

Protecting your
Microsoft systems - how
to sleep easily in a
hostile world

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CUSTOMER DAY 2023



What we'll cover

1 Introduction – why we're here.

Basic Security Principles

3 PaaS / SaaS / On Prem

Business Central Specific

4 Entra ID (Formerly AAD)

5 Quick Wins

6 Entra Apps (Service Principles)

7 GDAP



Introduction

Why we're all here.

- Shared Responsibility (even on SaaS)
- Onus no longer on BC\CRM Partner (GDAP)
- Know it or not, you'll have cloud presence
- MS give us lots of tools use them





Why we're all here.

- 70% ransomware effected orgs have fewer than 500 employees
 - SME primary victims of ransomware attacks
- 200% increase Human operated attacks.
 - Ransomware as a service. Affiliate Program.
- 99% of attacks prevented by 'basic security practices'
- 4000 identity attacks block per second.
- 80-90% of all compromises originate from BYOD
 - Re-enforces message of user awareness\training

June '22 to June '23
Microsoft Digital Defense Report 2023







Basic Security Principles

- Assume breach!!
 - Continuous Monitoring. Zero Trust
- Policies and User Awareness
 - MFA\CA\Secure Defaults no real expertise required
 - User Awareness and Training (i.e Simulated Phishing test see KB)
- Monitor and log
 - Azure Monitor (alerts)
 - Sign in\Audit Logs
 - Regular Reviews (Risky Sign-ins)



PaaS



- Strong Authentication (MFA\CA)
- Subscription RBAC
- NSG. Block 3389, 80
- AAG \ WAF
- Patching
- DR \ Backups
- Security Centre
 - Secure Score, Security Recommendations





SaaS



- Strong Authentication (MFA\CA)
- Admin Centre Access
- Service Tags
- Service Overview (QR next slide)
- Review Delegated Admins
- Telemetry
 - Deprecated Protocols
 - Sign-In Activity





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BC SaaS Service Overview





On Prem



- Still use AAD\EntralD*
- SSL
- Server hardening\patching
- Disable old protocols. Tls1.0, 1.1



*Nav 2015 and above



General Azure



- App functions
 - Authentication
 - Key management Key vault
- Storage Accounts
 - Shared Access Signature
 - Rotate Keys. Key Vault
 - NSG, Private Endpoint, Disable public access





Business Central – non platform specific

- Basic Auth
 - SharePoint
 - SMTP
- Change Log. Track permission and permission set changes
- Use Entra License and Security Groups for BC Users (QR next slide)
- New users license configuration
 - Adding new users inherits permission sets
- BC Admin Centre (D365 Admin) Review your own roles





Business Central – non platform specific

- Authentication for external apps*
 - Review Service Principles (App Reg)
 - Review expiring and expired secrets.

*BC22 - OAuth is only supported method





Business Central – non platform specific

Tecman Training Video on Security Groups in BC







Entra (AAD)







Microsoft Entra ID



Microsoft Entra Workload ID



Microsoft Entra Permissions Management



Microsoft Entra External ID



Microsoft Entra Verified ID



Microsoft Entra Private Access



Microsoft Entra ID Governance

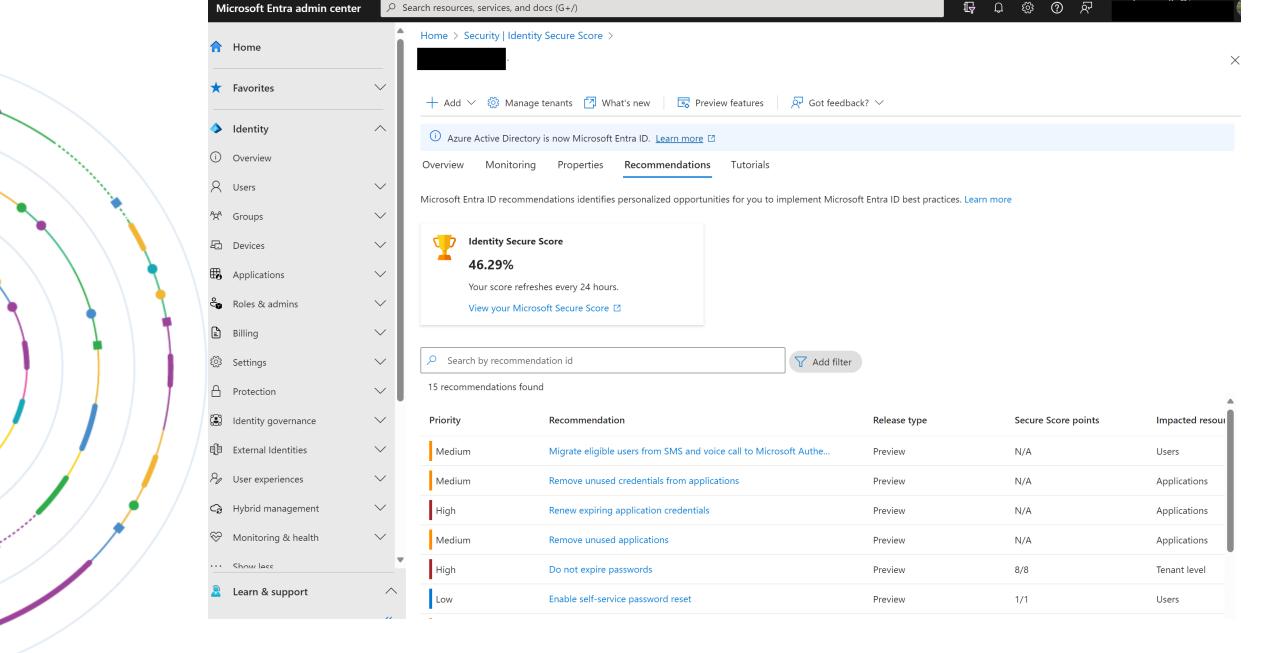


Microsoft Entra Internet Access

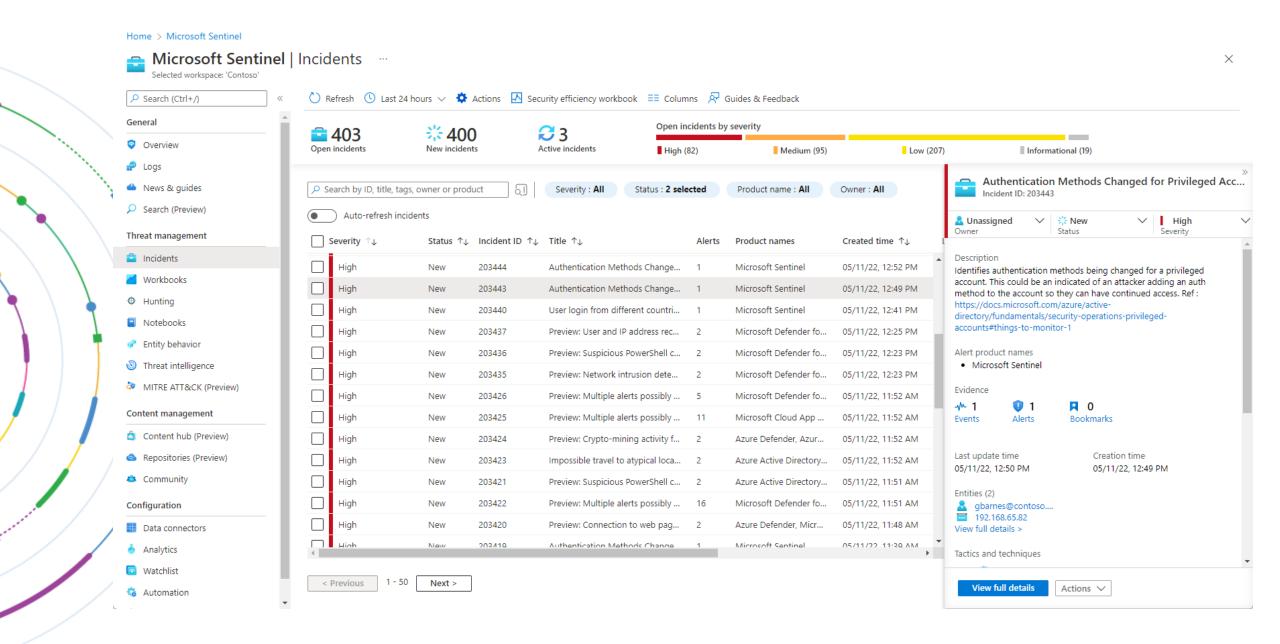
Entra ID - Tools

- Defender for Cloud
 - Foundation (Free Secure Score, policy, management, multicloud)
 - Advanced (CSPM, Attack Path Analysis)
- Microsoft Sentinel. Security information and event management.
- PIM. Time based privileged access, notifications, review access, audit history
- Identity Protection (Preview, P2)
 - Identify Risky sign-on, PW spray attacks, Leaked Creds, using trillions of signals each day)
 - Automate Remediation (CA)













Microsoft Azure

The Reports Reader role for the TecMan directory was assigned outside of PIM

Always use Azure Active Directory (Azure AD) Privileged Identity Management (PIM) to manage your privileged directory roles.

Assignment details:

| Settings | Value | |
|--------------|-------------------------|-----------------|
| User: | | |
| Role: | Reports Reader | |
| Assigner: | | |
| Detected on: | July 10, 2023 10:52 UTC | |
| | | Microsoft Azure |

View assignment >

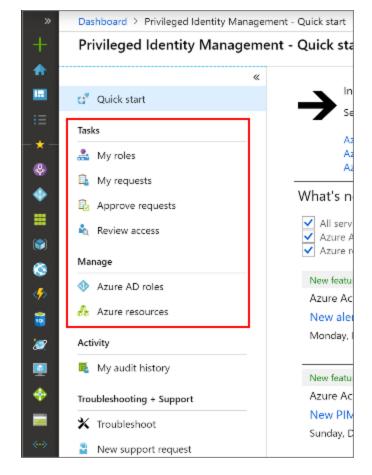
Your weekly PIM digest for Technology Management

Thanks for using Azure Active Directory Privileged Identity Management (PIM). This weekly digest shows your PIM activities over the last seven days:



Overview of your top roles

| Role | Permanent | Eliaible | Action |
|----------------------|-----------|----------|--------------------|
| | remanent | Liigibie | |
| Directory Readers | 16 | 0 | Reduce permanent > |
| Global Administrator | 6 | 0 | Reduce permanent > |
| Dynamics 365 | 6 | 0 | Reduce permanent > |



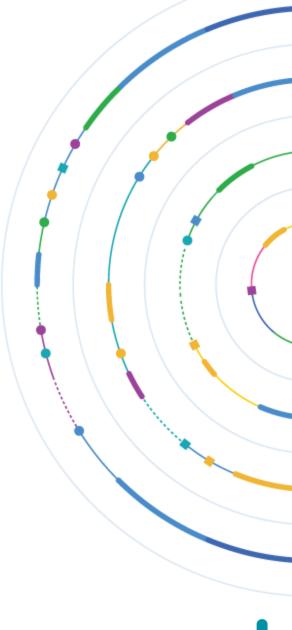
Quick Wins

- Enable MFA (even non interactive use app password)
- Review Secure Score
- Conditional Access (P1)
- Secure Defaults (Enforce 2fa, block legacy auth types)
- Review Apps and Expired Secrets
- POLP Granular Admins. How many GAs?
- Password NOT to expire
- Service Tags



Entra Applications (service principles)

- Consent Flows
 - User consent (delegated permissions)
 - Admin consent
- SP represents an authenticating application.
- Secured by secret or certificate
 - Secrets longer life
 - Certs more secure





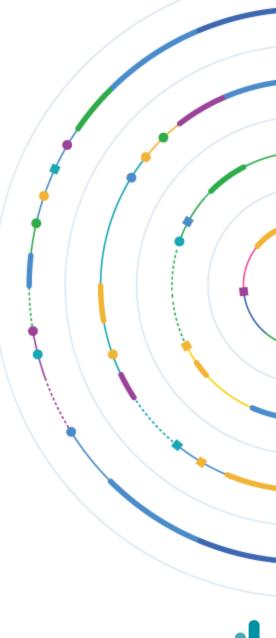
Entra Applications (best practices)

Restrict User Consent

Admin consent workflow

Audit and monitor Consent (Defender for cloud)

 Monitor Expiry of Secrets and certs - PowerAutomate, Logic Apps





Entra Apps

Home > Enterprise applications | Conditional Access >



Consent and permissions | User consent settings

Microsoft Entra ID for workforce

Manage

User consent settings

Admin consent settings

Permission classifications



Control when end users and group owners are allowed to grant consent to applications, and when they will be required to request administrator review and approval. Allowing users to grant apps access to data helps them acquire useful applications and be productive, but can represent a risk in some situations if it's not monitored and controlled carefully.

User consent for applications

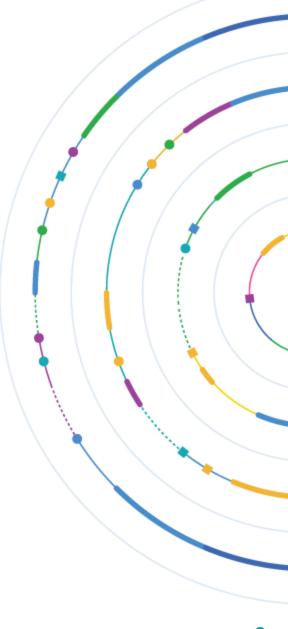
Configure whether users are allowed to consent for applications to access your organization's data. Learn more

- O Do not allow user consent
 - An administrator will be required for all apps.
- Allow user consent for apps from verified publishers, for selected permissions (Recommended)

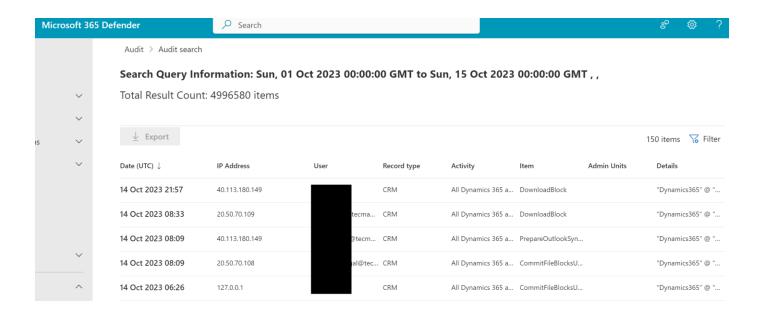
 All users can consent for permissions classified as "low impact", for apps from verified publishers or apps registered in this organization.
- Allow user consent for apps
 All users can consent for any app to access the organization's data.

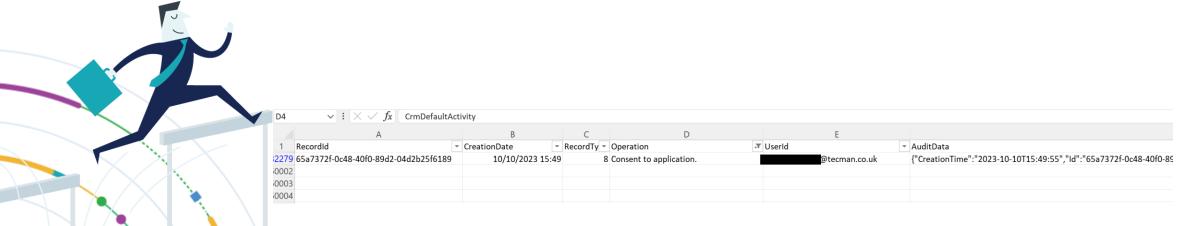
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Mith your current user settings, all users can allow applications to access your organization's data on their behalf. Learn more about the risks Microsoft recommends allowing user consent only for verified app publishers or apps from your organization, for permissions you classify as "low impact". Learn more





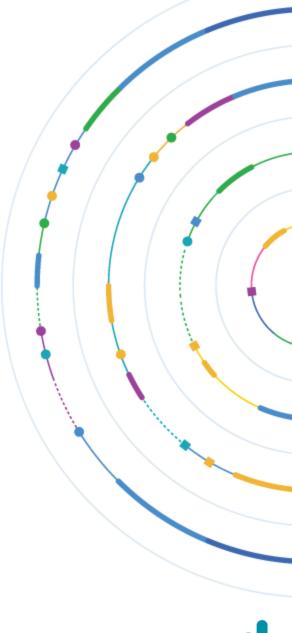




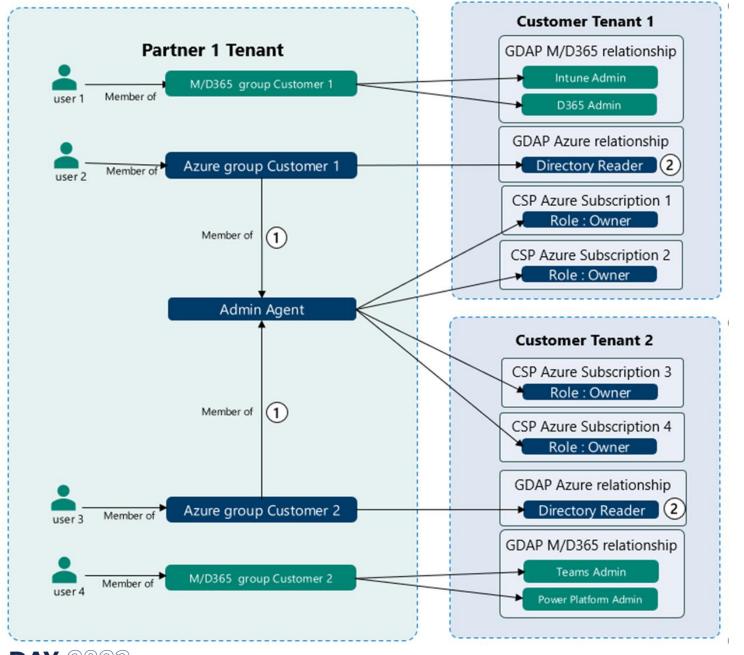


GDAP

- What is GDAP, why?
- Tecman's role
 - Read only access to Entra
- Customer responsibilities
 - Review your own DAP and GDAP
 - Even more changes last week (Dyn365 BC)









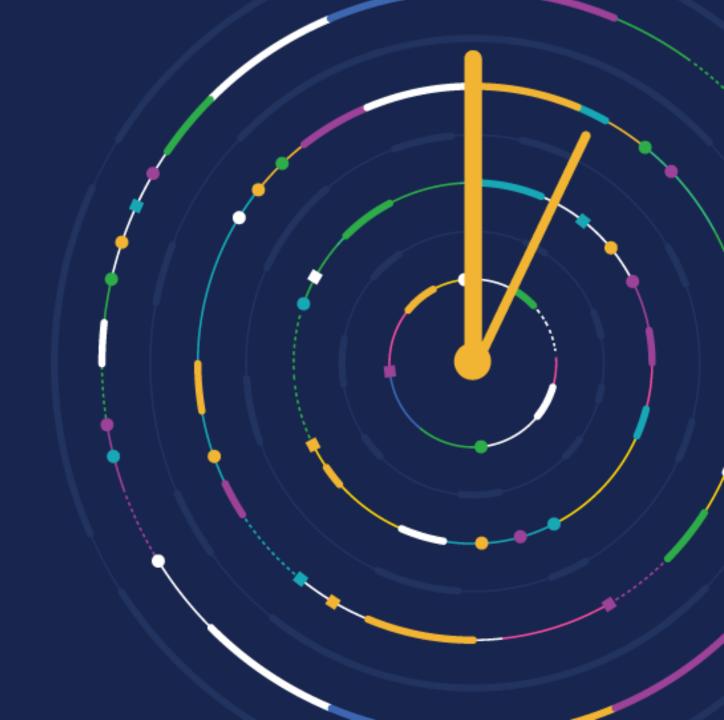


QUESTIONS ?





THANK YOU



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