ZERO TRUST SECURITY



Microsoft 365



Why Security is Relevant to You

- 33% of Australian Businesses have experienced cybercrime with an average cost of \$276,000 (23 to 51 days to recover).
- COVID has resulted in an unprecedented adoption of cloud services – functionality taking precedence over security.
- Many businesses have not addressed the changes to the security landscape.







Agenda

Today we will:

- Discuss what Zero Trust is and explore its key components
- Review Microsoft's solutions to these modern threats and challenges
- Present some of Jasco's security offerings powered by the Microsoft engine

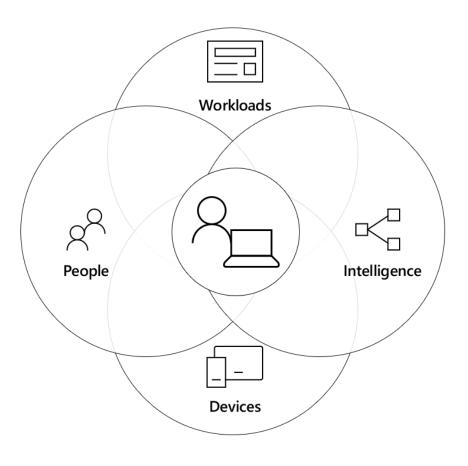




MODERN SECURITY



What is Zero Trust?



Principals

access

•

• Verify explicitly

Least privileged

Components

- Identity
- Devices
- Applications
- Data
- Infrastructure

- Network
- Assume breach



Why is Identity important?

CLOUD!!!

- The security boundary is no longer the firewall
- Is the first line of defence in a cloud first world
- Aligned with every sign-in, application or data transaction, and defines privilege

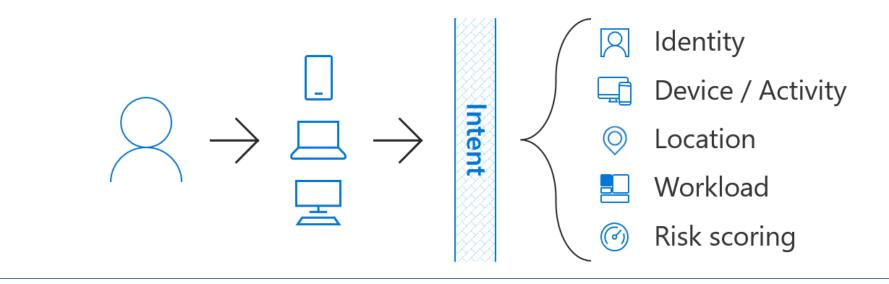




Devices

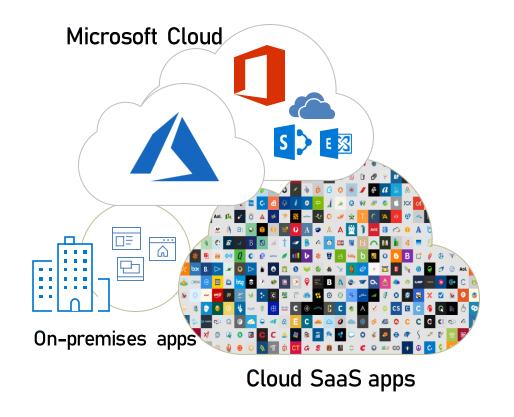
- Remote work demands greater levels of control, access, and device management
- Traditional device management solutions do not reach past the (old) security boundary

 Key to facilitating a successful and secure BYOD strategy





Applications

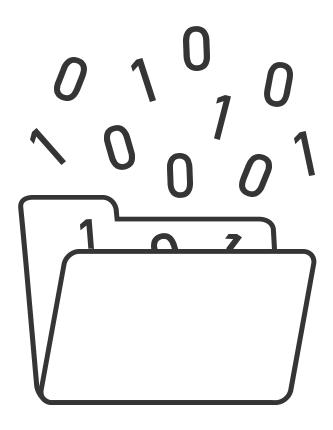


- Shadow IT is often an important but invisible risk to the business
- Unsanctioned apps pass on their own insecurities to the business
- May impact upon regulatory compliance responsibilities



Data

- Corporate data is the life blood of a business
- Leakage of sensitive information may result in stolen IP, fines due to noncompliance, and impact to company brand





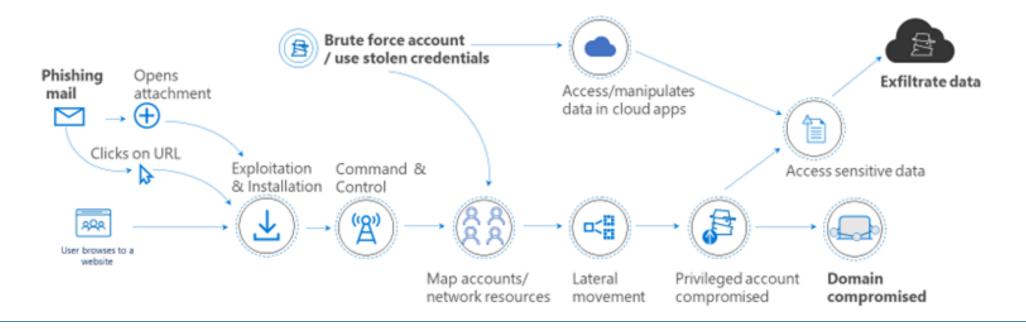
External Threats

• Malware

• Credential theft and infiltration

• Email threats

• Ransomware





Internal Threats

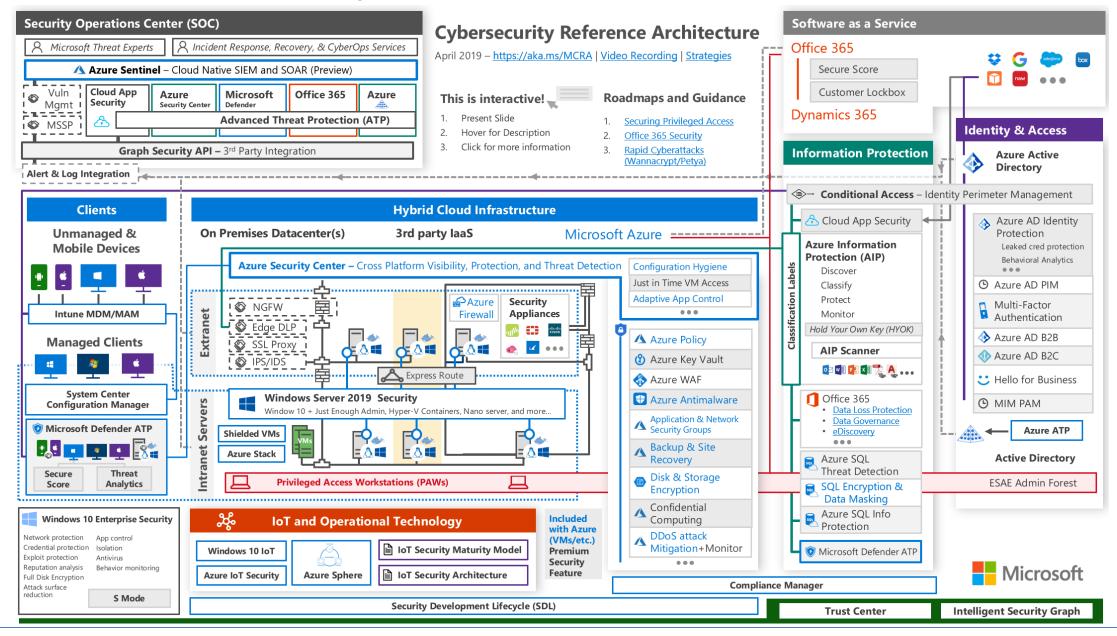
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- Data and IP Leakage
- Malicious insiders
- Shadow IT
- Unsecure Devices



MICROSOFT SOLUTIONS

Microsoft's Security Architecture





Azure Active Directory (AAD)

- Single sign-on simplifies access to your apps from anywhere
- A single identity platform lets you engage with internal and external users more securely
- Gartner recognised access management leader in 2020 ^





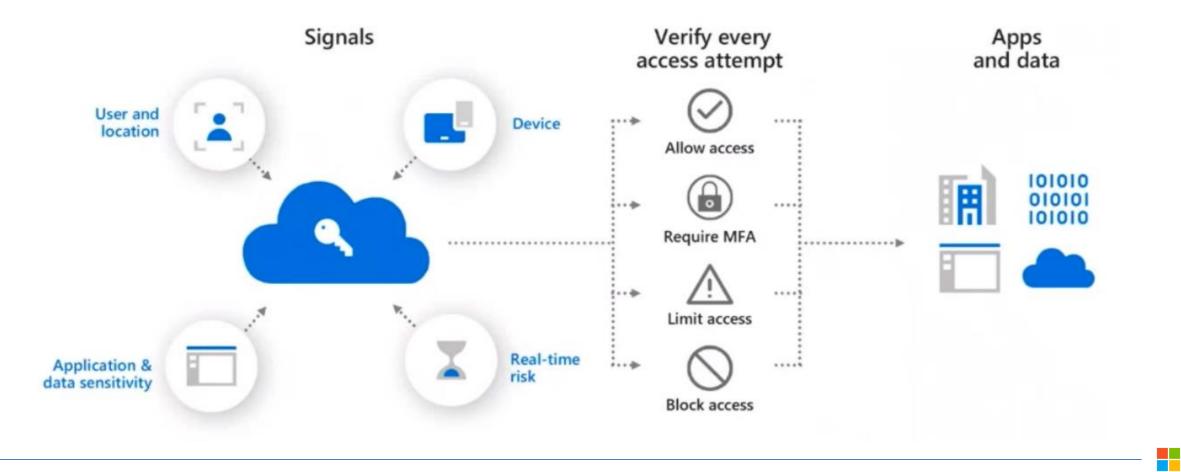
Multi Factor Authentication



- Remove the insecurities of outdated password management processes.
- MFA (or 2FA) secured accounts are 99.9% less likely to be compromised. ^
- Protect access to resources using three key principles



Conditional Access





Microsoft Endpoint Manager

Formerly known as Intune

- Centrally manage your fleet of workstations and mobile devices regardless of their locations
- Extend on-premises Configuration Manager capabilities to the cloud
- Provision new corporate devices from anywhere
- Introduce a BYOD strategy securely

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Exchange Online Protection

- Reputation Filtering
- Spam and Spoof protection
- Anti-Malware
- Content Filtering
- Zero Hour Auto-purge





Microsoft Defender for Office 365 (MDO)

Formerly Office 365 Advanced Threat Detection (0365 ATP)

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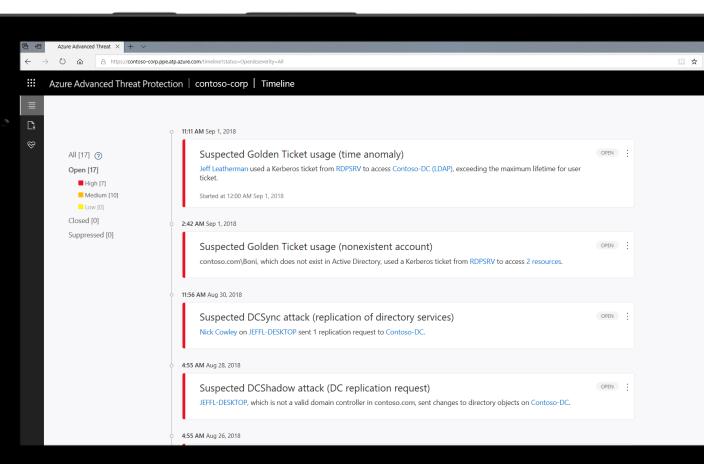
- Exchange Online Protection features.
- Zero Day attack defence.
- Content Filtering and Anti-Malware for Teams, SharePoint, and OneDrive.
- Email and Password Attack Simulation.



Microsoft Defender for Identity (MDI)

Formerly Azure Advanced Threat Detection (Azure ATP)

- Protect against identity compromise
- Prioritised information to focus on real threats
- Identify vulnerabilities before attacks happen





Microsoft Defender for Endpoint (MDE)

Formerly Windows Defender Advanced Threat Detection (Windows ATP)

Threat & Vulnerability Management	dashboard			Top security recommendations 4/51
Organization exposure score	Organization configurati	on score	Machine exposure distribution	Based on highest organizational exposure impa
Exposure score This score reflects the current exposure associated with machines in your organization ©	Configuration 292 / 578 This score reflects the collect configuration posture of you Application. Network, Accourt	ive security r machines across OS,	Exposure distribution Exposed machines are easy targets for cybersecurity attacks. Ensure that these machines can receive security updates, have critical security controls, and are properly configured.	Update Chrome 2 Exposed machines * 25.20 Software patch
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36/100 Low 0-29 Medium 30-69 High 70-100	OS Network	45 / 175 32 / 62	2 Total	Turn on PUA protection
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100	300			Show more Show exceptions

- Endpoint detection and response
- Threat and vulnerability management
- Automated investigation and remediation
- Next generation protection and attack surface reduction



Microsoft Cloud App Security (CAS)

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Microsoft Skype for Business Microsoft Support - General Microsoft Word Online - General Office 365	910 Open alerts New over the last month + RECENT ALERTS		BY SEVERITY BY ALER)9 Custom
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 Microsoft OneDrive for Business Microsoft SharePoint Online 	Alert on new API token creation Mike Microsoft Cloud App Security	36 minutes ago	Top 3 alert types 24 Access policy alert	
Microsoft Exchange Online Amazon Web Services - US	Impossible travel activity Super Admin (mcas-test9) 3 services	4 hours ago	23 Activity policy alert	
Box - USSalesforce - US	View all alerts in the last month		System alert Cloud Discovery automatic log upload	error
Microsoft Power BI				
 Microsoft Teams Microsoft Cloud App Security G Suite - US 	1,177 Activity matches New over the last month -	224	432 Content matches New over the last month -	<u>0</u> 1
Vammer	420 Potential ransomware activity		1 Malware detection	

- Centralize and control cloud app activity
- Discover Shadow IT and enforce policies to manage cloud usage.
- Protect your sensitive information anywhere in the cloud.
- Assess the compliance of your cloud apps.



Microsoft Sentinel

Security Event and Incident Management (SEIM) and Security Orchestration and Response (SOAR)

- Gathers security events across
 multiple platforms
- Related events are collated into incidents for review and correction
- Uses configured policies and machine learning to automate corrective action





JASCO OFFERINGS



Jasco's Flexible Approach

- Not every Business is the same
- Tiered offerings to address customers of multiple profiles
- Consultancy and Tailoring!!!





Tier 1 – Security Essentials

Providing visibility for Identities, Users, and Devices without borders



Objectives

- Protect against common external threats.
- Ruin Attacker's Return on Investment (AROI).
- Provide visibility of your security standing and security events.

Components

- Modern Authentication Multi Factor Authentication and Conditional Access
- Device management and security Windows Defender, Log Analytics, Endpoint Manager
- Spam, Phishing, and Malware protection
 Exchange Online Protection
- Office 365 Access Control and Reporting

 Conditional Access App Enforced
 Restrictions



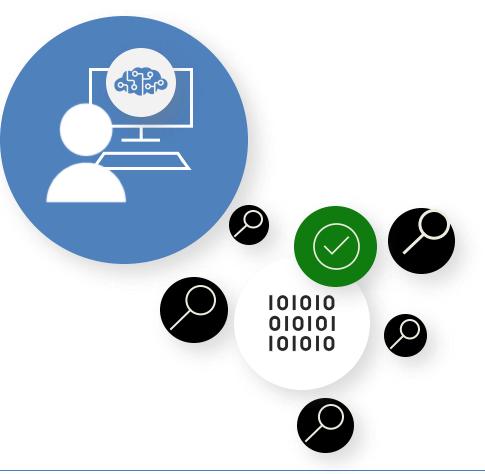
Tier 2 – Security Enhanced

Adding enhanced Visibility, Protection, and Insider Risk Management

Objectives

In addition to Security Essentials:

- Protect email against zero-day attacks and educate staff on how to identify phishing attempts – Microsoft Defender for Office 365
- Track and understand non-standard behaviours using Heuristics and Machine Learning – Microsoft Defender for Identity
- Track, Isolate, and Automate compromise remediation – Microsoft Defender for Endpoint
- Remove Shadow IT risks Microsoft Cloud App Security





Thank You