

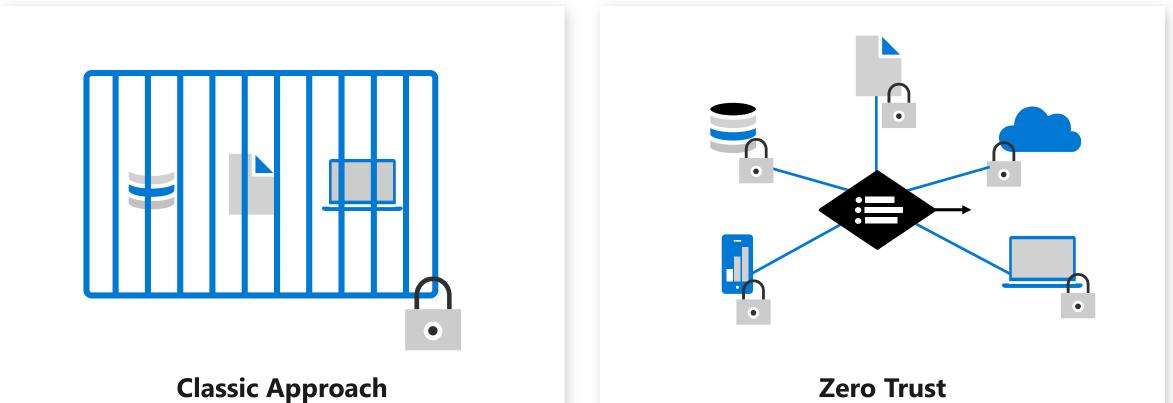
Strengthening Security Foundation with Zero Trust 零信任強化資訊保安基礎

Kevin Liu, CISSP, CEH, ITIL Security and Modern Work Technical Specialist



Secure assets where they are with Zero Trust

Simplify security and make it more effective

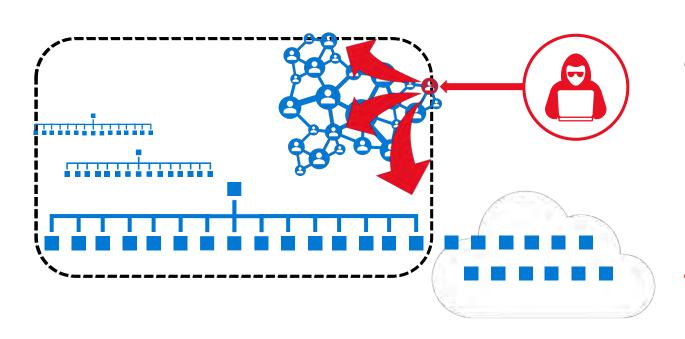


Restrict everything to a 'secure' network

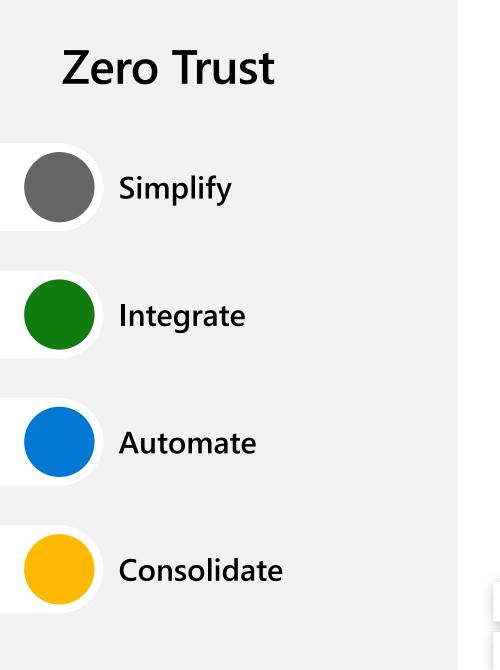
Protect assets anywhere with central policy

Why Zero Trust is important?

Keep **Assets** away from **Attackers**

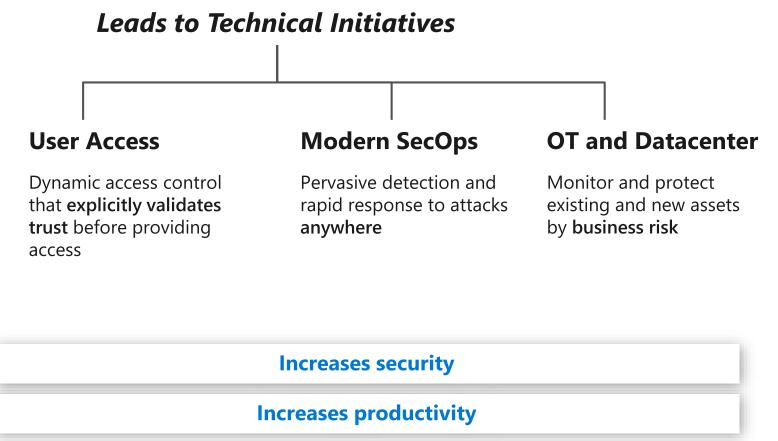


- 1. IT Security is Complex
 - Many Devices, Users, & Connections
- 2. "Trusted network" security strategy
 - Initial attacks were network based
 - Seemingly simple and economical
 - Accepted lower security within the network
- 3. Assets increasingly leave the network
 - BYOD, WFH, Mobile, and SaaS
- 4. Attackers shift to identity attacks
 - Phishing and credential theft
 - Security teams often overwhelmed



Security Strategy for

- **business assets** (data, applications, devices)
- **everywhere** (private & public networks)



Microsoft Zero Trust Principles

Guidance for technical architecture



Verify explicitly

Always validate all available data points including

- User identity and location
- Device health
- Service or workload context
- Data classification
- Anomalies

Use least privilege access

To help secure both data and productivity, limit user access using

- Just-in-**time** (JIT)
- Just-enough-access (JEA)
- Risk-based **adaptive** polices
- Data protection against out of band vectors



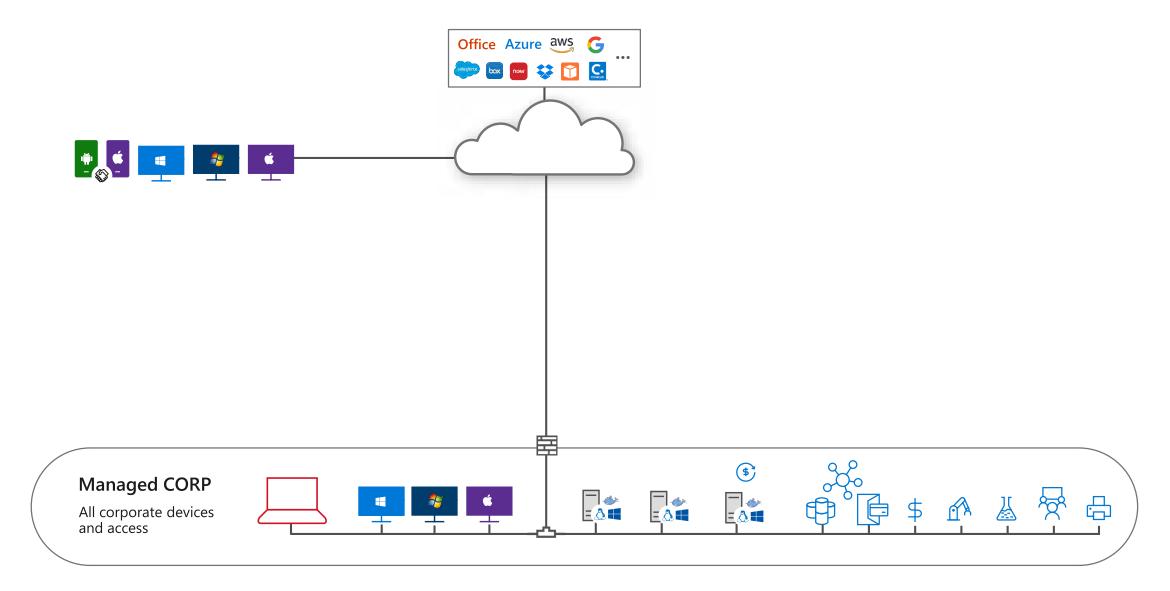
Assume breach

Minimize blast radius for breaches and prevent lateral movement by

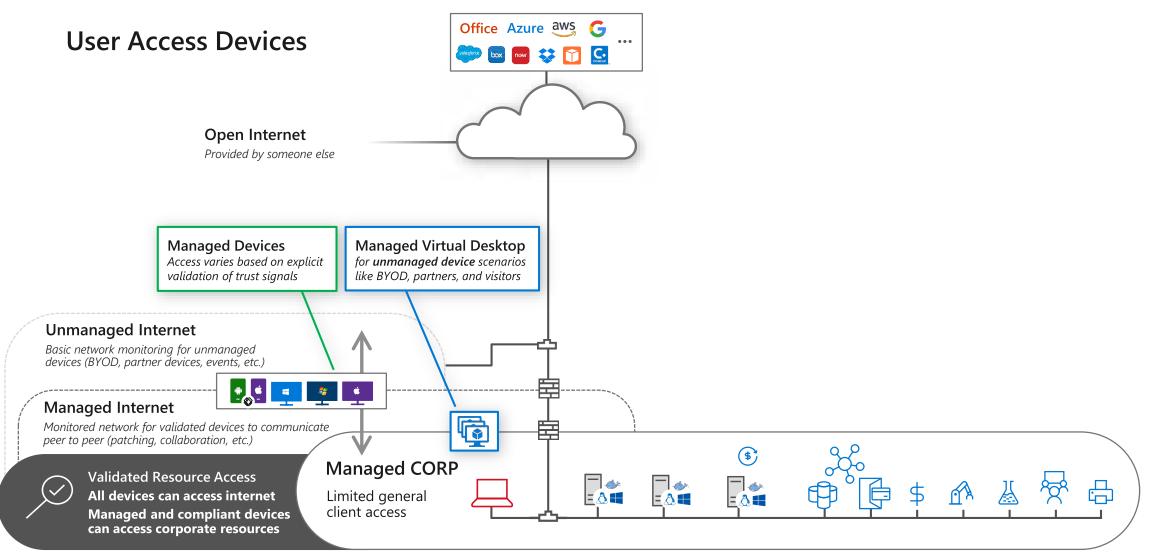
- Segmenting access by network, user, devices, and app awareness.
- **Encrypting** all sessions end to end.
- Use analytics for threat detection, posture visibility and improving defenses



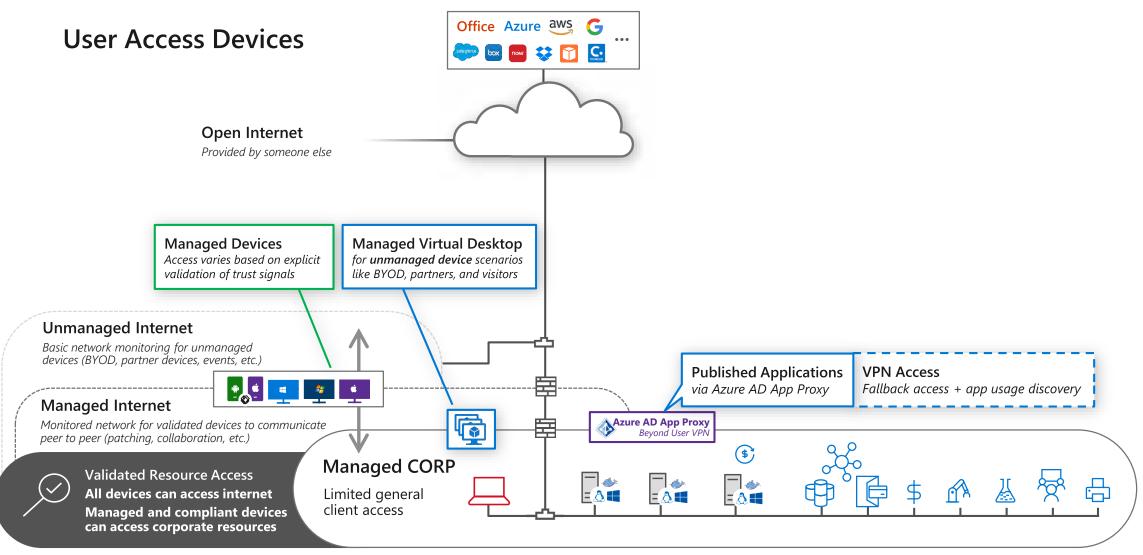
Typical 'Flat' Network



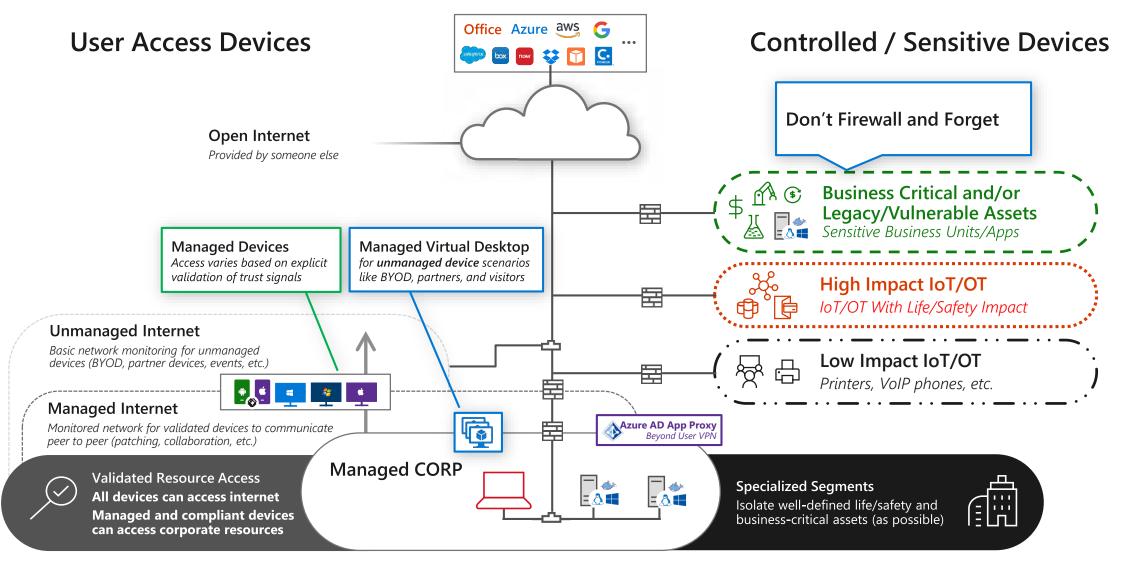
Zero Trust – Client Security Transformation



Zero Trust – App Access for Clients



Zero Trust – Network Segment Transformation

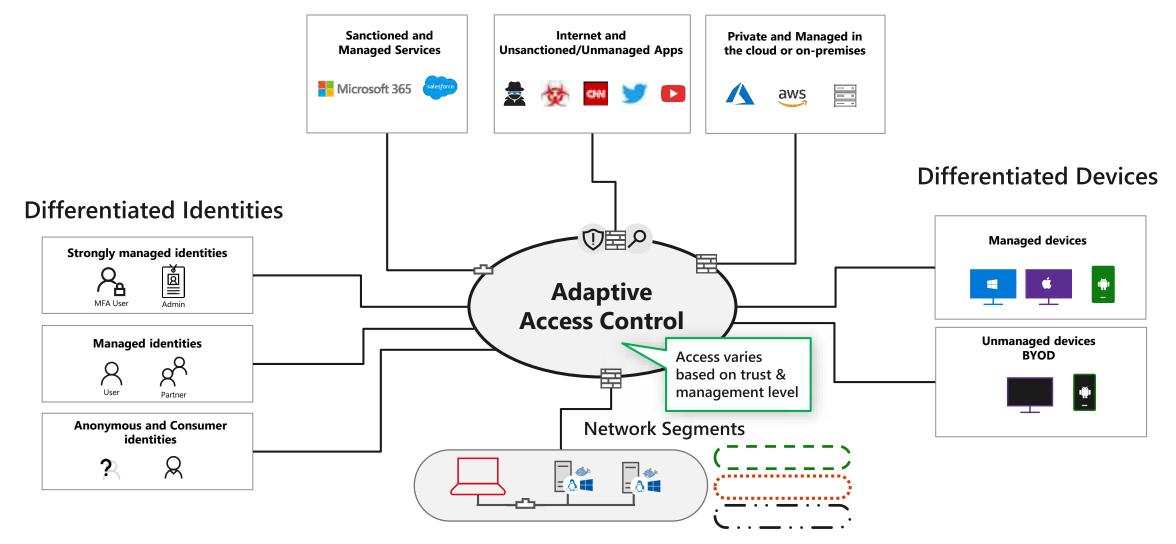


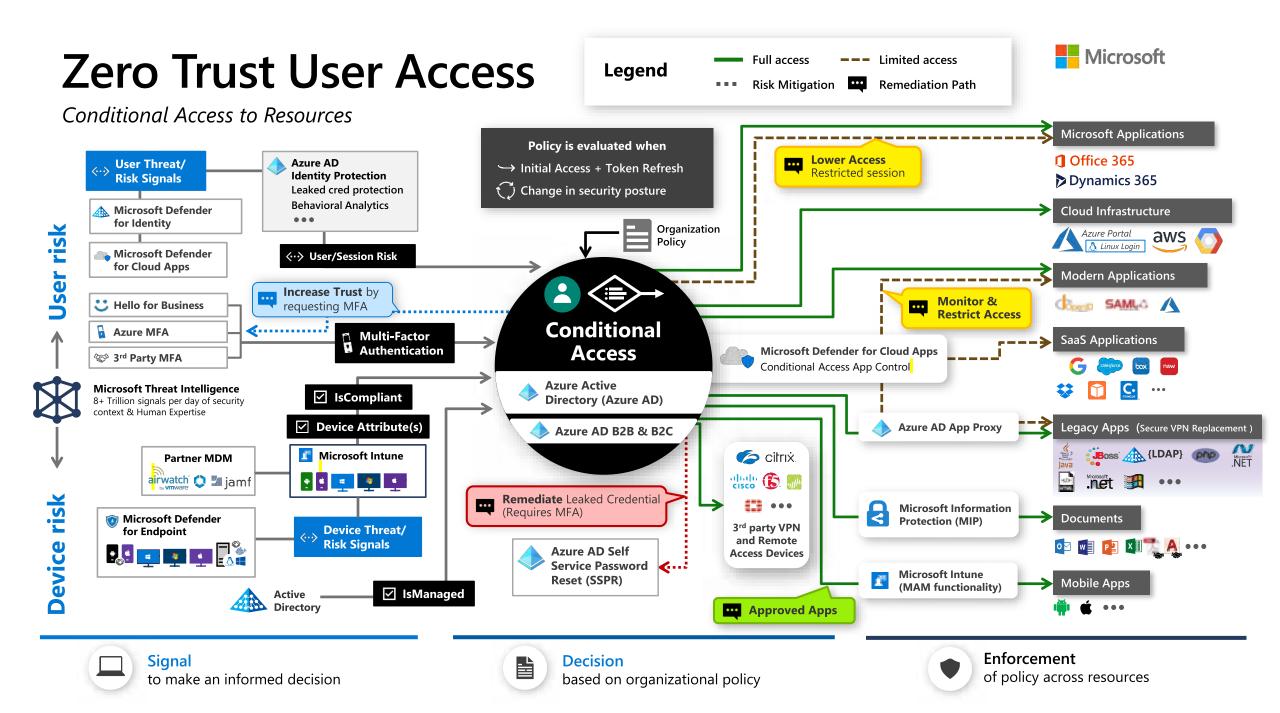
Spans on-premises & multi-cloud environments

Full Zero Trust End State

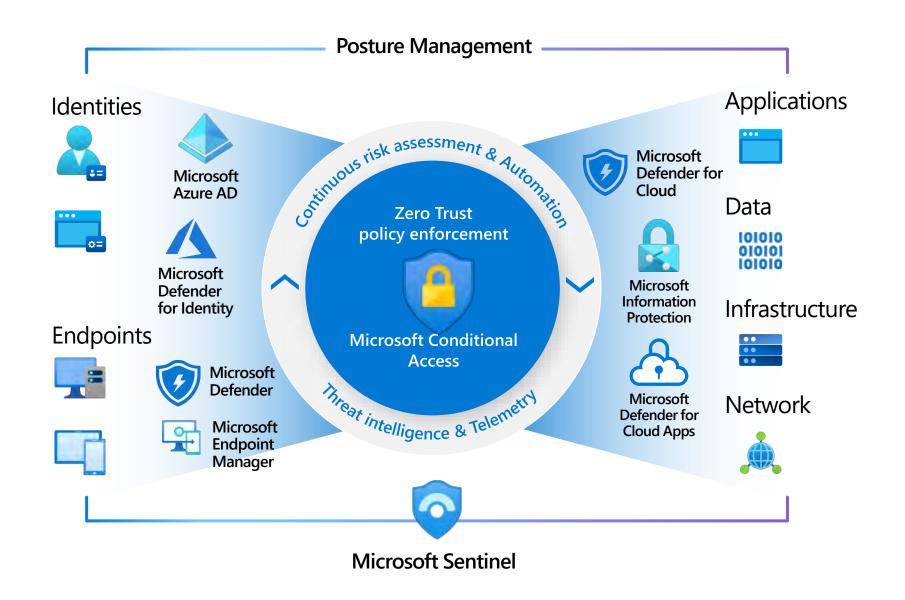
Bringing the best of both worlds

Differentiated Resources





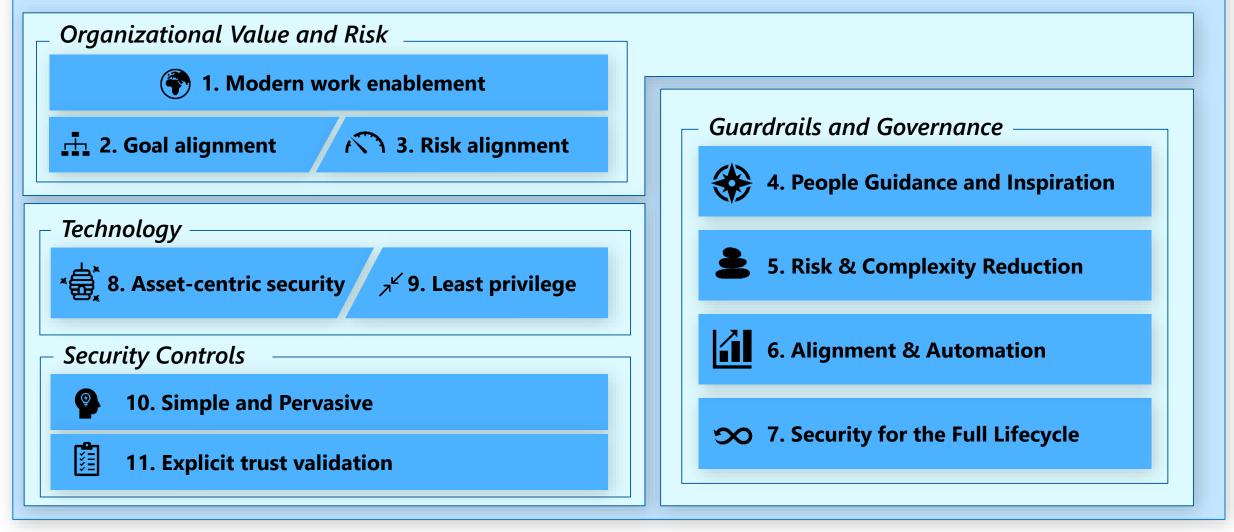
Microsoft Zero Trust Capabilities





Den Zero Trust Core Principles

Business Strategy and Organizational Culture – Shapes Zero Trust Strategy and Priorities



Microsoft Security

Product categories

Identity	Security	Compliance	Privacy	Management
Microsoft Entra	Microsoft Defender	Microsoft Purview	Microsoft Priva	Microsoft Endpoint
	Microsoft Sentinel			Manager





Thank you!

http://aka.ms/security