

Securing identities in Microsoft 365

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Agenda

What we will learn from today's session







- Why passwords are bad?
- Defender for Office 365
- Azure MFA (additional context)
- Azure AD Password protection
- How to disable Legacy Authentication?
- Risk based Conditional Access (demo)
- Azure AD Identity Protection
- Cloud App Security (demo)
- Passwordless



"Identity is the new perimeter"

Zero Trust

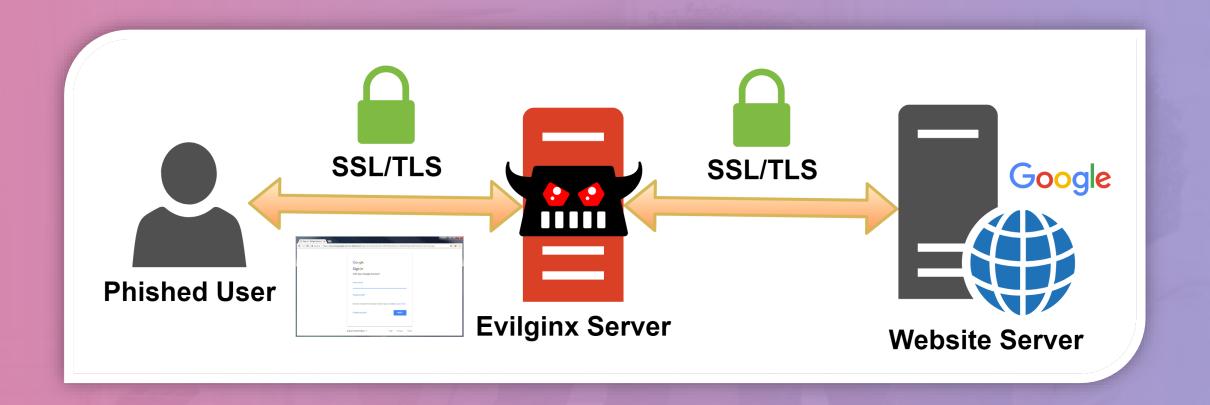
Why passwords are bad?

We cannot rely on passwords (alone)

- Humans are bad in making up good passwords
- Password re-use
- Passwords get stolen all the time
- Lack of Single Sign On = a gazillion passwords for day-to-day use
- Password reset policies make passwords weaker

Phishing demo





10 tips to increase identity security

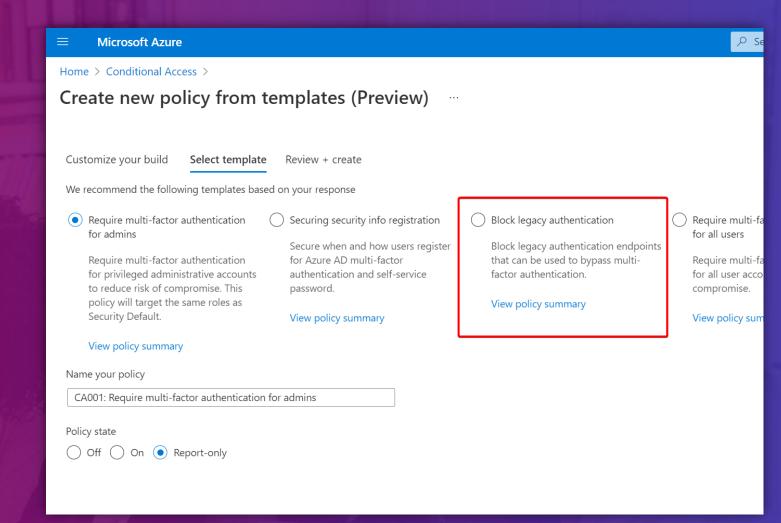
With Microsoft 365

TIP 1 - Block legacy authentication

Security Defaults

Conditional Access

DEMO



TIP 2 - Do not expire passwords

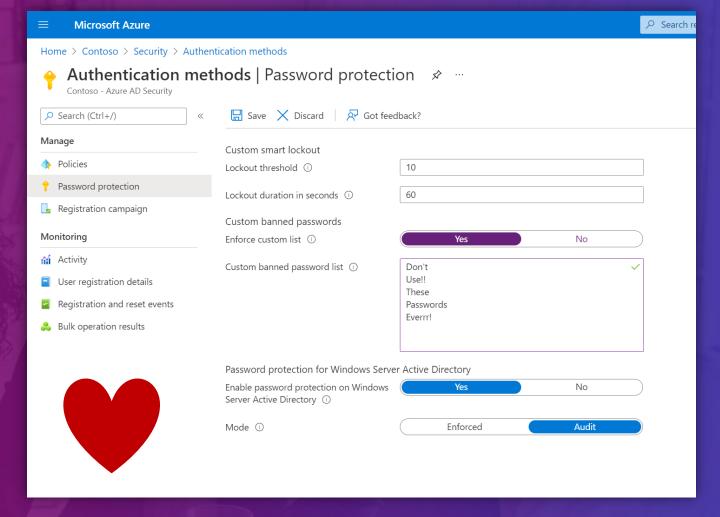
Use Azure AD password protection instead

Password expiration policy

Choose the number of days before a user's password will expire, and the number of days before they're notified about an upcoming password expiration. The policy applies to everyone in your organization.

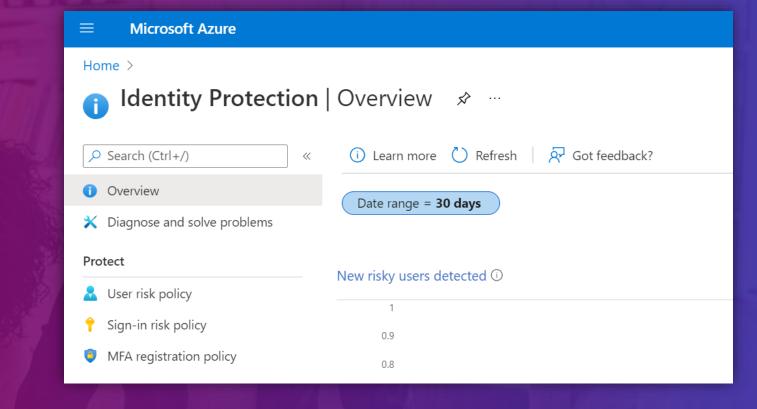
Learn more about password policy recommendations

Set user passwords to expire after a number of days



TIP 3 - Turn on user risk / sign-in risk policy

- Azure AD Identity Protection
- Risk based Conditional Access
- Security Defaults



Securing identities in Microsoft 365

DEMO

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General tip: use Named/Trusted Locations to avoid false positives!

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Trusted locations

Administrators can name locations defined by IP address ranges to be trusted named locations.

Sign-ins from trusted named locations improve the accuracy of Azure AD Identity Protection's risk calculation, lowering a user's sign-in risk when they authenticate from a location marked as trusted. Additionally, trusted named locations can be targeted in Conditional Access policies. For example, you may restrict multi-factor authentication registration to trusted locations.

TIP 4 - Enable password hash sync

 Leaked credentials detection for hybrid accounts

';--have i been pwned?

Check if your email or phone is in a data breach

PROVISION FROM ACTIVE DIRECTORY



Azure AD cloud sync

This feature allows you to manage sync configurations from the cloud, in addition to syncing Active Directory users and groups from disconnected forests.

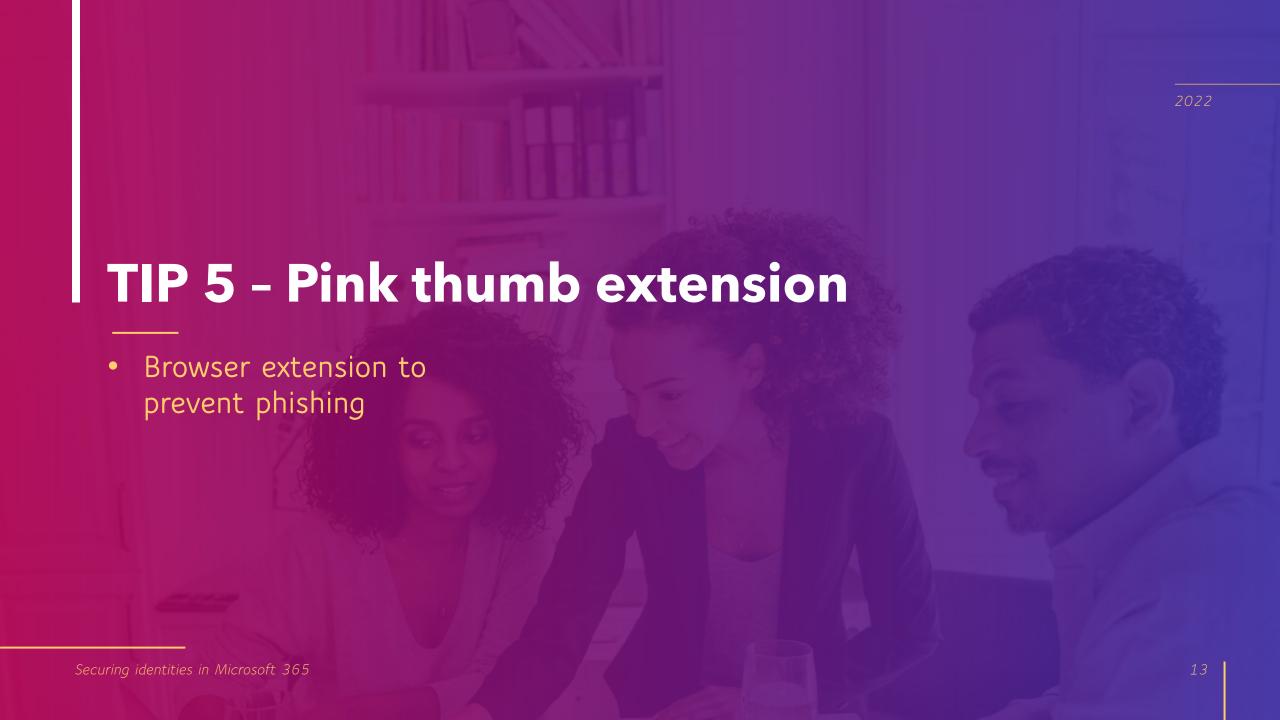
Manage Azure AD cloud sync

Azure AD Connect sync

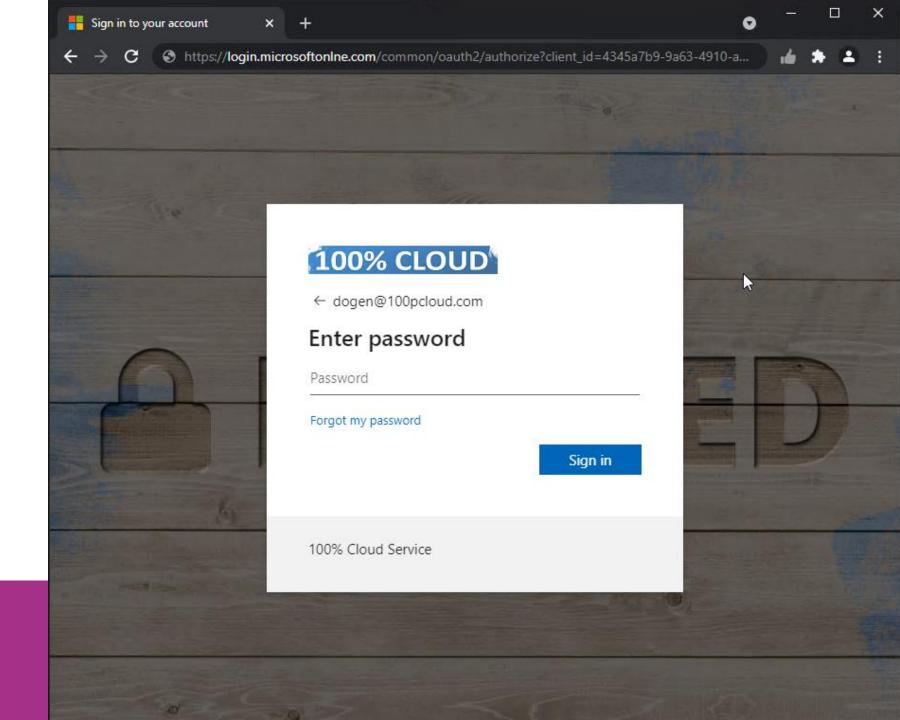
Sync Status Enabled

Last Sync Less than 1 hour ago

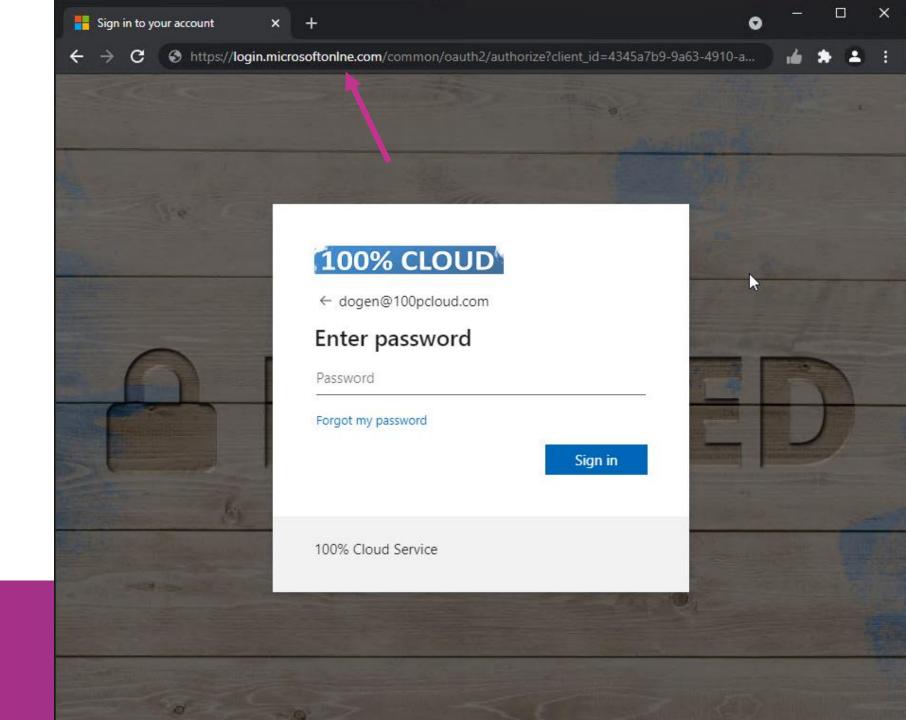
Password Hash Sync Enabled



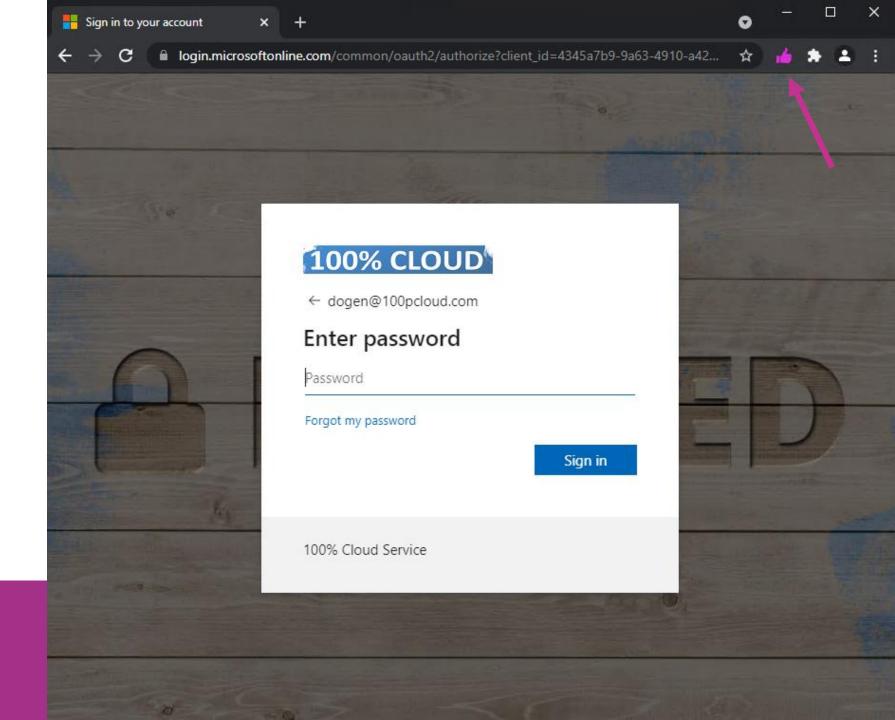
What's wrong with this page?



What's wrong with this page?

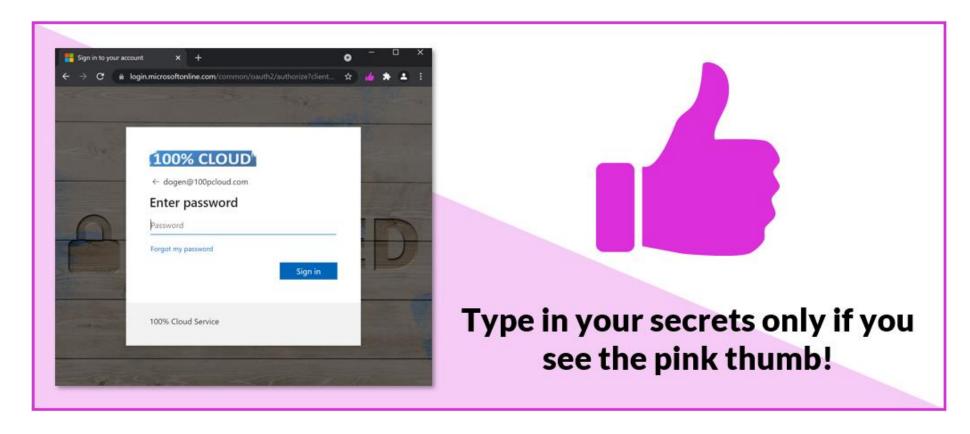


Can you see the pink thumb icon?



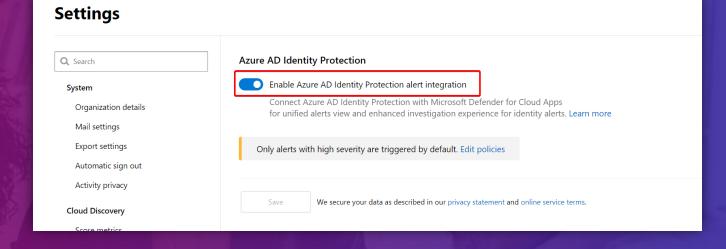
PINK THUMB

Pink Thumb | (emptydc.com)



TIP 6 Defender for Cloud Apps

 Integration with Identity Protection



Suspicious inbox manipulation rules	Offline	This detection is discovered by Microsoft Defender for Cloud Apps. This detection profiles your environment and triggers alerts when suspicious rules that delete or move messages or folders are set on a user's inbox. This detection may indicate that the user's account is compromised, that messages are being intentionally hidden, and that the mailbox is being used to distribute spam or malware in your organization.
Password spray	Offline	A password spray attack is where multiple usernames are attacked using common passwords in a unified brute force manner to gain unauthorized access. This risk detection is triggered when a password spray attack has been performed.
Impossible travel	Offline	This detection is discovered by Microsoft Defender for Cloud Apps. This detection identifies two user activities (is a single or multiple sessions) originating from geographically distant locations within a time period shorter than the time it would have taken the user to travel from the first location to the second, indicating that a different user is using the same credentials.
New country	Offline	This detection is discovered by Microsoft Defender for Cloud Apps. This detection considers past activity locations to determine new and infrequent locations. The anomaly detection engine stores information about previous locations used by users in the organization.
Activity from anonymous IP address	Offline	This detection is discovered by Microsoft Defender for Cloud Apps. This detection identifies that users were active from an IP address that has been identified as an anonymous proxy IP address.
Suspicious inbox forwarding	Offline	This detection is discovered by Microsoft Defender for Cloud Apps. This detection looks for suspicious email forwarding rules, for example, if a user created an inbox rule that forwards a copy of all emails to an external address.
Azure AD	Offline	This risk detection type indicates sign-in activity that is unusual for the given user or is consistent

DEMO

Demo

Defender for Cloud Apps

http://aka.ms/mcasportal

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Can we prompt our users with MFA every 8 hours, or even better: every single time they sign-on?

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TIP 7 - Azure MFA additional context & Sign-in frequency

 Avoid MFA fatigue and mindless approvals of pop-ups.



Azure AD premium

Don't use

both!

- Enable Seamless SSO
- Use Sign-in frequency (Conditional Access) if you require reauthentication
- Non managed = non persistent, or: less risk = longer session duration

Azure AD free

- Enable Seamless SSO
- Keep the Remain signed-in option enabled, and guide your users to accept it.

Microsoft

Stay signed in?

Do this to reduce the number of times you are asked to sign in.

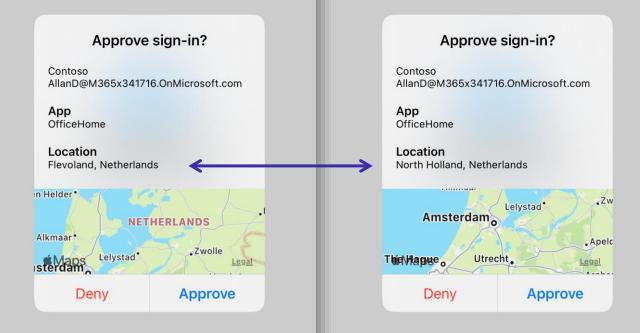
Don't show this again

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Additional Context in Azure MFA notifications

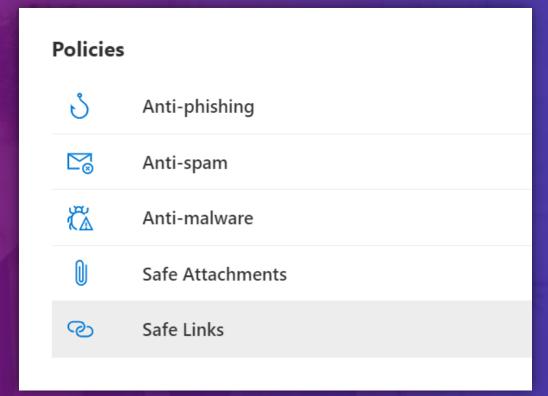
DEMO



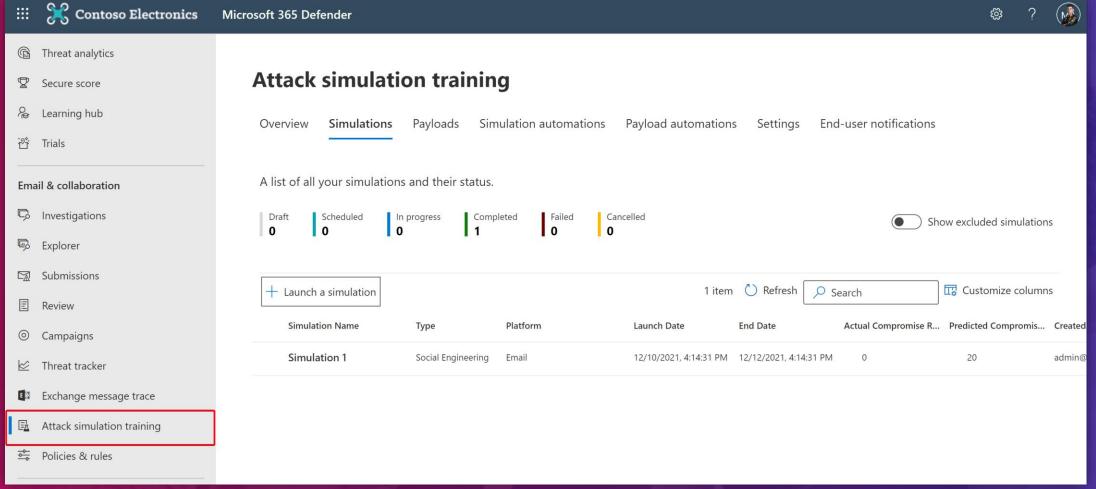
Unlock Unlock

TIP 8 - Defender for Office 365

- Attack Simulator
- Smart Links
- Anti phishing policies



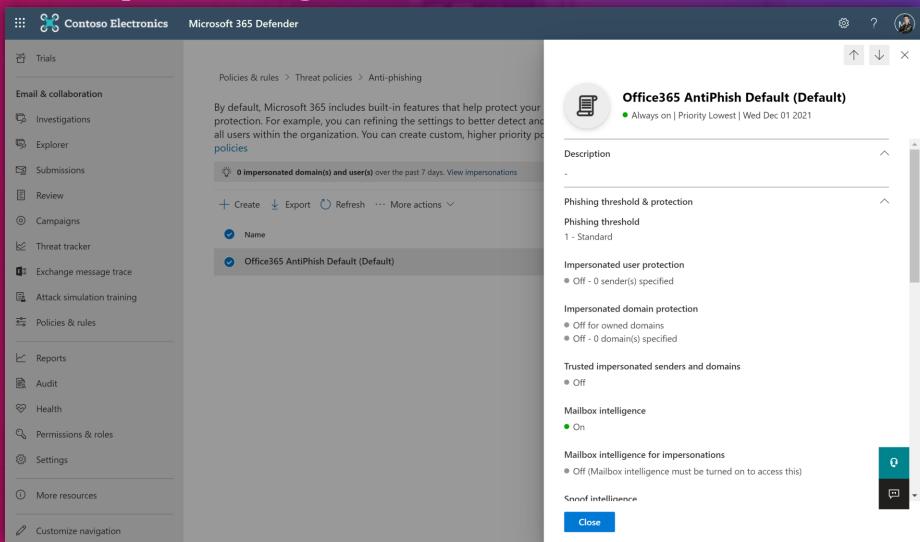
Attack simulation training in Defender for Office 365



Educate your users



Anti-phishing

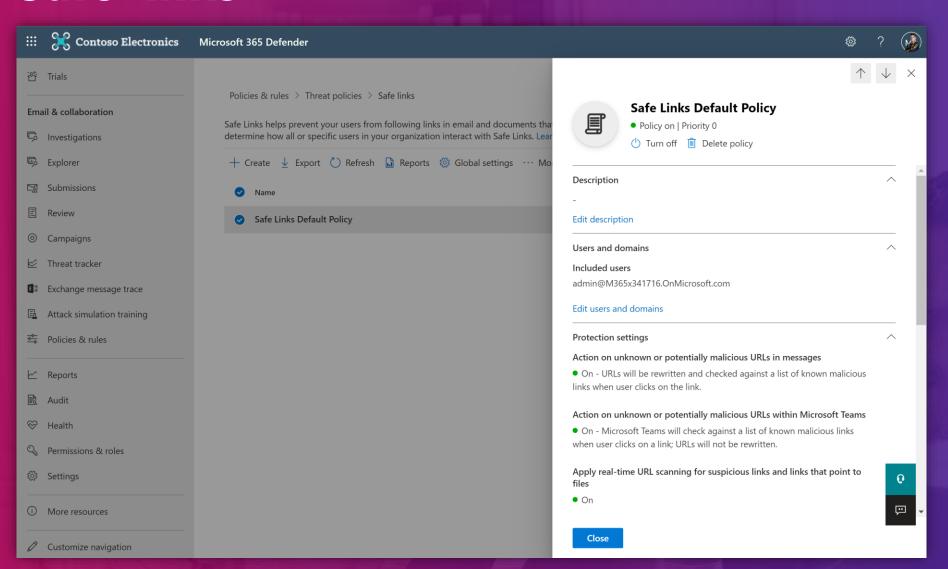


Educate your users



Safe links

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For Exchange Online and Teams!

Preset security policies

Preset security policies

Built-in protection



Built-in Microsoft Office 365 security applied to all users in your organization to protect against malicious links and attachments.

- Attachment protection with Safe Attachments
- ✓ Link protection with Safe Links
- Enabled by default and applied to entire organization

Note: Built-in protection is enabled only for paid Microsoft Defender for Office 365 tenants.

Add exclusions (Not recommended)

Standard protection



A baseline protection profile that protects against spam, phishing, and malware threats.

- ✓ Balanced actions for malicious content
- ✓ Balanced handling of bulk content
- Attachment and link protection with Safe Links and Safe Attachments



Disabled

Manage

Strict protection



A more aggressive protection profile for selected users, such as high value targets or priority users.

- ✓ More aggressive actions on malicious mail
- ✓ Tighter controls over bulk senders
- ✓ More aggressive machine learning



Disabled

Manage

Let me fix that for you, I have Global Admin rights!



TIP 9 - Privileged **Identity** Management

- Reduce standing access for admin roles
- MFA and approval before role is activated
- Access Reviews

Role setting details - Cloud Application Administrator

Privileged Identity Management | Azure AD roles



Activation

Setting	State
Activation maximum duration (hours)	8 hour(s)
Require justification on activation	Yes
Require ticket information on activation	No
On activation, require Azure MFA	Yes
Require approval to activate	No
Approvers	None

Practice what you preach! Start out with your personal Microsoft account!

TIP 10 - Go Passwordless!

The passwordless future is here for your Microsoft account - Microsoft Security Blog

- Windows Hello for Business
- Microsoft Authenticator App
- FIDO 2 keys -



DEMO

Enable Combined Registration portal first!

Azure AD Premium Plan 1

Advanced Security Reports & Alerts

App Proxy, including PingAccess

Azure AD Connect Health Azure AD External Identities

Azure AD Password Protection

Cloud App Discovery Conditional Access

Enterprise State Roaming

Microsoft Identity Manager

Multi-Factor Auth (MFA) Self-Service Group Management Self-Service Password Reset in AD Shared Account Password Roll-Over

Single-Sign-On to other SaaS

Terms of Use

3rd Party MFA Integration

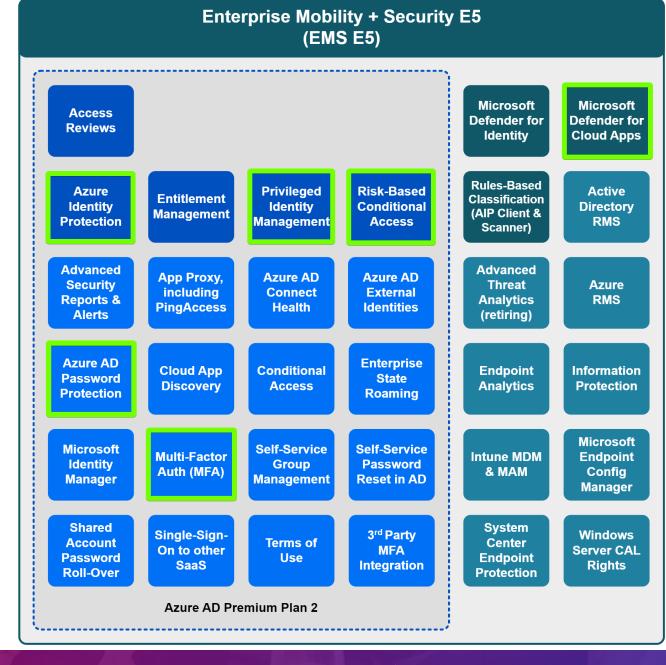
Azure AD Premium Plan 1

Prevent phishing



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Security & Alerts





THANK YOU!

Questions?