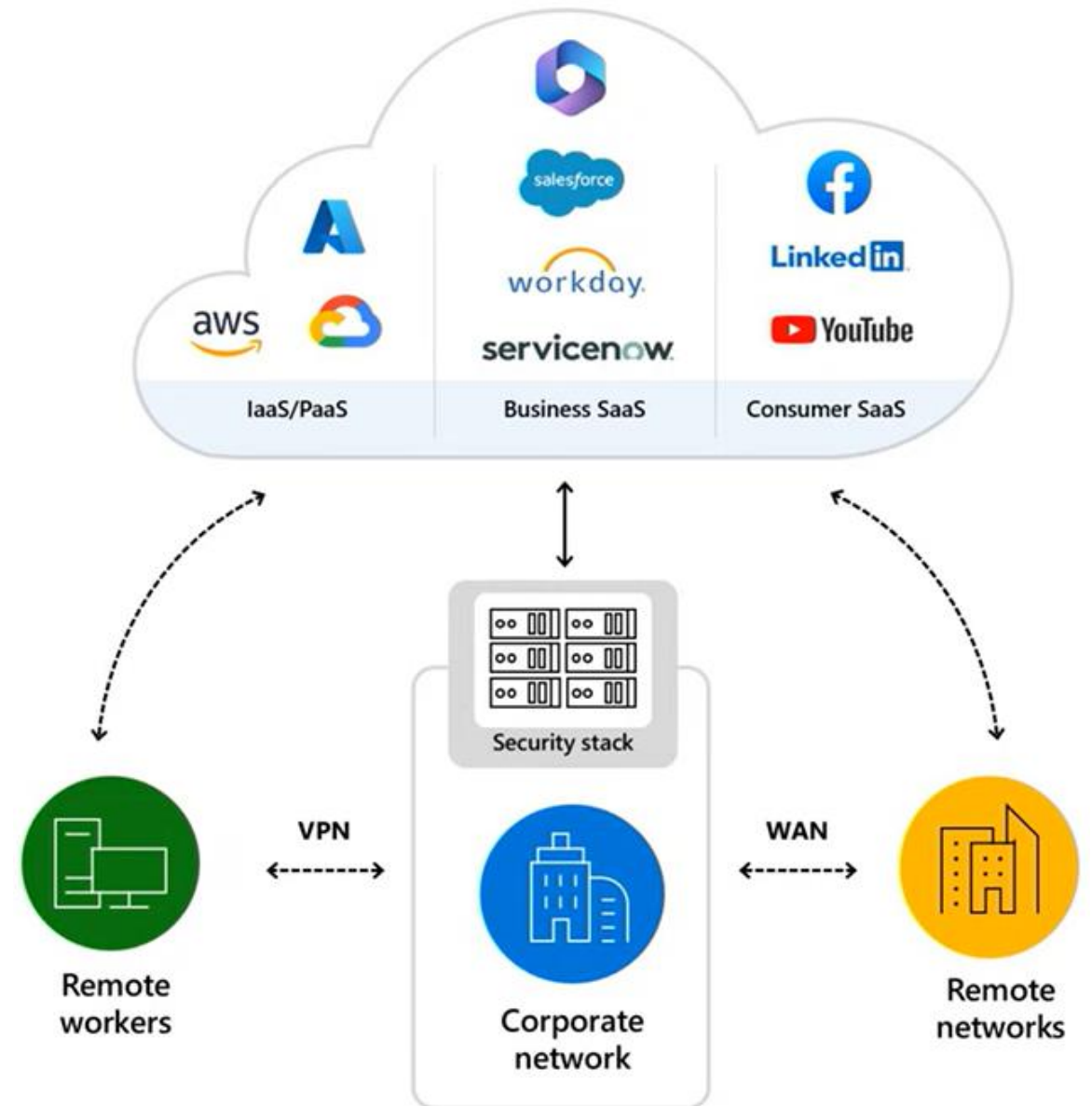avanade Microsoft

Microsoft Global Secure Access

Kudos to:

Martijn Zantinge / Roy Diepstraten /
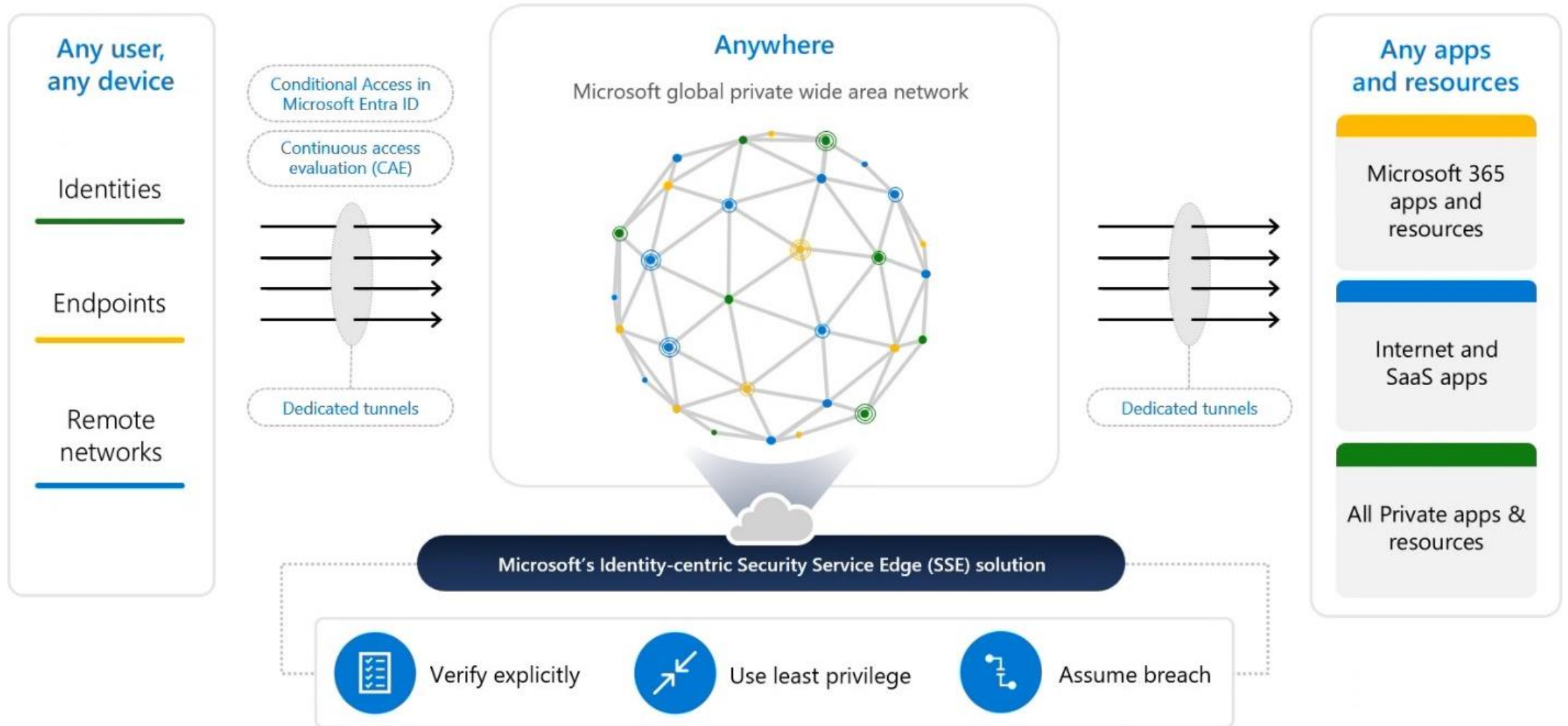Elias Ekonomou / Harri Jaakonen

Challenges addressed

Legacy network security approaches are no longer sufficient

- Inconsistent and insufficient 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 secure service edge

Any user, any device
- Identities
- Endpoints
- Remote networks

Conditional Access in Microsoft Entra ID

Continuous access evaluation (CAE)

Dedicated tunnels

Anywhere

Microsoft global private wide area network

Dedicated tunnels

Any apps and resources
- Microsoft 365 apps and resources
- Internet and SaaS apps
- All Private apps & resources

Microsoft's Identity-centric Security Service Edge (SSE) solution

- Verify explicitly
- Use least privilege
- Assume breach

Do what matters

3

Why global secure access

- Seamless and tidy integration with the Microsoft suite
- Adaptive Access controls and Source IP Restoration
- No need to redesign identity strategies and Conditional Access
- Enhance Location-based and Network-based Conditional Access criteria
- Combine Continuous Access Evaluation with the Secure Service Edge for better Zero Trust Access Model
- Secures legacy applications and protocols
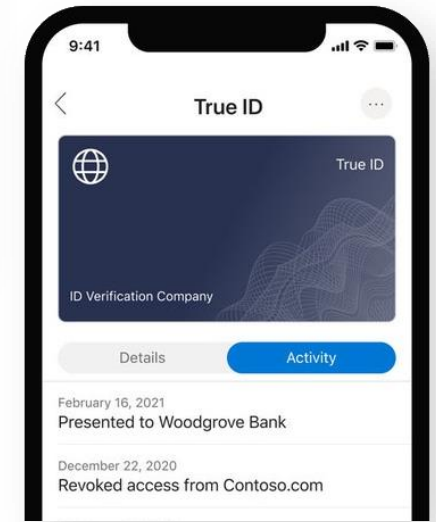- Works side-by-side with other third-party SSE

Continuous Access Evaluation

Phish-resistant MFA, Password-less Single Sign-On

Entra Verified ID

Do what matters
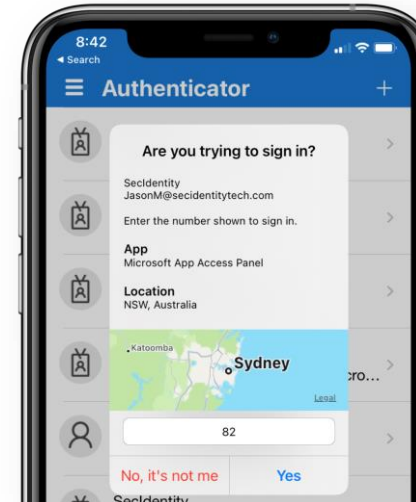
Capabilities*

* Some features and components are (partially) in Public, Private Preview or under development.

	Private Access & ZTNA	Internet Access & SWG	Internet Access for M365
Features	• Quick Access: ZT-based access to IP and FQDN • Per App access • Conditional Access for legacy app authentication • Seamless end-user experience	• Prevent use of stole tokens • Seamless apply tenant restrictions v2 • Enriched logs (SPO-only currently) • Improve risk assessment • Acquire network traffic from desktop and remote networks	• Network traffic isolation for M365 traffic • Precisely apply CAE and CA with network criteria for M365 • Enhance logs
Benefit	• Reduces needs for legacy VPN • Modern security controls for legacy apps and protocols • Adaptive access per application • Reduces siloed solutions and/or policies • Increased user experience	• Brings location and compliant network checks for Conditional Access • Increased visibility in user, device and network via Enriched logs • Improved precision on user, locations and devices details • Connect on-prem via IPSec tunnel	• Brings location and compliant network checks for Conditional Access for M365 • Increased visibility in user, device and network via Enriched logs for M365 • Improved precision on user, locations and devices details for M365 • Till now free of charge with E3 or up

Recommended approach for [CLIENT]

This was a client specific approach that uses Zscaler ZPA, but could be reused.

Internet Access

- Implement Internet Access

Depending on solution status:
- *Cloud Firewall*
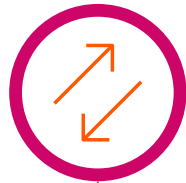- *Threat Intelligence*
- *Network DLP*

Analysis & Benefits

- Analyze current environment & requirements
- POC: Side-by-side setup
- Report on: Cost Reduction, User Experience & Approach

Side-by-side

- Quick wins
- Side-by-side implementation
- Internet Access for M365

Private Access

- Phased transition to Private Access
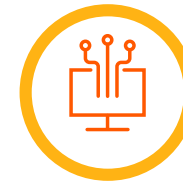- Remote location onboarding (Branch Offices)

Next Steps

- Strategy & Plan to Zero Trust

Phase 1	Phase 2	Phase 3	Phase 4	Additions

Do what matters

Next Gen Security Service Edge – Microsoft SSE

An agile approach to rapidly adopt Microsoft SSE, realizing value and improving Zero Trust adoption.

SSE Discovery Workshop

Current State Analysis, analyze your current SSE approach and capabilities.

Future State with Microsoft SSE define the migration path from your current approach to Identity driven SSE and Internet Access.

3 – 5 days

SSE Quick Start

Rapidly Deploy Microsoft SSE and onboard initial key 3 use cases as part of a production pilot.

Test, Validate and Pilot the new use cases with Pilot group and **measure the value**.

2 – 3 weeks

Modernize

With the key 3 use cases proven and value identified, **shift to a factory modernization approach** to onboard further use cases based on priority and usage.

Complete the transition and scale down through to full **decommission of previous SSE**.

Center of Excellence model

Manage, Defend and Evolve

Manage SSE, leveraging its capabilities to **proactively defend your environment** and our evolution approach to **maximize value and usage**, increasing ROI. Through continual onboarding, and adoption of features.

Manage, Defend and Evolve service

Do what matters

avanade

Microsoft SSE Journey

Discovery | Quick Start | Modernize

Microsoft SSE provides a differentatiated Zero Trust Network and Internet Access solution which enables secure, Zero Trust driven access to any resources from anywhere.

Differentiation comes in the form of deep Microsoft integration lead by the deepest integration into Microsoft and M365 that is possible in the market, making the most of Microsoft strength within it's global network and market leading Identity security capabilities.

Our approach is designed to release value from Microsoft SSE rapidly, bringing benefits to the user experience and security posture from day 1.

Important focus areas:

- Identity how your current SSE solution is being used
- Identity the key use cases for current usage i.e. 3rd party access, Finance App access
- Identify the key 3 use cases to begin a migration and modernization journey

1

Share and Discuss – 1 – 2 hours

How to get started with Microsoft SSE, including an overview of our Microsoft SSE Discovery Workshop approach.

2

Avanade SSE Discovery Workshops 3– 5 days

Current State Analysis, analyze your current SSE approach and capabilities.

Future State with Microsoft SSE define the migration path from your current approach to Identity driven SSE and Internet Access.

3

SSE Quick Start – 2 – 3 weeks

Rapidly Deploy Microsoft SSE and onboard initial key 3 use cases as part of a production pilot.

Test, Validate and Pilot the new use cases with Pilot group and measure the value.

Follow on
With the key 3 use cases proven and value identified, shift to a factory modernization approach.

Do what matters

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