

Welcome to the next gen VPN with Global Secure Access





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Gregor is awarded with the Microsoft MVP for Microsoft Azure and Security. He works as Chief Azure Technologist for adesso SE and is technical lead for Azure . His main areas are Microsoft Azure, Enterprise scale architectures, Cloud Security, Governance, Hybrid and Migration.



2Pint



robopack 

wortell

INCRAM MICRO


The Collective

 bechtle

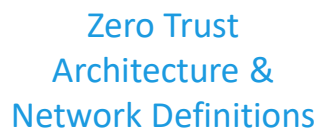
 lebon.IT


ConXion
The new style of IT

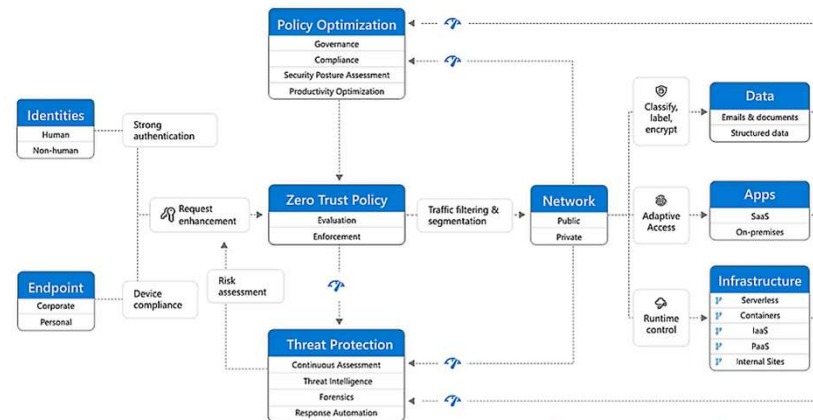
 VirtualMetric

veeam

evri



Zero Trust Architecture & Network Definitions

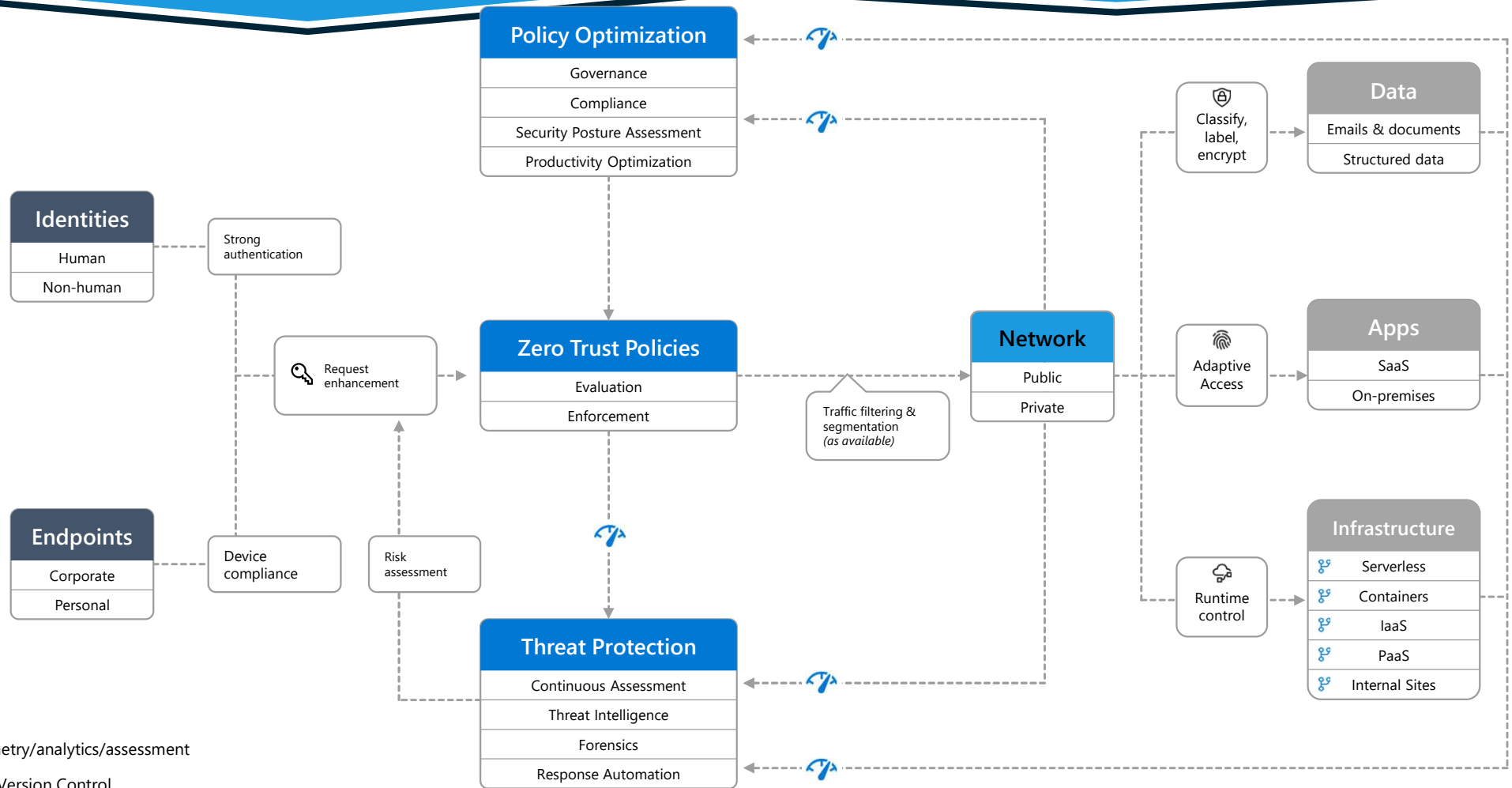


Zero Trust Security Model

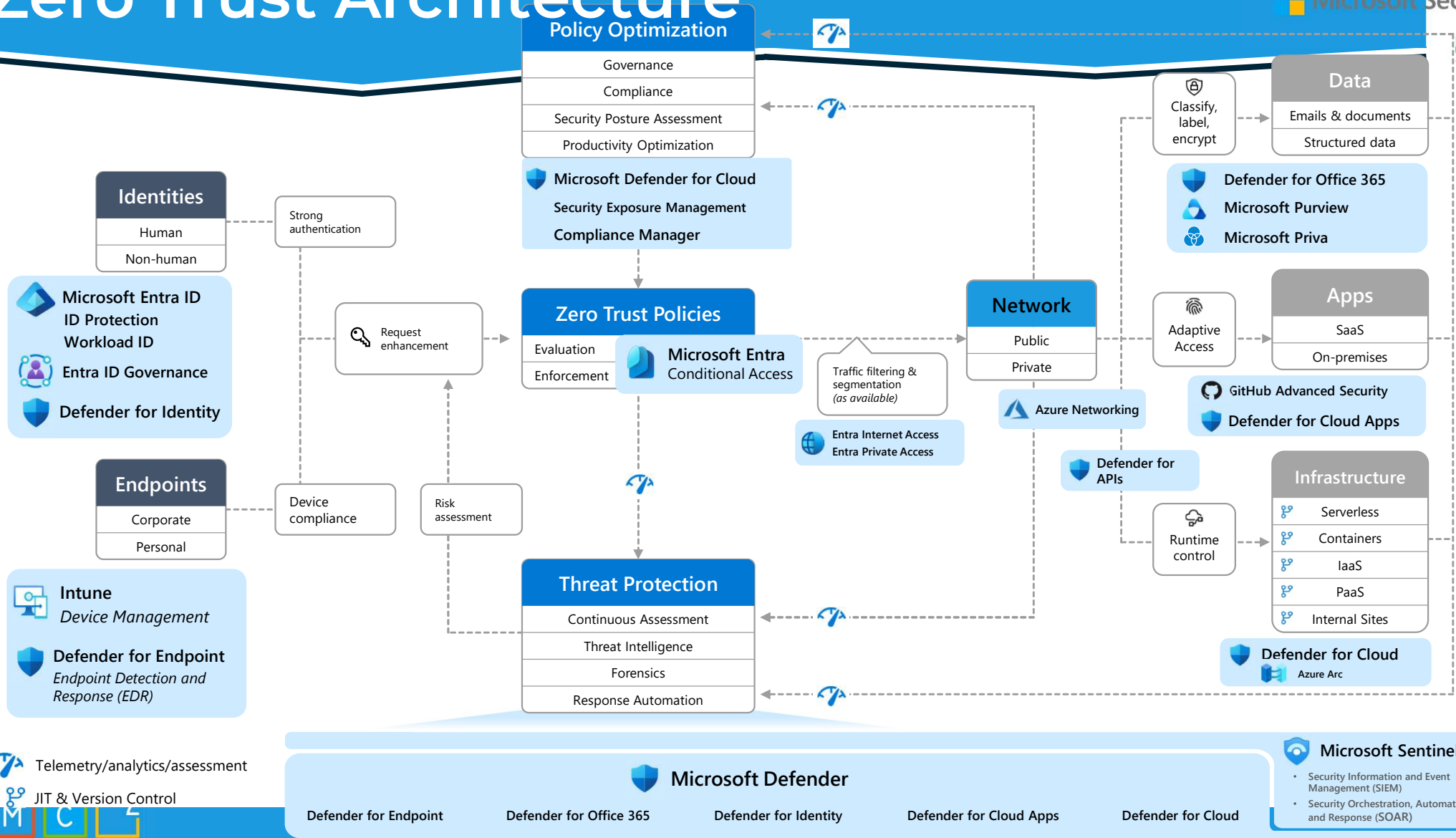


- ... is a **security framework** that assumes **no implicit trust** is granted to assets or user accounts **based** solely **on** their **physical** or **network location**. Instead, it requires **continuous verification** of the **identity** and **integrity** of **devices** and **users**, **regardless** of whether they are **inside** or **outside** the network perimeter

Zero Trust Architecture



Zero Trust Architecture



Secure Access Service Edge (SASE)



- ... is a **network architecture** that combines wide area networking (**WAN**) capabilities with comprehensive security functions, such as secure web gateways (**SWG**), cloud access security brokers (**CASB**), and zero trust network access (**ZTNA**), into a **single cloud-delivered service model**. SASE aims to provide **secure** and **efficient access** to applications and data, **regardless** of user **location**.
- Examples: Prisma SASE, FortiSASE

Security Service Edge (SSE)



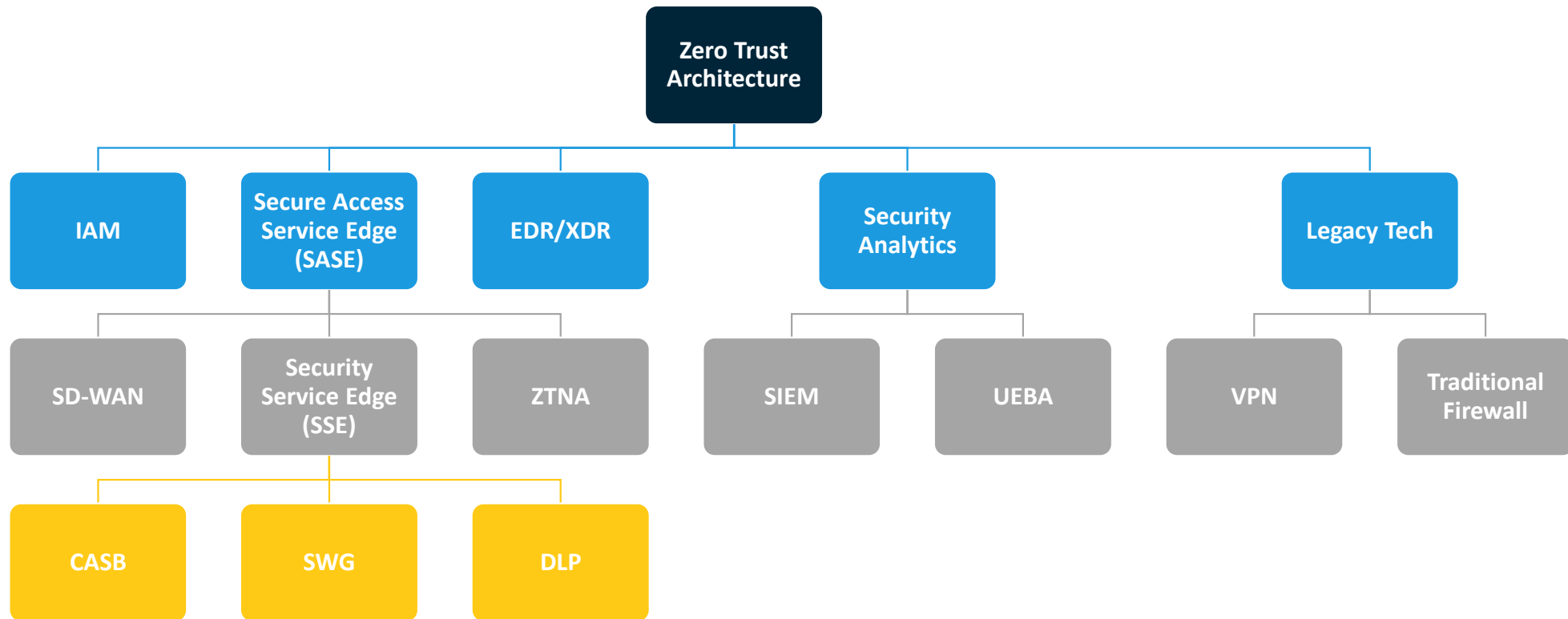
- ... is a **subset of SASE** that focuses specifically on the **security services** aspect. It includes capabilities like zero trust network access (**ZTNA**), secure web gateways (**SWG**), and cloud access security brokers (**CASB**) to ensure secure access to web, cloud, and private applications
- Examples: Zscaler (going to SASE, Cloudflare One,)

Global Secure Access (GSA)



- ... refers to a **comprehensive security solution** that integrates various **security services** to provide secure **remote access** to applications, data, and resources across the globe. It typically includes features like **identity verification**, **access control**, and **threat protection** to ensure secure and seamless connectivity for remote users

And now ... all together ...



Azure Bastion

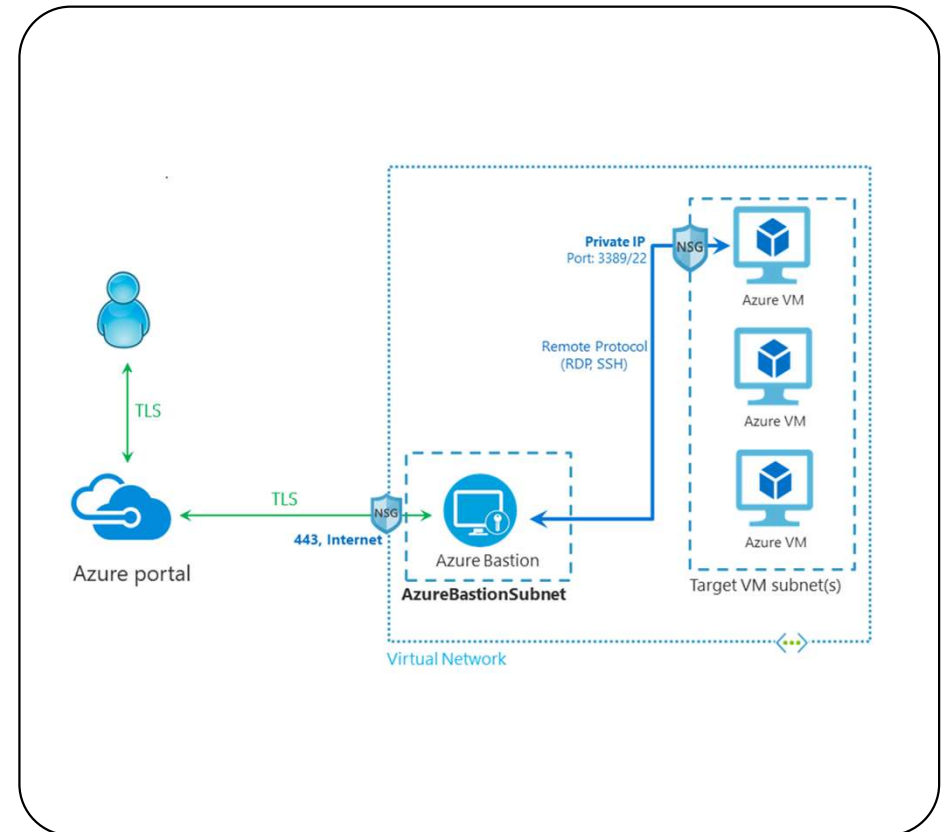
Azure Bastion provides secure RDP/SSH connectivity to your VMs without exposing ports to the public internet.

Bastion Premium

- Secure sensitive workloads end-to-end with enhanced auditing and monitoring features
- Graphically record, monitor, and store VM sessions for full visibility and compliance needs

Bastion Developer

- Secure-by-default connectivity to Azure VMs with just one click – at no extra cost.



Azure ExpressRoute

Azure ExpressRoute Metro

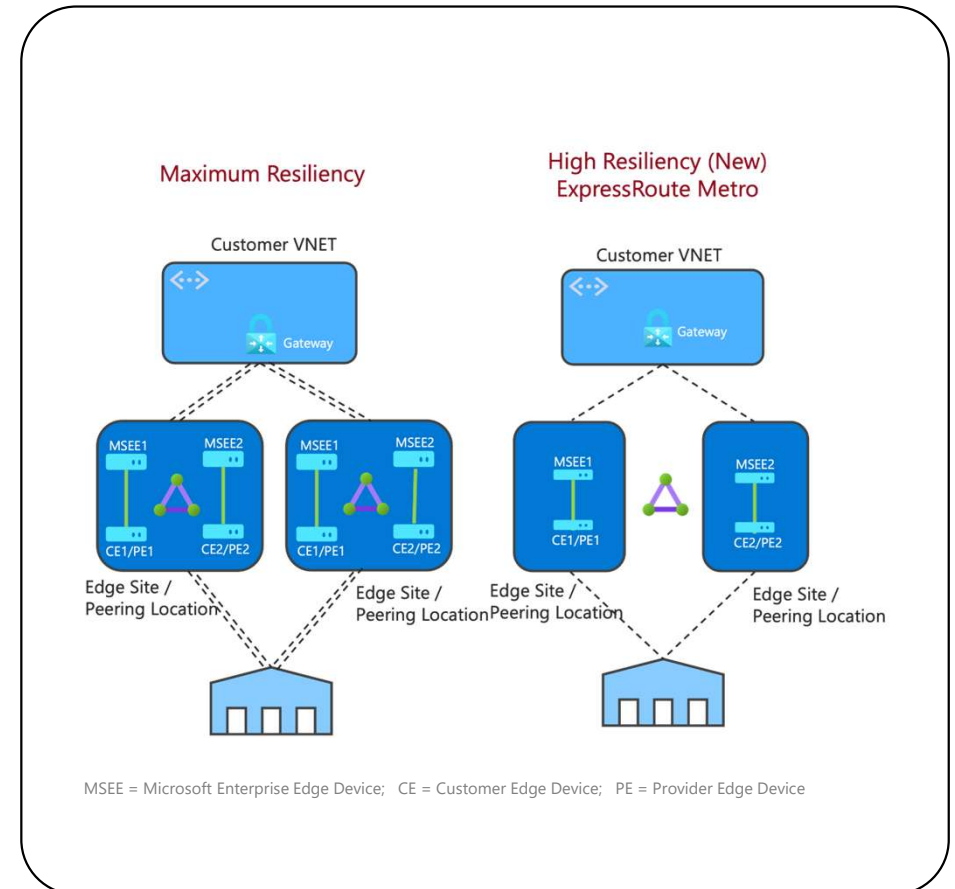
- Built-in site resiliency across two distinct peering locations in a metro city

Seamless gateway migration

- Migrate ExpressRoute Gateways to zone-redundant deployments with zero downtime

Scalable Gateway

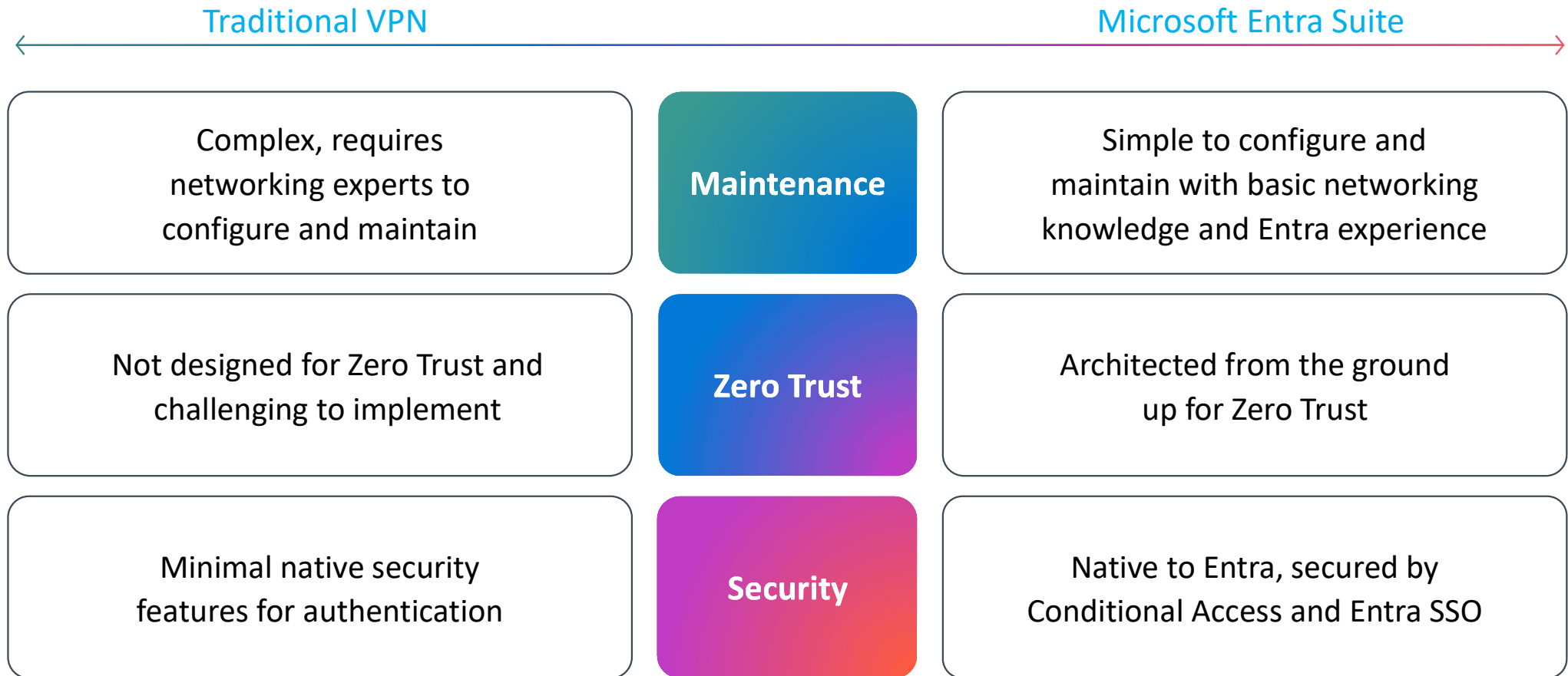
- Auto scale for up to 40Gbps connectivity via ExpressRoute Gateway to the VNet



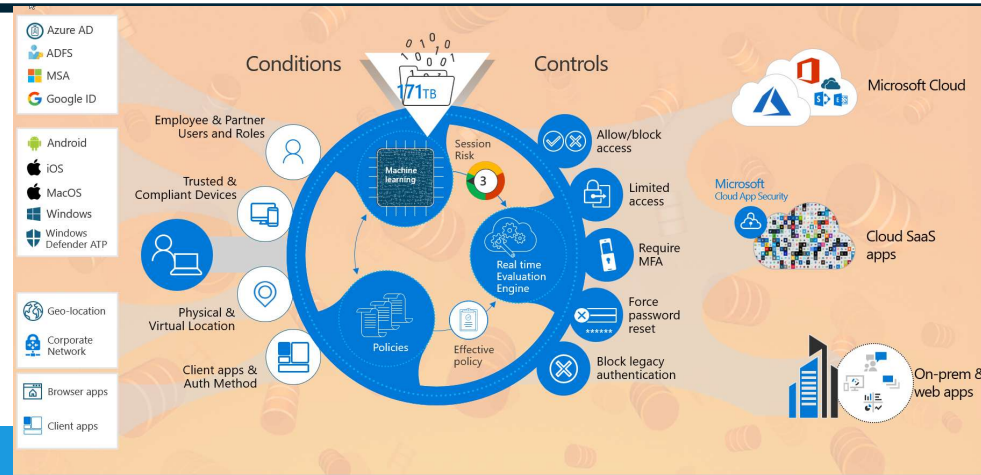
Microsoft Entra Suite



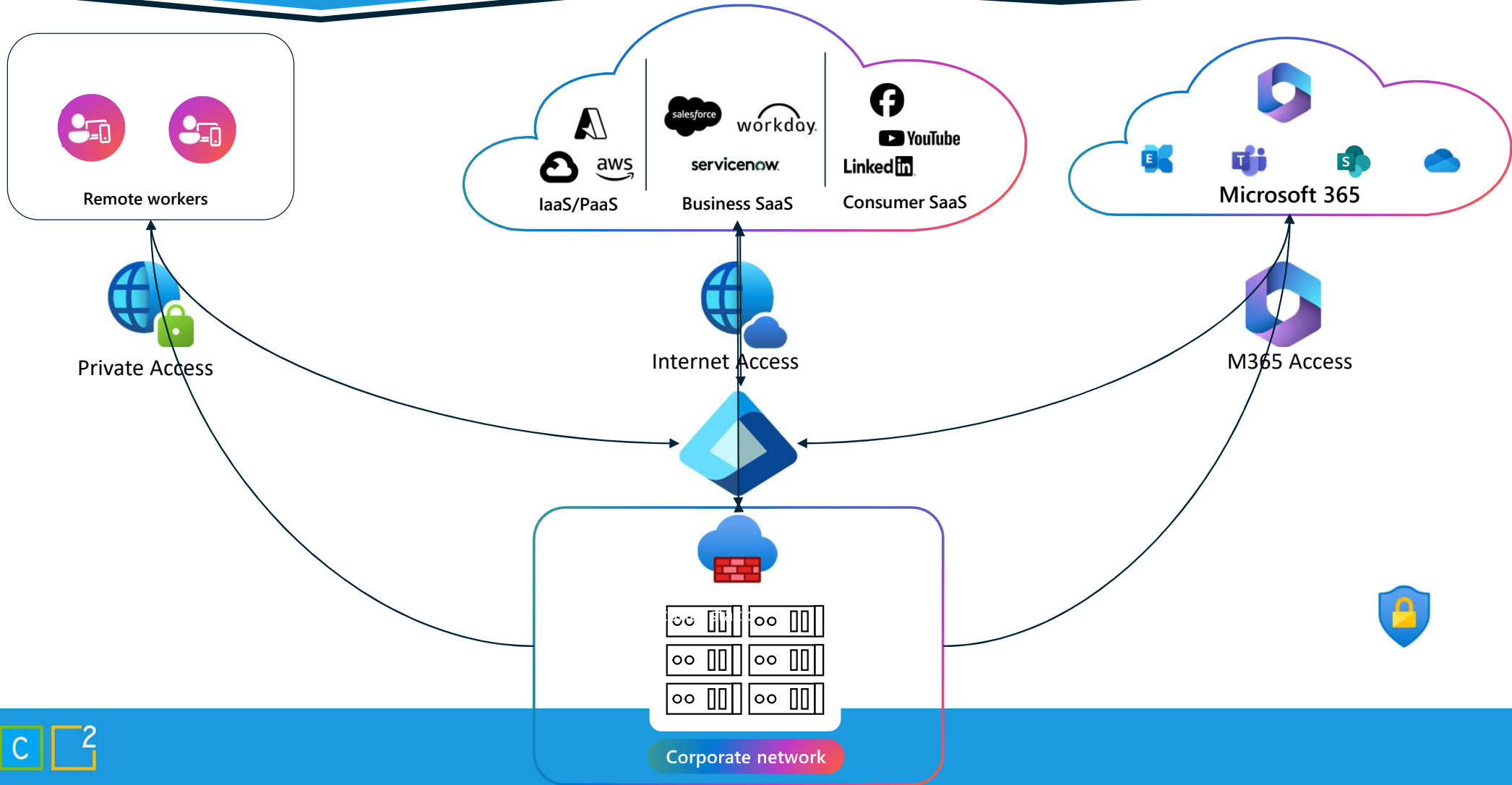
Journey to SSE – Decision to move



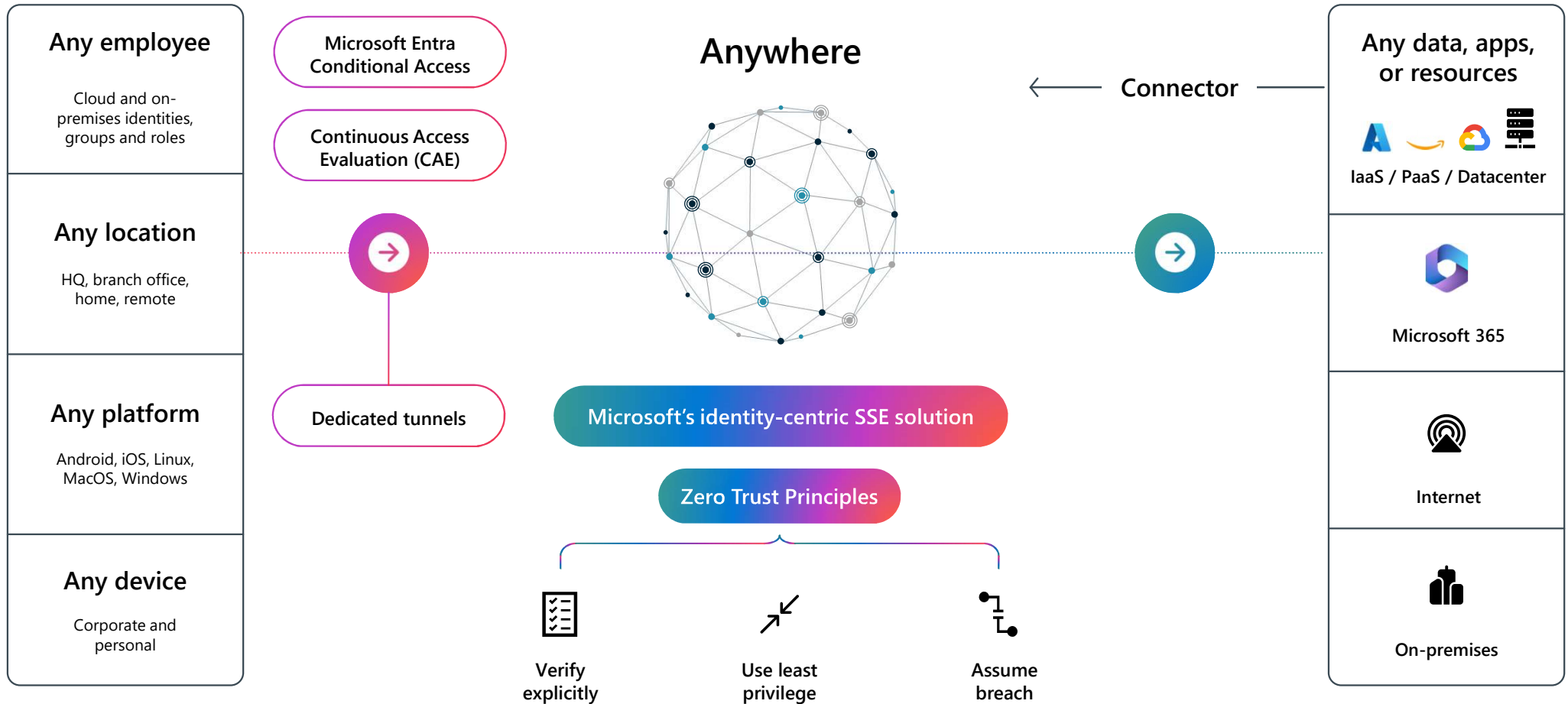
Global Secure Access



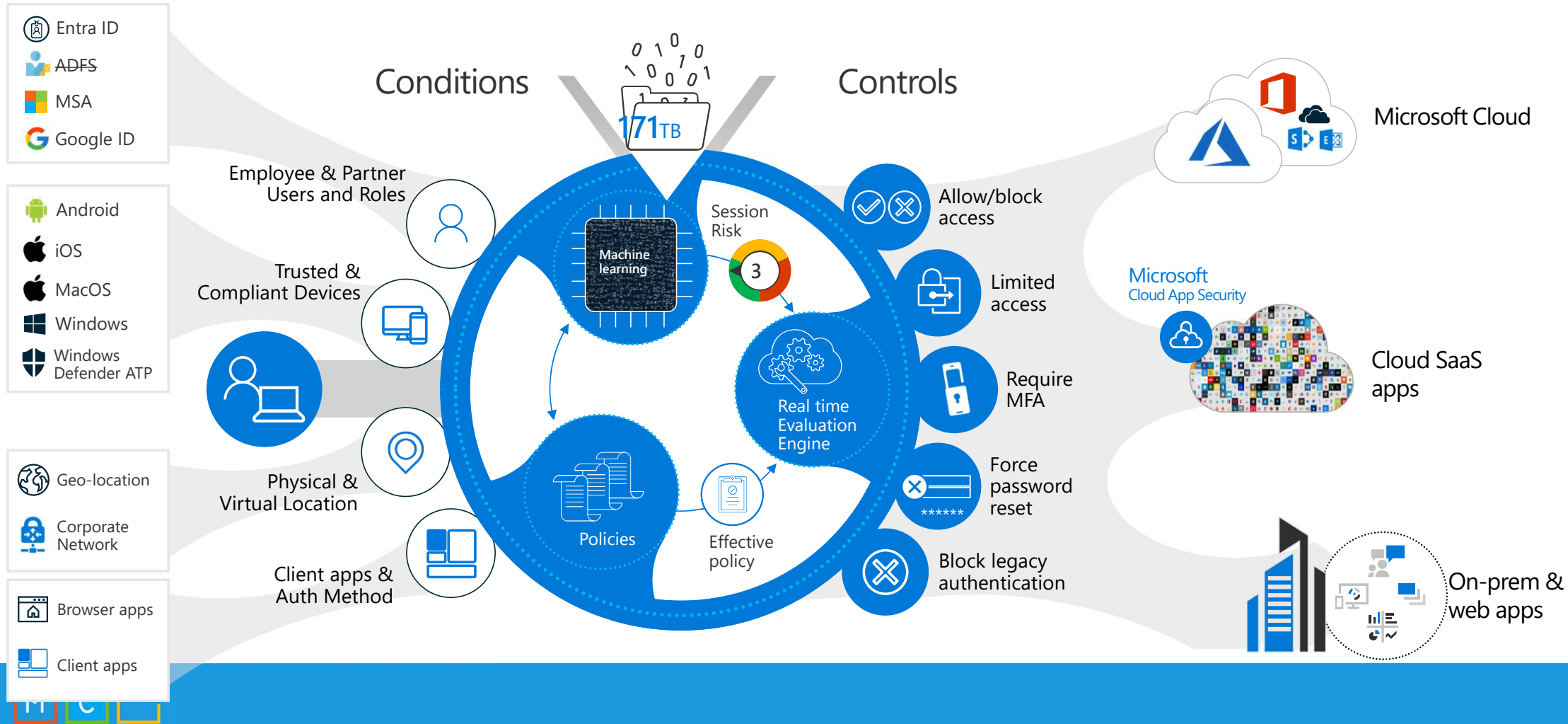
Global Secure Access



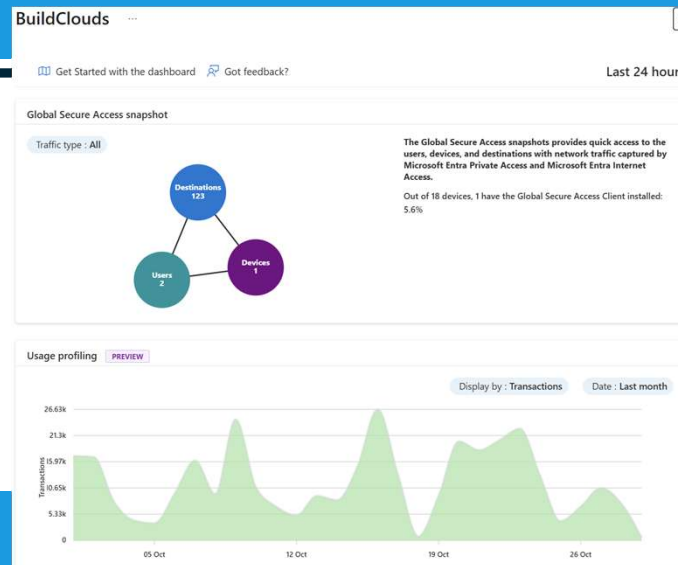
Global Secure Access (GSA)



Conditional Access

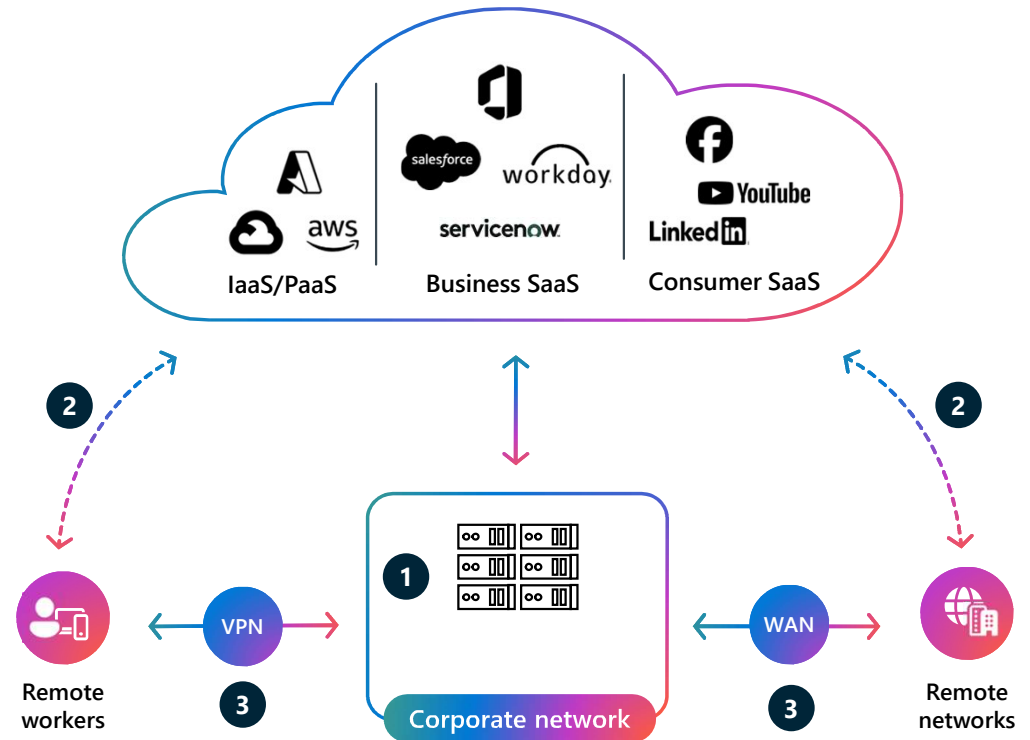


Private Access

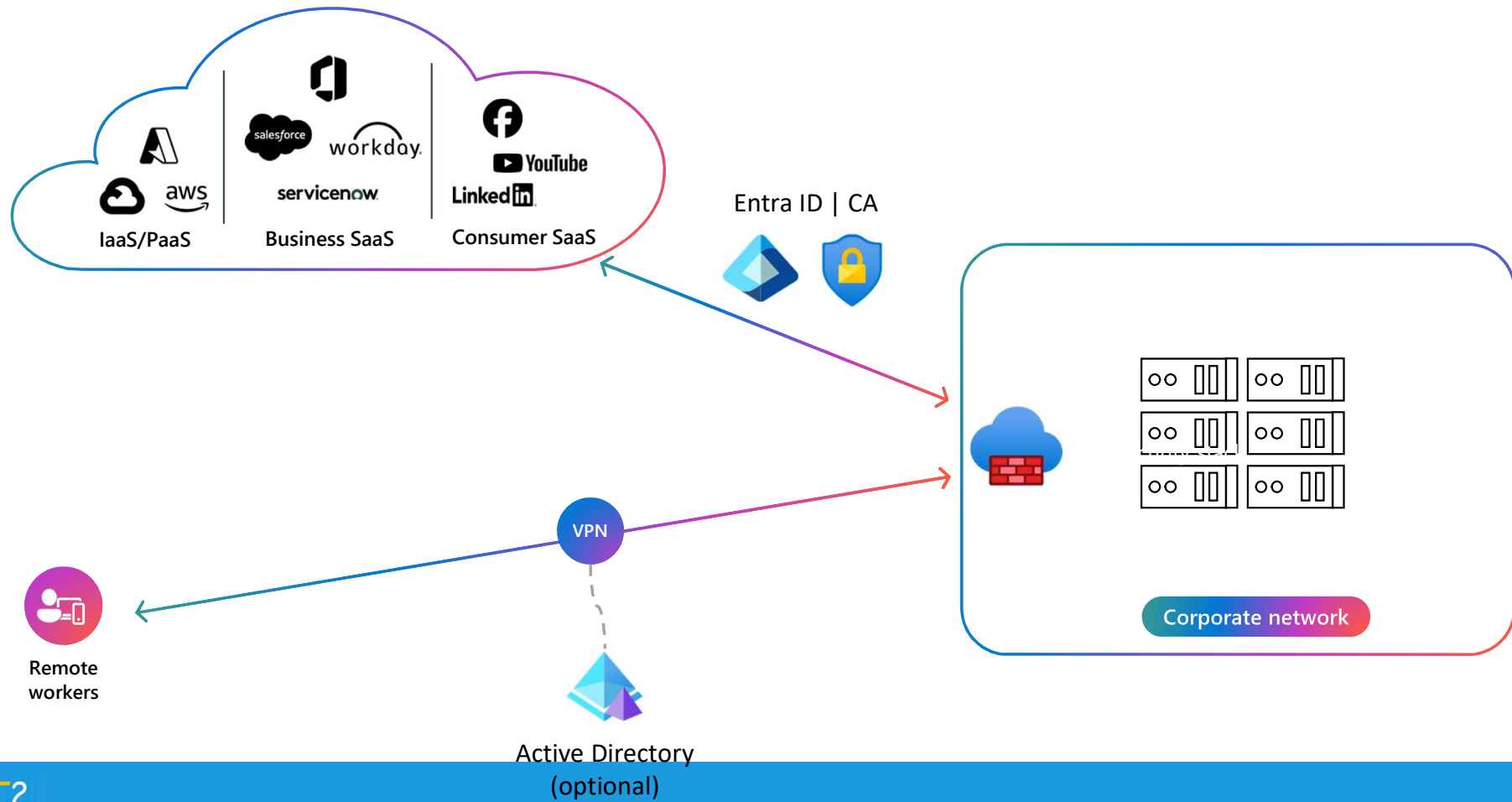


Legacy network security stacks are no longer sufficient

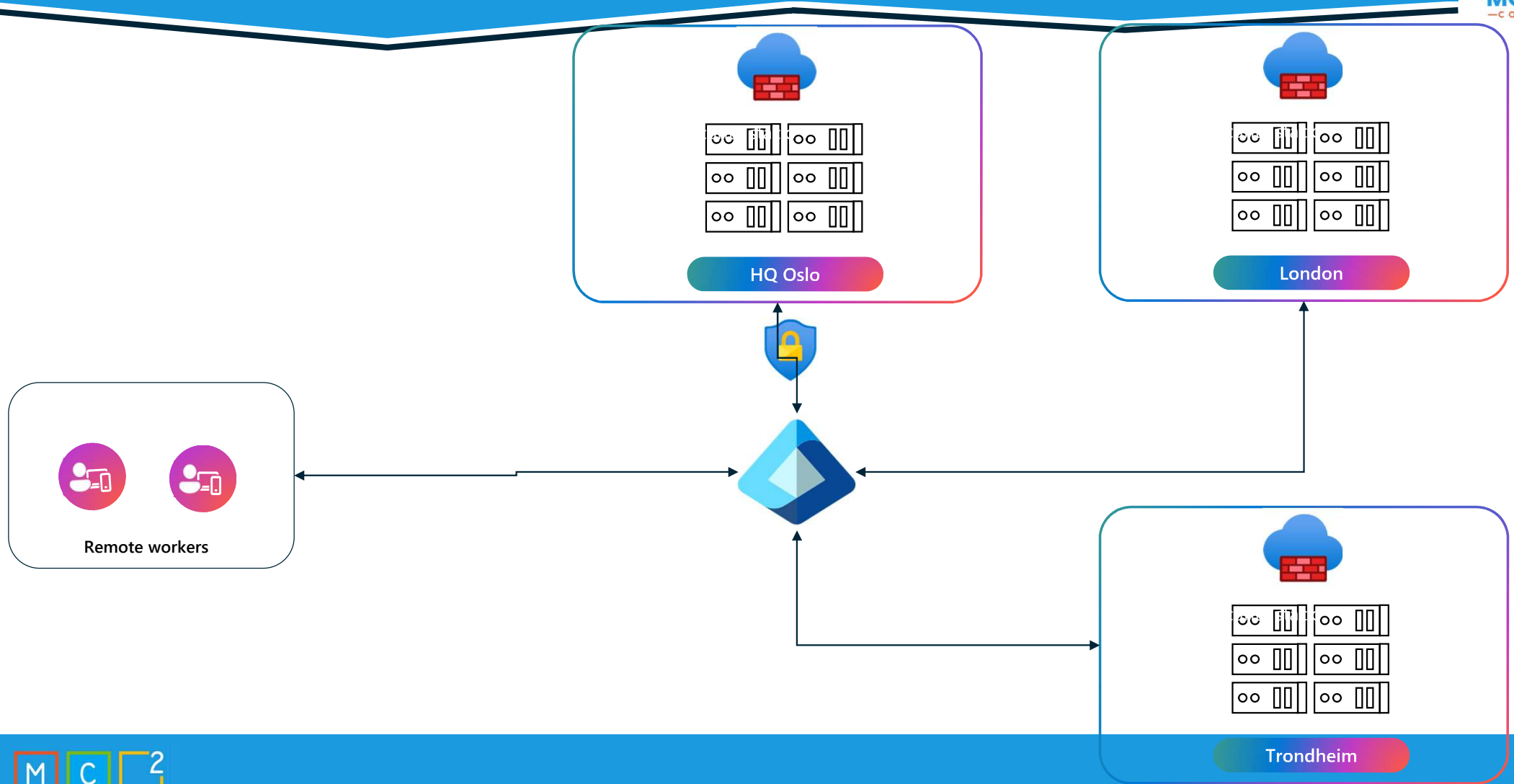
- 1 Dramatic traffic increase strains network capacity and on-prem security stack. Sub-optimal user experience on account of traffic hair-pinning.
- 2 Users circumvent IT controls and access resources directly.
- 3 Compromised users/devices can move laterally on traditional corporate networks.



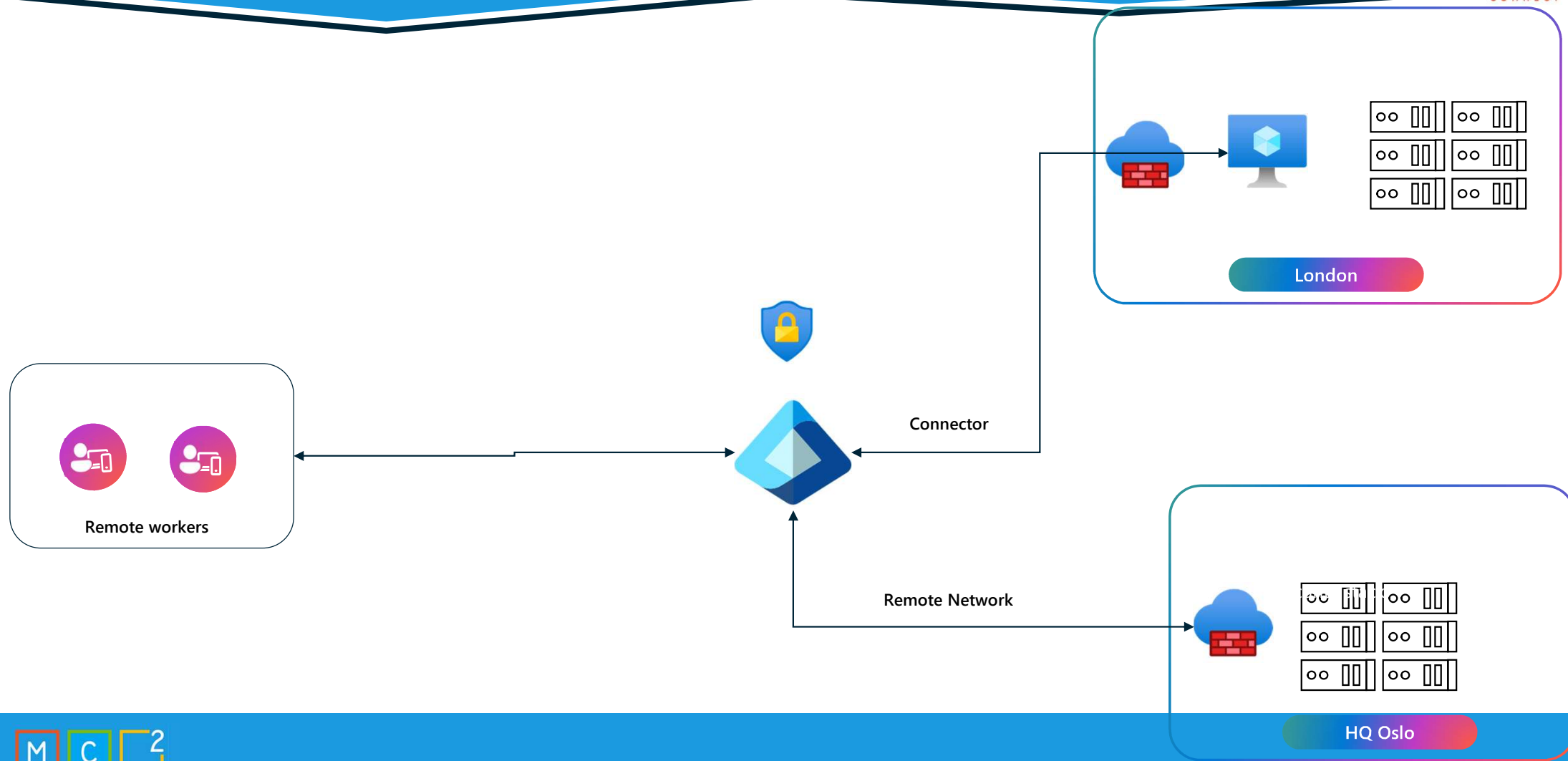
Classic VPN



Private Access

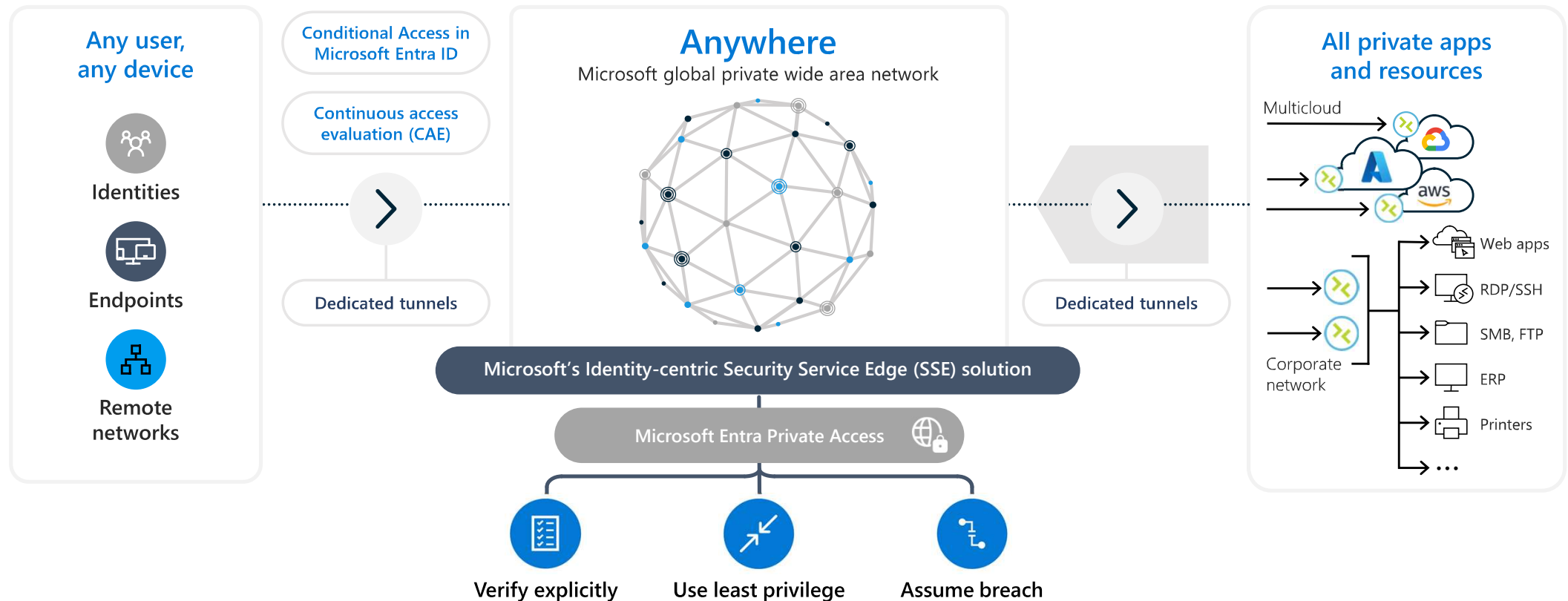


Connect resources via Private Access

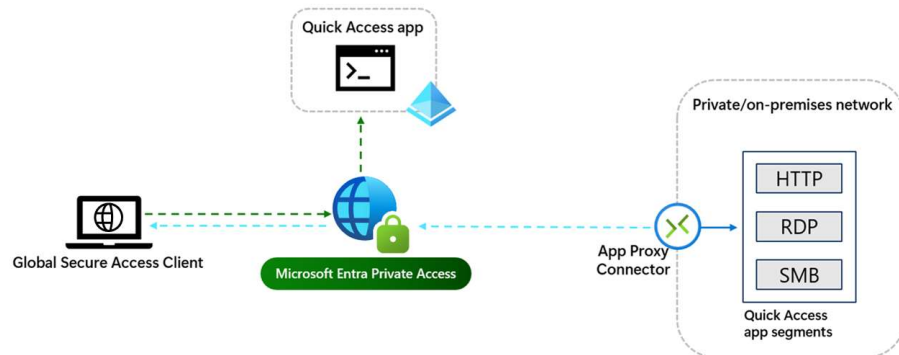


Entra Private Access

An identity-centric Zero Trust Network Access

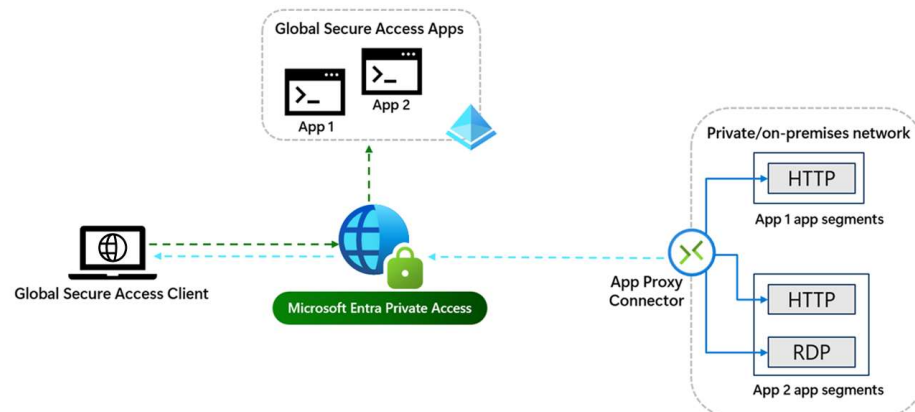


Quick Access app



- primary group of FQDNs and IP addresses that should be always available
- Like as baseline for GSA connectivity

Global Secure Access app



- when different CA Policies are required
- for connectivity for a subset of users

Private Network Connector



- Lightweight agents on a Windows server inside the network
- Create connections to Entra
- Needs open 80 and 443 to Entra
- Minimum of one connector needed
- 2 recommended for Highavailability
- Connectors can add and remove any time
- Get automatic updates

Conditional Access



- Use additional CA-Policies for GSA
- Think on Network conditions for GSA
- If you have Tiering enable strength auth for accessing
- Please think on a clear naming concept for Conditional Access and GSA policies

GSA Rollout



Deploy GSA agent
on Devices

Enable Microsoft 365
traffic routing

Define Conditional
Policies for GSA

Phase 1

Phase 2

Run side by side or
Replace existing
VPNs with
Private Access

Check Defender for
Cloud Apps for
relevant SaaS apps

Enable Internet
access for relevant
SaaS apps

Phase 3

Pricing



\$12 PUPM Microsoft Entra Suite pricing

Microsoft Entra Suite

- Private Access
- Internet Access
- ID Governance
- ID Protection
- Verified ID Premium

45%
suite discount

\$22 PUPM Value of components

- 1. Private Access \$5 pupm
- +
- 2. Internet Access \$5 pupm
- +
- 3. ID Governance¹ \$7 pupm
- +
- 4. ID Protection² \$3 pupm
- +
- 5. Verified ID³ Premium \$2 pupm

Microsoft Entra ID Plan 1 is a technical and licensing pre-requisite⁴



Notes: (1) Also available for Microsoft Entra ID P2 / ME5 / E5 Security customers at a discounted price; (2) Available as part of Microsoft Entra ID P2; (3) Standalone offer prices may vary; (4) Any offer that includes Microsoft Entra ID P1 (e.g., M365 E3) will also fulfill the pre-requisite requirement.

Knowledge Check (win a book) 😊



- Which three traffic profiles offers GSA?
 - Private traffic, Internet traffic and Microsoft traffic

Links



- [Microsoft Cybersecurity Reference Architectures \(MCRA\)](#)
- [What is Global Secure Access? - Global Secure Access](#)
- [New Microsoft Entra Suite | Tech Community](#)
- [New Microsoft Entra Suite | YouTube](#)
- [Global Secure Access documentation - Global Secure Access | Microsoft Learn](#)
- [Automating Web Application Creation in Global Secure Access Using PowerShell – christianfrohn.dk](#)
- [Global Secure Access and Sentinel Integration.... and brisket? — Blog](#)
- [TLS Inspection in Microsoft Entra GSA Internet Access – Complete Configuration Guide](#)
- [Entra ID – New version of Entra ID Private Network Connector](#)
- [Global Secure Access | Chris Brumm's Blog](#)
- [Known Limitations for Global Secure Access - Global Secure Access | Microsoft Learn](#)
- ...

Session feedback
available in home feed
of the app after the
session



THANK YOU