

Welcome to the  
next gen VPN with  
Global Secure Access



**MC2MC**  
—CONNECT—



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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.



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reimling.eu



2Pint



robopack

wortell

INGRAM  
MICRO®



The Collective

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ConXioN  
The new style of IT

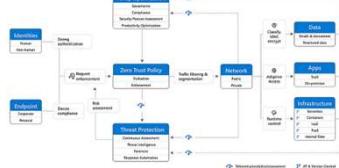
VirtualMetric

veeam

evri



# Agenda



Dashboard > Azure Arc | Machines

Showing 1 to 3 of 3 records.

| Name    | Kind      | Arc agent status |
|---------|-----------|------------------|
| PraesDC | Connected |                  |
| PraesHV | Connected |                  |
| WEB1    | Expired   |                  |

Entra Suite



Global Secure Access



Release process



See and manage all your infrastructure, anywhere. started.

No additional cost

Azure control plane functionality

- Attaching servers to Azure
- Resource inventory and organization through Azure resource groups and tags
- Access and security through IPsec and self-signed certificates
- Environments and automation through templates and extensions

Servers - Azure Arc

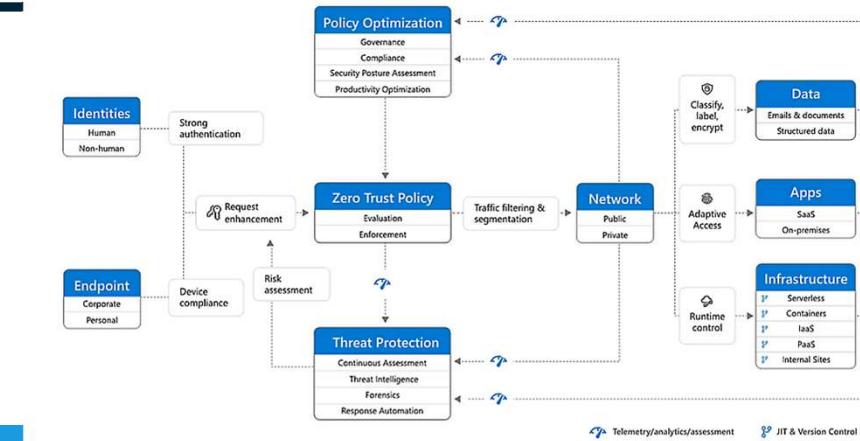
Paid services

Azure Policy grant configuration \$6/Servers/Hours

Any other Azure service that is attached, for example Azure Defender or Azure Monitor, will be charged as j. Use our pricing calculator to estimate how much these services will cost [Learn more about Azure](#)

Kubernetes

# Zero Trust Architecture & Network Definitions

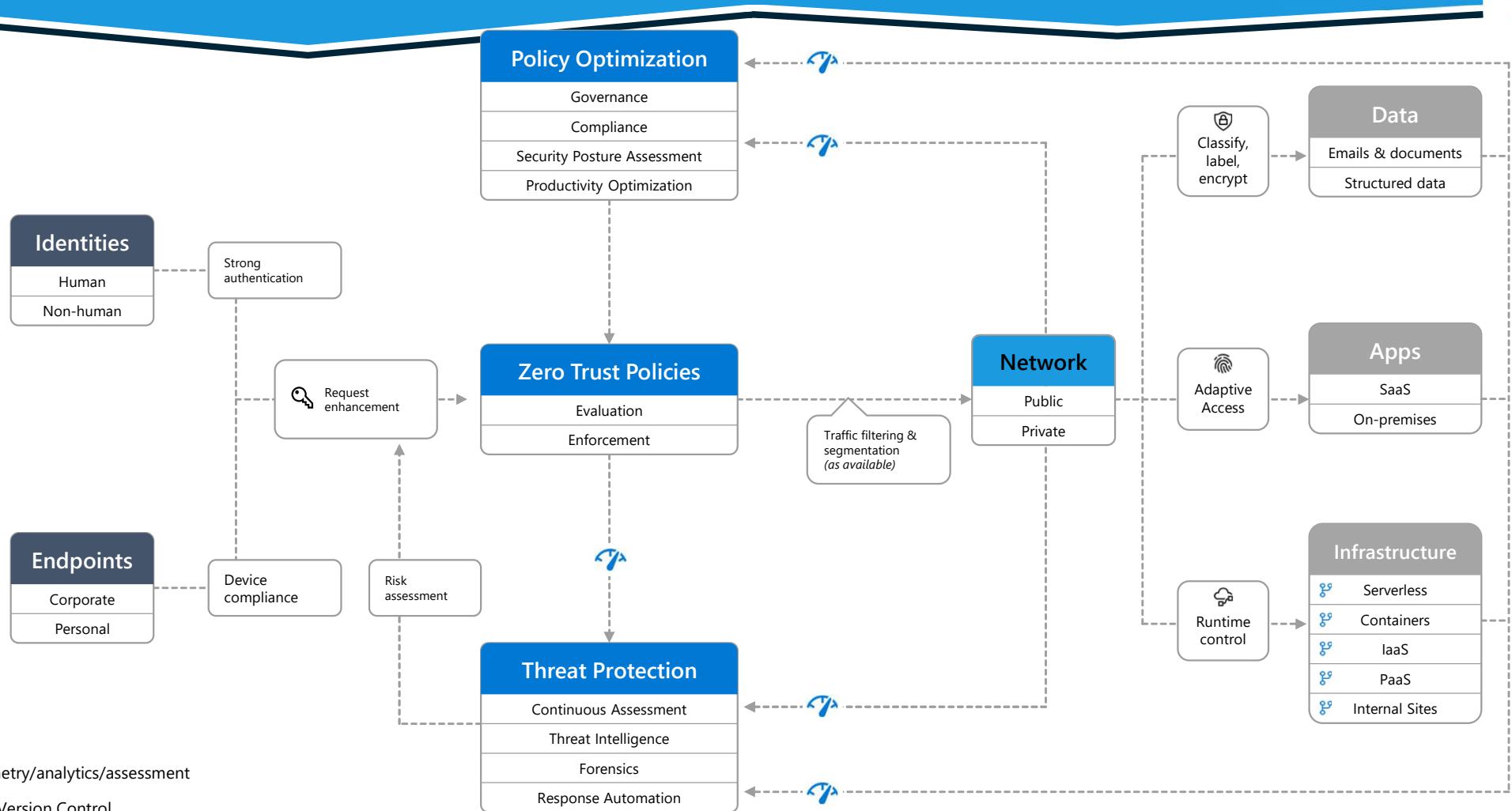




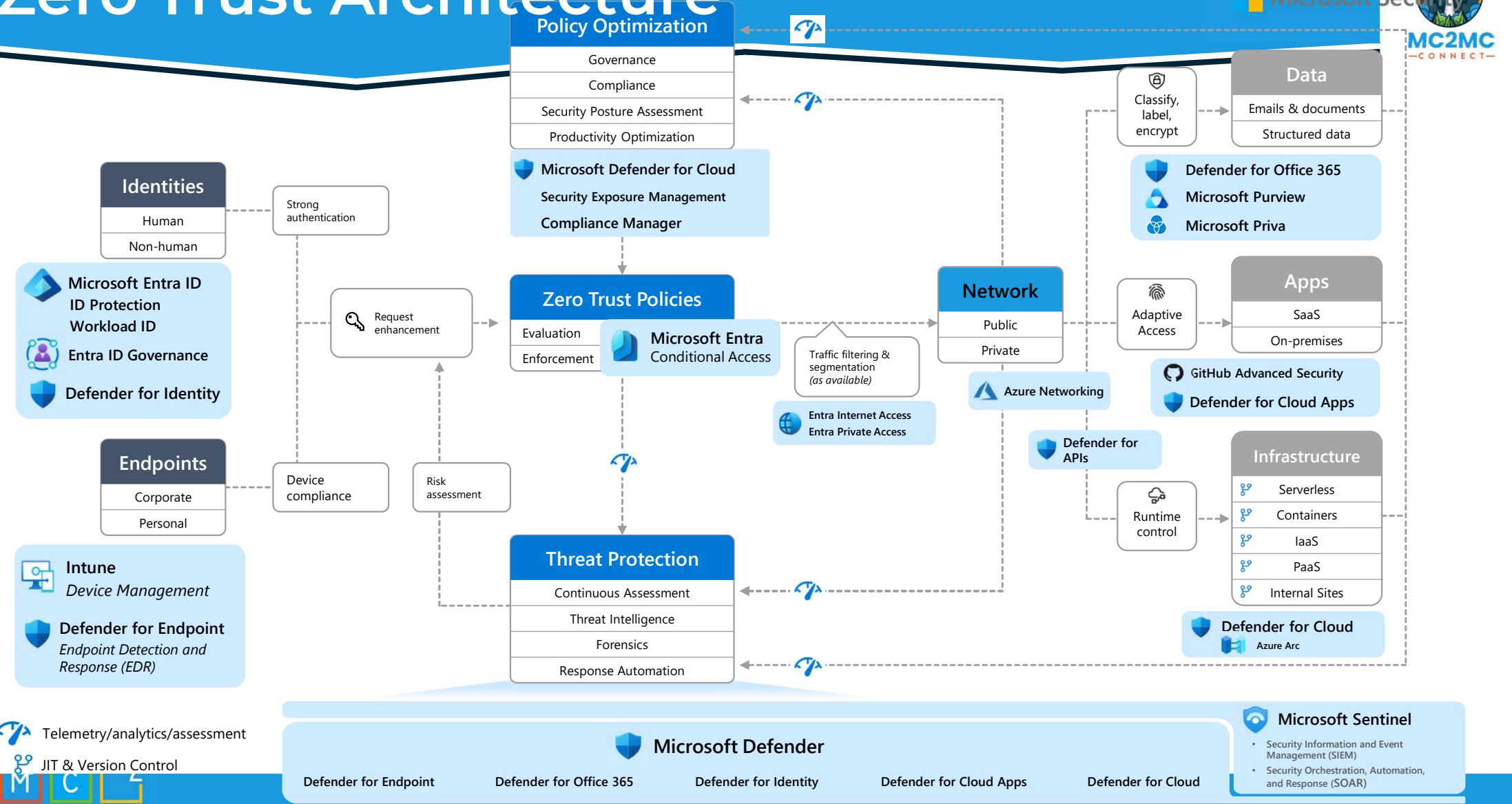
# Zero Trust Security Model

- ... 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)

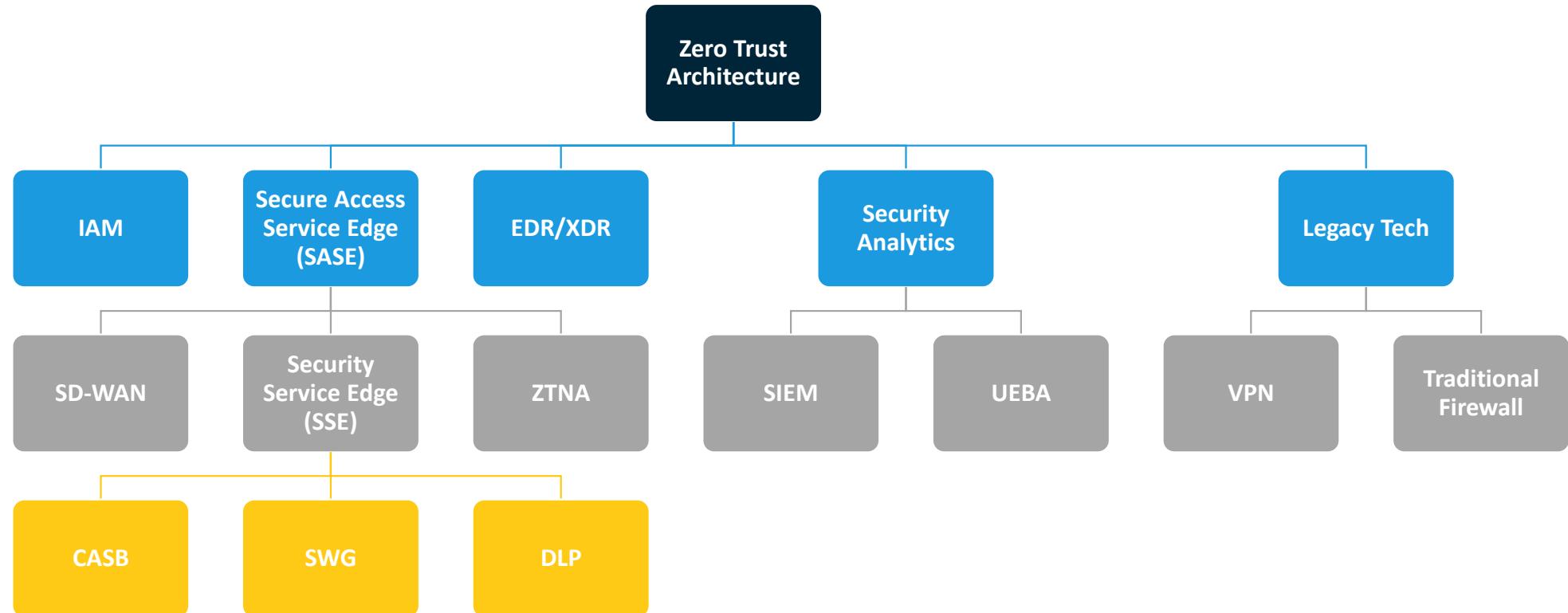
- ... is a **subset of SASE** that focuses specifically on the **security services** aspect. It includes capabilities like zero trust network access (**ZTNA**), secure web gateways (**SWG**), and cloud access security brokers (**CASB**) to ensure secure access to web, cloud, and private applications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

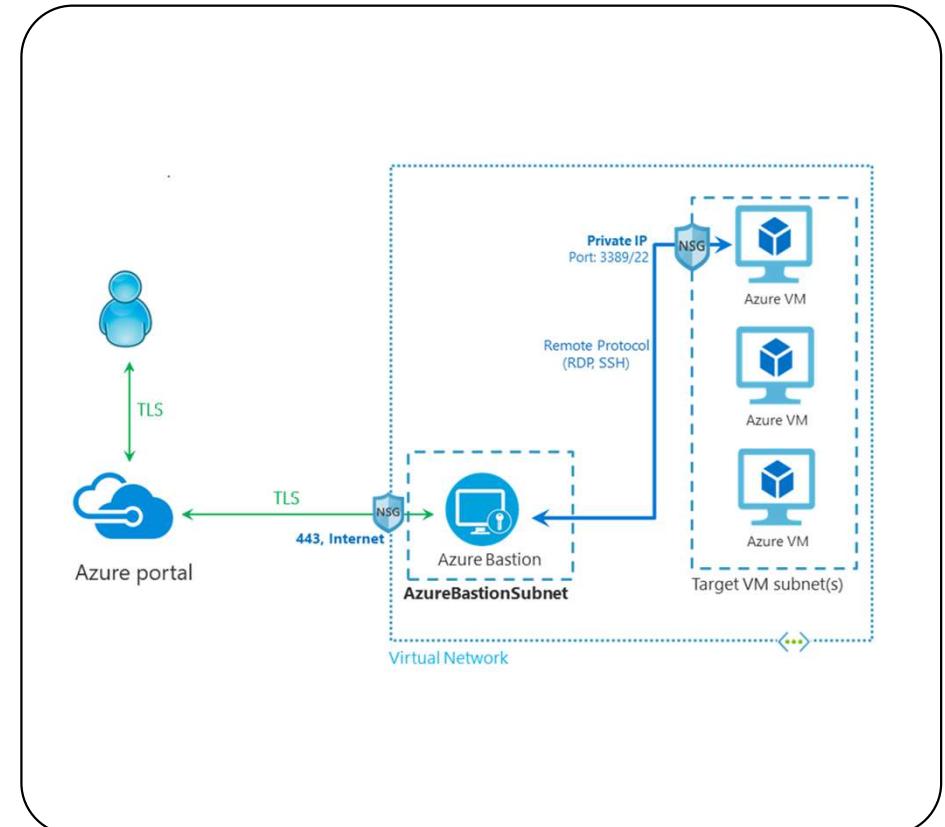
Azure Bastion provides secure RDP/SSH connectivity to your VMs without exposing ports to the public internet.

## 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

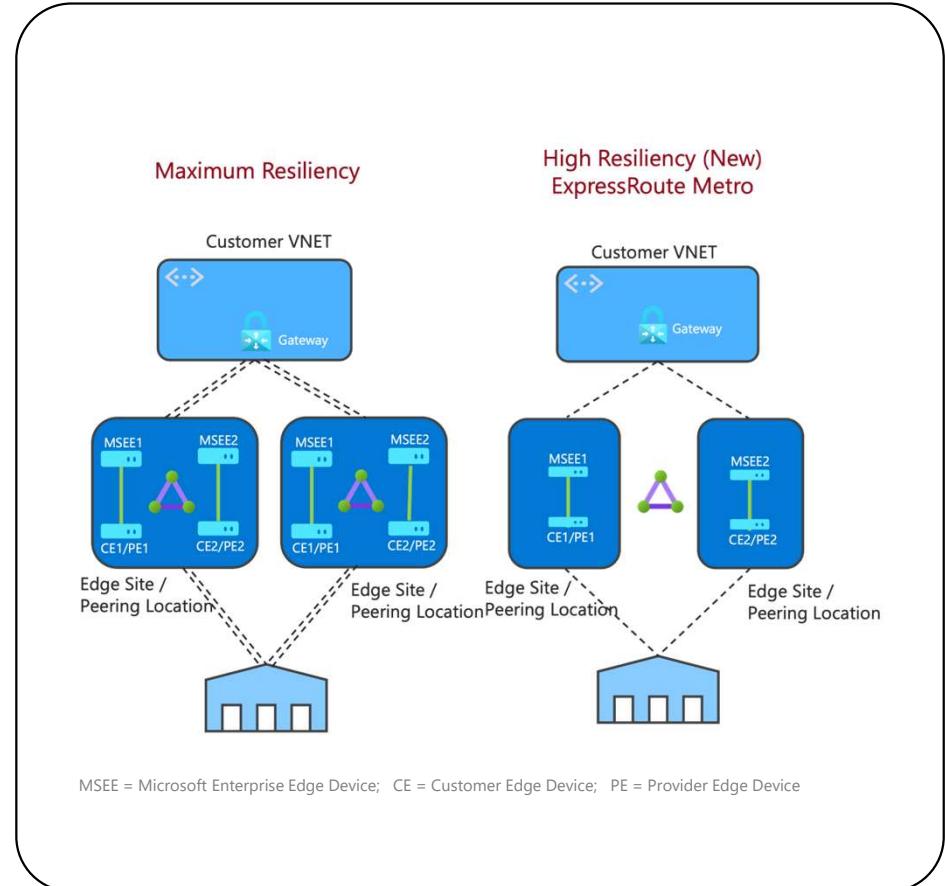
- Built-in site resiliency across two distinct peering locations in a metro city

## 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

Traditional VPN

Microsoft Entra Suite

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

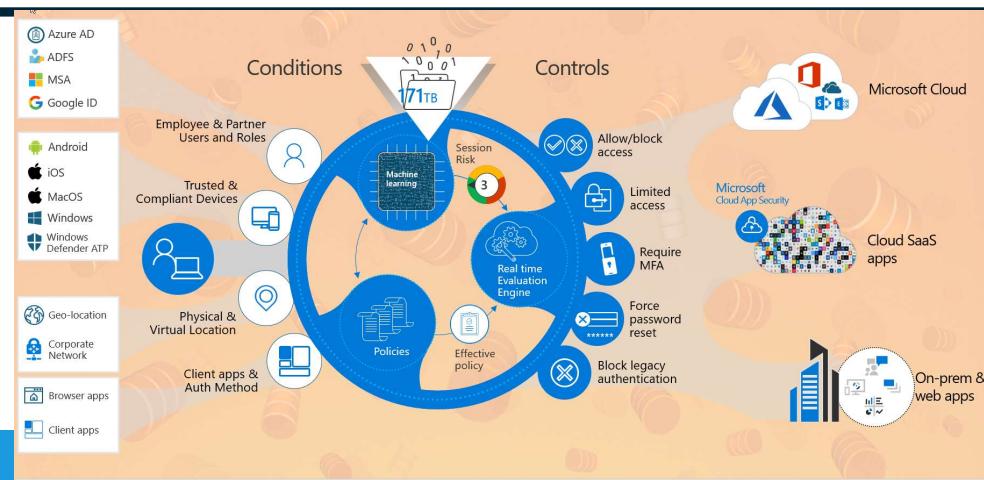
Architected from the ground up for Zero Trust

Minimal native security features for authentication

Security

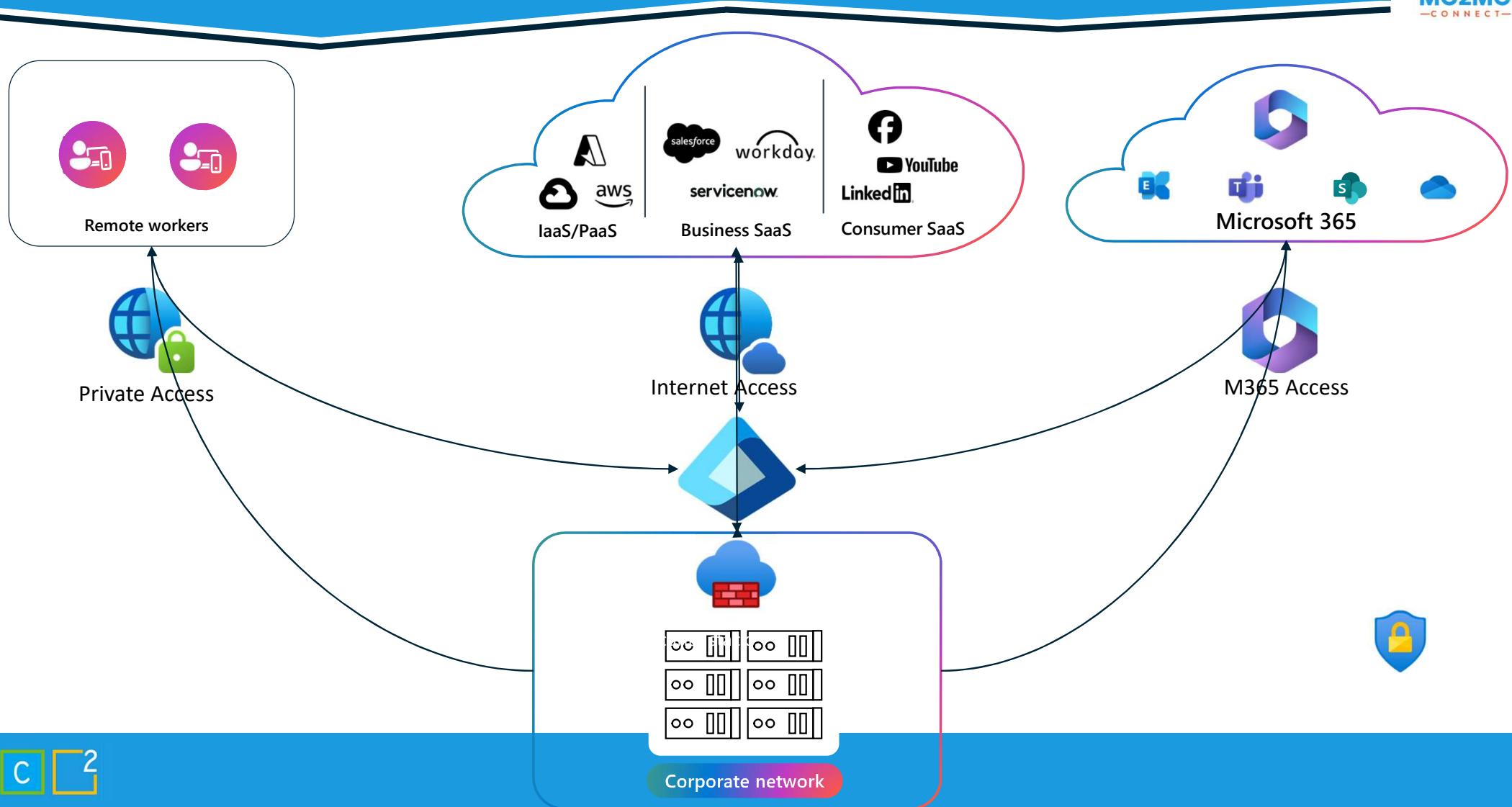
Native to Entra, secured by Conditional Access and Entra SSO

# Global Secure Access

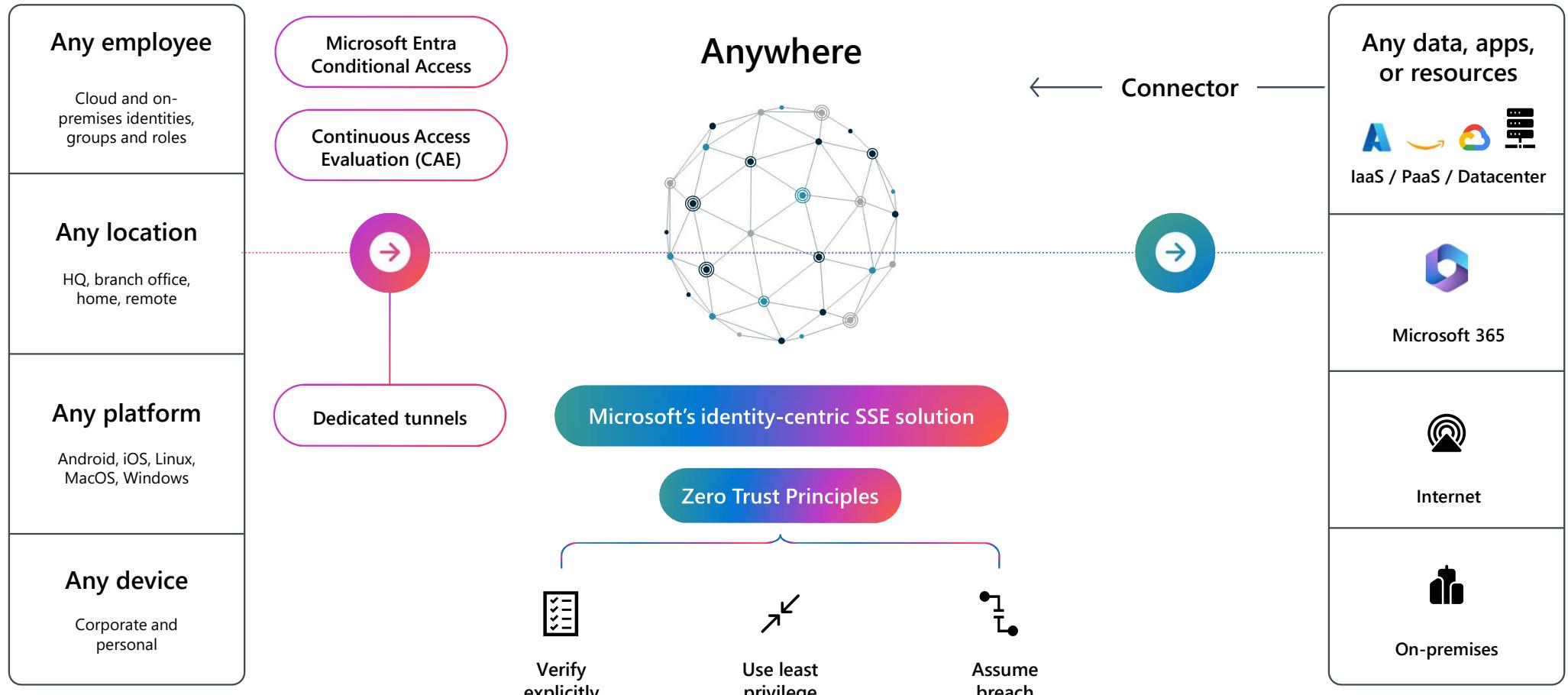


M C 2

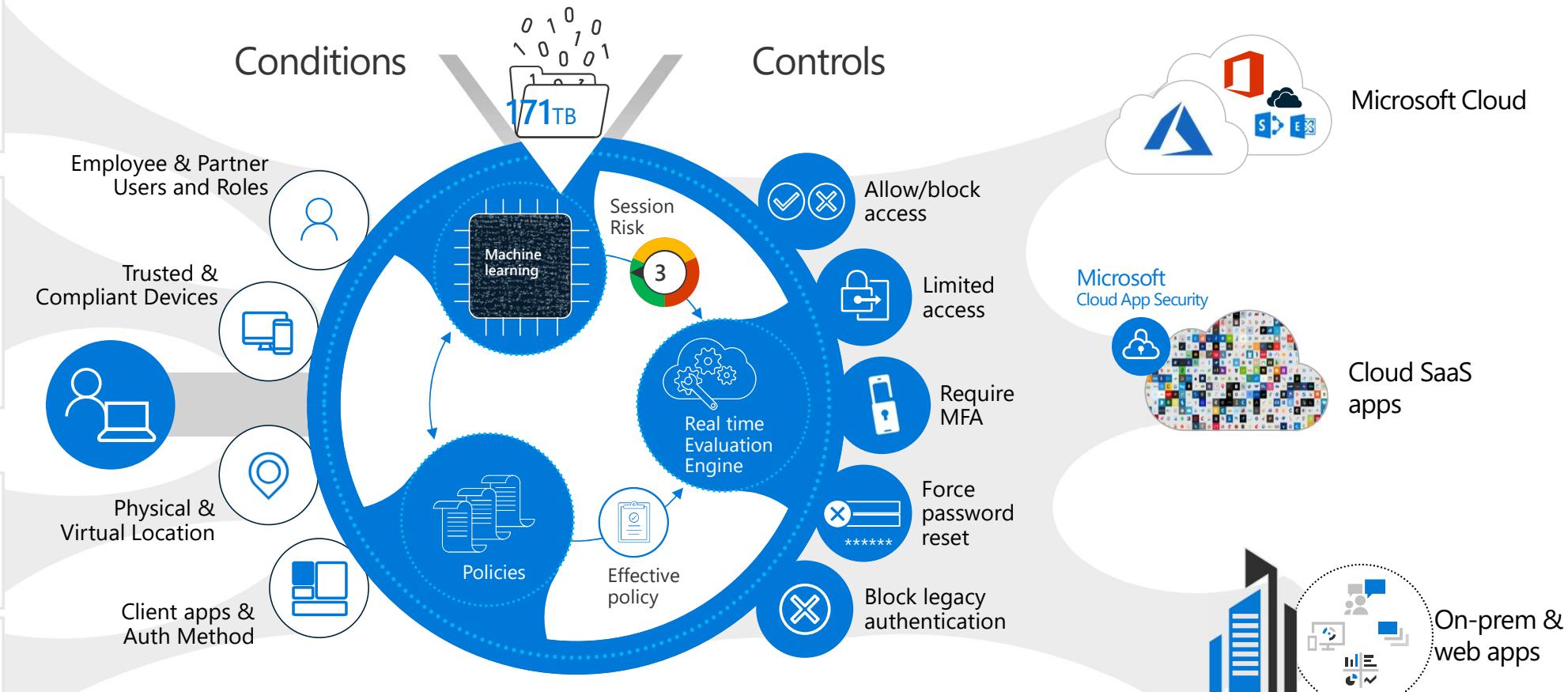
# Global Secure Access



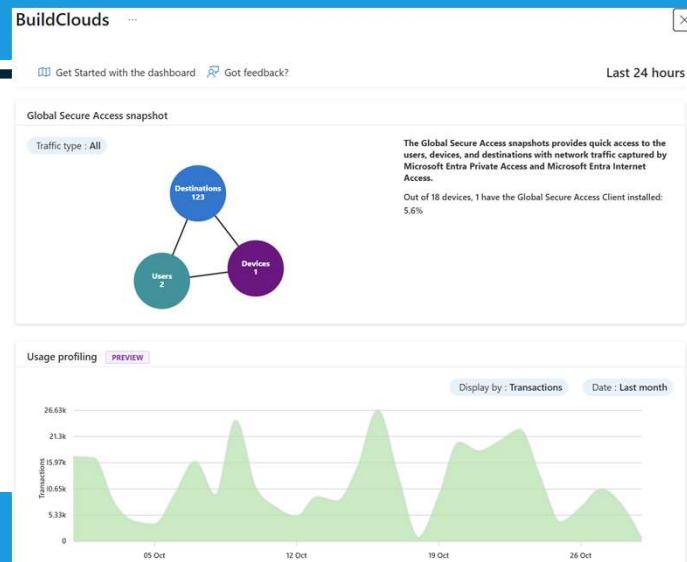
# Global Secure Access (GSA)



# Conditional Access



# Private Access



M C 2

# Legacy network security stacks are no longer sufficient

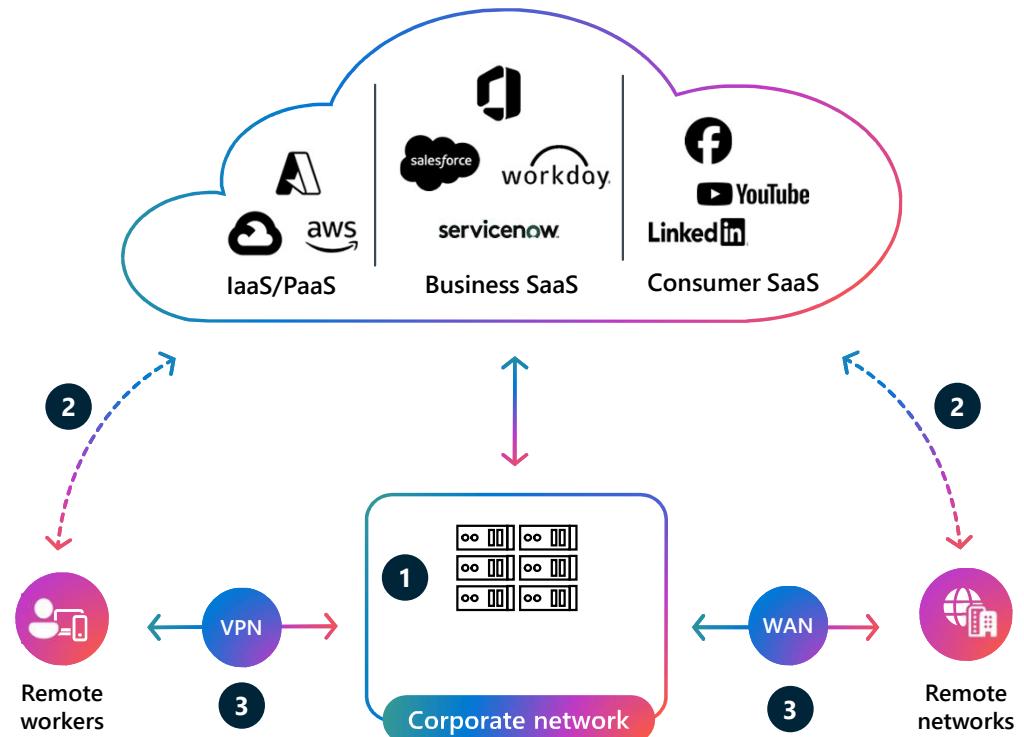
- 1 Dramatic traffic increase strains network capacity and on-prem security stack. Sub-optimal user experience on account of traffic hair-pinning.

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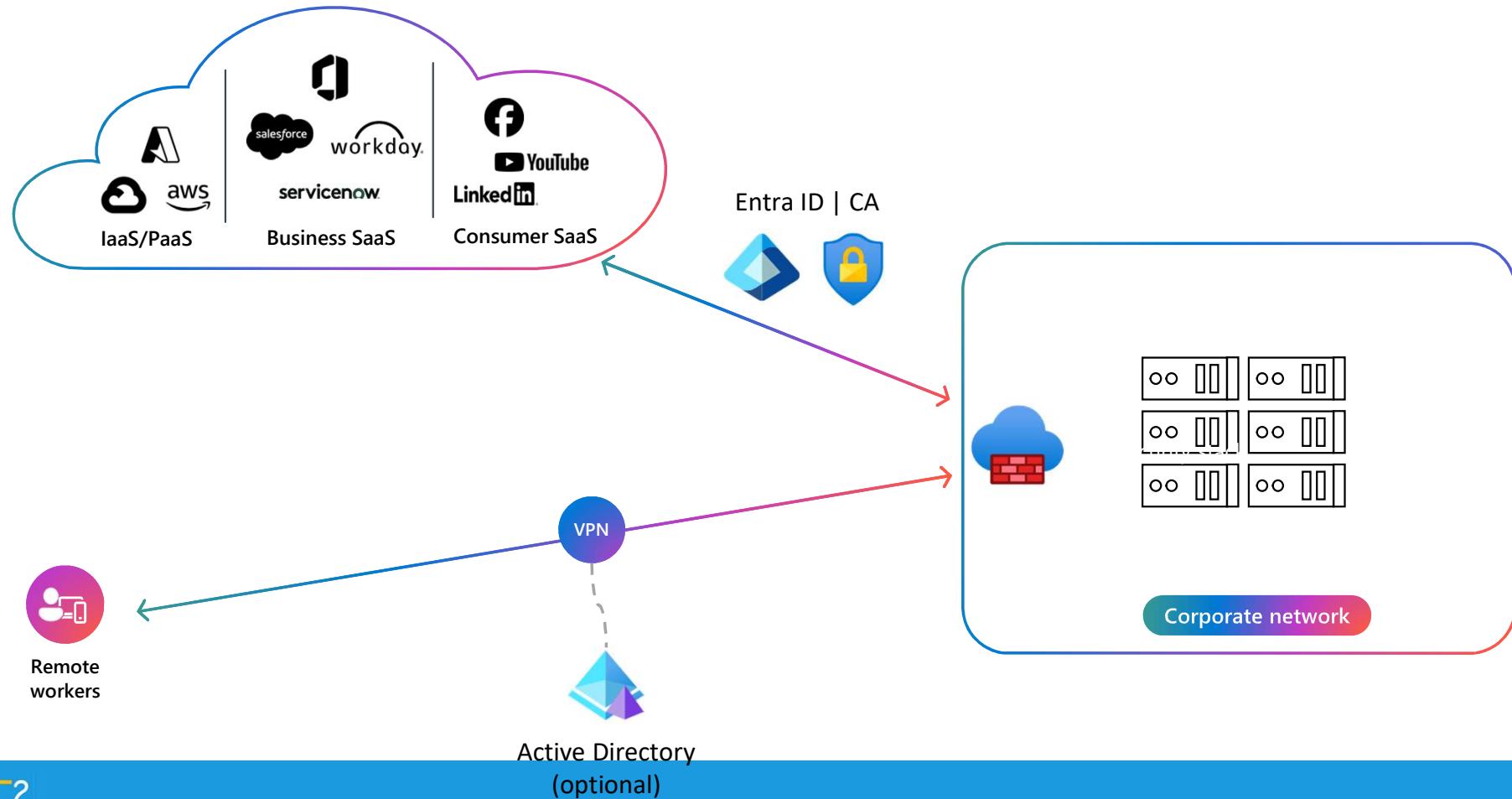
- 2 Users circumvent IT controls and access resources directly.

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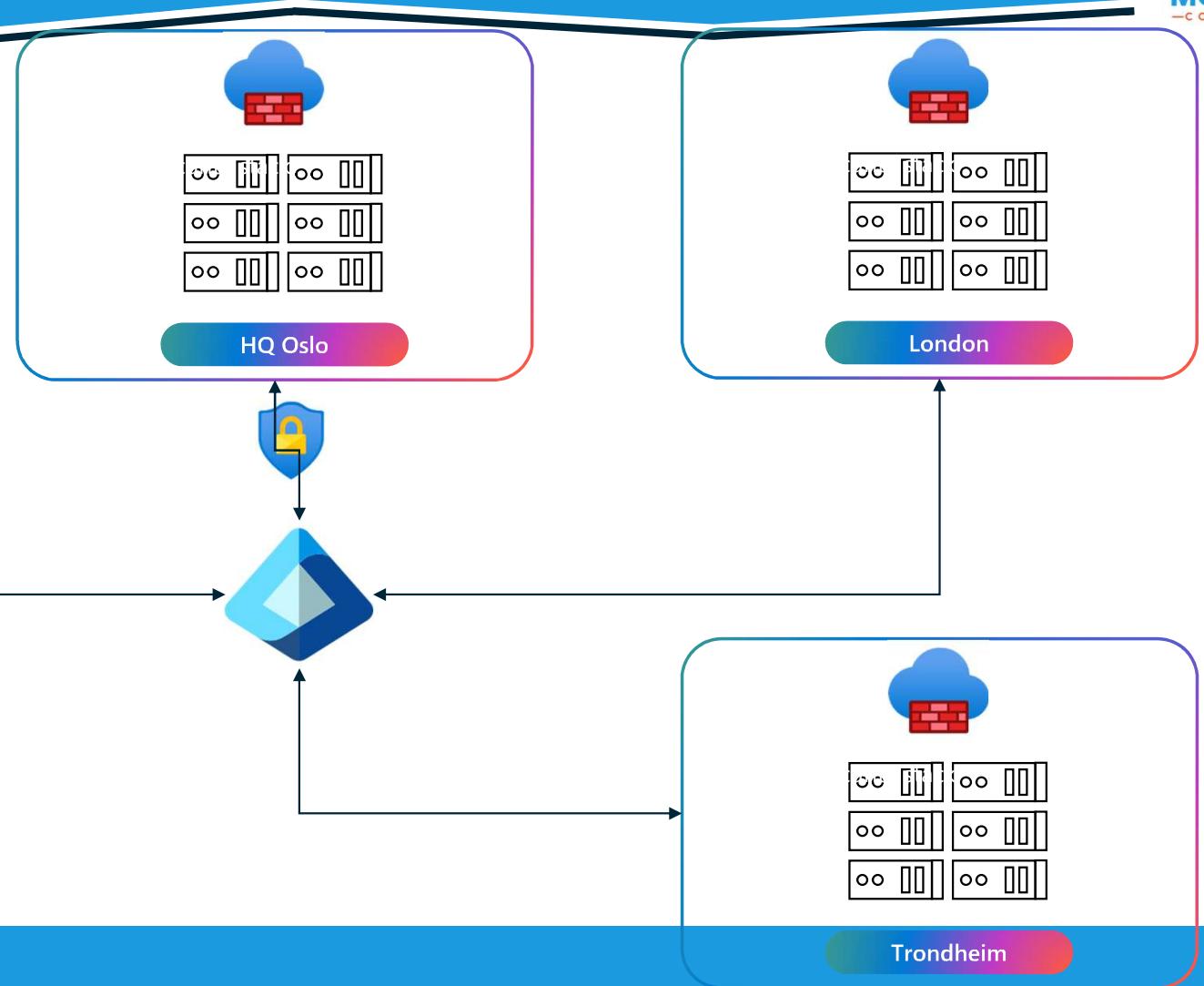
- 3 Compromised users/devices can move laterally on traditional corporate networks.



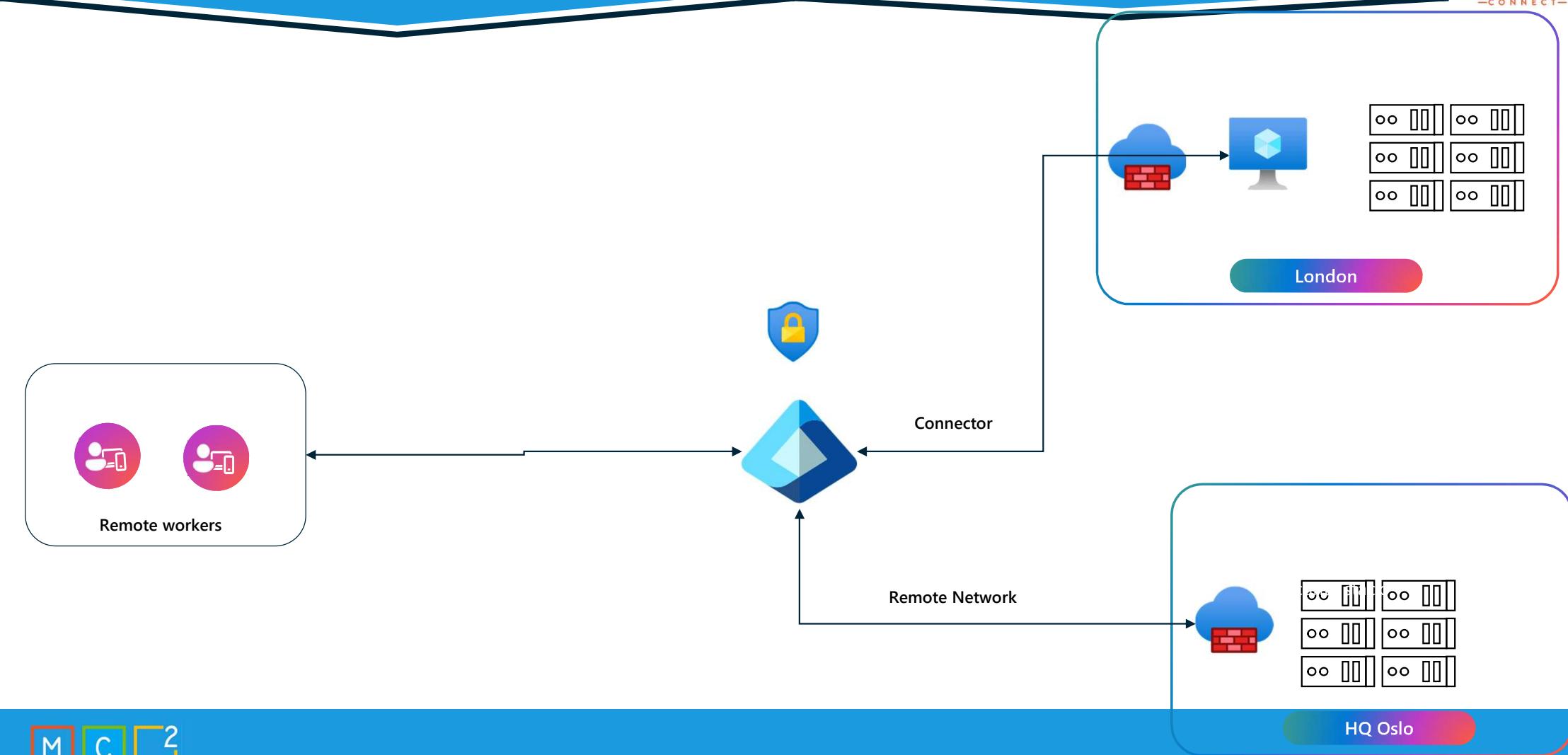
# Classic VPN



# Private Access

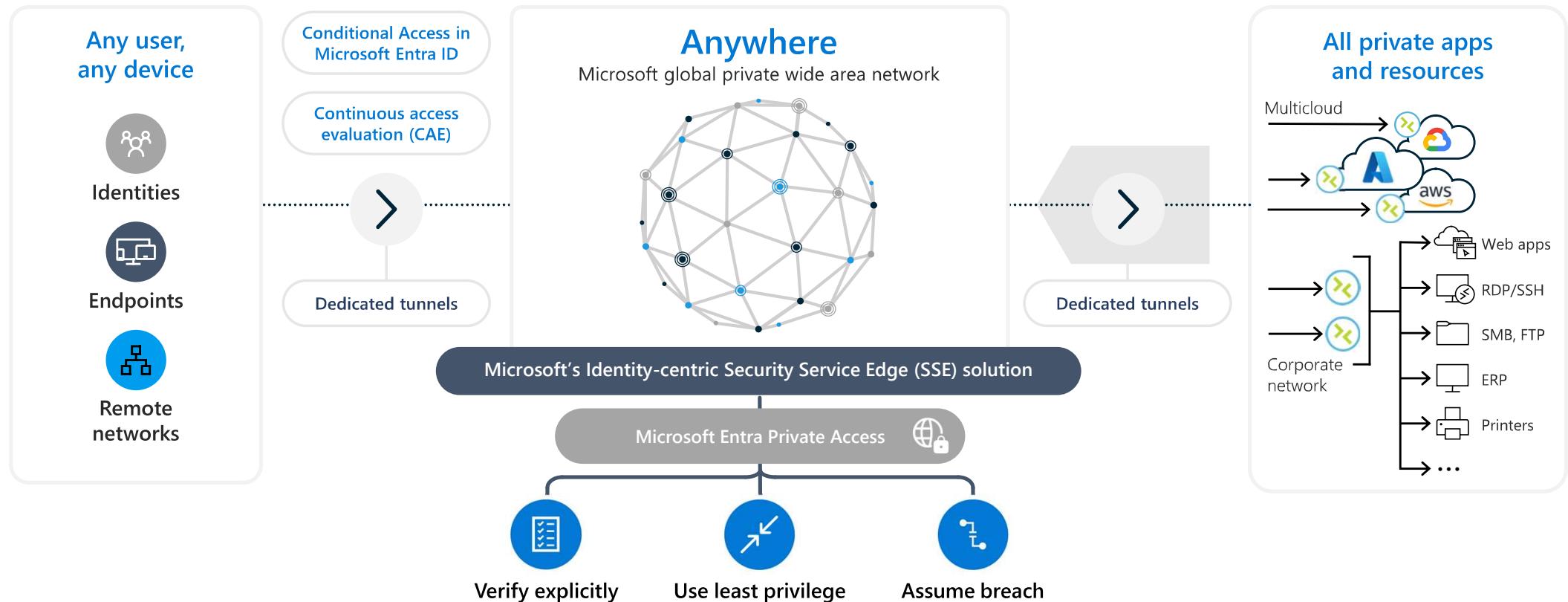


# Connect resources via Private Access

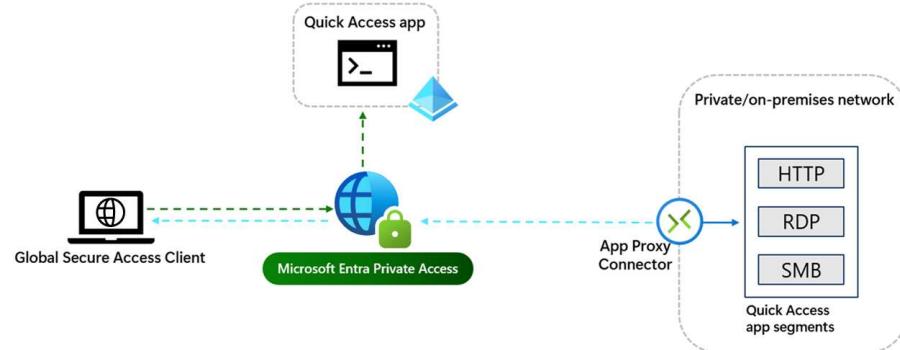


# Entra Private Access

## An identity-centric Zero Trust Network Access

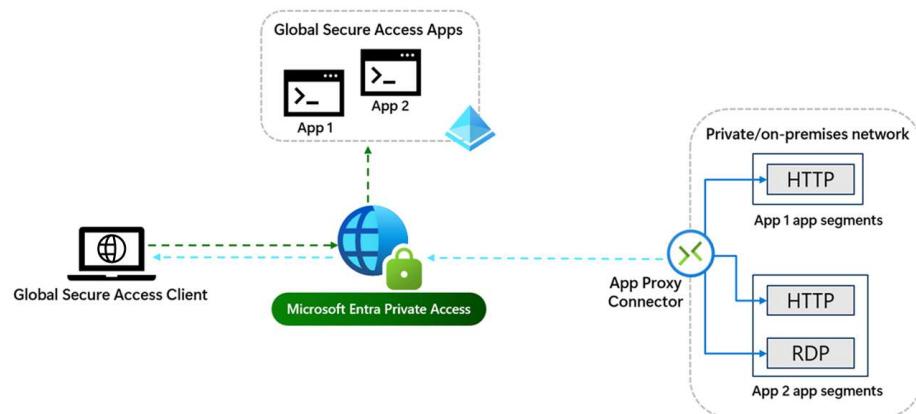


# Quick Access app



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

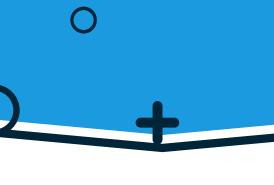
## Global Secure Access app



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



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# Demo +

# Global Secure Access

Microsoft Entra admin center

Global Secure Access

BuildClouds

Global Secure Access snapshot

Traffic type : All

Destinations 314

Users 1

Devices 1

Alerts and notifications PREVIEW

9 notifications in the last 24 hours

Alert name

The number of users accessing external tenants has increased Check cross-tenant access settings

The number of users accessing external tenants has increased Check cross-tenant access settings

The number of users accessing external tenants has increased Check cross-tenant access settings





# 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
  - 🌐 Internet Access
  - 👤 ID Governance
  - 🛡️ ID Protection
  - ✉️ Verified ID Premium

30 day free Trial is available per Service  
45% suite discount

**\$22 PUPM**  
Value of components

|  |                                     |          |
|--|-------------------------------------|----------|
|  | 1. Private Access                   | \$5 pupm |
|  | +                                   |          |
|  | 2. Internet Access                  | \$5 pupm |
|  | +                                   |          |
|  | 3. ID Governance <sup>1</sup>       | \$7 pupm |
|  | +                                   |          |
|  | 4. ID Protection <sup>2</sup>       | \$3 pupm |
|  | +                                   |          |
|  | 5. Verified ID <sup>3</sup> Premium | \$2 pupm |

Microsoft Entra ID Plan 1 is a technical and licensing pre-requisite<sup>4</sup>



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