



Entra Private Access



**Zero-Trust Network Access to any legacy
resources with the Power of Entra Private Access**



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Your hosts



Pim Jacobs

Principal Consultant
InSpark



Ronny de Jong

Security Technology Specialist,
Microsoft



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Pim Jacobs

Principal Consultant @ InSpark &
Microsoft Security MVP

- Focus on the full Microsoft Entra portfolio
- One of the organisers of the **Dutch Microsoft Entra Community**, join our meetup page!



- Blog: identity-man.eu
- Skiing | Soccer | F1 | Family time



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Security Technology
Specialist
CCSP | CISSP



Ronny
de Jong



BBQ | Beer | CrossFit | Fishing | F1 | Family time



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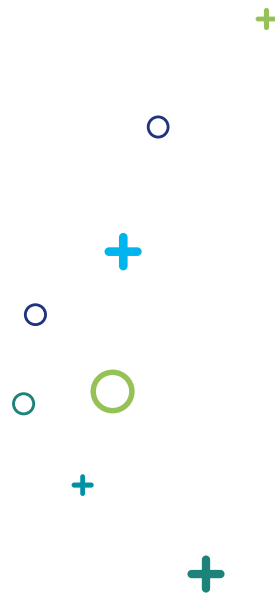


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What are we going to discuss?

1. The why
2. What does GSA consist of
3. What is Entra Private Access
4. From Quick Access...
5. ...to Per-App access
6. Next Steps & Takeaways



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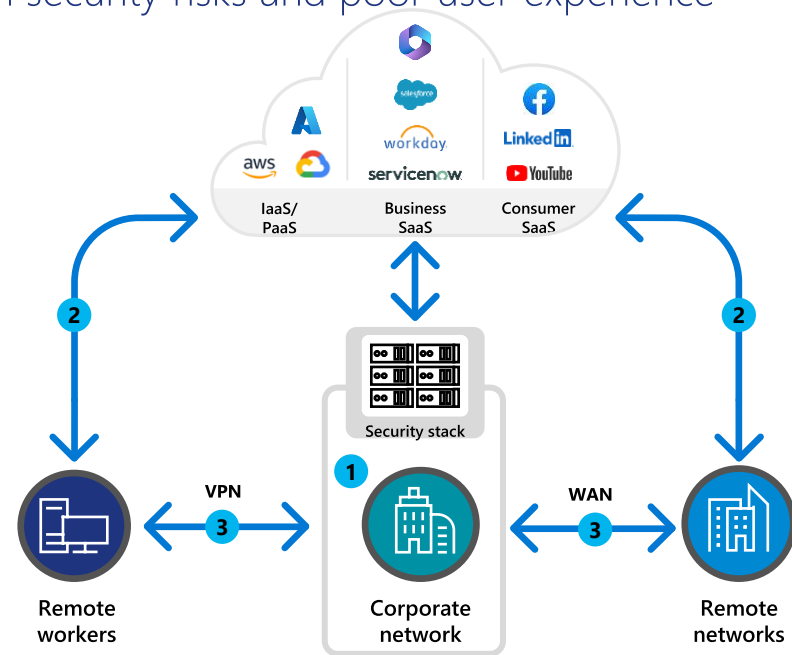
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1. Rise of cloud & Hybrid Workforce

The rise of cloud workloads and mobile workers is increasingly straining traditional corporate networks and network security models, resulting in security risks and poor user experience

Challenges with conventional approaches

- 1 Dramatic traffic increase strains network capacity and on-prem security stack. Sub-optimal user experience on account of traffic hair-pinning
- 2 Users circumvent IT controls and access resources directly
- 3 Compromised users/devices can move laterally on traditional corporate networks



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1. The intro of two new SSE products

Beneath the Microsoft Entra Global Secure Access umbrella

Explore New Product Announcements for Microsoft Entra

By  [Irina Nechaeva](#)

Published Jul 11 2023 09:00 AM

👁 8,462 Views



Today at our [Reimagine Secure Access with Microsoft Entra digital event](#), Microsoft Security leaders and industry experts presented the next set of innovations from Microsoft Entra. Check out our [Microsoft Security blog](#) to learn more about the product announcements.

A brief overview of what we shared at the event:

To provide secure access for any identity to any resource and protect all digital interactions, we announced two new Security Service Edge (SSE) products—**Microsoft Entra Internet Access** and **Microsoft Entra Private Access**. Microsoft Entra Internet Access is an identity-centric, cloud-delivered Secure Web Gateway (SWG) to protect access to internet, SaaS, and Microsoft 365 apps, while Microsoft Entra Private Access is an identity-centric Zero Trust Network Access to secure access to private apps and resources.



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+ 2. What are the Global Secure Access components?



Users & Devices



Three possible tunnels to the Microsoft Edge



Secure by design & Conditional Access



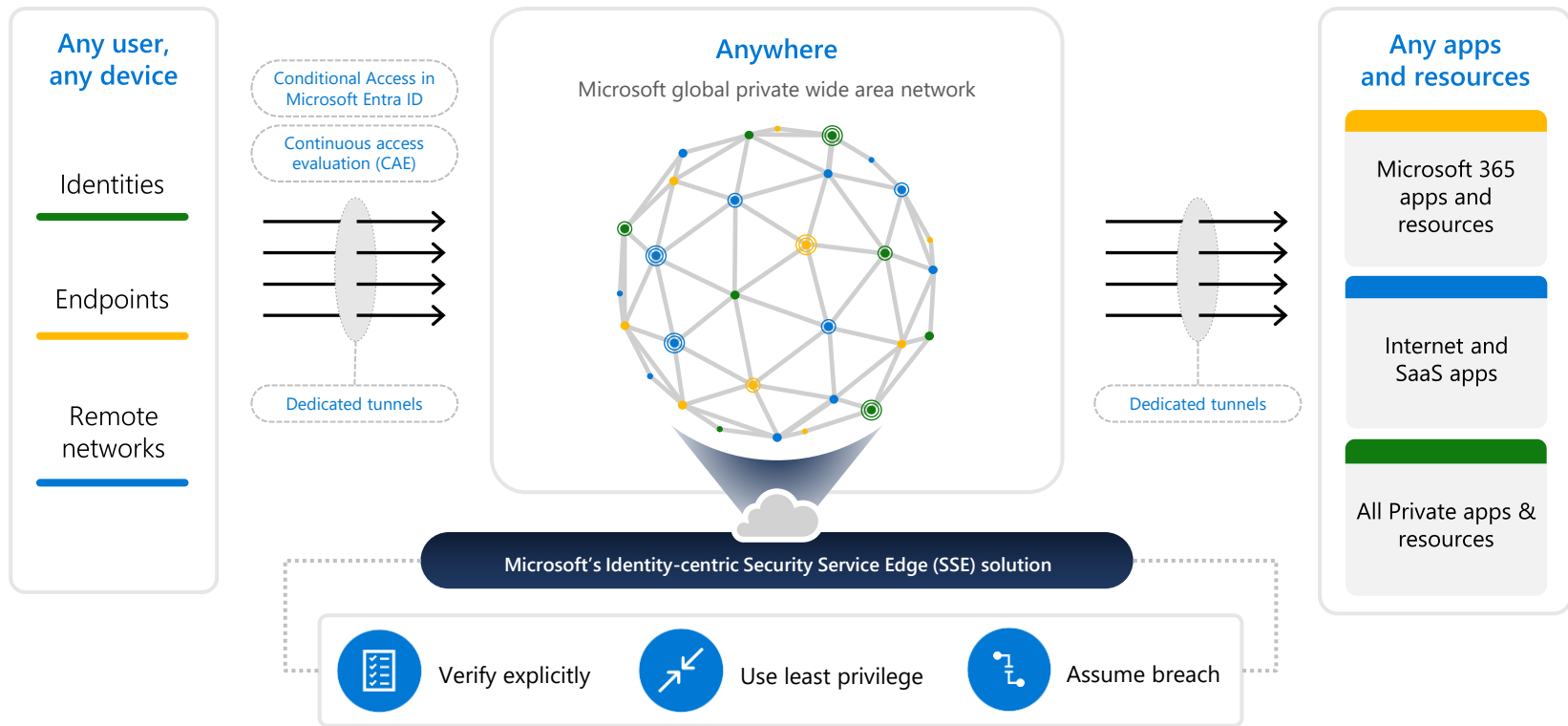
Provide Access to on-prem resources, M365 and the Internet



IPSec tunnel support (not for private access)



2. Microsoft's Identity-centric SSE solution



2. Microsoft's Identity-centric SSE solution

An identity-centric security service edge (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 365 apps

All internet apps

Microsoft Entra Private Access

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

Private web apps

All private apps

Legenda

GA

Public preview



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+ 2. Trip down memory lane

Entra Private Access all started in.....

July 2020
Development
PoC

June 2023
Public Preview

Silence.....

December
2020 Feature
prioritization

April/May
2023 Private
Preview
available

??? 2024
Generally
Available?



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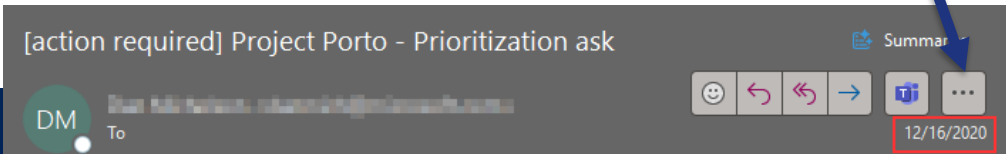


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2. Trip down memory lane

Entra Private Access all started in July 2020.....

```
PS C:\Porto\Connector> .\portoconnector.ps1
Create firewall rule for Porto Connector
2020/07/23 23:32:58 Porto Con
2020/07/23 23:32:58 Load conf
2020/07/23 23:32:58 Registrin
2020/07/23 23:32:58 127.0.0.1
2020/07/23 23:32:58 127.0.0.1
2020/07/23 23:32:58 Create tu
2020/07/23 23:32:58 Start Tcp
2020/07/23 23:32:58 Start Udp
2020/07/23 23:32:58 Listen on
2020/07/23 23:32:58 UDP echo
2020/07/23 23:32:58 TCP echo
2020/07/23 23:33:50 Porto Agent v0.4
2020/07/23 23:33:50 Load config: C:\Porto
2020/07/23 23:33:50 DNS register
2020/07/23 23:33:50 DNS register SRV _ke
2020/07/23 23:33:50 DNS register sql
2020/07/23 23:33:50 DNS register azr
2020/07/23 23:33:50 Starting DNS server
2020/07/23 23:33:50 Create tun tun-porto
2020/07/23 23:33:55 Route static IP 10.2
2020/07/23 23:33:55 Route static IP 10.2
2020/07/23 23:33:56 Configure Windows to
2020/07/23 23:34:00 Waiting for incoming
2020/07/23 23:34:04 DNS resolved A query
2020/07/23 23:34:04 Prompt user for logi
2020/07/23 23:34:05 Connecting to AppPro
1:445
2020/07/23 23:34:05 DNS resolved A query
2020/07/23 23:34:05 Connect failed. Ignor
ebsocket: bad handshake
2020/07/23 23:34:09 No app for 10.211.5
2020/07/23 23:34:10 No app for 10.211.5
2020/07/23 23:34:12 No app for 10.211.5
2020/07/23 23:34:16 No app for 10.211.5
```



Dear Porto Design Partner,

We need your assistance in prioritizing 7 important pillars in Porto.

We are willing to catch the top minimal contents that will enable deployment in your organization.

This way we'll make the right choices to bring you Porto as fast as possible.

Porto is expanding the current private access solution, AAD App Proxy in two dimensions:

- 1) Expanding to support all non-http protocols
- 2) Expanding to support more auditing and security capabilities

We ask you to:

- Consult with the stake holders in your org
- Stack rank the pillars
- Tell us your inclusive outline that will enable deployment in your org.

Thanks,



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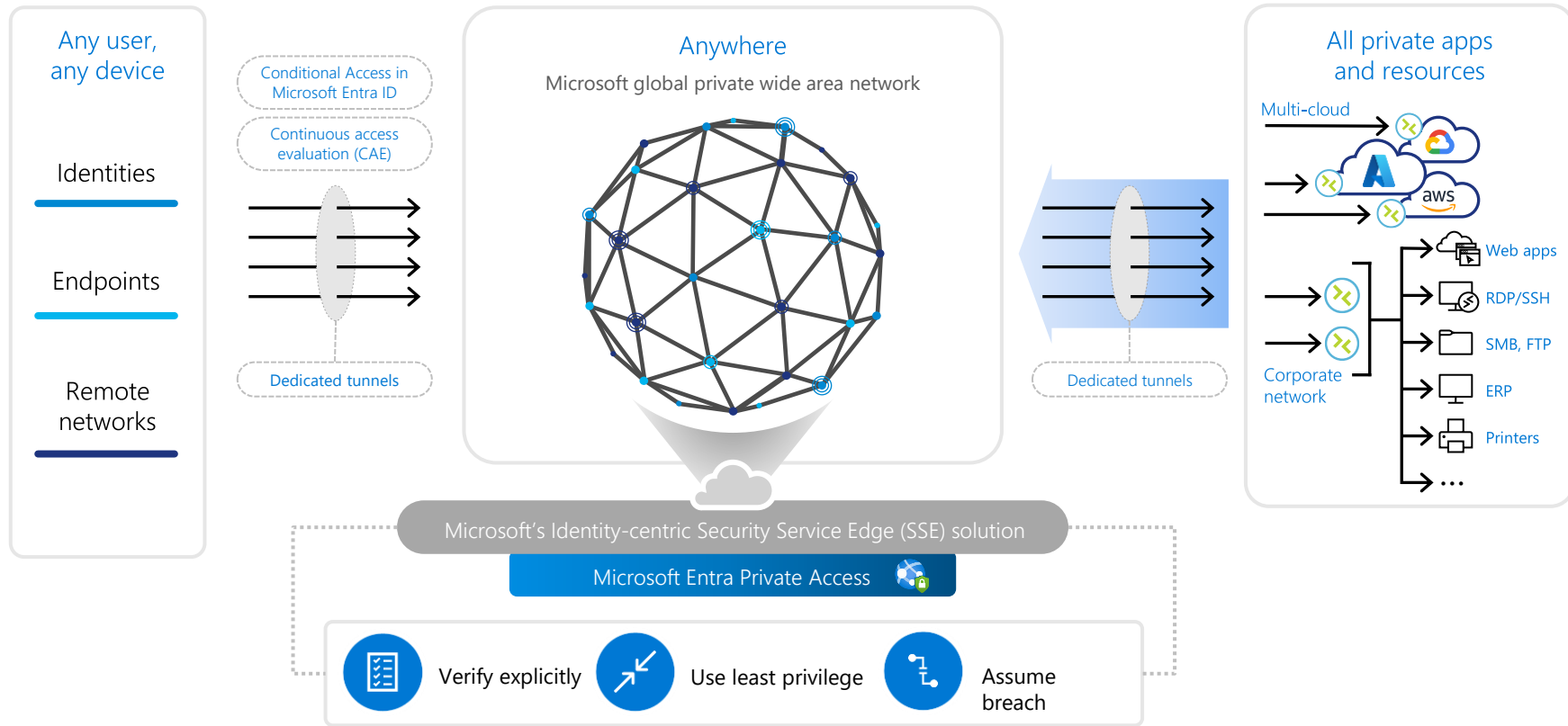


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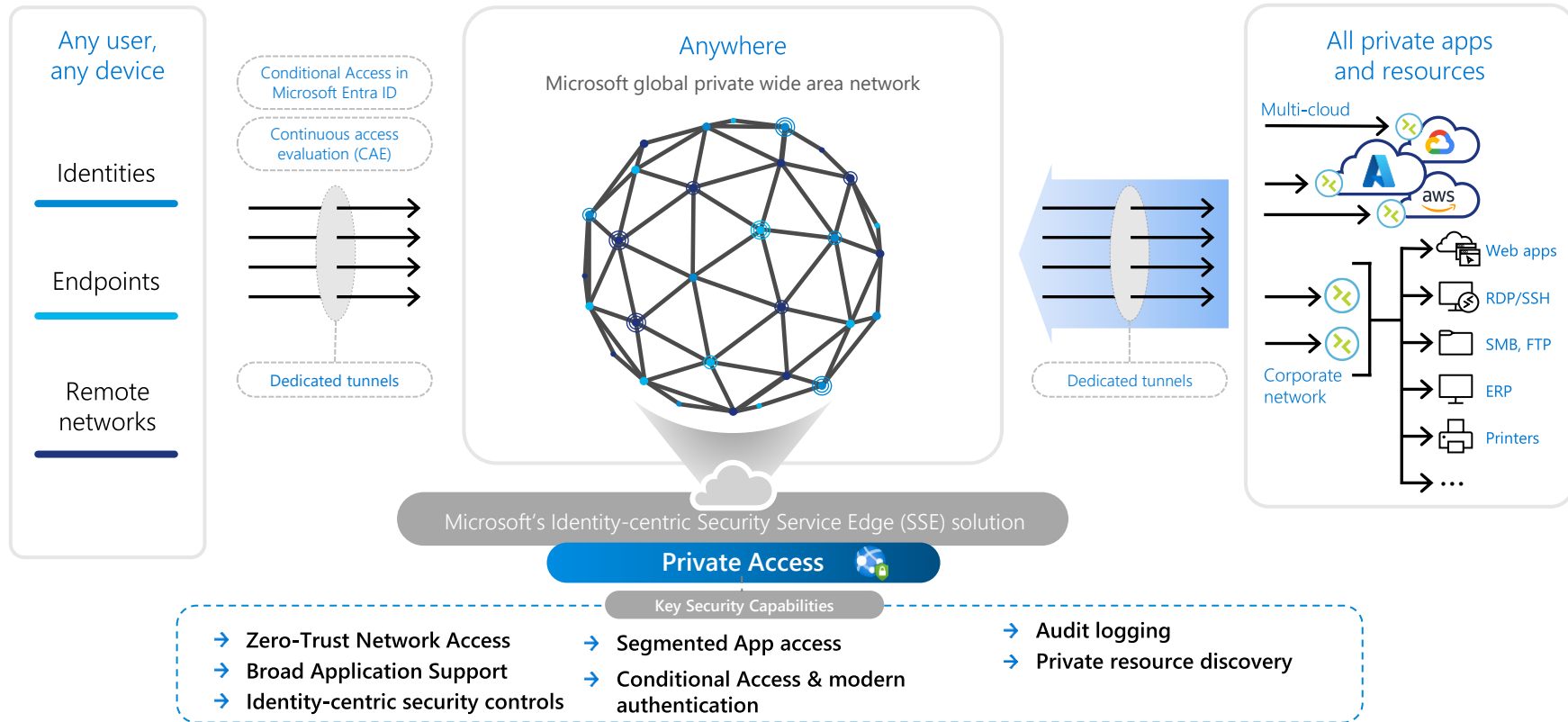


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3. Entra Private Access



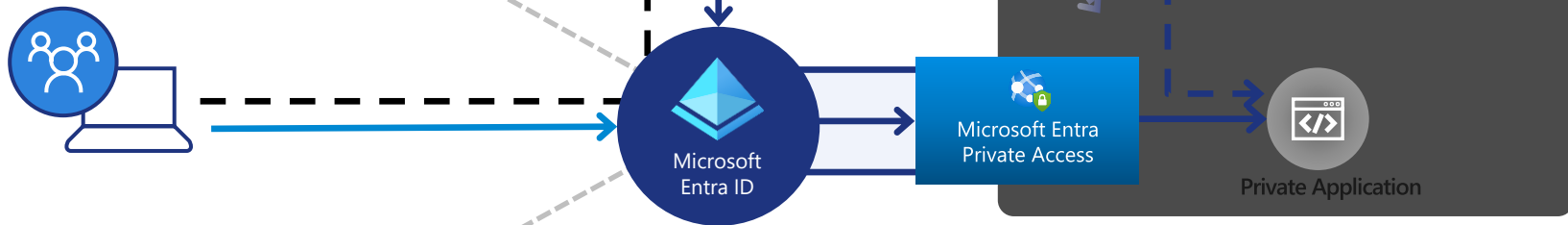
3. Entra Private Access



+ 3. Moving beyond VPNs

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)

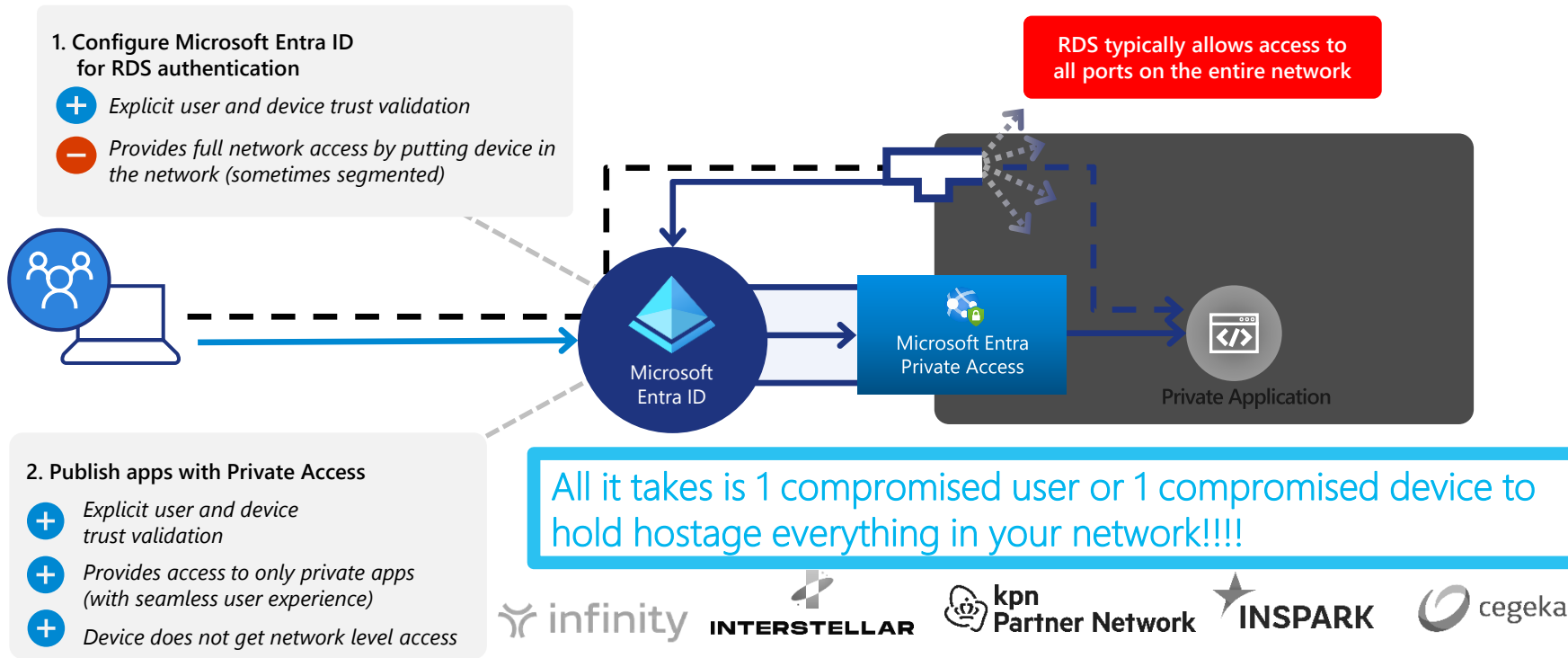


2. Publish apps with Private Access

- + Explicit user and device trust validation
- + Provides access to only private apps (with seamless user experience)
- + Device does not get network level access

All it takes is 1 compromised user or 1 compromised device to hold hostage everything in your network!!!!

+ 3. Moving beyond Remote Desktops



+ 3. The Requirements



Windows, MacOS have GSA client installed

Android or iOS via Defender for Endpoint App

Hybrid Identities in Entra ID

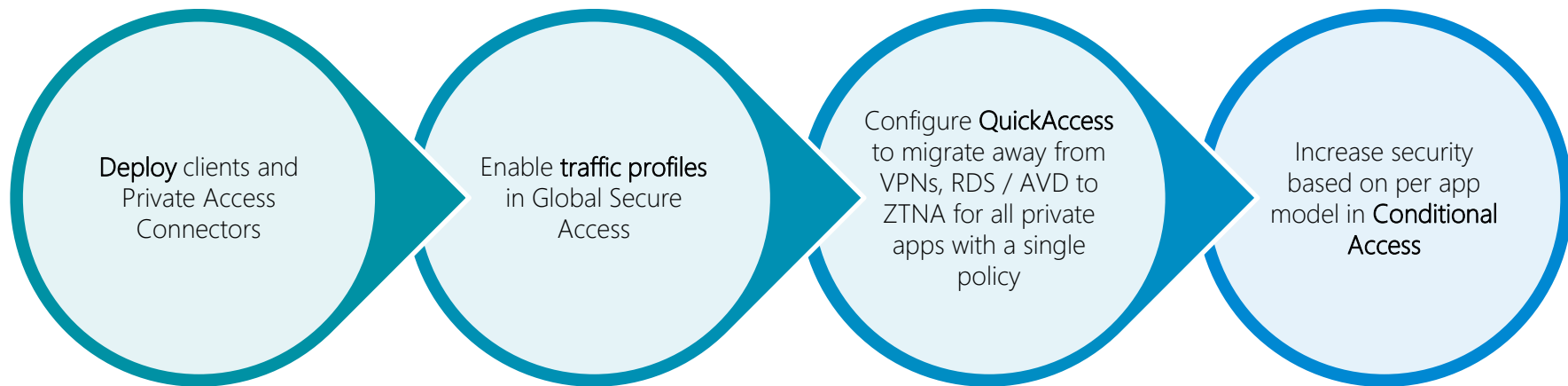
Entra Private Access Connector installed in on-premises domain

Private Access Connector needs outbound connection on port 80 & 443

Enable new diagnostic logging setting(s) in Entra ID

Hybrid Entra Joined or Entra Joined

+ 3. Implementing Entra Private Access



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4. Quick Access

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

» Quick experience

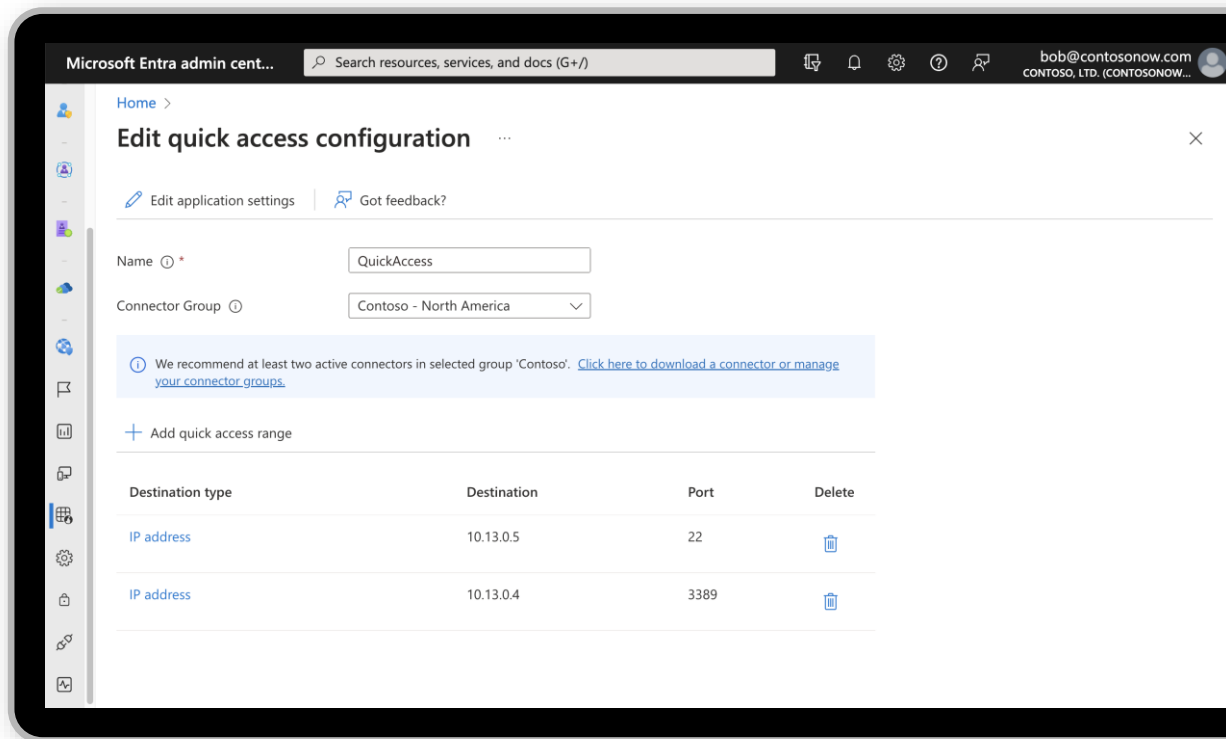
First step for Zero Trust Network Access to private resources

Minimal config to get started

Start with broad access

» Flexibility

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



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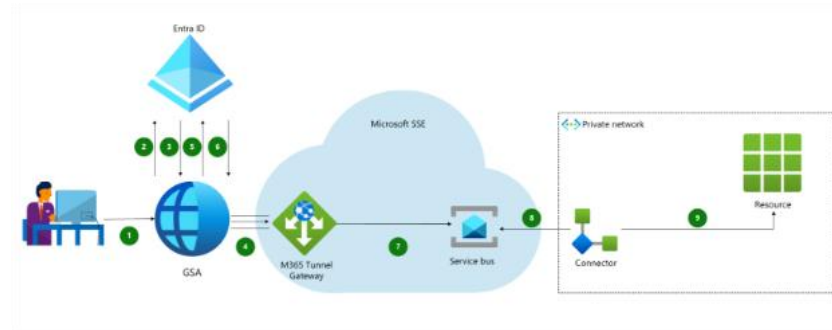
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Demo #1

Replace VPN solution with **Quick Access**



Microsoft Entra admin center

Home

What's new

Diagnose & solve problems

Favorites

Identity

Protection

Identity governance

Verified ID

Permissions Management

Global Secure Access (Preview)


Learn & support

Search resources, services, and docs (G+)

admin@MngEnvMCAP2...
UNIVERSAL EXPORTS (RONNYDE...)

Home > Private Network connectors > Traffic logs >

Universal Exports



Secure access for a connected world

Protect any identity and secure access to any resource with a family of multicloud identity and network access solutions. Welcome to Microsoft Entra admin center's new home page. We invite you to provide feedback so we can iterate and improve.

Learn more about Microsoft Entra

Provide feedback


Learn about Microsoft Entra

Explore the Microsoft Entra product family

Learn how unified multicloud identity and network access help you protect and verify identities, manage permissions, and enforce intelligent access policies, all in one place.

View all products

Read documentation



Setup guides

Each guide walks you through choices to configure the features you want to deploy.


🕒 Passwordless authentication

Passwordless authentication is an alternative sign-in approach that allows users to access their devices securely.


🕒 Sync users from your org's directory

Use this guide to learn how to sync users from your org's directory.

View all guides



Top recommended actions



Your Identity Secure Score is 80.74%

Microsoft Secure Score for Identity is a representation of your organization's security posture and your opportunity to improve it.


Priority

Recommendation

Billing

2 purchased licenses and 1 subscriptions


We are making it easier than ever view all alerts and updates related to your licenses and subscriptions.



Preview hub

See our recent releases

The following preview features are available for your evaluation. Help us make them better!





Prullenbak



hosts



Zoeken

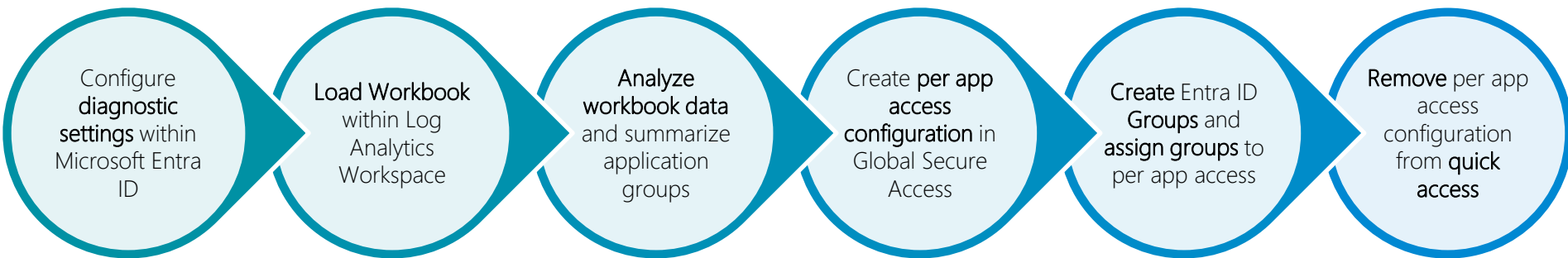


ENG



22:11
3-6-2024

+ 5. Preparing for per app access





Demo #2

Move from Quick Access to **Per-App Access** with workbooks and move to a least privilege mode.



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Home

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Overview

Users

Groups

Devices

Applications

Protection

Identity governance

External Identities

Show more

Protection

Identity governance


Verified ID

Learn & support

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

pim.jacobs@jacobsaa.o...
JACOBS ADMINISTRATIE & AUTO...

Jacobs Administratie & Automatisering



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Your Identity Secure Score is 67.28%

Microsoft Secure Score for Identity is a representation of your organization's security posture and your opportunity








Billing

6 purchased licenses and 2 subscriptions

Preview hub

See our recent releases

6. Keep in mind that....

-  OOB E Process breaks if client is installed during this process
-  Tunnels can't be excluded from Conditional Access today
-  UDP Support not there (yet) so WHfB hybrid won't work (yet)
-  Traffic profiles are today enabled on tenant level for all users
-  Remote networks don't support Private Access Today
-  Avoid overlap between Quick Access and Per App Access.
-  Private Access does not support multi-geo tenants

+ 6. Key Takeaways



SSE offers a more comprehensive, flexible, and modern approach to secure network access.



SSE caters to cloud-based environments and remote work scenarios.



Zero Trust model, ensuring that access is granted based on identity, device posture, and context.



Allows granular control over access to specific applications, improving security and reducing risk.



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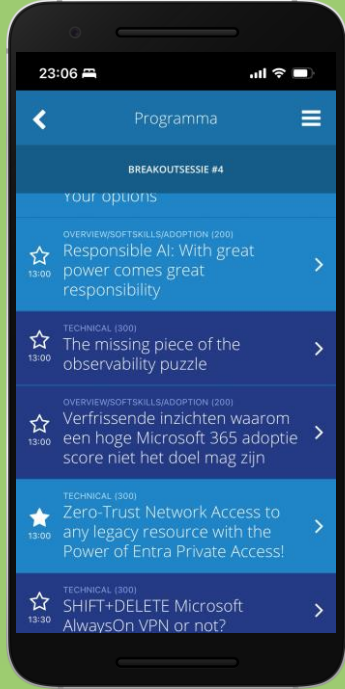
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Please evaluate our session in the App!

THANK YOU

Are there any questions?





Next session 14:00 – 14:50

Securing your Entra Identities in 2024

