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Experts Live UK 2026

Security & Identity

Day 2 · Fri 12 June

04:15

Room ALT · 75 min



Zero Trust Network Access With Microsoft Entra Private Access

Ditch the old legacy VPN

T-Bone Granheden

Microsoft MVP

Niklas Bruhn

Microsoft MCT



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WELCOME TO THE STAGE

T-Bone Granheden

He/Him

Solution Architect
Microsoft MVP Intune & AVD

LinkedIn /in/mrtbone
Bluesky @tbone.se
Web Tbone.se



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WELCOME TO THE STAGE

Niklas Bruhn

He/Him

Solution Architect

LinkedIn [/in/niklas-bruhn](#)

Bluesky

Web [Ssmacadmin.com](#)



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Agenda

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Traditional VPN

Outdated and a false sense of security!

Zero Trust

How is this all related to Zero Trust?

Entra Global Secure Access

What is Entra Secure Global Access?

Entra Global Secure Access – Internet Access

What is Entra Secure Global Access – Private Access

Entra Global Secure Access – Microsoft Access

What is Entra Secure Global Access – Private Access

Entra Global Secure Access – Private Access

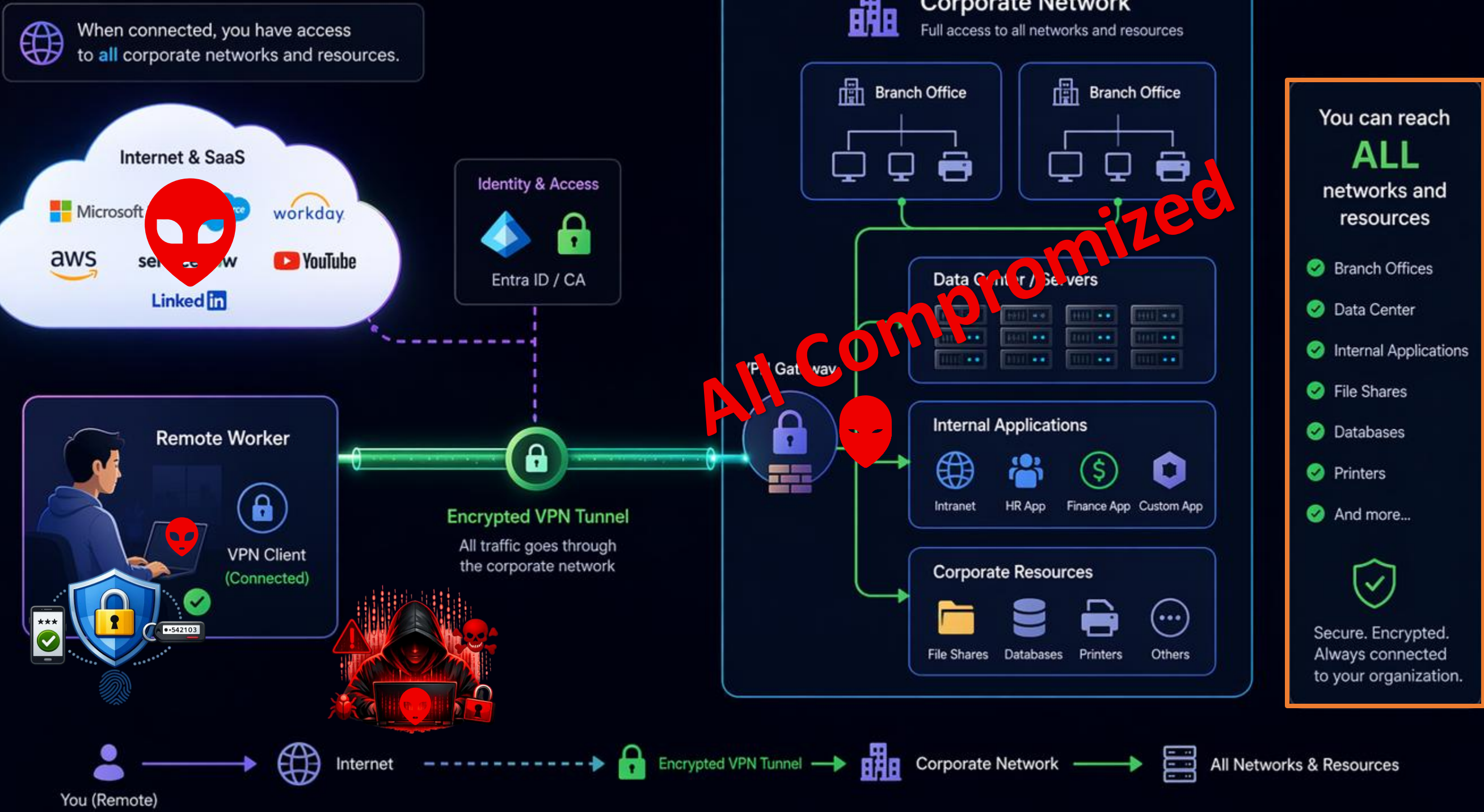
What is Entra Secure Global Access – Private Access



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CLASSIC VPN

Full Network Access



ZERO TRUST PRINCIPLES

MODERN IDENTITY & ACCESS SECURITY



Verify explicitly

Use strong authentication and verify every request.



Use least privilege

Limit access rights to only what is necessary.



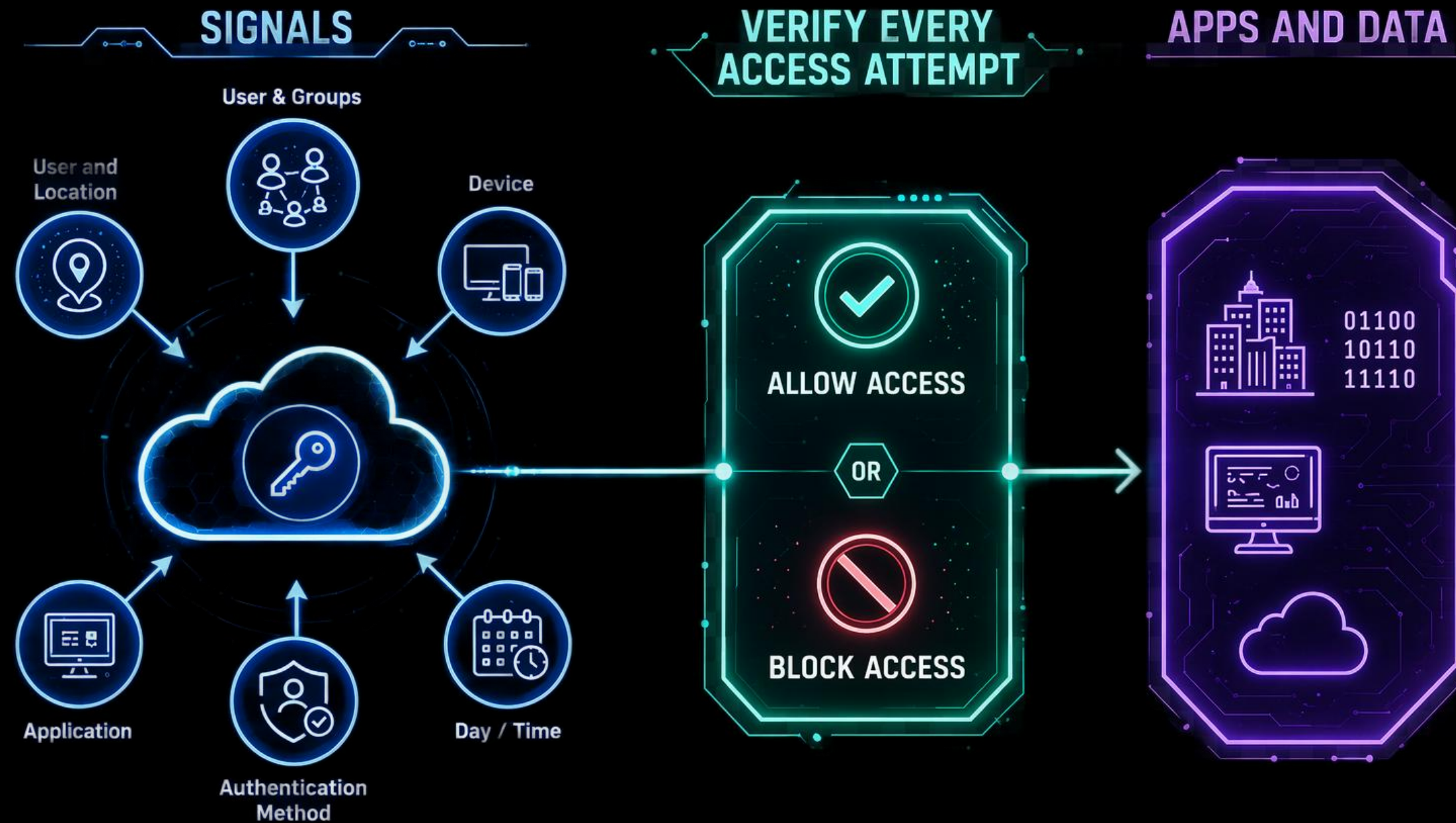
Assume breach

Continuously monitor, detect, and respond.



NEVER TRUST. ALWAYS VERIFY.

Zero Trust –Verify Explicitly - Conditional Access

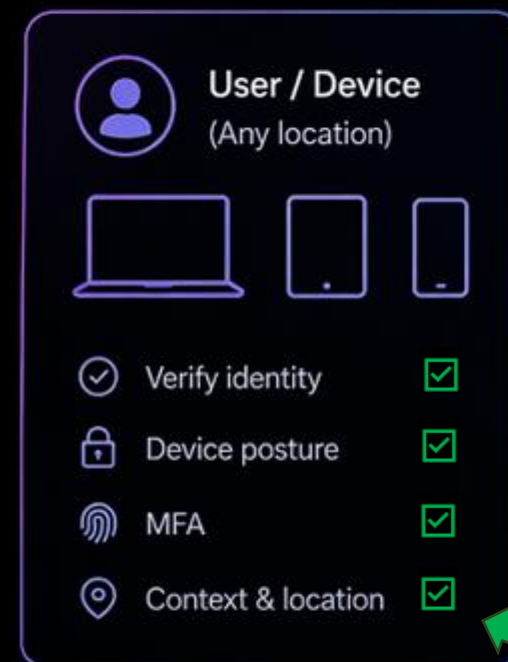


ZTNA with Microsoft Entra Global Secure Access - Private Access

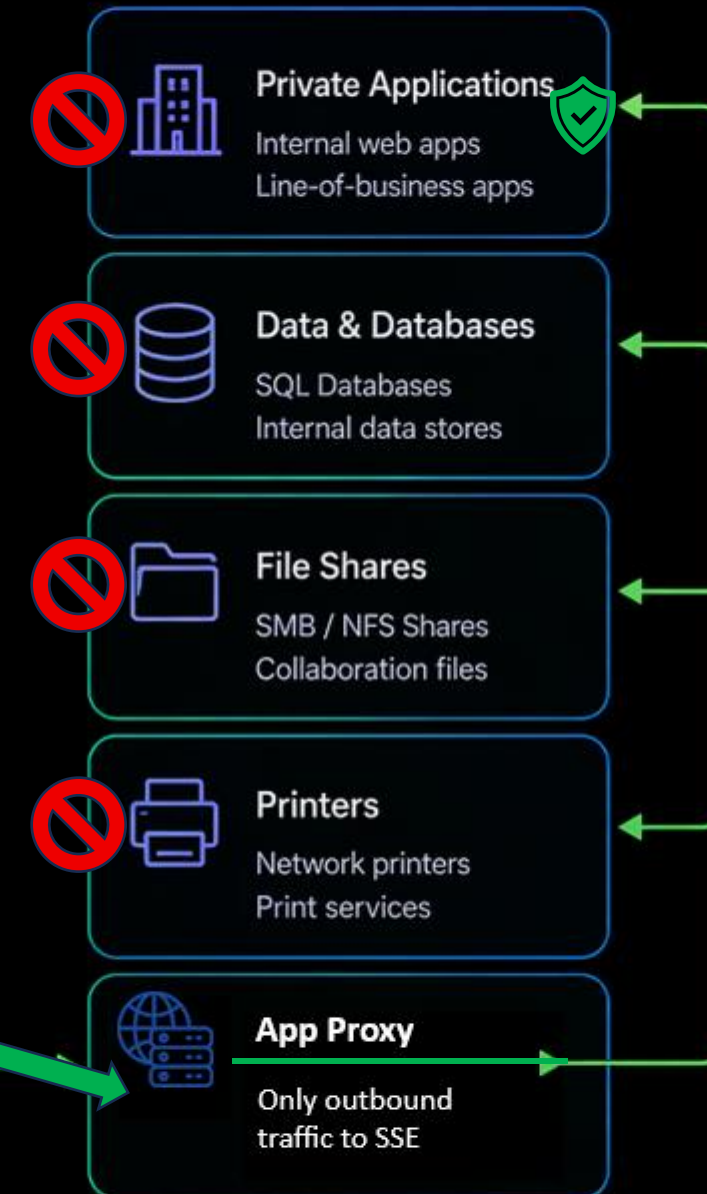
Private Access to Resources



Zero Trust access to private resources.
Never trust, always verify.



Secure Connection
Encrypted, Private
No network exposure



You can reach
ONLY
The applications
you are assigned
and only via proxy

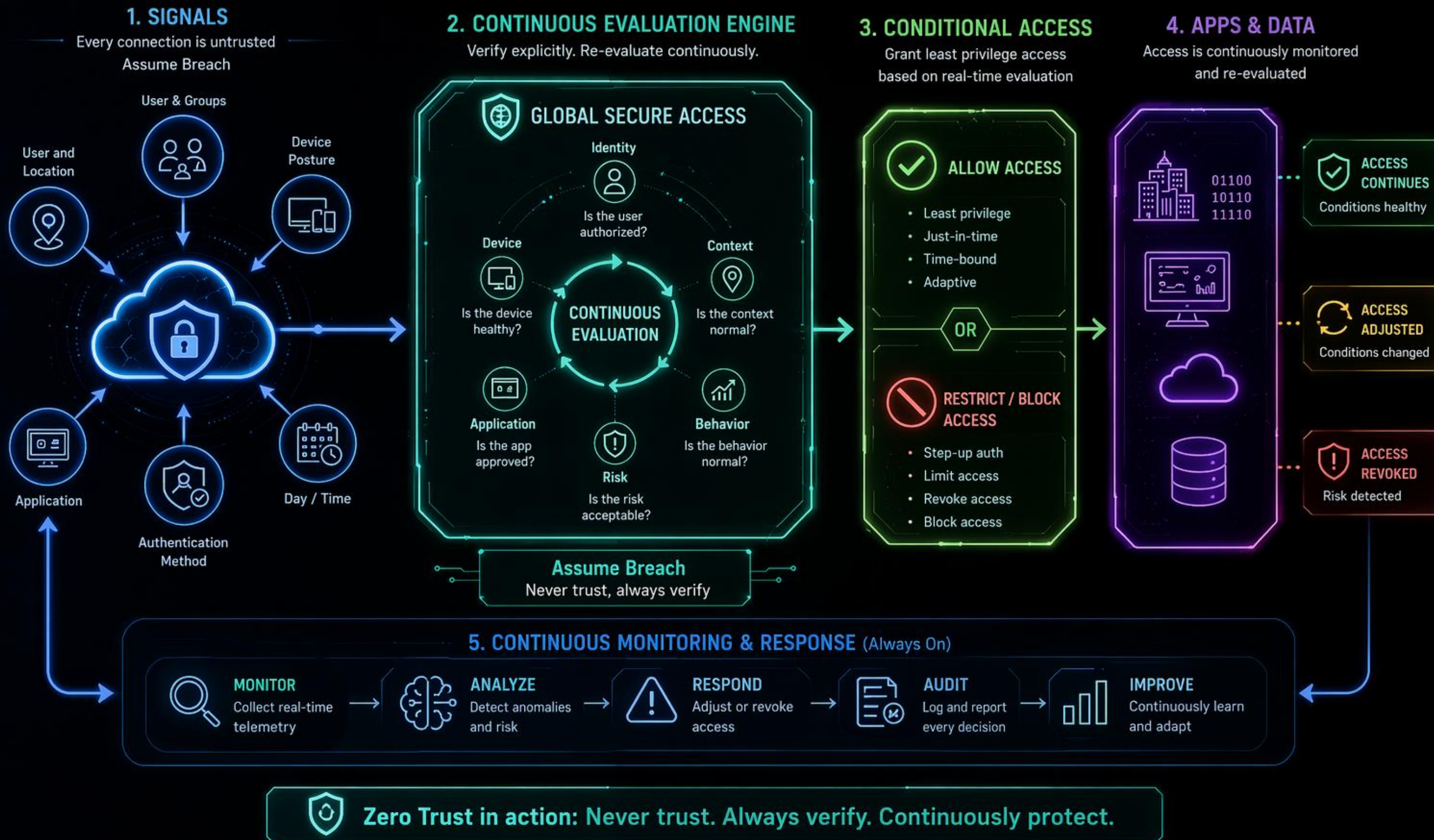
✓ Access to SSE
✓ Approved app
via App Proxy

✗ Branch offices
✗ Datacenter
✗ Other apps
✗ File & Printers
✗ Databases



Zero Trust – Assume Breach – Continuous Evaluation

Global Secure Access continuously evaluates every connection to prevent breaches



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- Implement Global Secure Access
- Install App Proxy
- Activate Private Access

Demo



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-  Home
-  What's new
-  Diagnose & solve problems
-  Favorites
-  Identity
-  Protection
-  Identity Governance
-  Verified ID
-  Permissions Management
-  Global Secure Access
-  Dashboard
-  Applications
-  Connect
-  Secure
-  Monitor
-  Settings

Home > Techlab >
Techlab ...



Welcome to Global Secure Access

Microsoft Entra Internet Access and Microsoft Entra Private Access are unified under Global Secure Access. Microsoft Entra Internet Access, secure access to all internet and software as a service (SaaS) apps and resources. Microsoft Entra Private Access is the new identity-centric Zero Trust Network Access (ZTNA) solution. [Learn more](#)

Activate

Learn more



Microsoft Entra Suite

Learn more



Microsoft Entra Private Access

Learn more



Microsoft Entra Internet Access

Microsoft Entra Suite

Entra ID Governance

- ✓ Access Reviews
- ✓ Lifecycle Workflows
- ✓ Entra ID Protection



Secure Access



Entra Internet
Access



Entra Private
Access



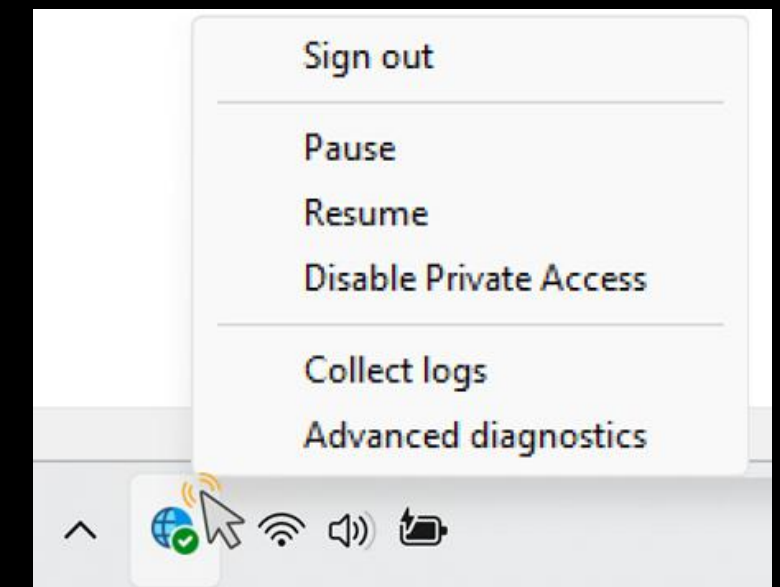
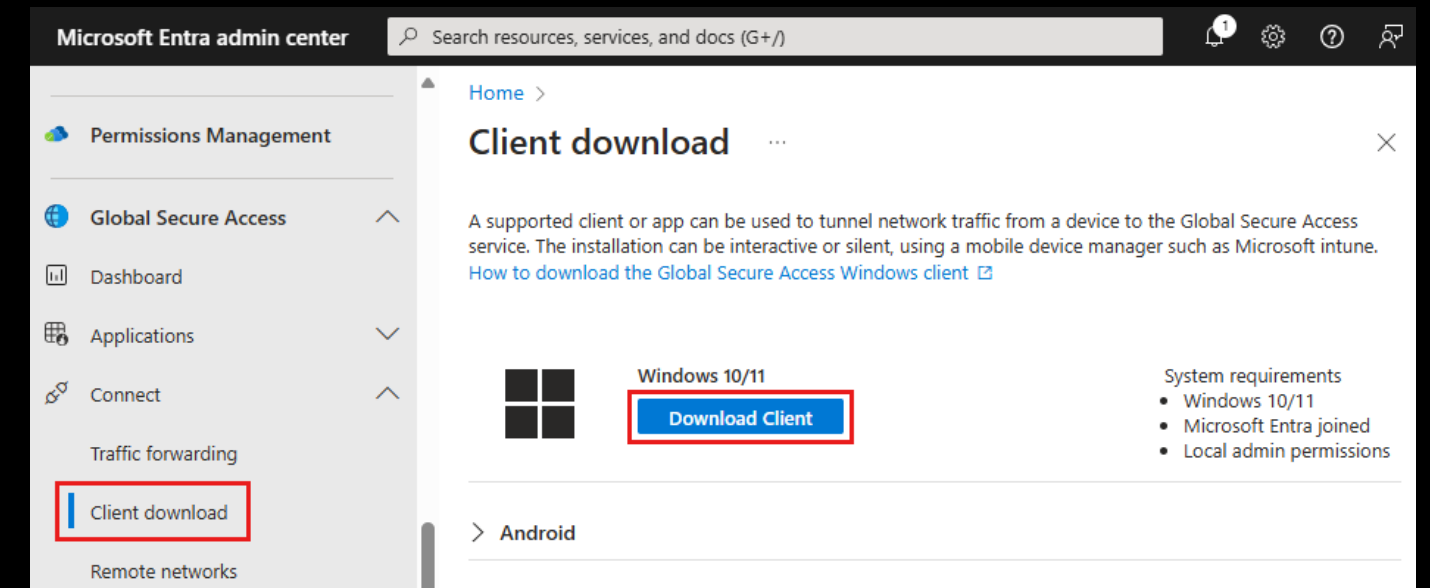
Entra
Verified ID

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Entra Global Secure Access – Windows Client

• Global Secure Access Client



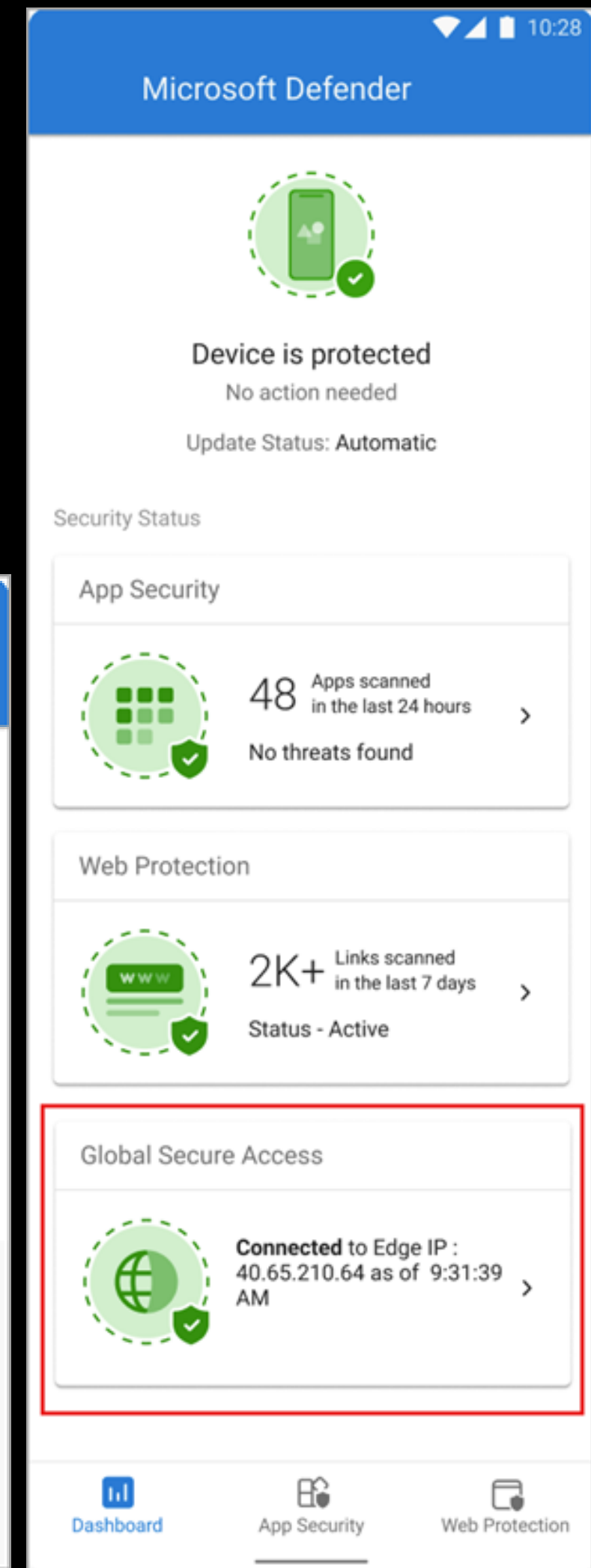
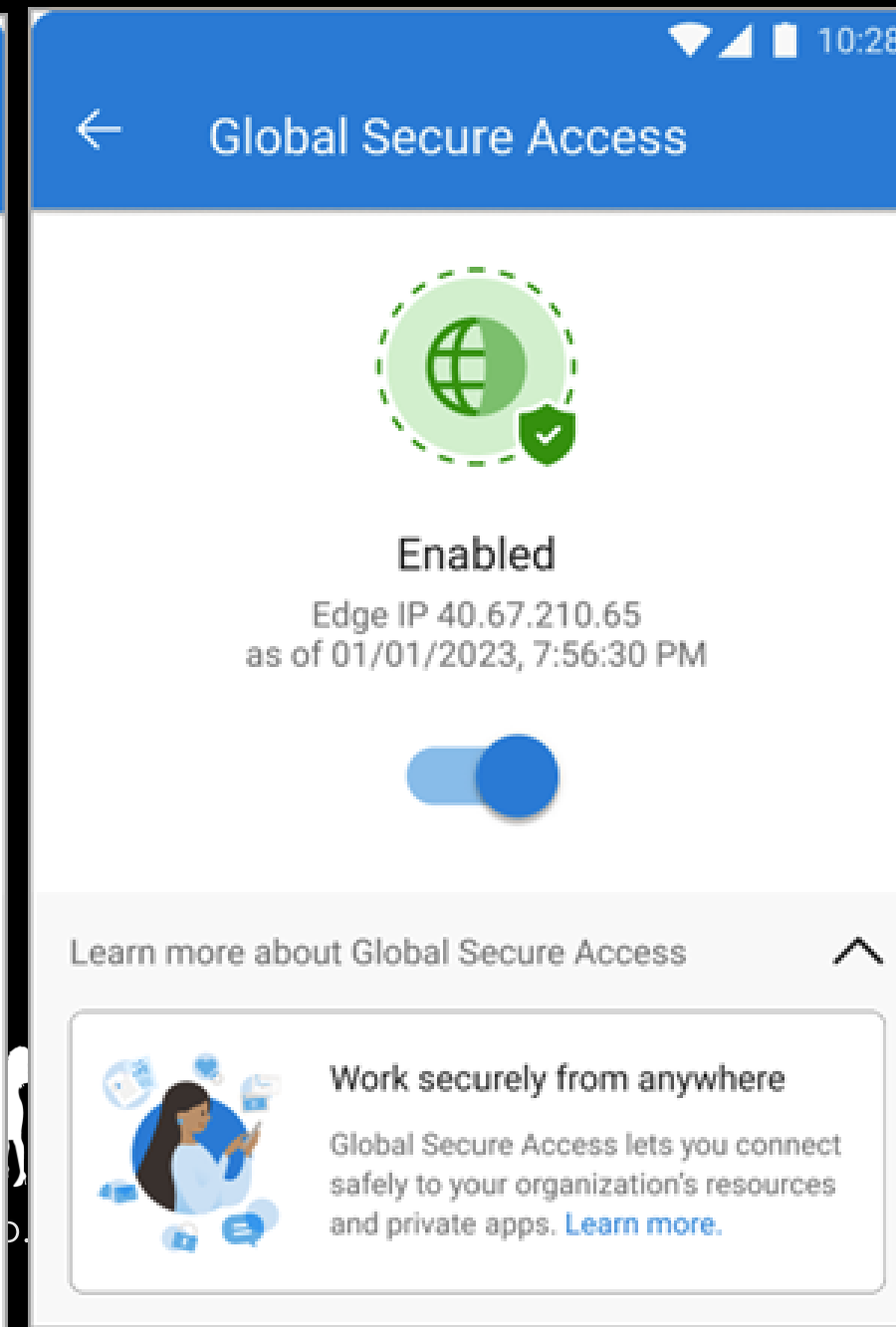
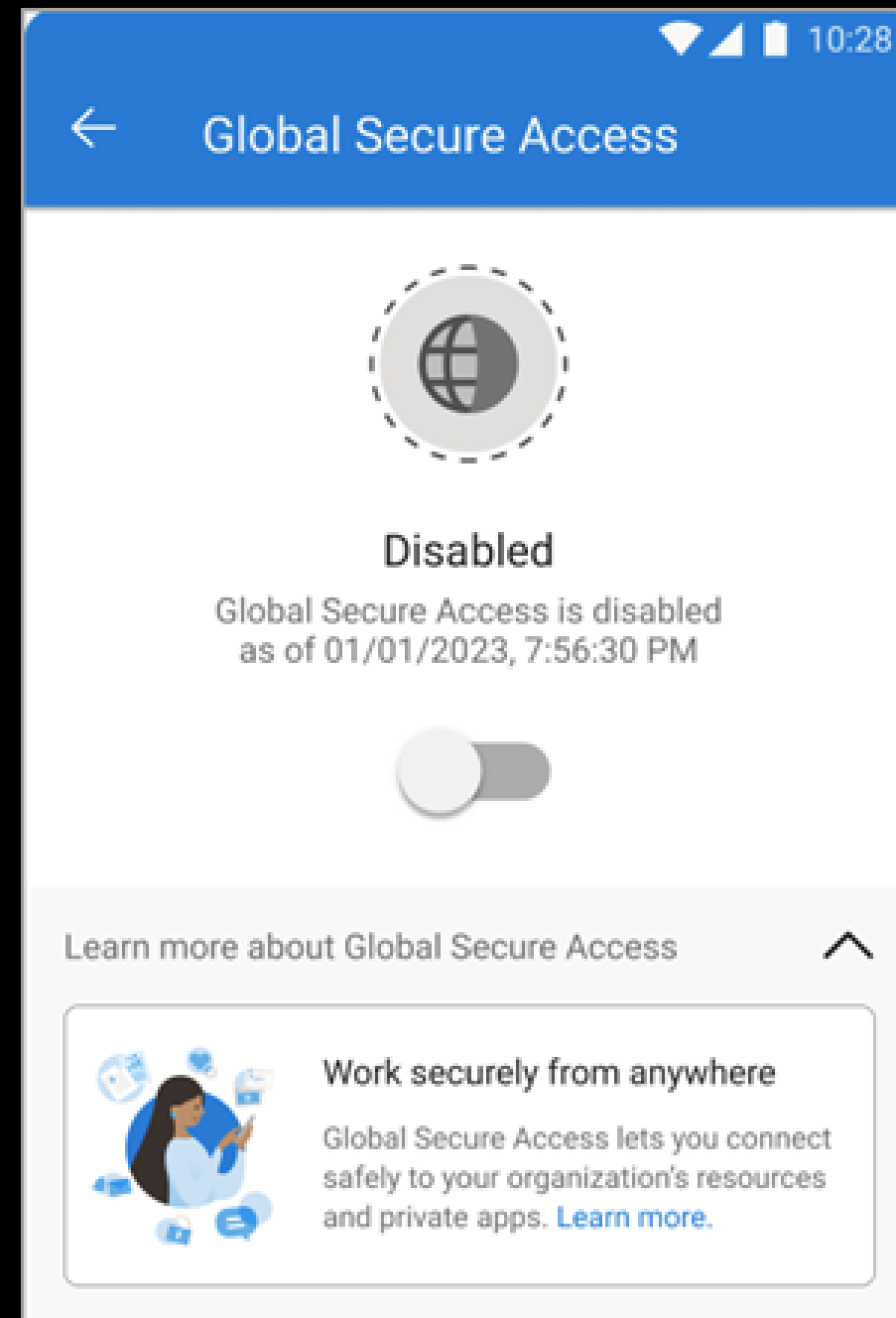
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Entra Global Secure Access – Android Client



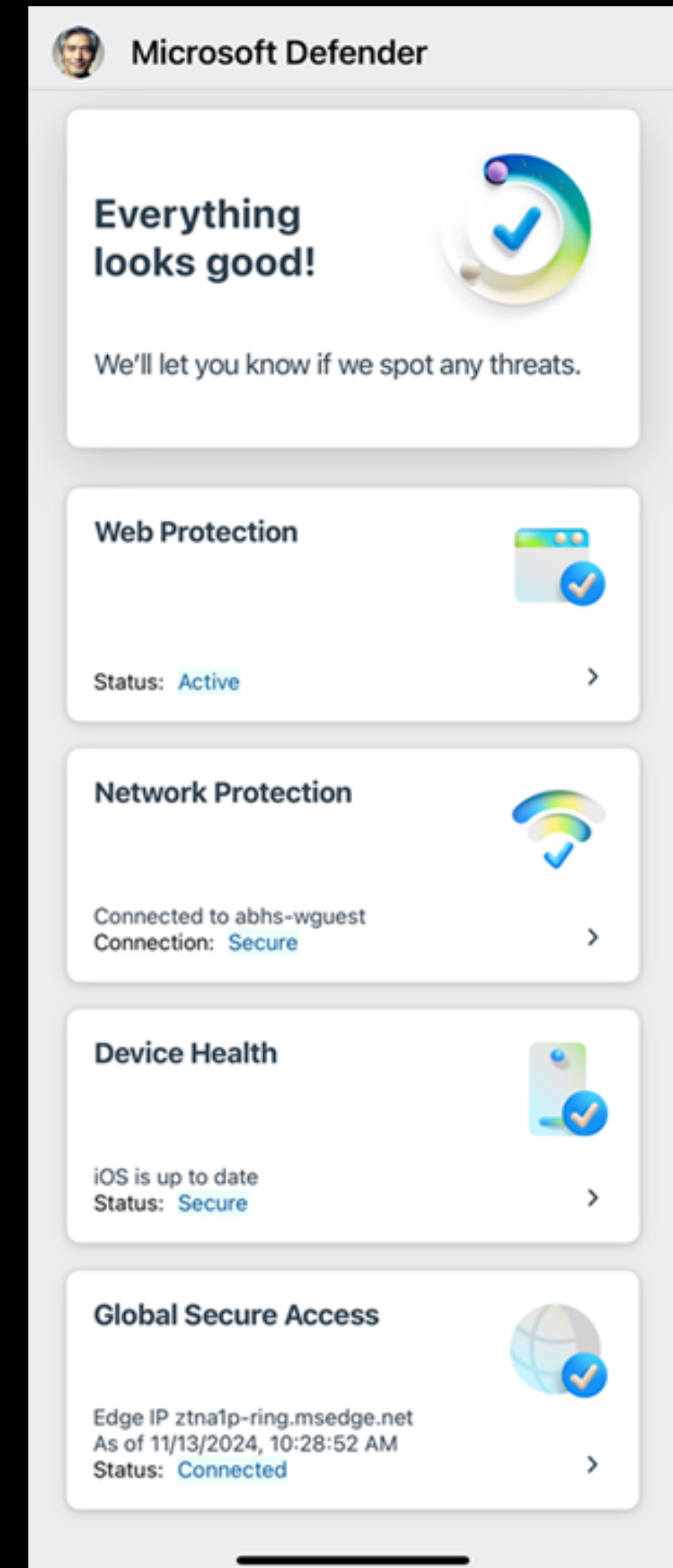
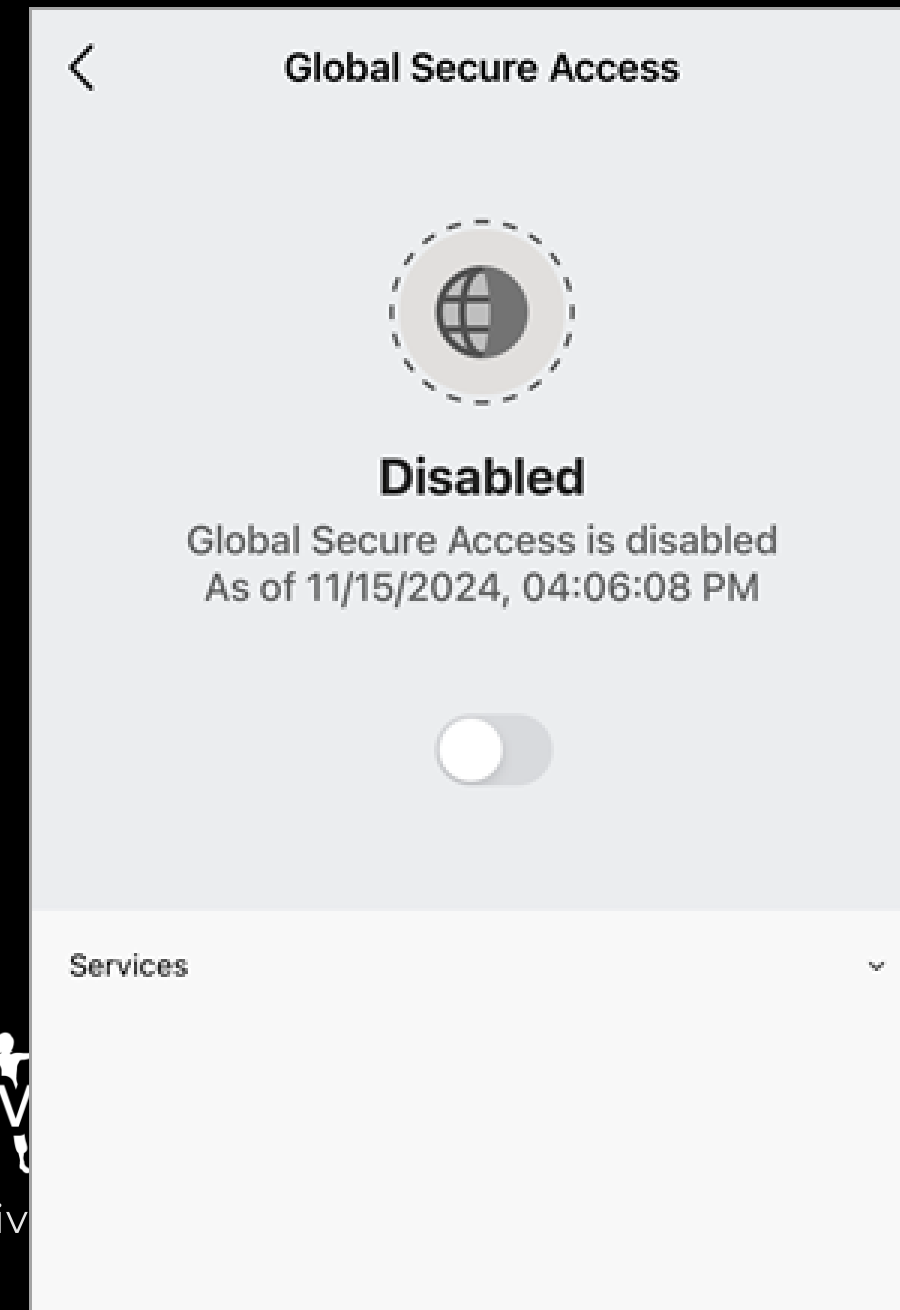
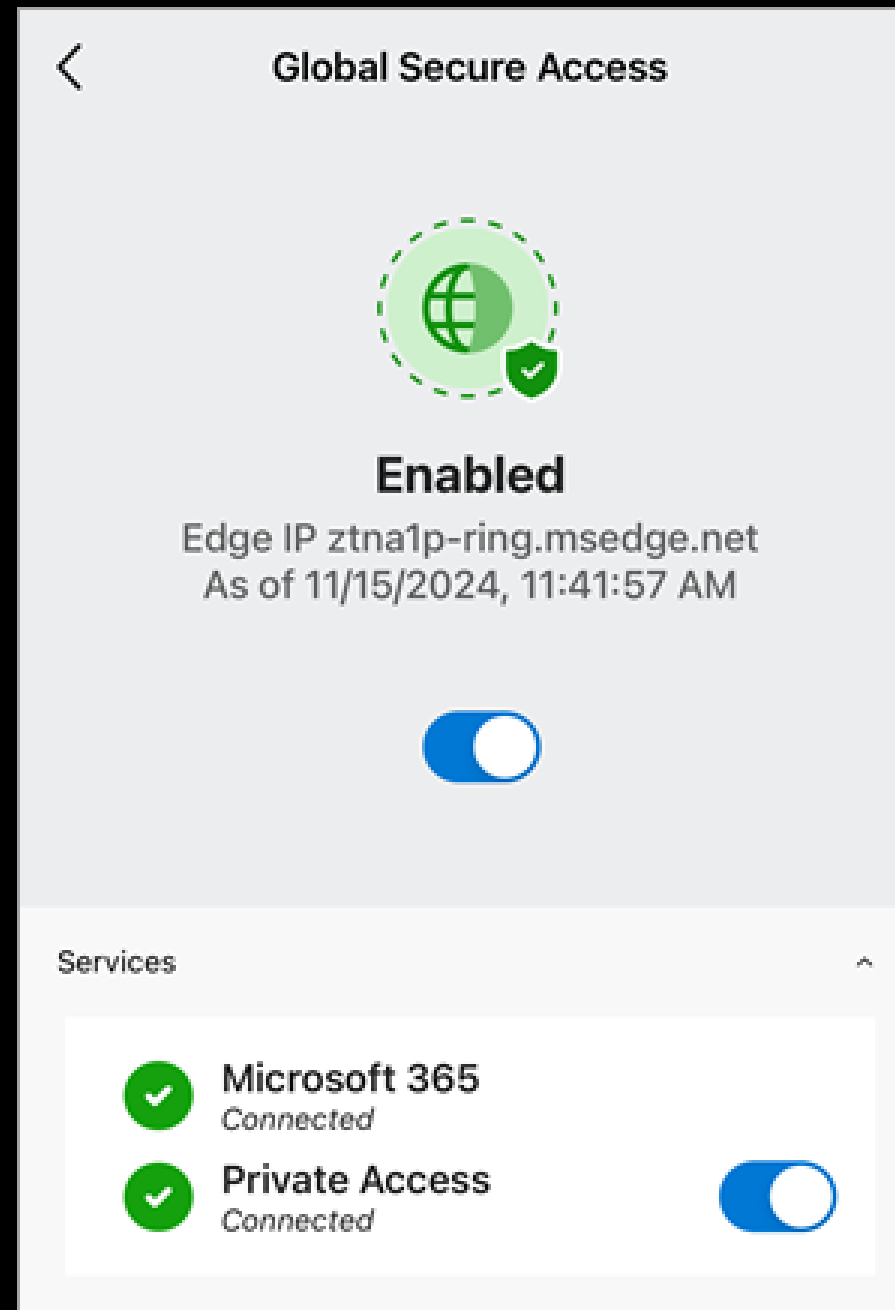
Defender for Endpoint



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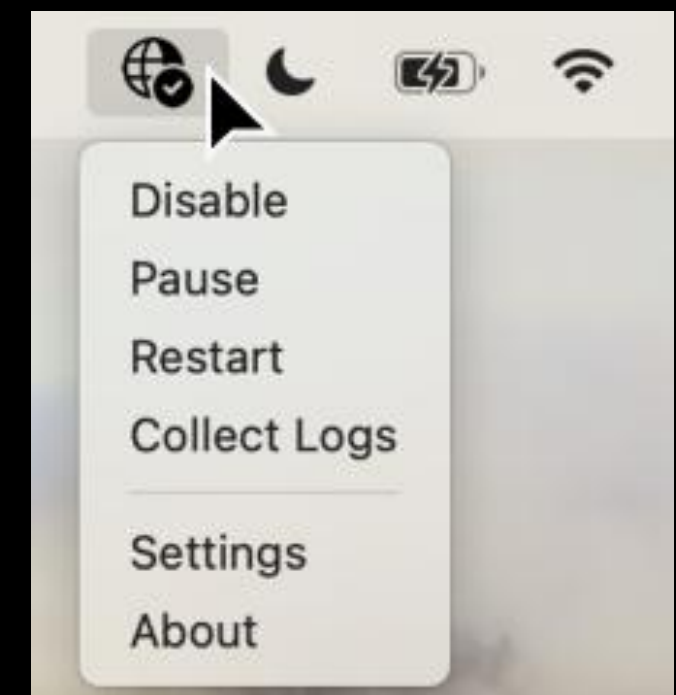
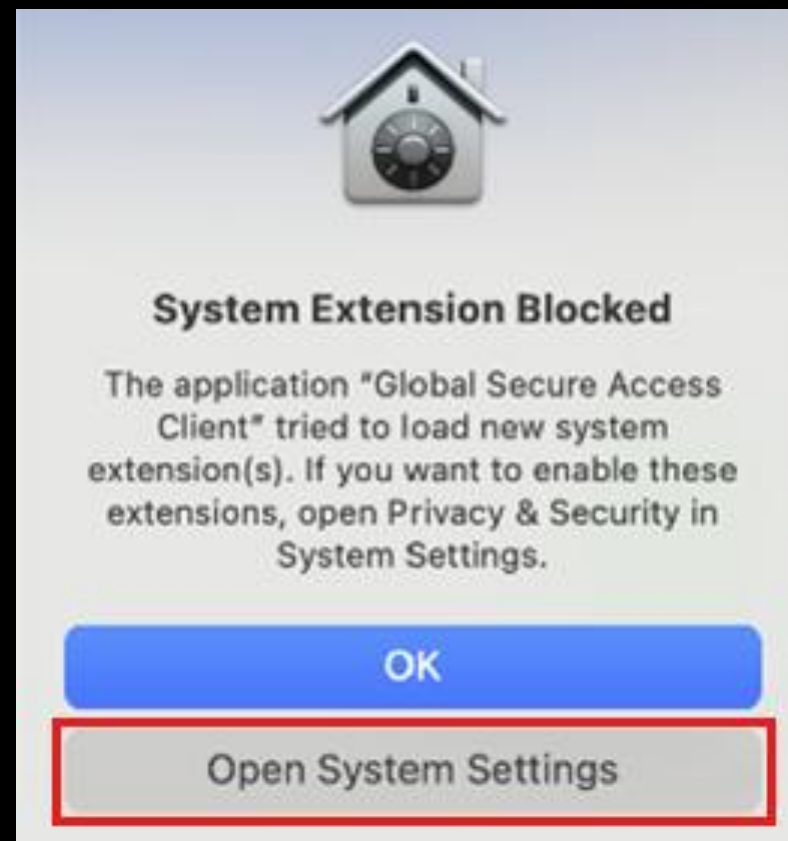
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Entra Global Secure Access – iOS Client

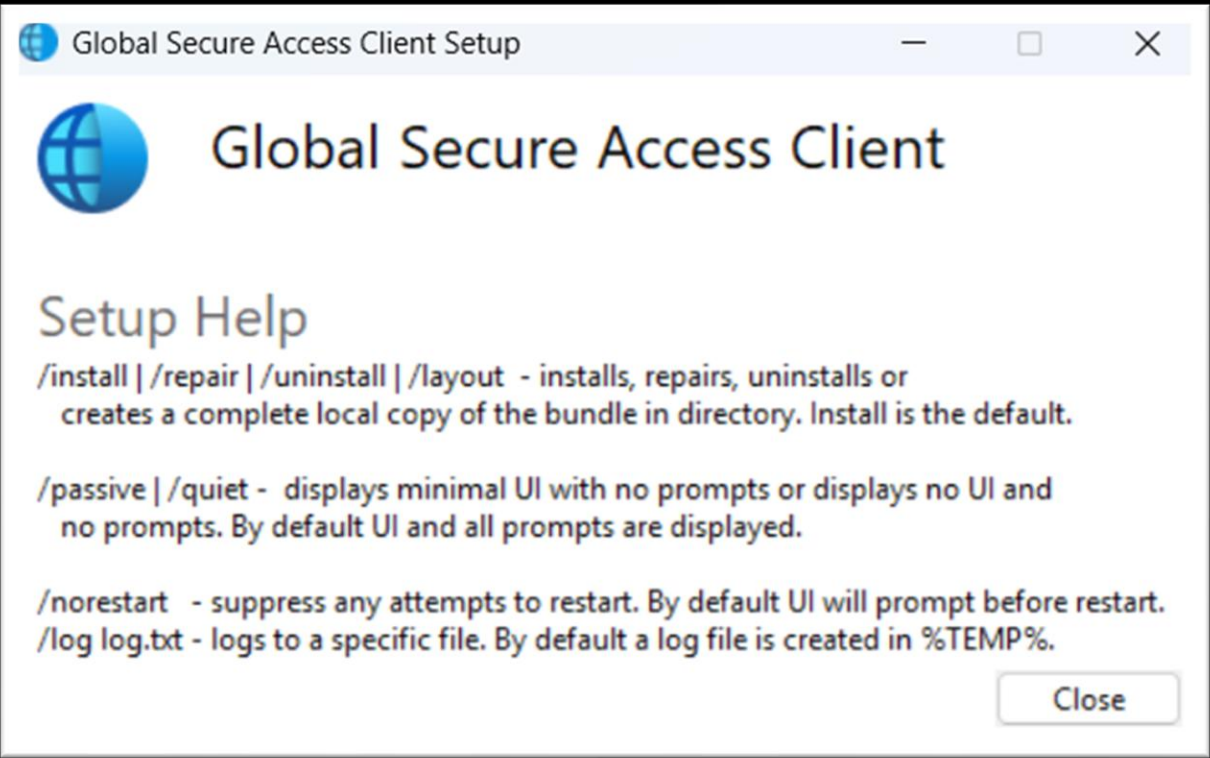


Entra Global Secure Access – MacOS Client

- Global Secure Access Client



Entra Global Secure Access – Intune Deployment



```
PS C:\Intune\IntuneWinUtil> .\IntuneWinAppUtil.exe
Please specify the source folder: c:\intune\globalsecure
Please specify the setup file: GlobalSecureAccessClient.exe
Please specify the output folder: c:\intune
Do you want to specify catalog folder (Y/N)?n
```

Program Edit	
Install command	globalsecureaccessclient.exe /install /quiet
Uninstall command	globalsecureaccessclient.exe /uninstall /quiet
Installation time required (mins)	60
Allow available uninstall	Yes
Install behavior	System
Device restart behavior	App install may force a device restart
Return codes	0 Success

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- Global Secure Access Client

Demo



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Microsoft Security Service Edge (SSE) Solution

Deep Integration with Identity



Integrated fabric combining identity and network protection with Conditional Access

Fast and consistent access at global scale



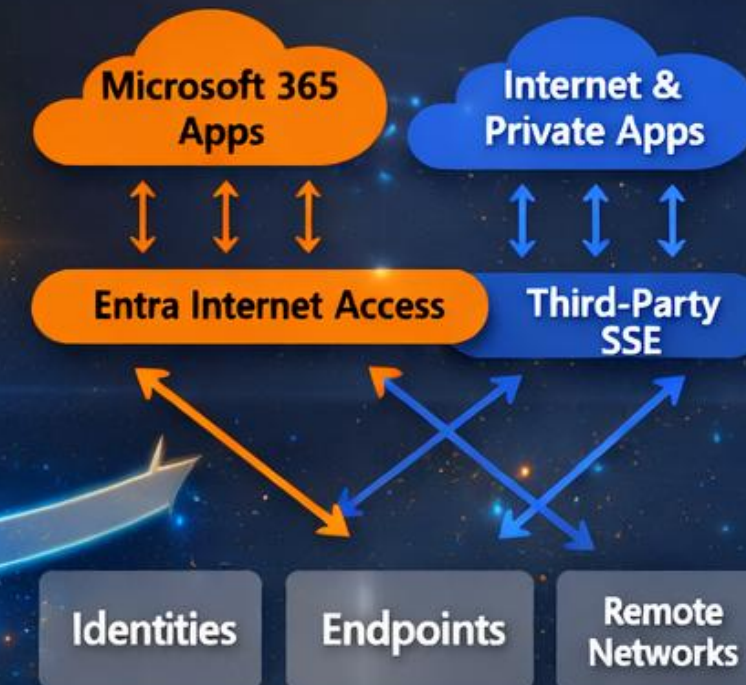
80+
Azure Regions

190+
Edge Locations

500K+
Miles of Fiber

4,000+
Peering Partners

Enhance Security & Visibility



Unique platform for comprehensive protection

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Microsoft Entra Internet Access

Global Secure Access



Secure Web Gateway with Allow & Block Policies

Entra Global Secure Access Internet Access – Security Profiles

Security profiles

Security profiles

Baseline profile

Edit profile

Refresh

Got feedback?

The baseline profile is a default Security profile that applies to all Internet traffic, including Remote Network traffic, and does not need to be linked to a Conditional Access policy to take effect.

Profile name	Priority	Policy count	Type	Action	State
> Baseline profile	65000	2			enabled
Blocked sites	110		web filtering	block	
All websites	65000		web filtering	allow	

Add a rule to your policy.

Name*

Blocked Categories

Destination type*

webCategory

Search

Search

Alcohol And Tobacco
Selected

Child Abuse Images
Selected

Criminal Activity
Selected

Dating And Personals
Liability

Selected items

Alcohol And Tobacco
Liability

Remove

Child Abuse Images
Liability

Remove

Criminal Activity
Liability

Remove

Gambling
Liability

Remove

Hacking
Liability

Remove

Entra Global Secure Access Internet Access – Conditional Access

Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies. [Learn more](#)

Name *
CA10 - GRANT - Privilege Surfers ✓

Assignments

Users

[Specific users included](#)

Target resources

[All internet resources with Global Secure Access](#)

Network

[Not configured](#)

Conditions

[0 conditions selected](#)

Access controls

Grant

[0 controls selected](#)

Session

[0 controls selected](#)

Control access based on all or specific apps, internet resources, actions, or authentication context. [Learn more](#)

Select what this policy applies to

Resources (formerly cloud apps) ▼

Include Exclude

- ☐ None
- ☒ All internet resources with Global Secure Access
- ☐ All resources (formerly 'All cloud apps')
- ☐ Select resources

i To create a Conditional Access policy targeting members in your tenant with Global Secure Access (GSA) as a resource, make sure GSA is deployed in your tenant. [Learn more](#)

... > New > Security profiles > Conditional Access

New

Conditional Access policy

Name *

CA10 - GRANT - Privilege Surfers ✓

Assignments

Users

[Specific users included](#)

Target resources

[All internet resources with Global Secure Access](#)

Network

[Not configured](#)

Conditions

[0 conditions selected](#)

Access controls

Grant

[0 controls selected](#)

Session

[0 controls selected](#)

Enable policy

[Report-only](#) **On** Off

Create

Session

☐ Use app enforced restrictions

i This control only works with supported apps. Currently, Office 365, Exchange Online, and SharePoint Online are the only cloud apps that support app enforced restrictions. [Learn more](#)

☐ Use Conditional Access App Control

☐ Sign-in frequency

☐ Persistent browser session

! Persistent browser session only works correctly when All cloud apps is selected. Please change your cloud apps selection. [Learn more](#)

☐ Customize continuous access evaluation

☐ Disable resilience defaults

☐ Require token protection for sign-in sessions (Preview)

☒ Use Global Secure Access security profile

Privilege Surfers ▼

Select

Microsoft Entra Global Secure Access for M365



Entra Global Secure Access Internet Access – Conditional Access

Techorama-365 ...

Conditional Access policy

Delete View policy information

Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies. [Learn more](#)

Name *
Techorama-365

Assignments

Users ^①
[Specific users included](#)

Target resources ^①
1 app included

Network **NEW** ^①
[Any network or location and 1 excluded](#)

Conditions ^①
1 condition selected

Control access based on all or specific network access traffic, cloud apps or actions. [Learn more](#)

Select what this policy applies to
Cloud apps

Include Exclude

☐ None
☐ All cloud apps
☒ Select apps

Edit filter
None

Select
Office 365

Office 365 ^① ...

Delete View policy information

Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies. [Learn more](#)

Name *
Techorama-365

Assignments

Users ^①
[Specific users included](#)

Target resources ^①
1 app included

Network **NEW** ^①
[Any network or location and 1 excluded](#)

Conditions ^①
1 condition selected

Access controls

Grant ^①

Control access based on signals from conditions like risk, device platform, location, client apps, or device state. [Learn more](#)

User risk ^①
User risk level is the likelihood that the user account is compromised.
[Not configured](#)

Sign-in risk ^①
Sign-in risk level is the likelihood that the sign-in session is compromised.
[Not configured](#)

Insider risk (Preview) ^①
Insider risk assesses the user's risky data-related activity in Microsoft Purview Insider Risk Management.
[Not configured](#)

Device platforms ^①
[Not configured](#)

Locations ^①
[Any network or location and 1 excluded](#)

Control user access based on their network or physical location. [Learn more](#)

Configure ^①
Yes No

Include Exclude

Select the locations to exempt from the policy

☐ All trusted networks and locations
☒ All Compliant Network locations (Preview)
☐ Selected networks and locations

Grant

Control access enforcement to block or grant access. [Learn more](#)

☒ Block access
☐ Grant access

Warning: All Compliant Network locations" does not work with "Require app protection policy" or "Require approved client app" grant controls. [Learn more](#)

Info: 'Locations' condition is moving! Locations will become the 'Network' assignment, with a new Global Secure Access feature - 'All Compliant network'



Killing the Token Theft Attack

M365 / Internet Access



WITHOUT GSA
Classic AiTM
Attack Succeeds



User authenticates
to M365



AiTM proxy
steals session
token



Attacker replays
token from
external IP



M365 accepts token
(no network check)



WITH GSA
Compliant Network
Check Binds Token
to GSA PoP



User authenticates
through GSA
client



M365 receives
request with
source IP tag



CA: Compliant
Network Check
enforced



Token bound to
GSA network —
replay blocked

How to Enable Compliant Network Check (3 Steps)

- 1 Entra Portal → Global Secure Access → Session Management → Enable 'Microsoft traffic' profile
- 2 Deploy GSA client via Intune to all managed devices — Client is idle, waiting for policies
- 3 Conditional Access Policy → Conditions → Networks → Include 'All compliant network locations' - Client activates and traffic is secured



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- Global Secure Access M365
- Global Secure Access Internet

Demo



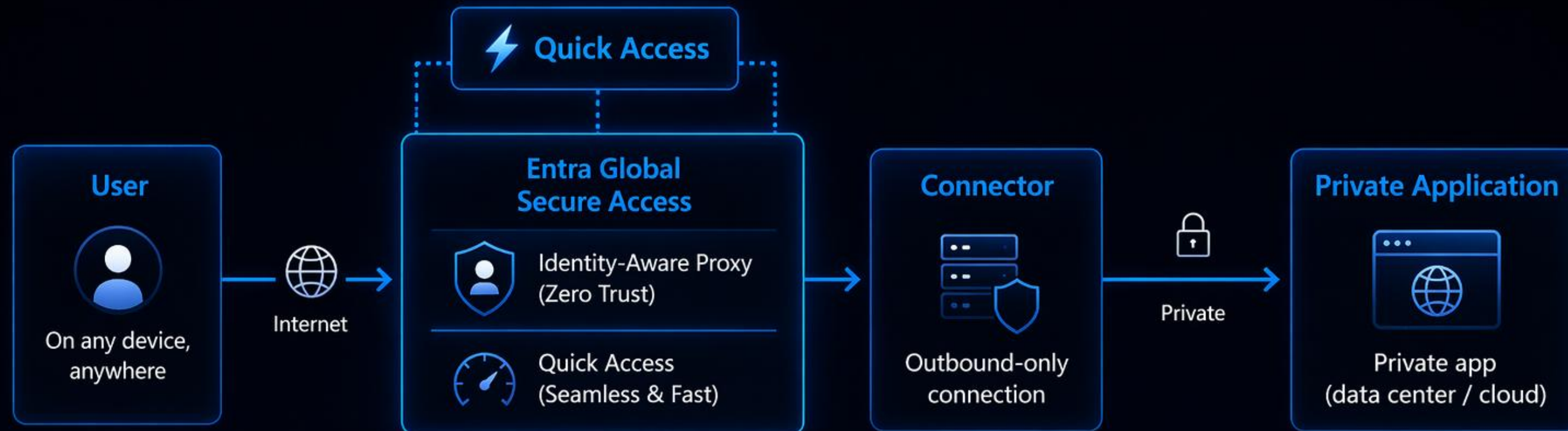
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Entra Global Secure Access Private Access with **QUICK ACCESS**

Entra Global Secure Access

Default access to private resources with zero trust and a frictionless user experience.



How it works



1 User signs in to access the app

2



2 Entra Global Secure Access verifies identity and evaluates access

3



3 Quick Access provides seamless, optimized **Default Connectivity**

4



4 Traffic is securely routed via the Connector

5



5 User securely accesses the private **Default Apps and Services**

✓ Zero trust access

✓ No VPN required

✓ Fast & seamless experience

✓ Granular access control

✓ Built-in security & monitoring

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Demo

- Add Quick Access
- Verify VPN connectivity
- Disconnect VPN
- Verify GSA connectivity



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Entra Global Secure Access Private Access to a Custom App via Proxy

Global Secure Access

Users securely access internal custom applications from anywhere
without exposing apps to the internet.



- 1 User signs in to Entra ID
- 2 Global Secure Access validates user and device policies
- 3 Traffic is proxied through the Service Edge to your private app
- 4 User securely accesses the custom app over a private connection

How to Enable Private Access to a Custom App (4 Steps)

- 1 **Configure Access Profile**
Entra Portal → Global Secure Access → Access profiles → Create new Access profile
- 2 **Add Private Application**
Define your custom app, internal FQDN, protocol (HTTP/HTTPS), and internal port
- 3 **Assign Access**
Assign users and groups, and configure Conditional Access policies
- 4 **Deploy (Automated)**
No client required. Entra Service Edge handles secure proxy access



No VPN required



Zero trust access



Private apps stay hidden



Conditional Access enforced



Full visibility and monitoring



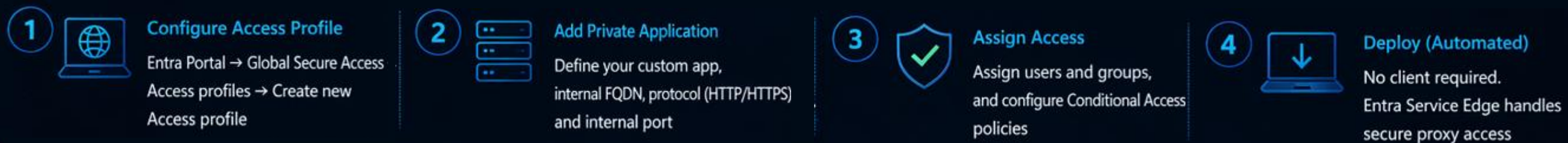
Entra Global Secure Access Private Access To Custom Apps

Global Secure Access

Users securely access internal custom applications from anywhere
without exposing apps to the internet.



How to Enable Private Access to a Custom App (4 Steps)



No VPN required



Zero trust access



Private apps stay hidden



Conditional Access
enforced



Full visibility
and monitoring

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- Add custom web app
- Add custom client server app
- Verify connectivity

Demo



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New

Conditional Access policy

Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies.
[Learn more](#)

Name *

Example: 'Device compliance app policy'

Assignments

Users

All users

Target resources

1 app included

Network

NEW

Not configured

Conditions

0 conditions selected

Control access based on all or specific network access traffic, cloud apps or actions.
[Learn more](#)

Select what this policy applies to

Cloud apps

Include

Exclude

None

All cloud apps

Select apps

Edit filter

None

Select

Tbone-Fileserver

Tbone-Fileserver

664a3ee0-9555-40b1-ae8d-2fd0250e4537

Home > Enterprise applications > Tbone-Fileserver | Network access pr

New

Conditional Access policy

Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies.
[Learn more](#)

Name *

Example: 'Device compliance app policy'

Assignments

Users

All users

Target resources

1 app included

Network

NEW

Not configured

Conditions

0 conditions selected

Access controls

Grant

0 controls selected

Grant

Control access enforcement to block or grant access. [Learn more](#)

Block access

Grant access

Require multifactor authentication

"Require authentication strength" cannot be used with "Require multifactor authentication".
[Learn more](#)

Require authentication strength

Passwordless MFA

To enable all authentication strengths, configure cross-tenant access settings to accept claims coming from Microsoft Entra tenants for external users. Authentication strengths will only configure second factor authentication for external users.
[Learn more](#)

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Entra Global Secure Access – Private Sensor for Domain Controller

Users securely access on-premises AD Domain Controllers from anywhere
without exposing them to the internet.



Use Cases



No VPN required



Zero trust access
Secure remote access to Kerberos, NTLM, LDAP



Maximize security of on-premises Active Directory



Protect against identity-based attacks



Journey to **GSA** - Decision to move

Traditional VPN

Microsoft Entra **GSA**



Complex, requires networking experts to configure and maintain



Maintenance



Simple to configure and maintain with basic networking knowledge and Entra experience



Not designed for Zero Trust and challenging to implement



Zero Trust



Architected from the ground up for Zero Trust



Minimal native security features for authentication



Security



Native to Entra, secured by Conditional Access and Entra SSO With Least Privileges

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Thank you.

Questions?

Feedback & Lunch time!



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Zero Trust Network Access with Microsoft Entra Private Access

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Thank you.

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