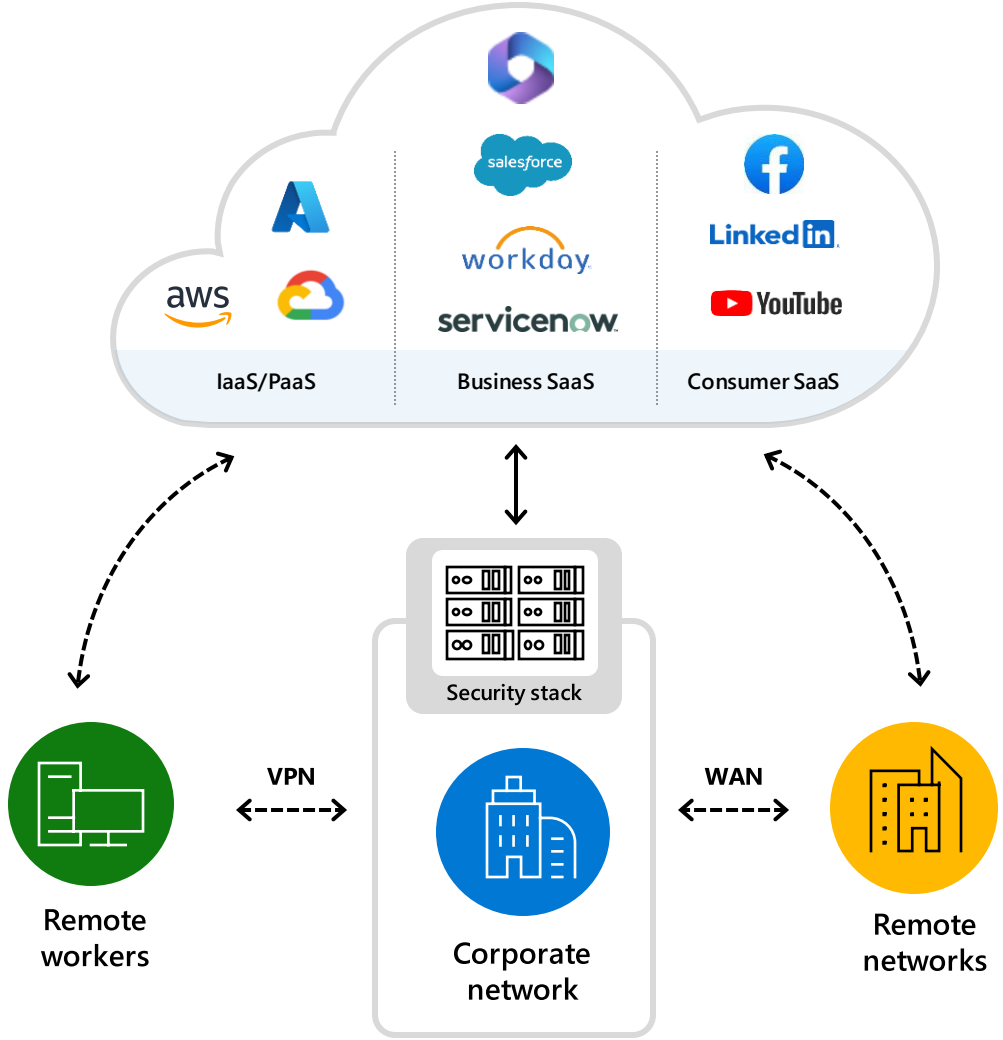
Filter for applications in Conditional Access policy

Microsoft Security

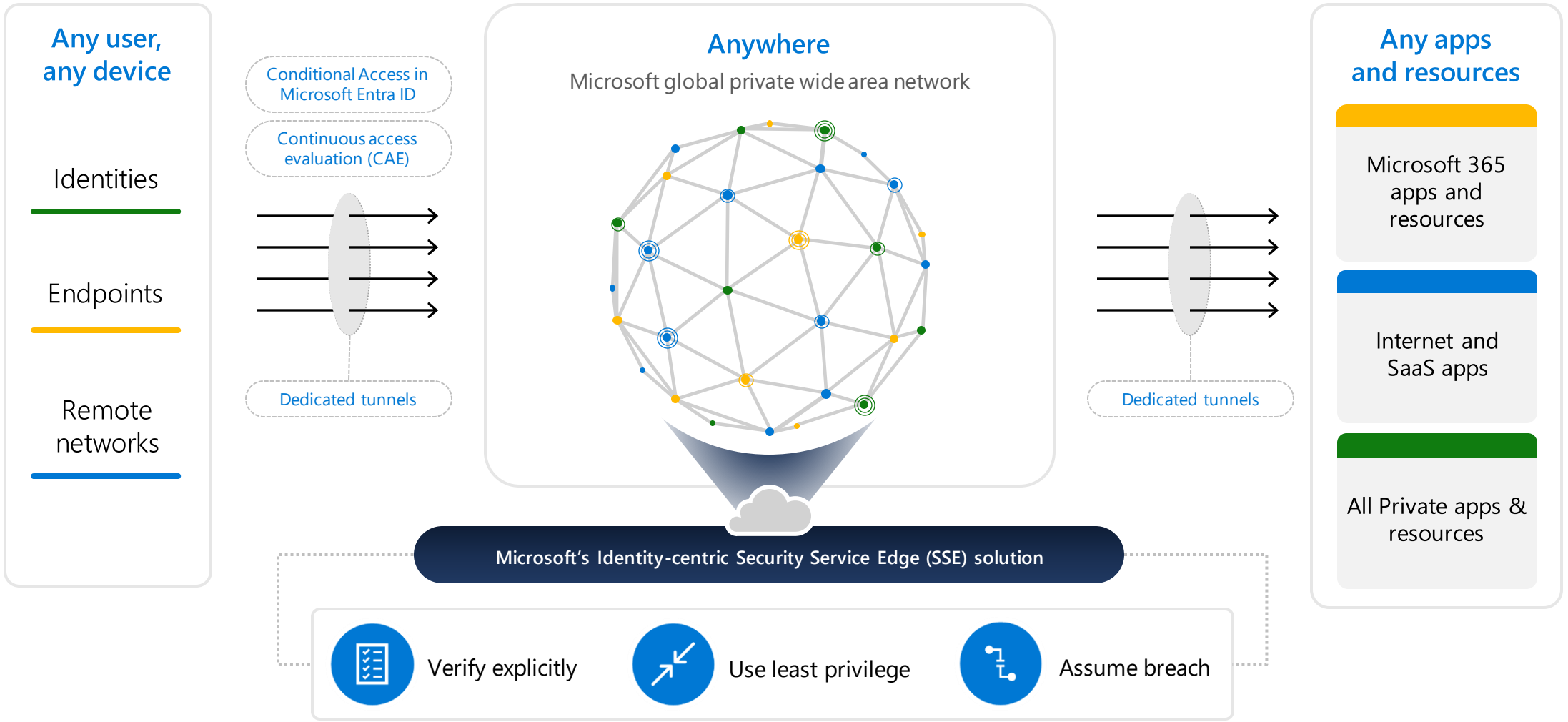
Einblick in die Microsoft Secure Service Edge (SSE) Lösung

Legacy network security approaches are no longer sufficient

- Inconsistent and inefficient security controls
- Security gaps from siloed solutions and policies
- Higher operational complexities and cost
- Poor user experience
- Limited resources and technical skills



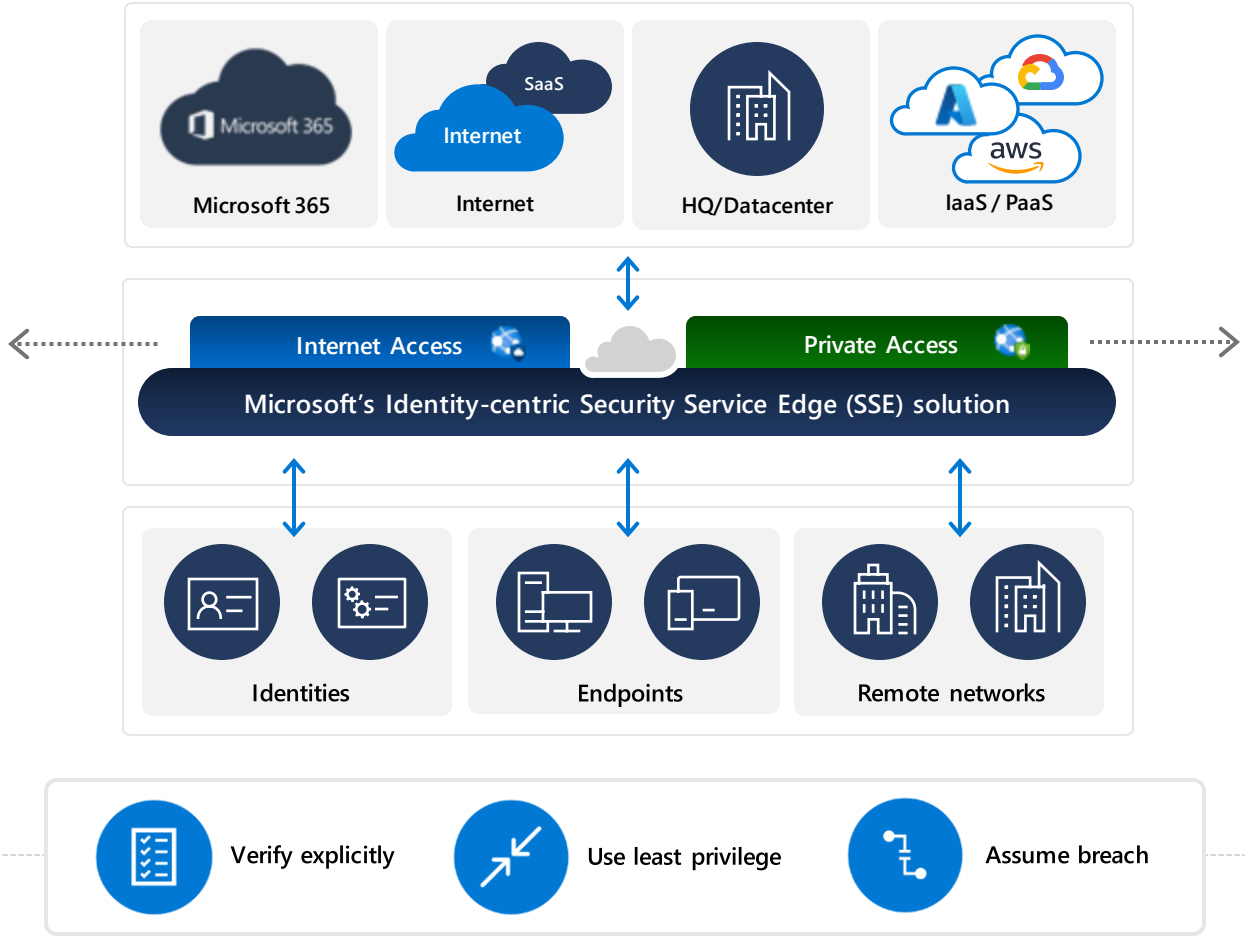
Microsoft's Identity-centric SSE solution



Microsoft's Identity-centric SSE solution

Microsoft Entra Internet Access

Secure access to all internet, SaaS, and Microsoft 365 apps and protect against malicious internet traffic with an **identity-centric Secure Web Gateway (SWG).**



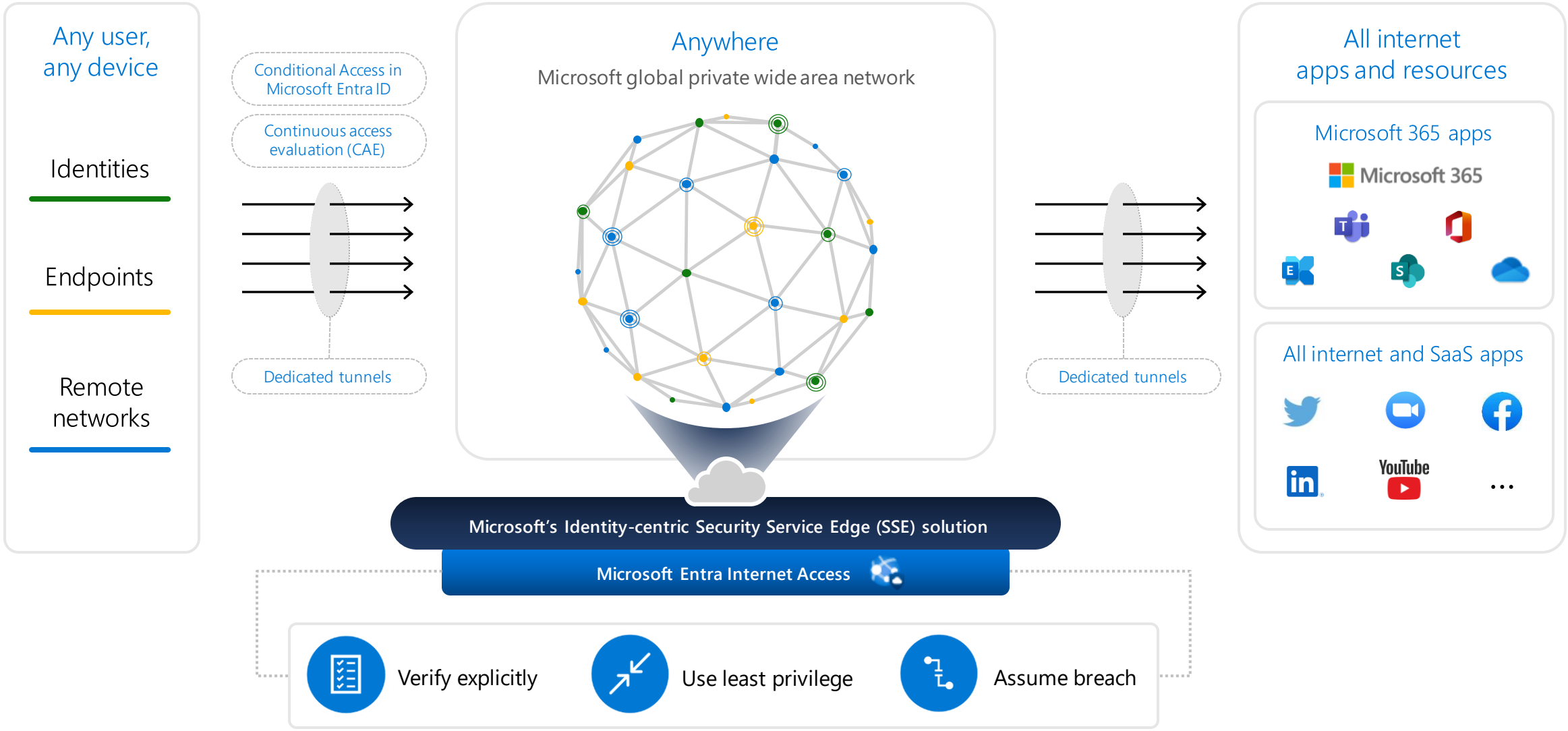
Microsoft Entra Private Access

Secure access to all private apps and resources, for users anywhere, with an **identity-centric Zero Trust Network Access (ZTNA).**

Microsoft Entra Internet Access (Preview)

Microsoft Entra Internet Access

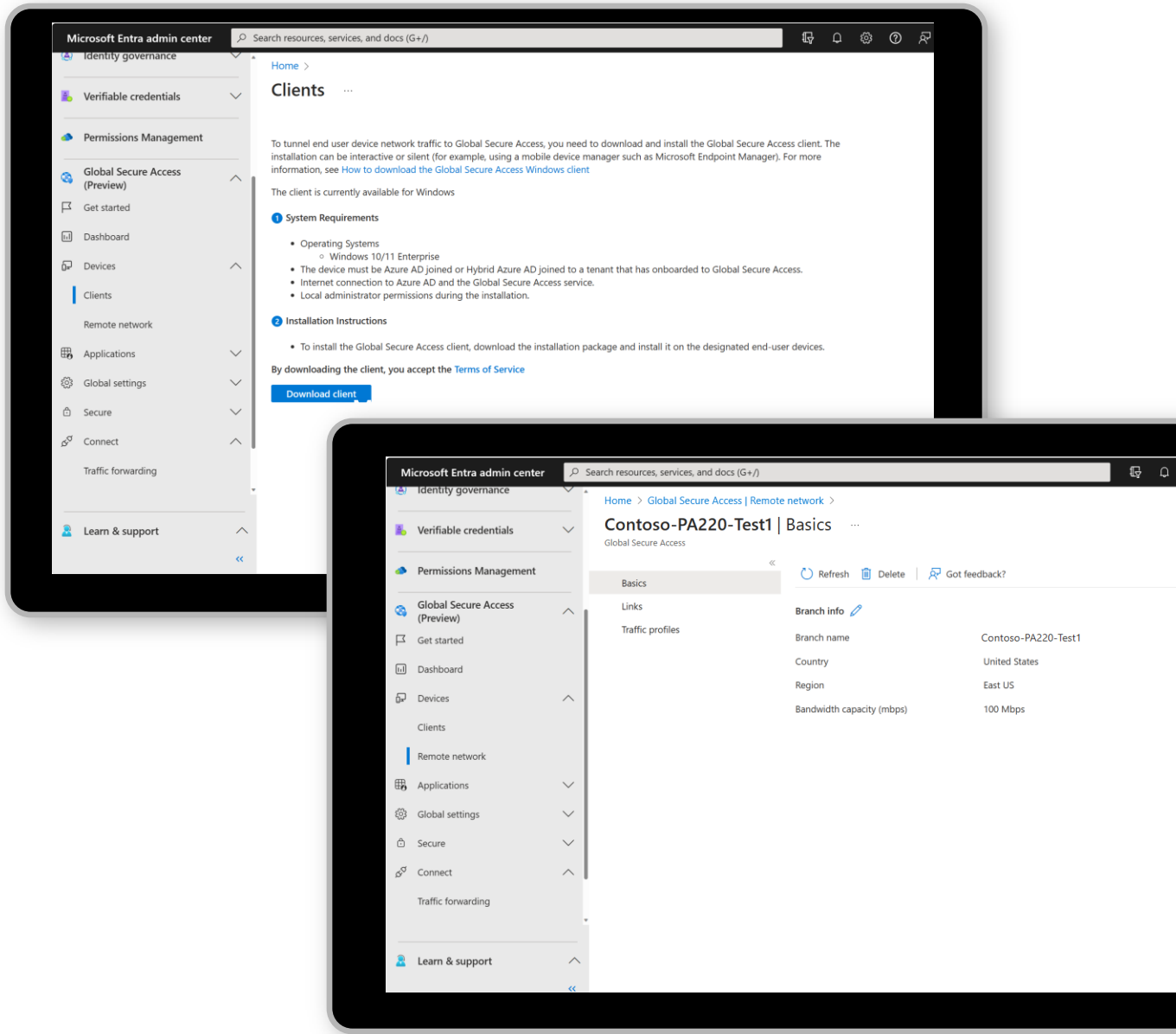
An identity-centric Secure Web Gateway (SWG) solution



Client and branch connectivity

Connect from any device, any network

- **All OS types supported for client connectivity**
  - **Public preview:** Support for Windows, Android
  - **Coming soon:** MacOS, iOS
  - **Coming soon:** Inbuilt into Windows OS stack
  - **Coming soon:** One Client (Integrated with Microsoft Endpoint Manager, Microsoft Defender for Endpoint)
- **Branch office support through IPSec VPN tunnels**
  - **Private preview:** Support for all mainstream CPE providers
- **Side-by-side support with 3rd Party SSE / Traditional DMZ**



Deep Identity Integrations

Zero Trust access

Universal Conditional Access and **continuous access evaluation** to any endpoint

- Verify users and conditions before granting access to network
- Block access to any network destination if Conditional Access checks fail
- Instantaneously revoke access when conditions change – continuous access evaluation

Token theft protection

Easy to manage location controls integrated with Conditional Access

- Defense in depth against token theft – verify user access from your tenant's trusted connectivity
- Easy to manage and no hair-pinning of users necessary
- Restore user's original Source IP in Conditional Access, Risk detection, activity logs

Data exfiltration control

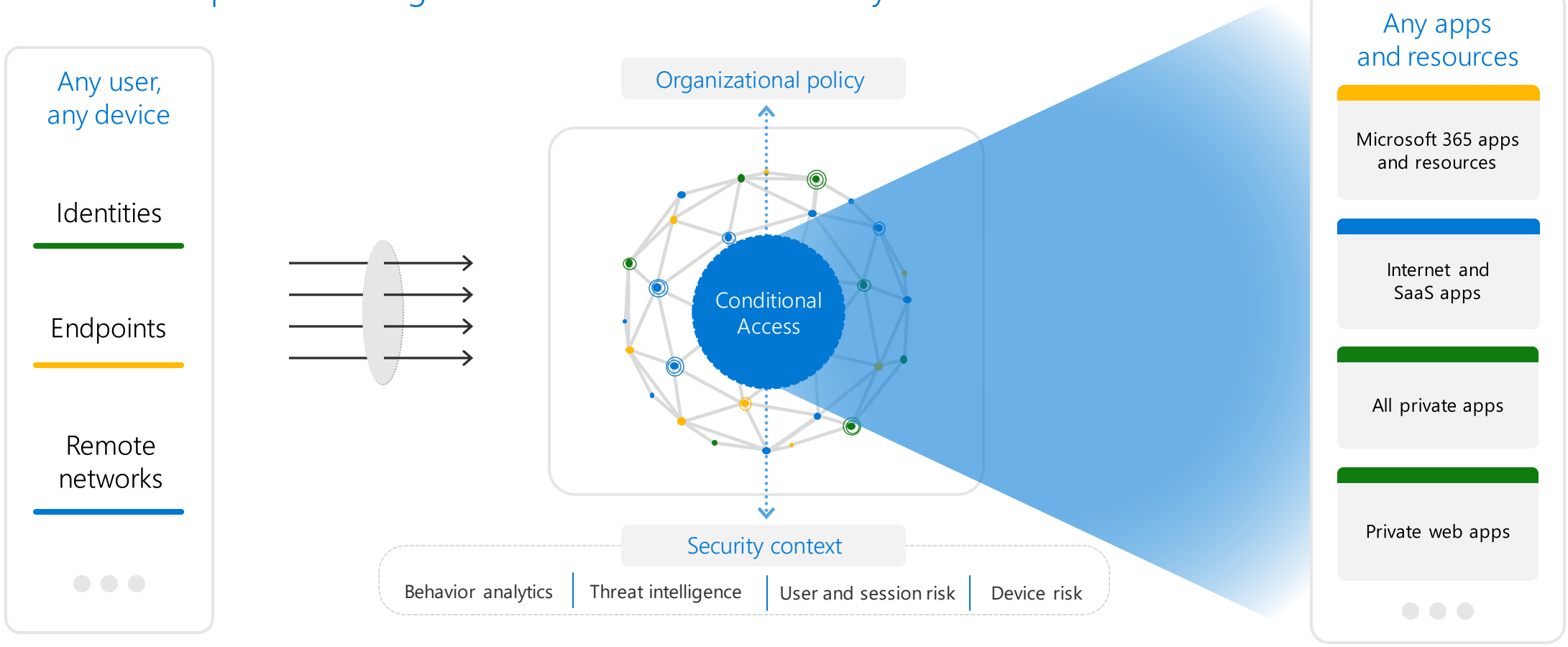
Manage insider attacks by controlling foreign identities usage in your enterprise

- Enforce granular list of foreign users and applications to allow
- Protect Microsoft 365 apps against token infiltration and anonymous access
- Protection without compromising user productivity and performance

Conditional Access - Microsoft's Adaptive Access Vision

https://aka.ms/MCRA

Trusted Fabric that protects all stages of the interaction between any two entities



Centralized control

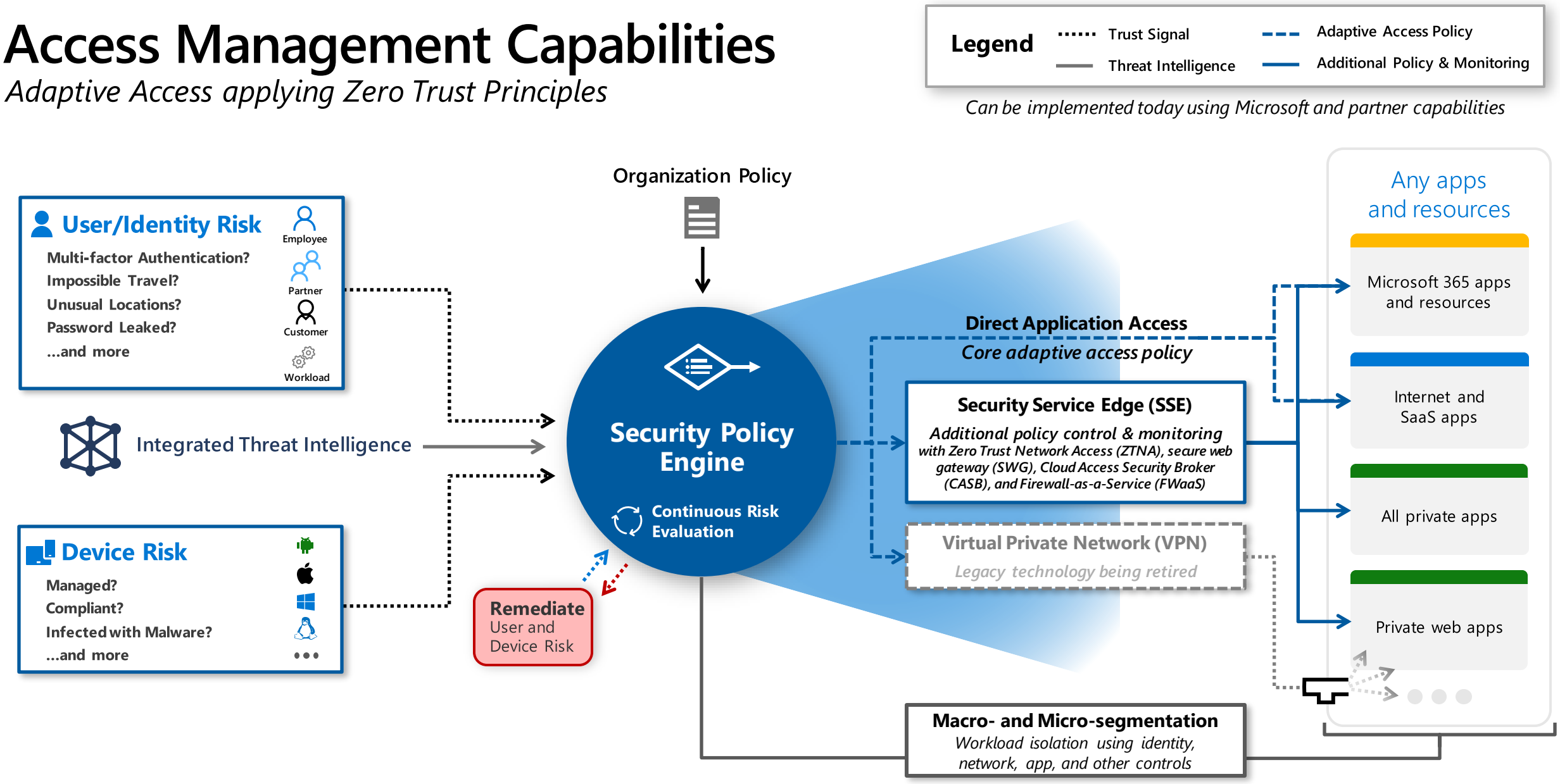
Unified Zero Trust architecture and policy engine simplifies management of access controls and technologies (Directory, SSO, Federation, RBAC, proxy, and more)

Consistent enforcement

Centralized policy is consistently applied across all resources where the action happens (identity, data, network + infra and apps across cloud, on-premises, IoT, OT, and more)

Access Management Capabilities

Adaptive Access applying Zero Trust Principles



Signal
to make an informed decision

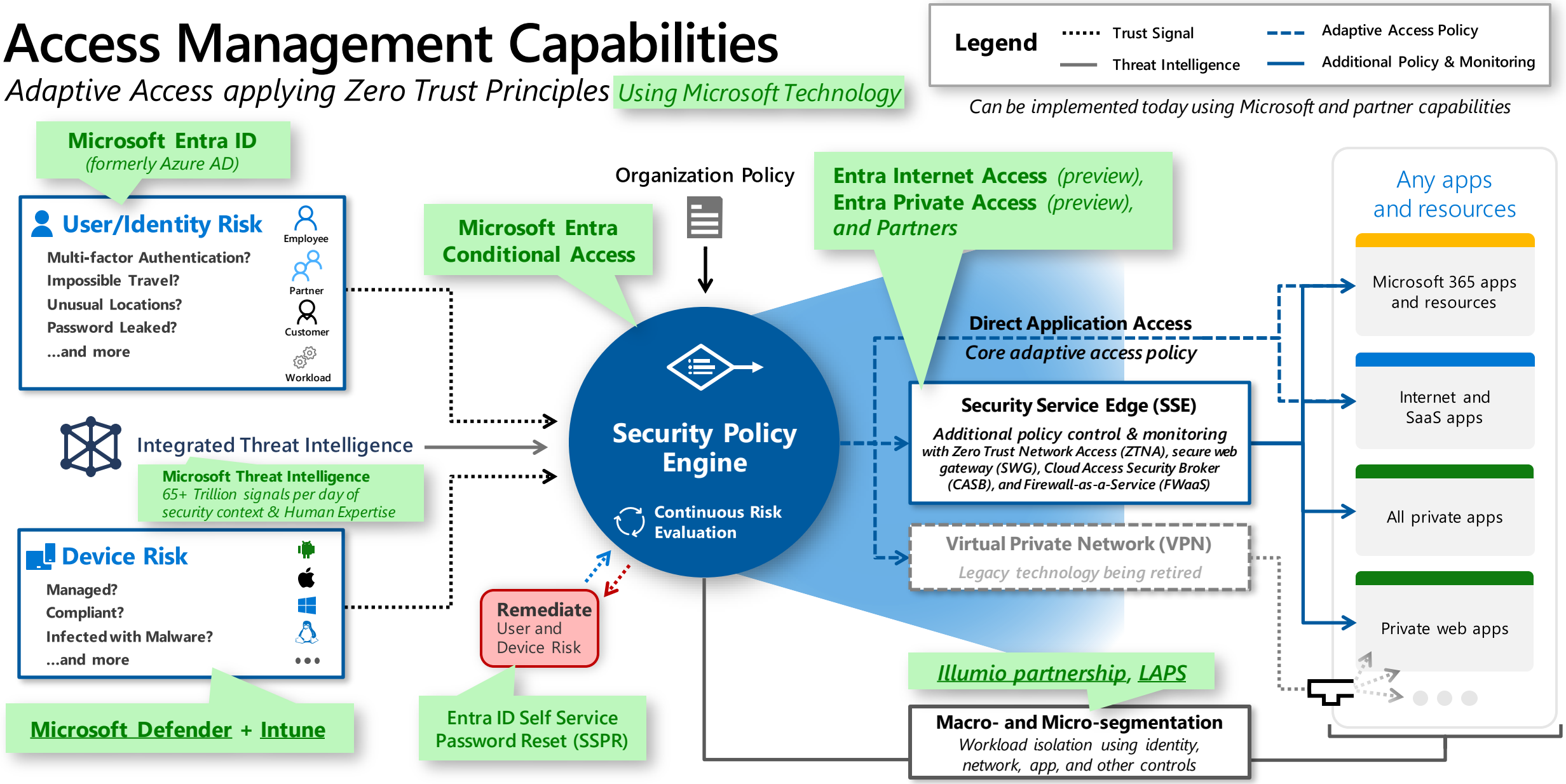
Decision
based on organizational policy

Enablement and Enforcement
of policy across resources

https://aka.ms/MCRA

Access Management Capabilities

Adaptive Access applying Zero Trust Principles *Using Microsoft Technology*

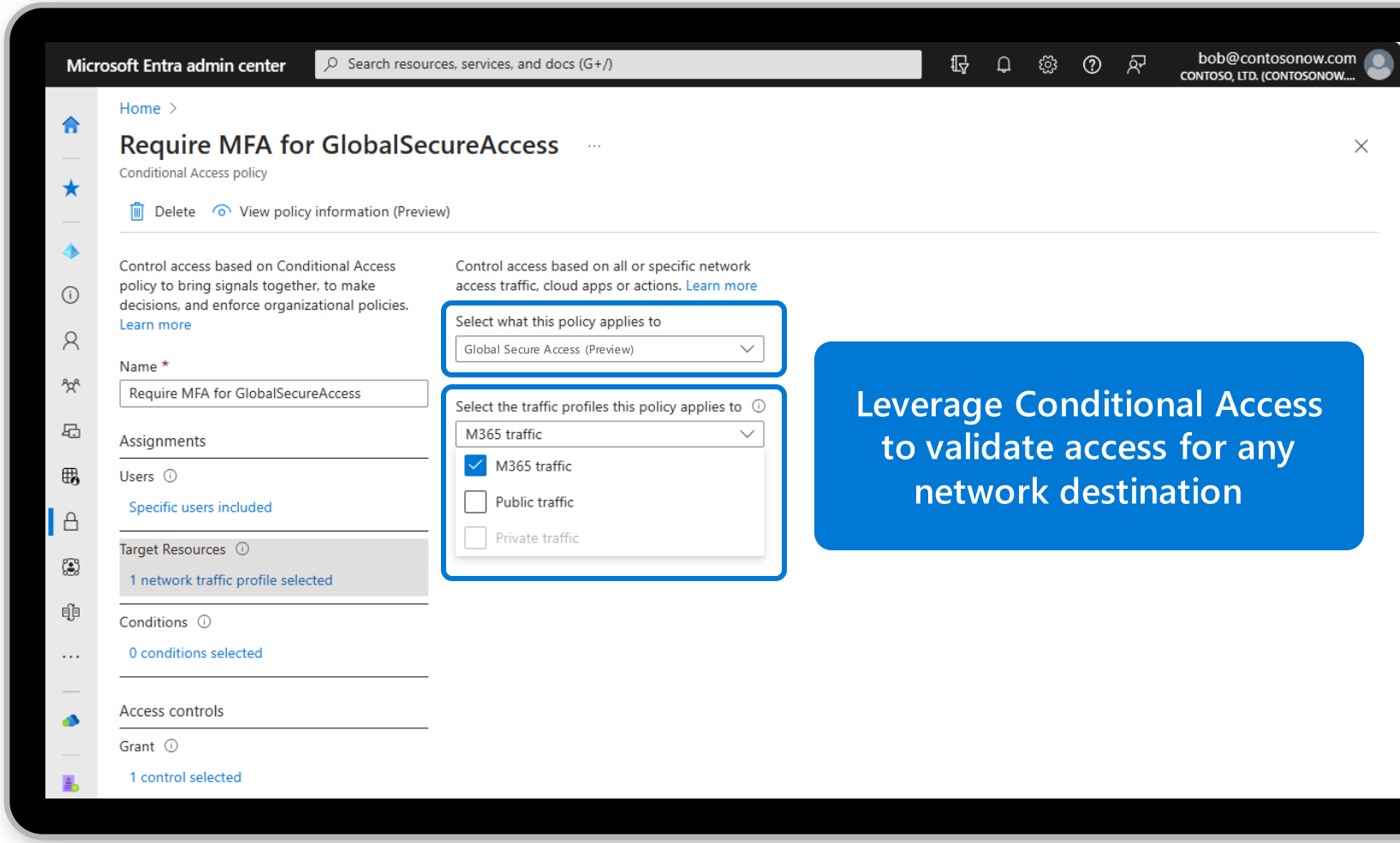


December 2023
https://aka.ms/MCRA

Universal Conditional Access

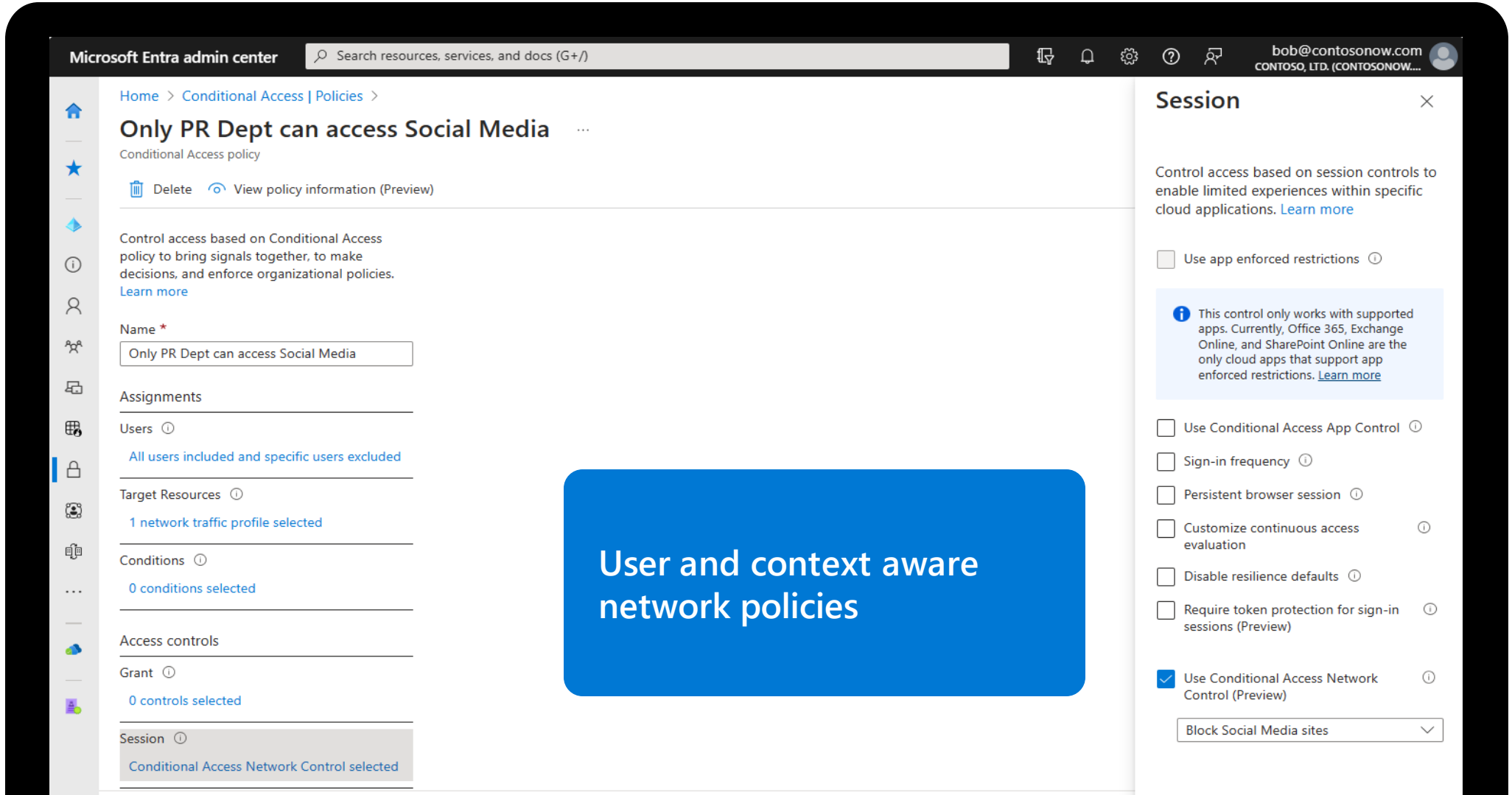
Extend the power of Conditional Access to any network destination

- Applies Conditional Access to network scope
  - Introduces Global Secure Access as a new resource type in Conditional Access
  - Integrated construct to enforce adaptive access controls when connecting to SSE
- Support for differentiated Conditional Access policies across Microsoft 365, Internet and Private traffic profiles
- Extend seamless Zero Trust access controls to all network destinations, agnostic of client or application readiness
- **Coming Soon:** Continuous access evaluation to instantaneously revoke access on changing conditions



Extend Condition Richness to Network Filtering

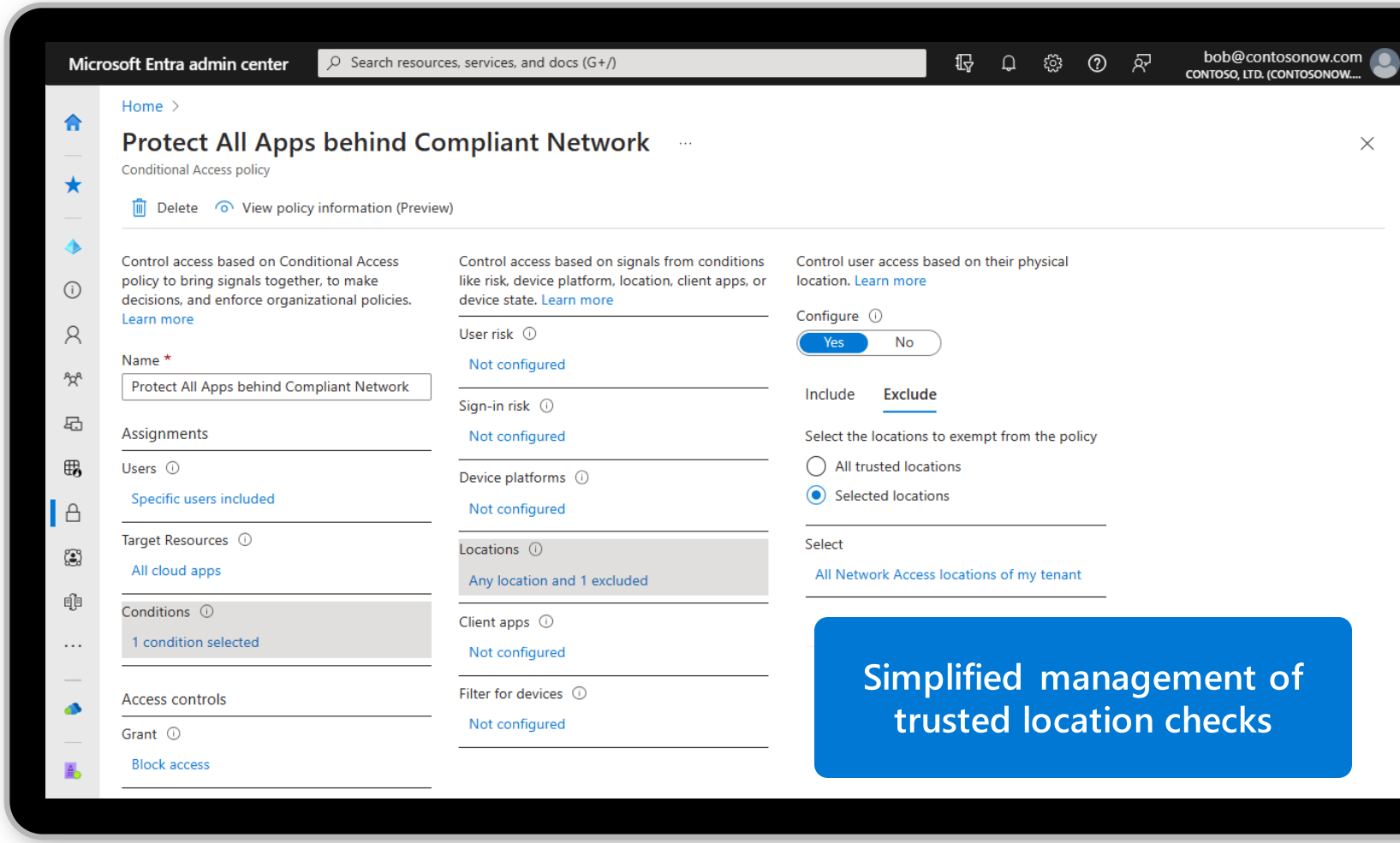
Leverage rich user, device, location awareness of Conditional Access for Network security policy enforcement



Compliant Network Check

Stop user bypass of edge security stack & protect against token theft

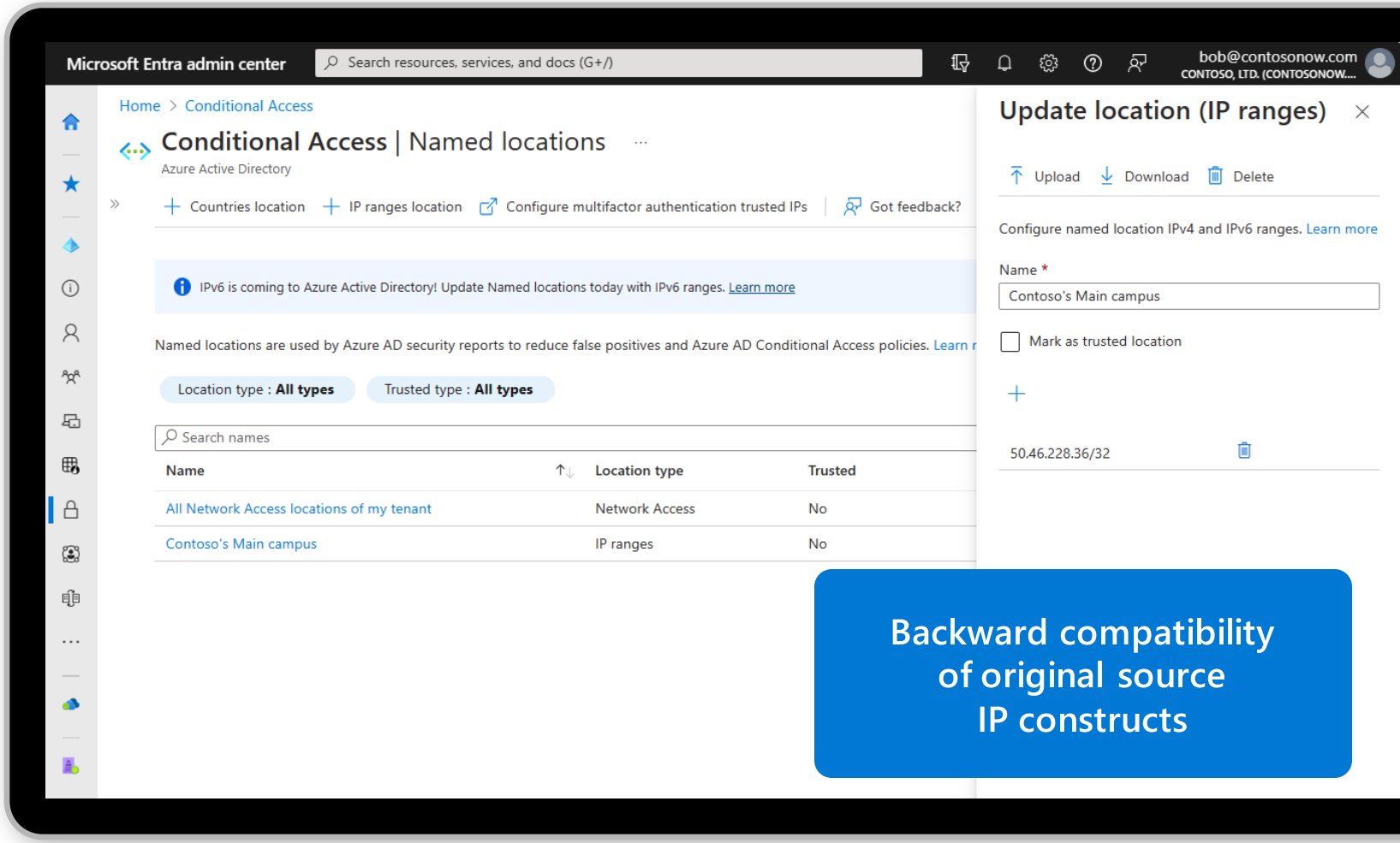
- **Prevent token thefts**
  - Validate user is connecting from verified device/network of your tenant
  - Inbuilt support for tenant level granularity
- **Ensures that user has not bypassed underlying security controls of SWG/SSE**
- **It's the better Location Control**
  - All the security, without any of the Source IP management overhead
  - No need to hairpin remote users to central egress points to enforce Source IP checks
  - Integrated with Trusted location construct
- **Coming soon: Continuous access evaluation and B2B integration**
  - Integrated for instantaneous access revocation for Microsoft 365 applications
  - Availability in XTAP-B2B scenarios to validate access from partner tenants



Source IP Restoration

Backward compatibility and continuity

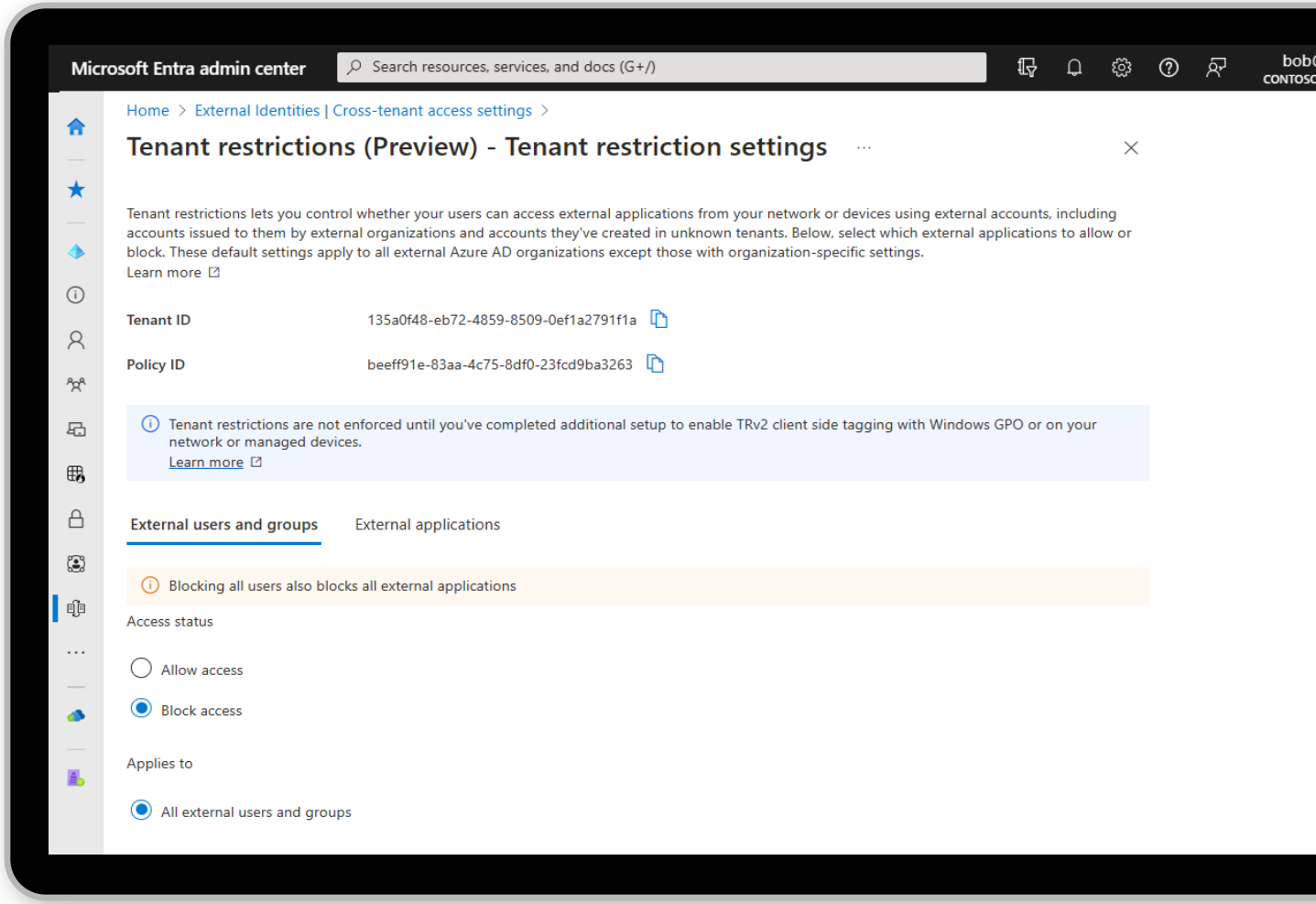
- **Maintain backward compatibility** for Source IP based location checks in Conditional Access (CA)
- **Maintain backward compatibility** for Source IP continuous access evaluation (CAE) location checks in Microsoft 365 applications (Datapath)
- **Restore Source IP context** for all Microsoft Entra ID risk assessment – User Risk, Sign-in Risk
- **Restore Source IP context** for all Microsoft Entra ID activity logs



Universal Tenant Restriction

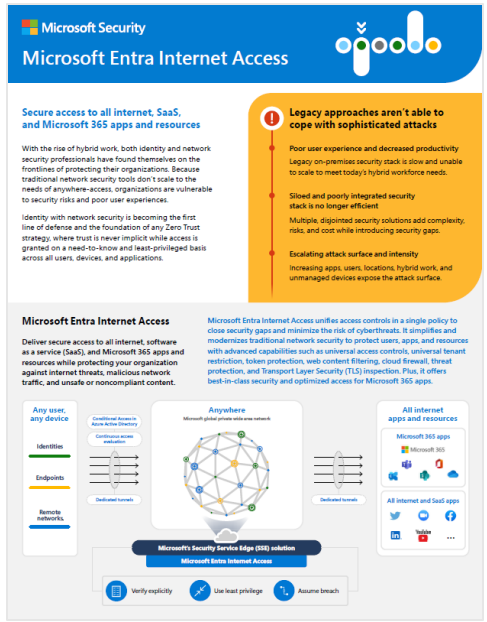
Strong data exfiltration controls

- **Microsoft Entra Internet Access integration enables Universal Tenant Restriction across all managed devices and networks (branch) agnostic of OS and Browser platform**
  - Eliminates need for enterprise managed Network proxies
  - No need to share enterprise certs for inserting TRv2 headers
  - Secures access for your enterprise without compromising performance/ user experience.
  - Facilitates Cross-tenant Access monitoring
- **Microsoft Entra ID Tenant Restriction v2 (TRv2) protects against data exfiltration by foreign identities to foreign tenants**
  - TRv2 supports tenant, user, group and application granularity
  - TRv2 enables data path coverage to protect against token infiltration and anonymous access
  - TRv2 also has provision to control MSA access



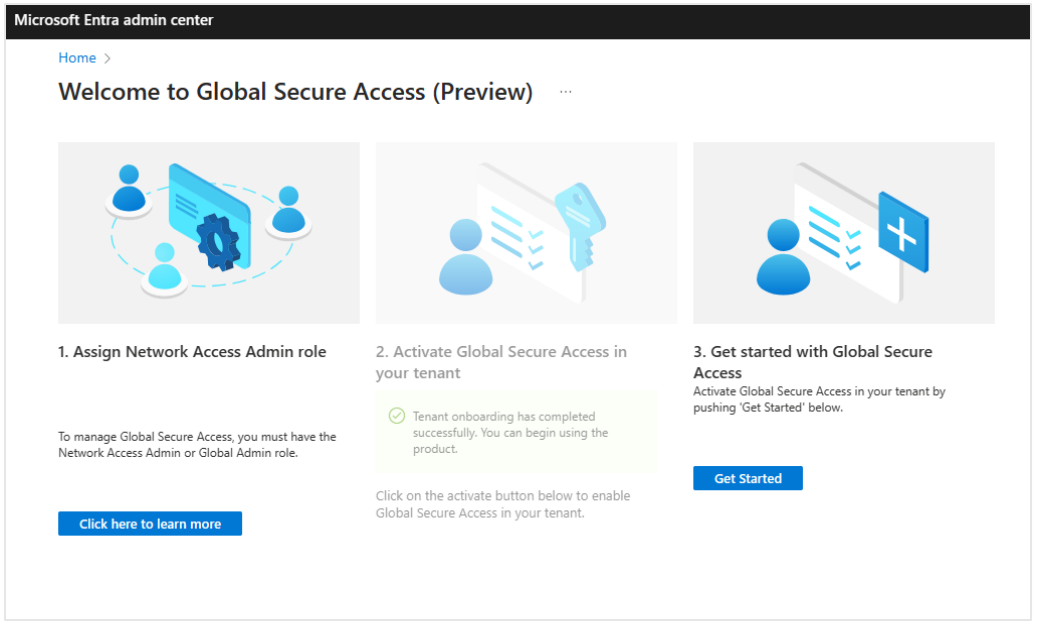
Learn more and join Internet Access Previews

Learn more



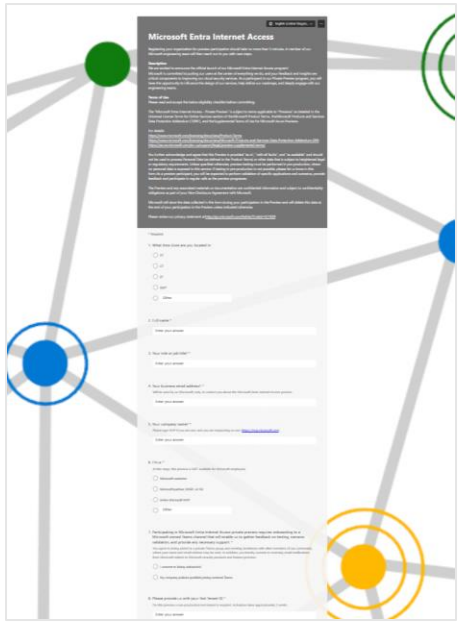
» https://aka.ms/InternetAccess

Public Preview



» https://aka.ms/InternetAccessPreview

Private Preview



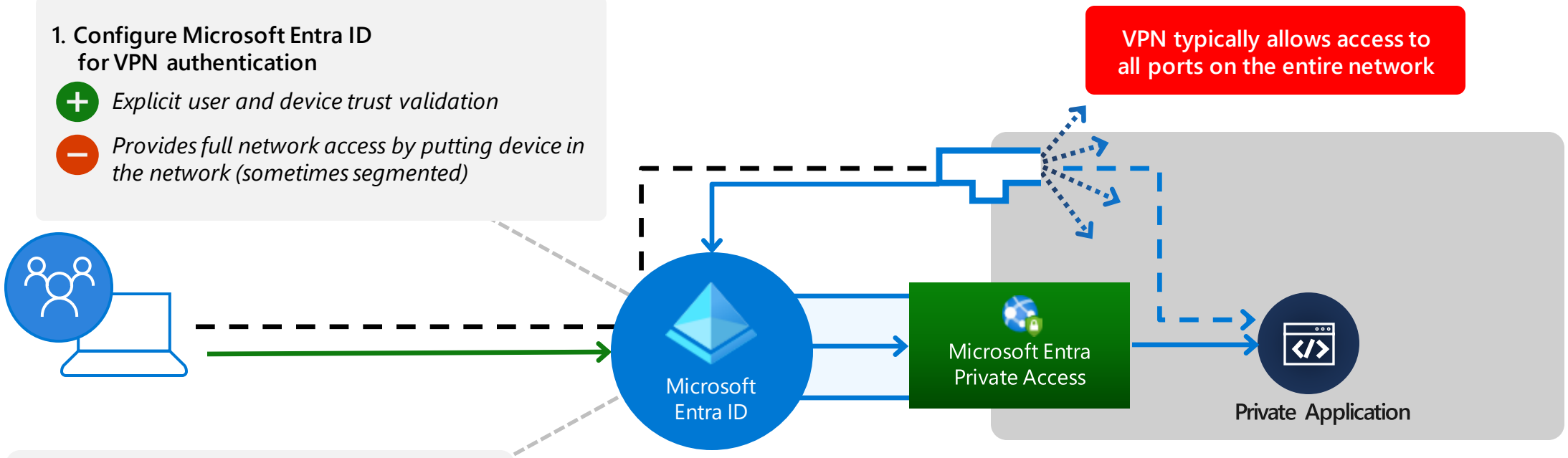
» https://aka.ms/InternetAccessPrivatePreview

Microsoft Entra Private Access (Preview)

Moving beyond VPNs

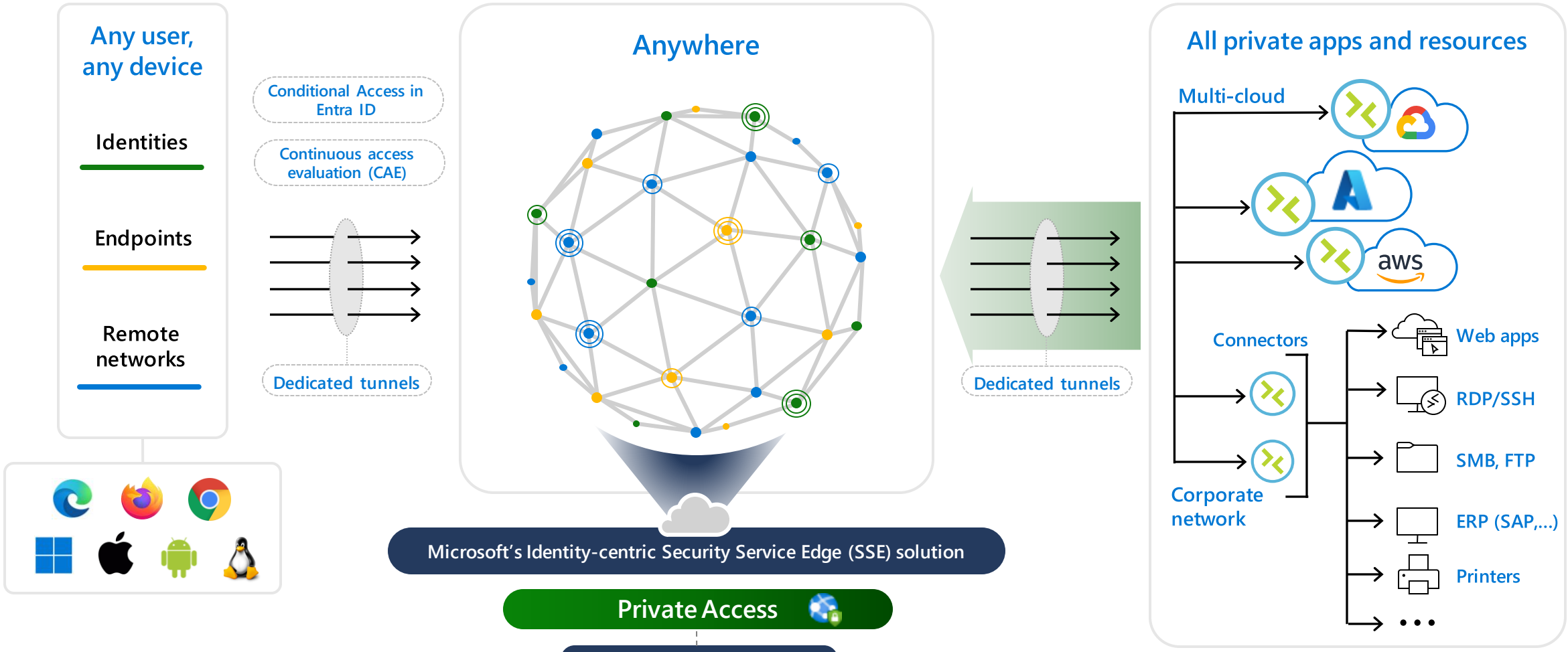
Move to identity-centric ZTNA and modernize access to private applications

1. Configure Microsoft Entra ID for VPN authentication
   - *Explicit user and device trust validation*
   - *Provides full network access by putting device in the network (sometimes segmented)*



2. Publish apps with Private Access
   - *Explicit user and device trust validation*
   - *Provides access to only private apps (with seamless user experience)*
   - *Device does not get network level access*

Microsoft Entra Private Access - How it works



Microsoft Entra Private Access

Broad application support

Provide secure access to all private apps – any app, any port, any protocol

Access non-web apps (all TCP/UDP incl. RDP, SSH, SMB, FTP, …)

Identity-centric security controls

Control access using Entra Conditional Access (CA) policies

Coming soon: Revoke access using continuous access evaluation (CAE)

Single sign-on to private apps using SAML, Kerberos, header-based, …

Segmented app access

Enable access to specific apps as opposed to full network

Segment private app access based on user and device identity

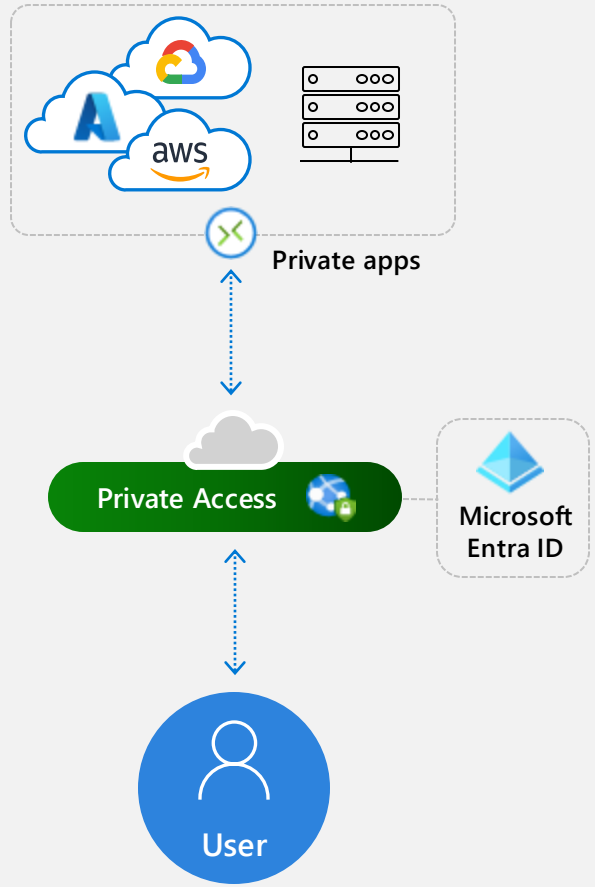
Coming soon: Micro-segment based on process identity

App discovery and onboarding

Discover private apps and onboard them to segment access to resources

Intelligent local access

Coming soon: Adaptive local access to private apps for hybrid users



Adaptive **identity-centric** Zero Trust Network Access (ZTNA)

Scenarios and use cases

QuickAccess

Easy migration from VPNs to zero trust network access to all private apps with a policy

App discovery

Discover apps and onboard/register them in Entra ID

Per app access

Configure access to a well-known private app with a policy

Rich apps and app segments

Support for non-https apps with SSO for legacy protocols like Kerberos

App groups and policies

Assign policies to individual apps or to app group(s)

Quick Access

Fast & easy migration from legacy VPN to identity-centric Zero Trust Network Access (ZTNA)

» Quick experience

First step for Zero Trust Network Access to private resources

Minimal config to get started

Start with broad access

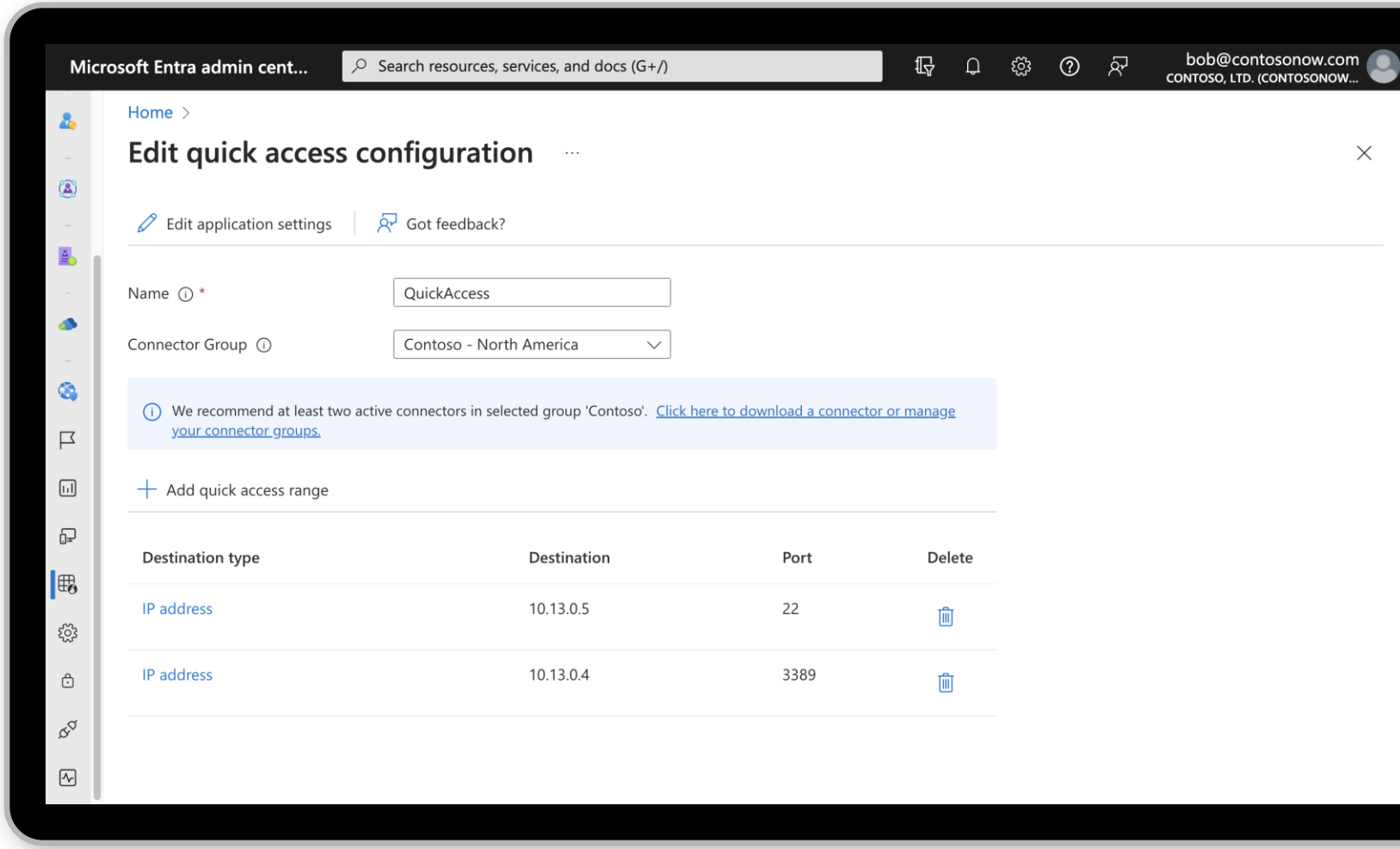
» Flexibility

Supports IP range, IP addresses, FQDNs, or wildcard suffixes

» Segmented Private Access

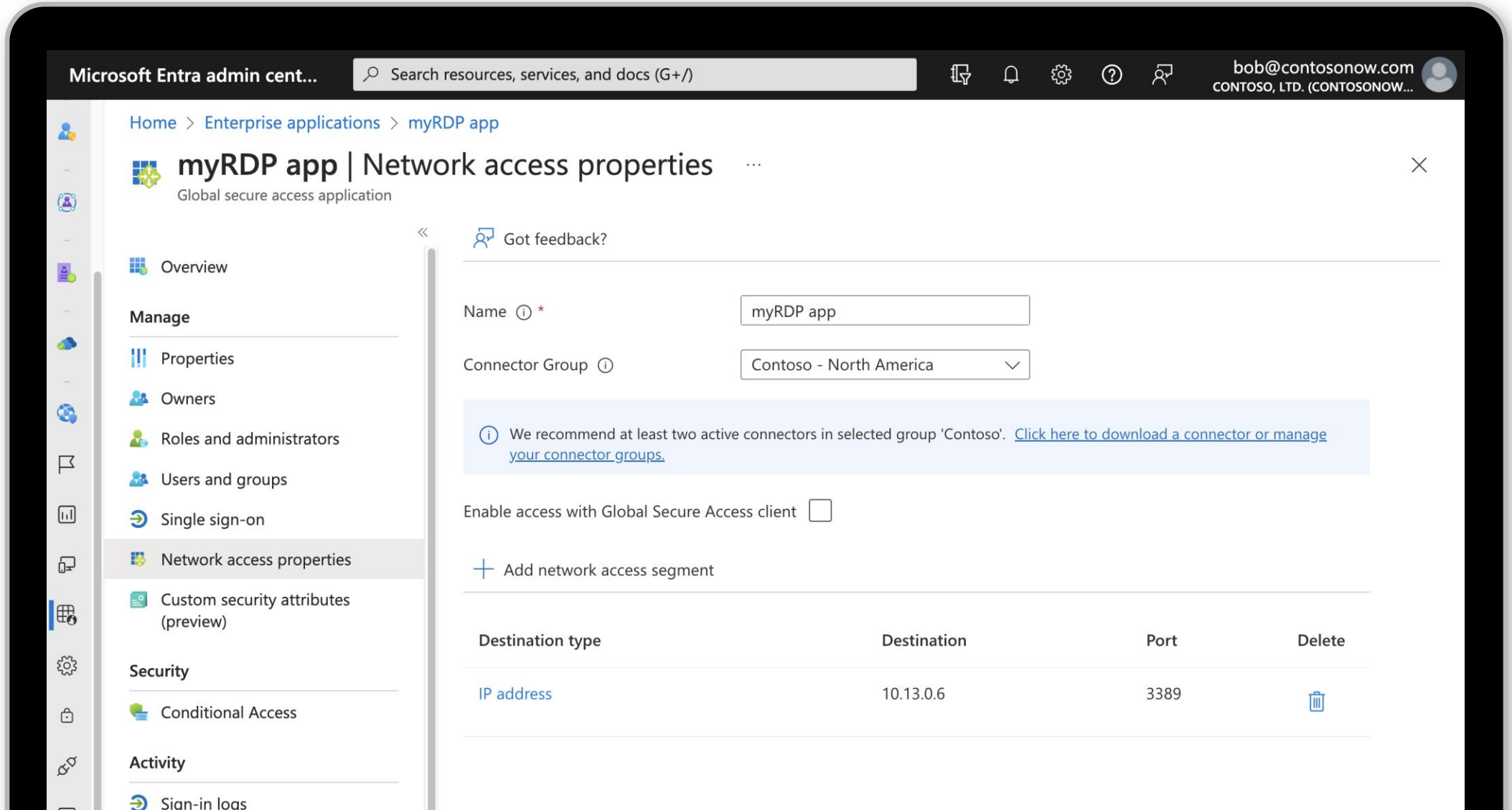
Next step in Zero Trust Network Access journey

Onboard/register discovered apps to Entra ID



Segmented Per-app Access

Segment your traditional network-based access to specific private apps



Private App Discovery

Discover and onboard private applications for segmented per-app access

Discover apps

Discover app segments

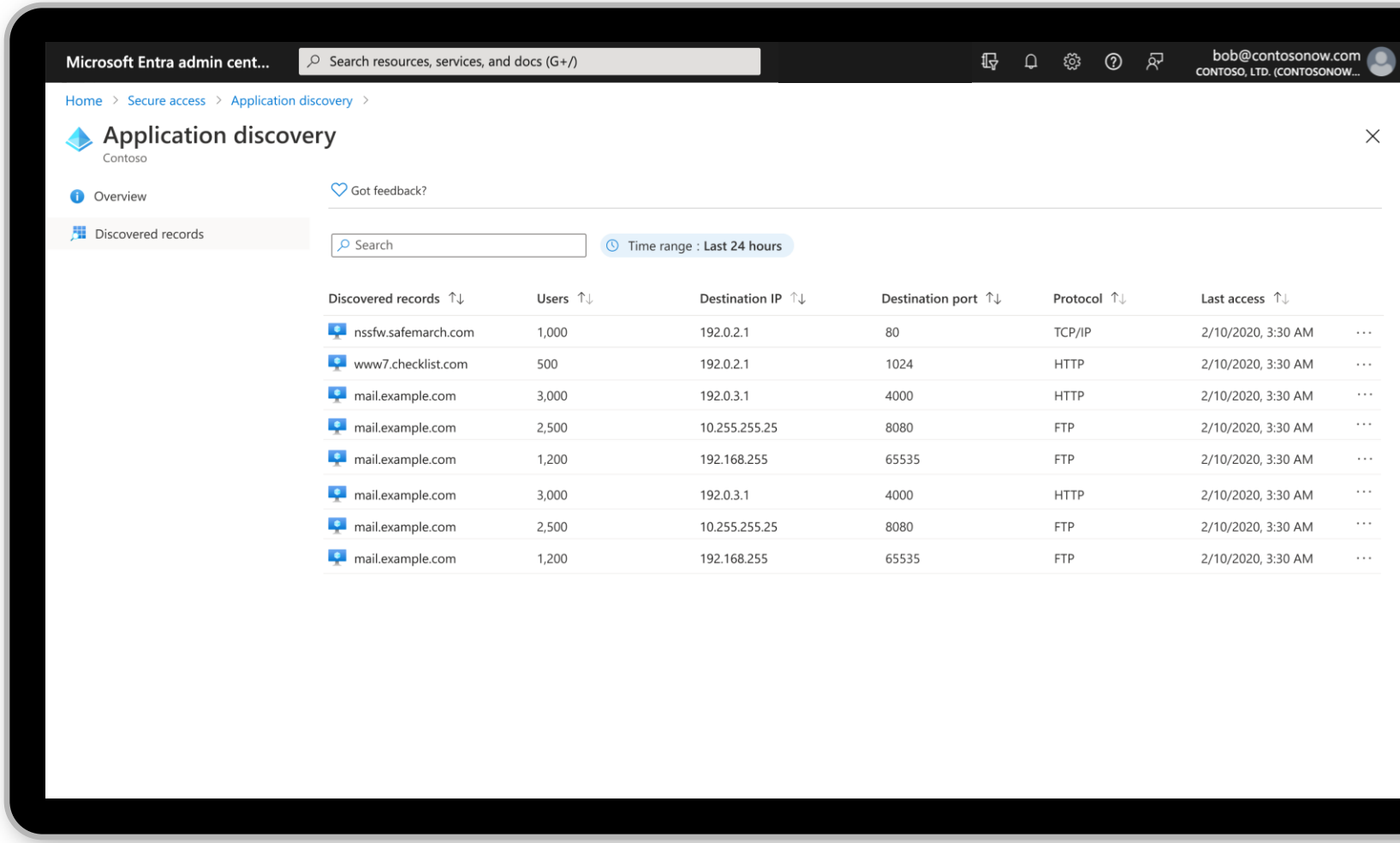
Create private apps using discovered
app segments

Analytics

See app usage trends and relevant insights like usage over time, and more

Auto re-discovery

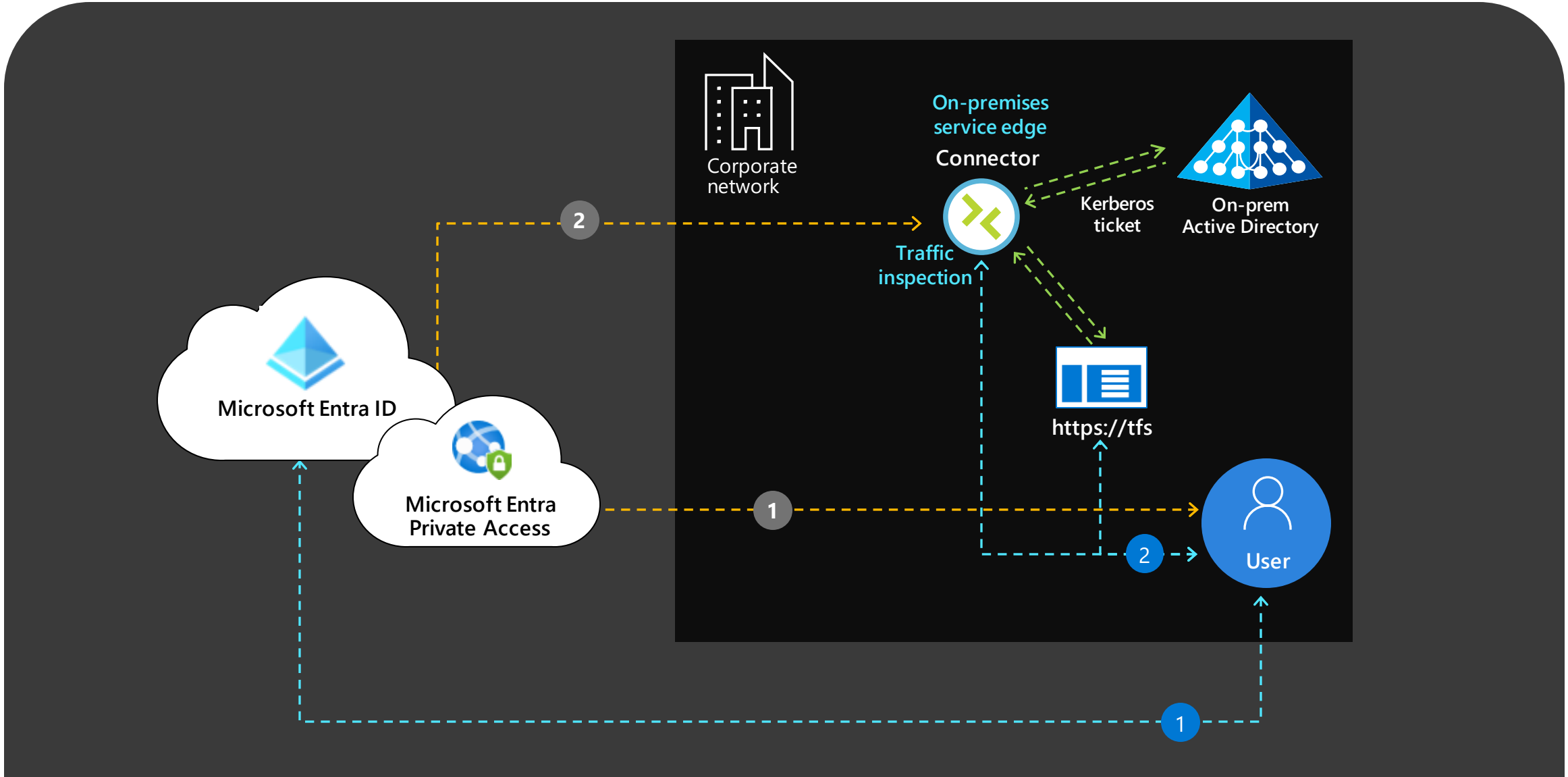
Intelligently add new discovered app segments to existing apps as additional app segments



Local Access to Private Apps

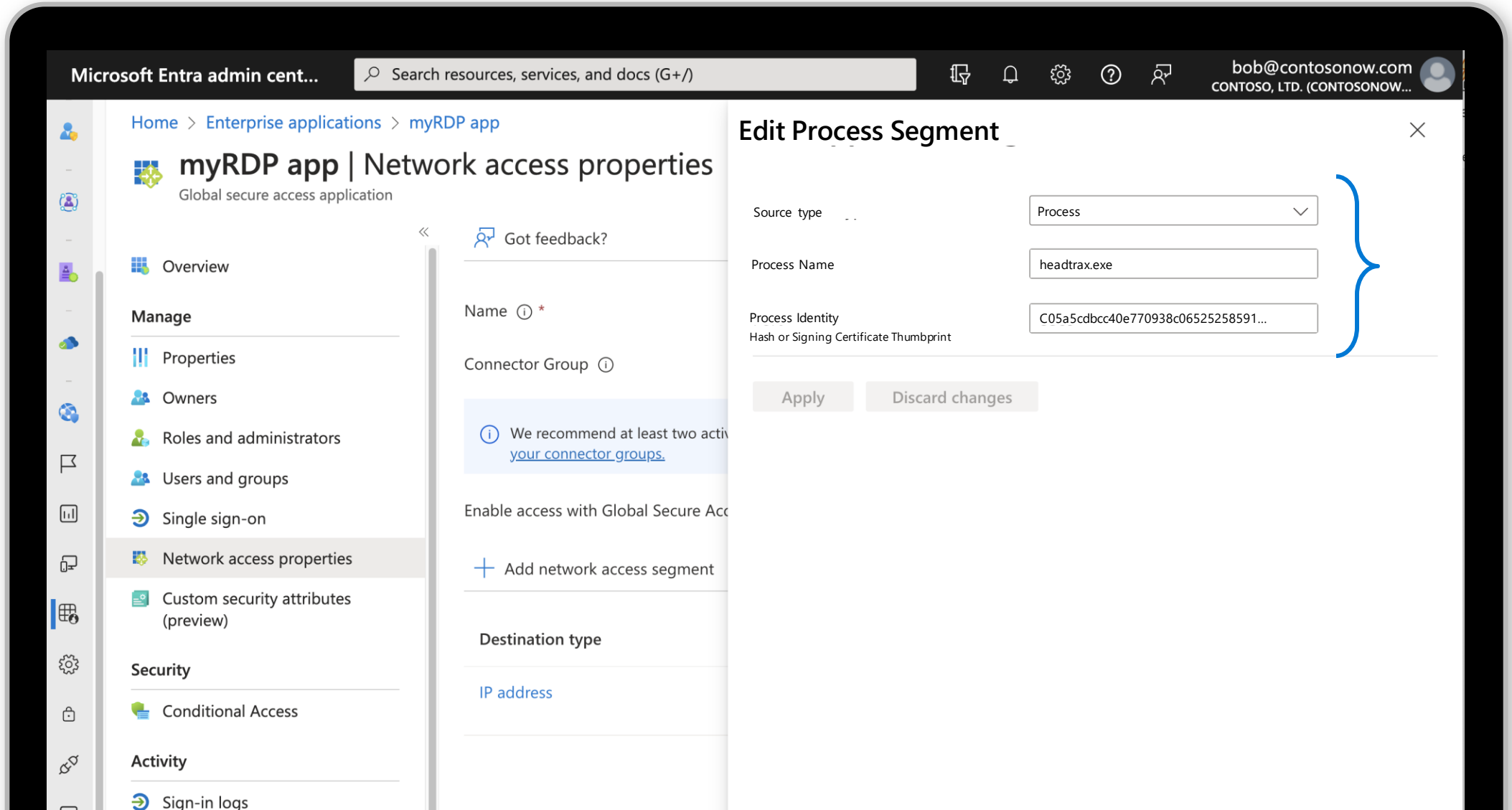
Intelligent, Smart, and Adaptive

Coming soon



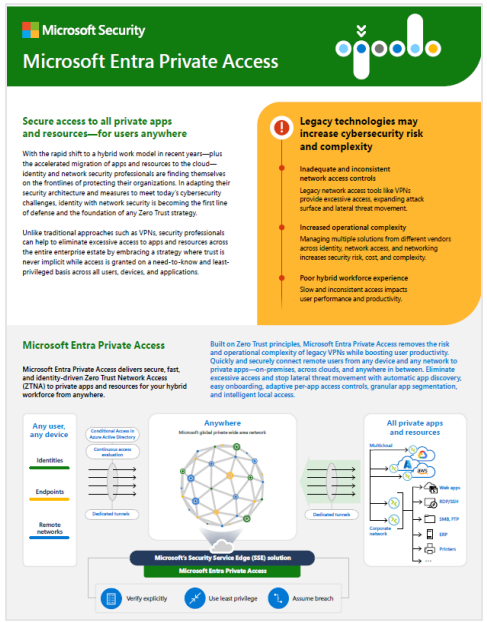
Process Level Segmentation

Coming soon



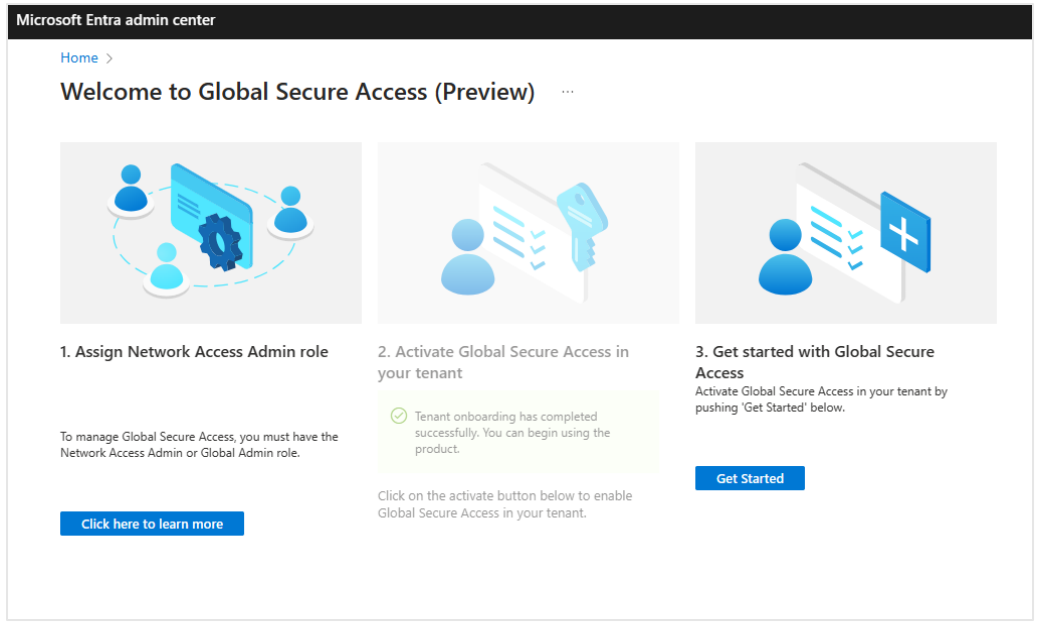
Learn more and join Private Access Preview

Learn more



» https://aka.ms/PrivateAccess

Private Access Public Preview



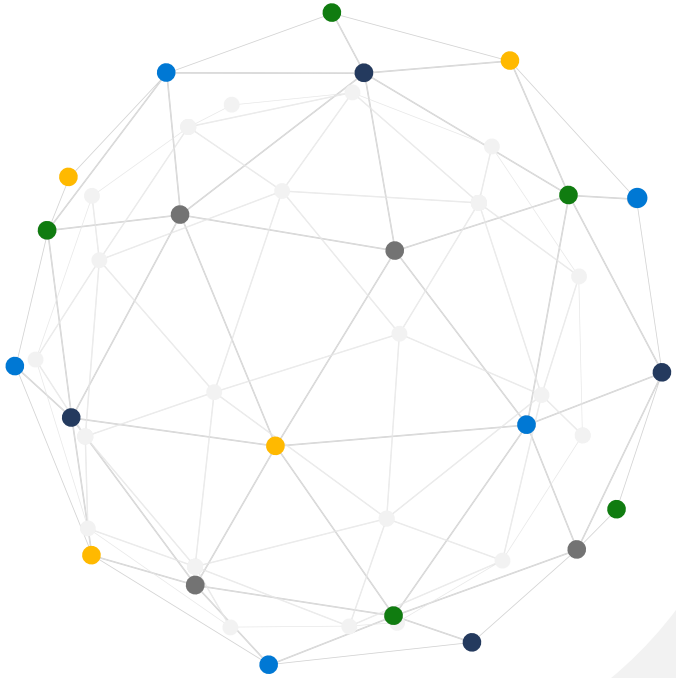
» https://aka.ms/PrivateAccessPreview

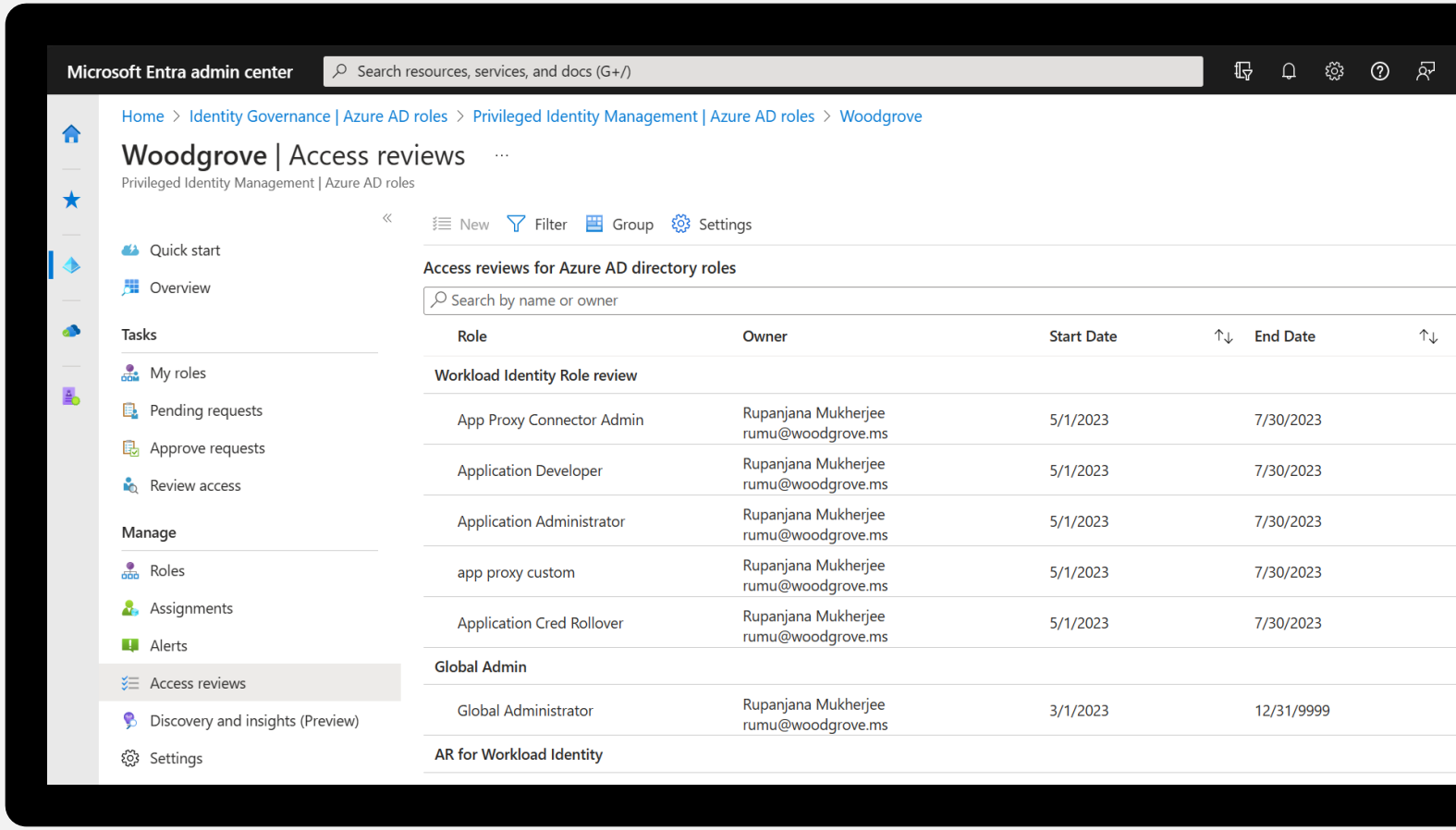
Microsoft Security

Q & A

All in one place:

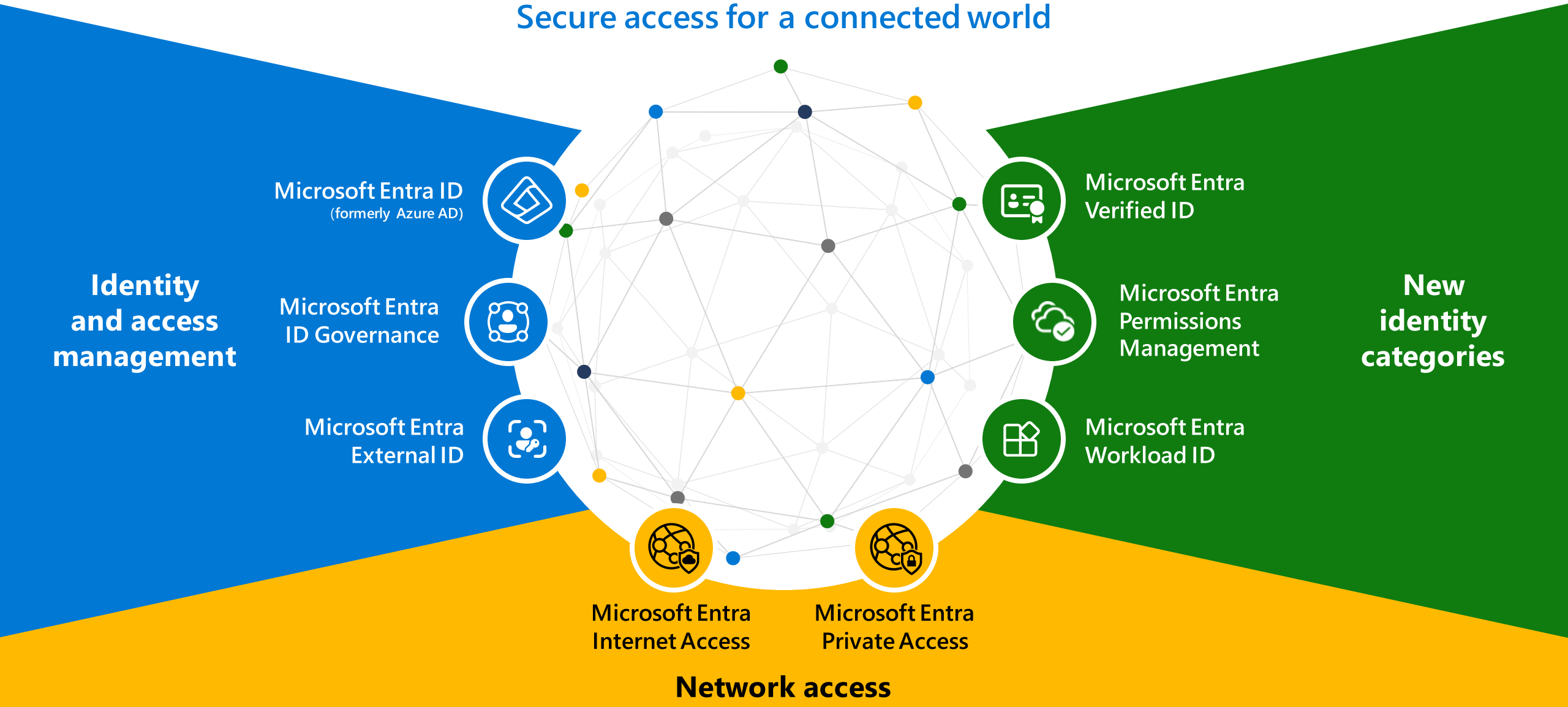
Microsoft Entra admin center





Microsoft Entra product family

Secure access for a connected world



Customer success stories across every industry

GBC

Financial services

"With conditional access policies to mandate that devices are enrolled in Azure AD, Intune, Privileged Identity Management, and multifactor authentication, creating a consolidated basis for Zero Trust is a straightforward process."

MINISTRY OF EDUCATION
TE TĀHUHU O TE MĀTAURANGA

Government

"That's the power of the solution for us. It supports the integration of legacy applications, in whatever state they are in, to talk to the new identity management component."

MVP HEALTH CARE

Healthcare

"Conditional Access in Microsoft Entra ID is essential for us. Having that level of security across domains, being able to lock down identities from countries we don't deal with but are known for malware, and using multifactor authentication improves our security posture and reduces stress for my team."

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Higher education

"With Microsoft Entra ID, we've built a robust ecosystem to ensure that people are who they say they are, using their attributes in multiple ways, like role-based access control. It makes everyone's life easier."

Walmart
Save money. Live better.

Retail and consumer goods

"Microsoft's commitment to improving security and the cloud is clear. It is the relationship that has allowed us to securely implement Microsoft Entra ID at our scale."

Teleperformance
each interaction matters

Professional services

"It was a eureka moment for our employees to sign in, see their tools, and not have to sign in to different systems for other tasks… there was no pushback—our Microsoft Entra ID rollout provided a fantastic experience."

SIEMENS

Manufacturing

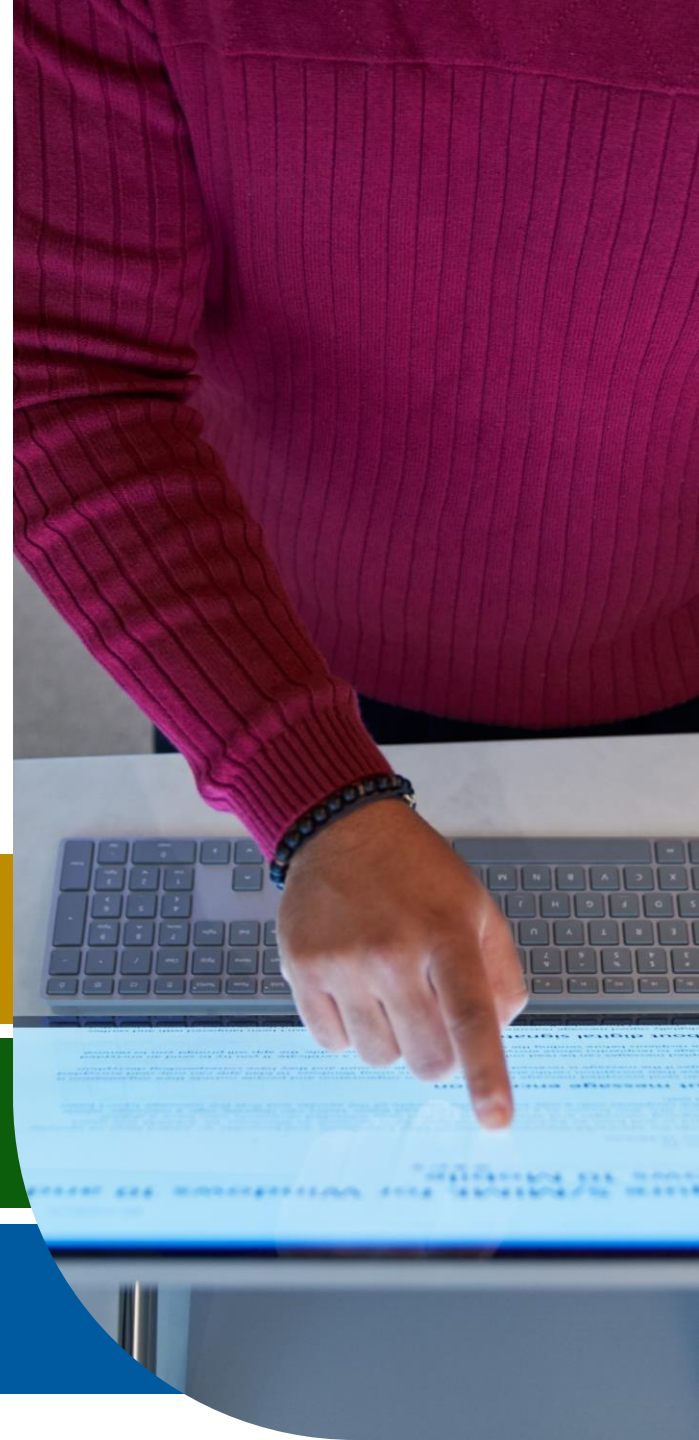
"There aren't too many vendors on the planet that can create a solution capable of providing consolidated insights into large, complex environments like ours. That's why we chose Microsoft."

Non-profit

"Enabling a Zero Trust approach with the strong authentication of Microsoft Entra ID and endpoint management of Microsoft Endpoint Manager ensures the high level of security and compliance Derby County Community Trust requires."

Best resources

- **Microsoft Security identity blog**
  aka.ms/identityblog
- **Microsoft Entra product family page**
  microsoft.com/entra
- **Microsoft Entra admin center**
  entra.microsoft.com
- **Product trials**
  aka.ms/securityfreetrial
- **Microsoft Entra ID product page**
  aka.ms/EntraID
- **Permissions Management product page**
  aka.ms/PermissionsManagement
- **External ID product page**
  aka.ms/External-ID
- **Microsoft Internet Access product page**
  aka.ms/InternetAccess
- **Microsoft Private Access product page**
  aka.ms/PrivateAccess
- **Verified ID product page**
  aka.ms/verifyonce
- **ID Governance product page**
  aka.ms/identitygovernance
- **Workload ID product page**
  Microsoft Entra Workload Identities
  Microsoft Security



Thank you.

Microsoft Entra and Security Copilot

Working together to protect at machine speed

Enable IT admins to **discover high risk users, overprivileged access** and **suspicious sign-ins**

Investigate identity risks and **help troubleshoot** daily identity tasks

Get instant risk summaries, steps to remediate, and **recommended guidance** for each identity at risk

Create Lifecycle Workflows to **streamline the process** of provisioning user access and **eliminate configuration gaps**

Benefits of AI for security

- **Efficiency:** Prioritization and automation
- **Speed:** Ability to understand unique cyberthreats in real time
- **Scale:** Ability to process large volumes of data