





Lessons learned – Doing Azure MFA Right

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Main Concern

The User Experience



User Experience enabling Multifactor Authentication

Frustrated



User Experience enabling Multifactor Authentication

Frustrated





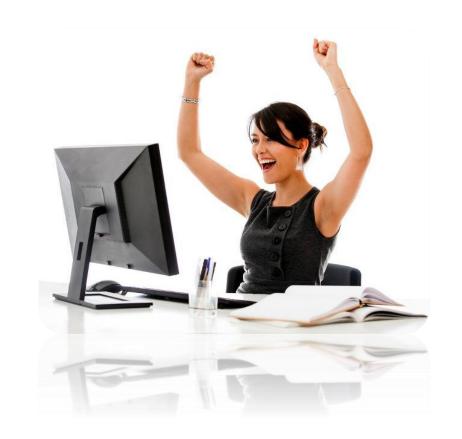
User Experience enabling Multifactor Authentication

Frustrated

VS

Нарру

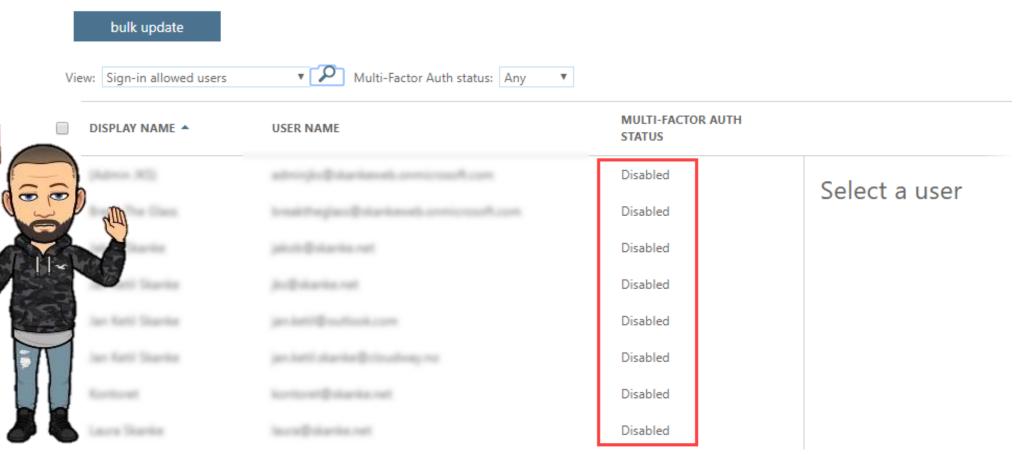




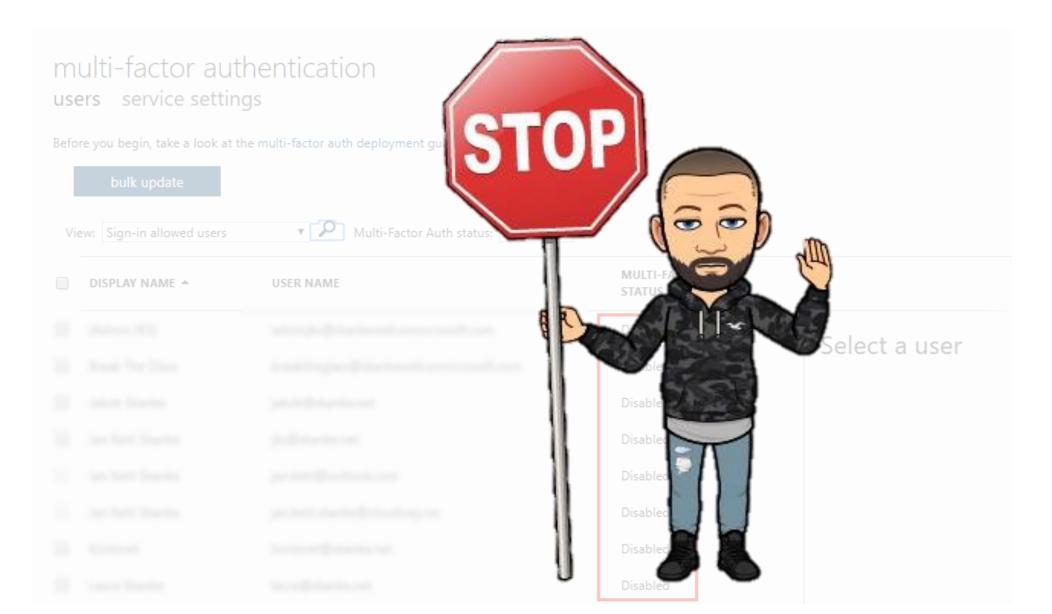
Are you enabling MFA in here?

multi-factor authentication users service settings

Before you begin, take a look at the multi-factor auth deployment guide.



Enable MFA in MFA Service







Educate your users on how and why



Educate your users on how and why

Create a Break the Glass Admin



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Block Basic Auth – Force Modern



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Use Conditional Access



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1

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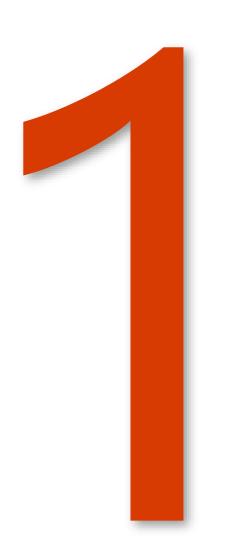
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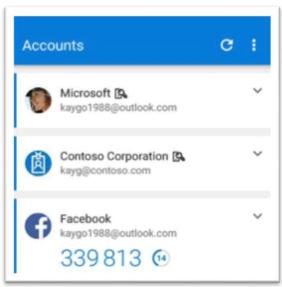
Educate your users



Educate your users



Why Outlook Mobile



Why and How to use Authenticator App



How to enroll into Azure MFA



Why Azure MFA

Break The Glass Admin



Break The Glass Admin

IN CASE OF EMERGENCY BREAK GLASS

Break the Glass Account

Why

MFA Solution Down

Network/Mobile outage

The "Admin" leaves company

Other

How

Cloud Only Account

Not Personal

No Conditional Access

No Password Expiry

Global Admin

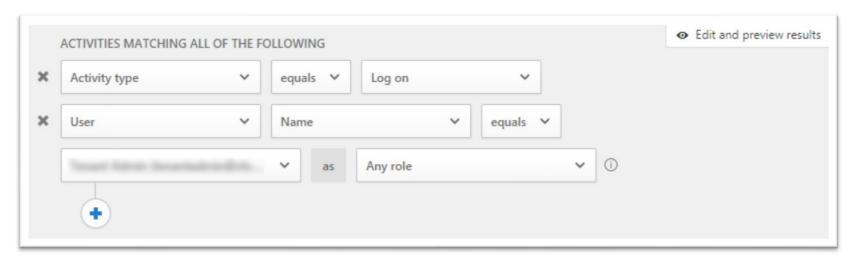
Monitor Usage

Monitor the Break the Glass Account

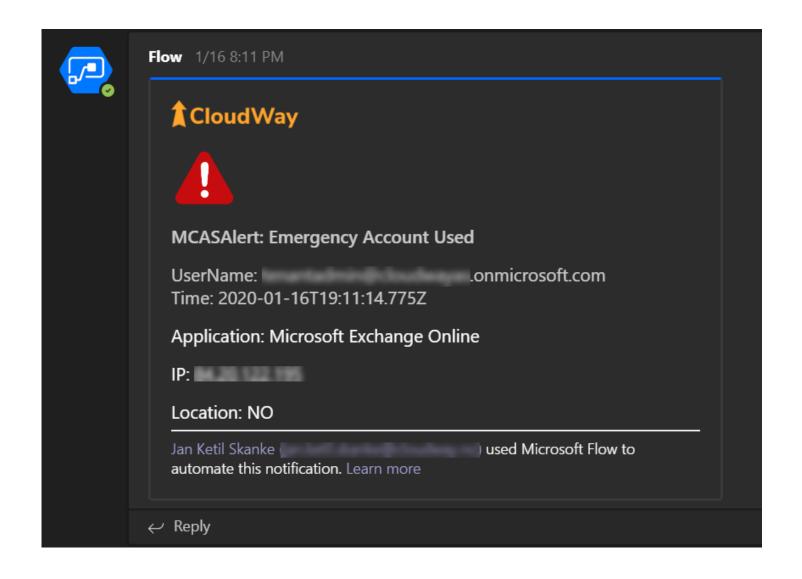
 GOOD: Azure Monitor Log Search Alert SigninLogs

| where UserPrincipalName == "mybreakglassadmin@domain.com" | project AppDisplayName , IPAddress , Location , UserPrincipalName , TimeGenerated

BETTER: Microsoft Cloud App Security



Forward alert to Teams



Block Basic Auth – Enforce Modern



Basic Auth – Examples



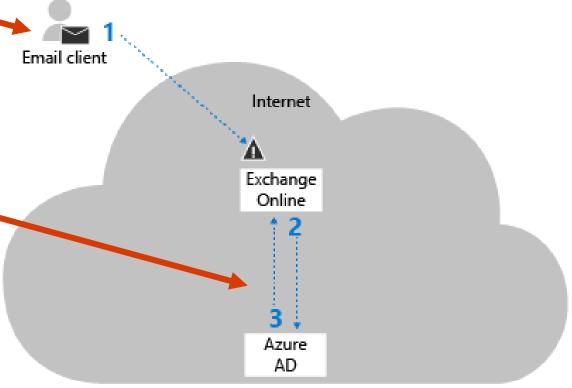




Blocking Basic Authentication

 Exchange Online Authentication
 Policy will block preauthentication

 Conditional Access Policy will block post-authentication



Why is Blocking Legacy auth so important?



Reduce Risk of Compromise

Cause of nearly 100% of password spray attacks
Reduces compromise rate by 66%



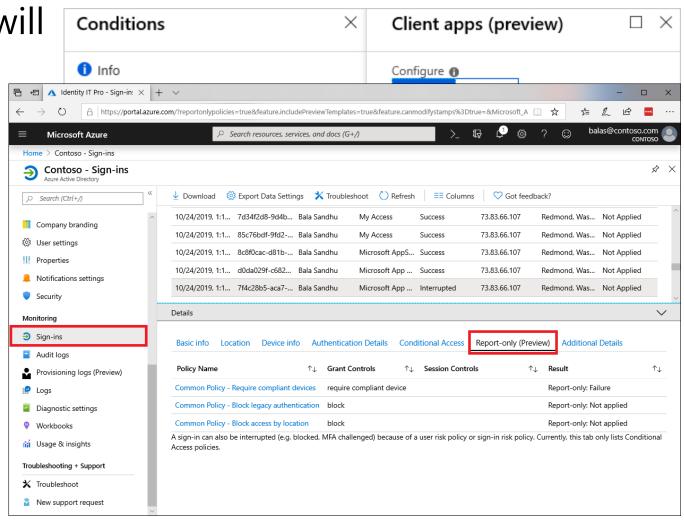
Prepare for upcoming breaking change from Microsoft

It's being disabled Oct 13th, 2020 in EXO!

3

 Conditional Access policies will block post-authentication

 Report-only mode can help measure the impact



Use Conditional Access



Conditional Access for your End Users

Require Compliant Device / Hybrid AD Join on Windows

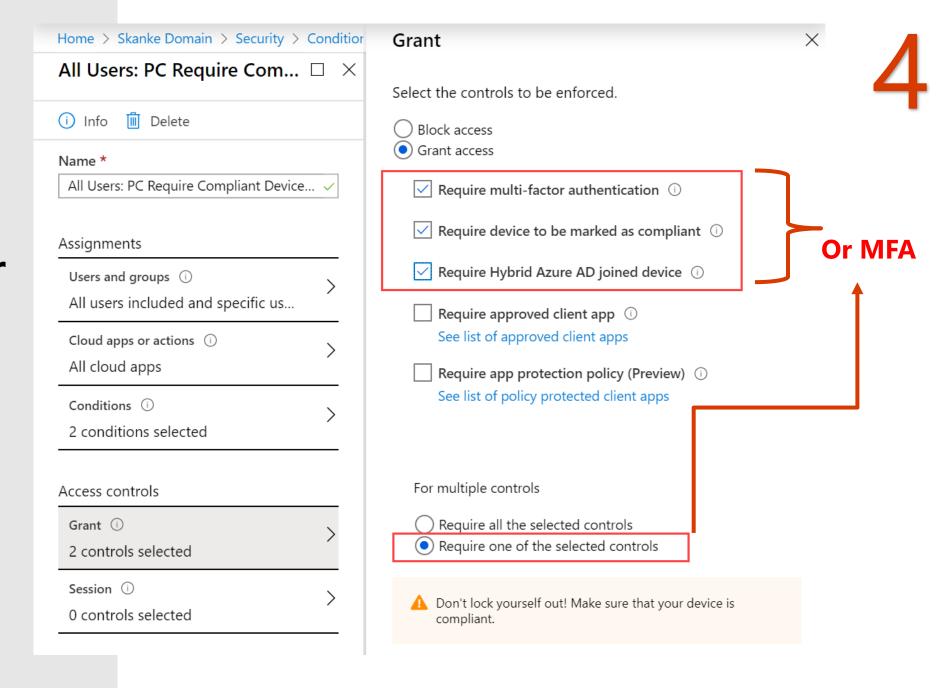
Require Compliant Device / App for iOS and Android for Mobile

Include All Cloud Apps

Block unsupported platforms

Block Basic Auth

Conditional Access for your End Users



Use Device Trust / User Trust



Establish Basic Device Trust for Windows



Intune (for cloud-first environments)

Create compliance policies

Create configuration policies



SCCM and Intune co-managed (for hybrid environments)

Move Compliance Workload to Intune
Create Compliance Polices in Intune

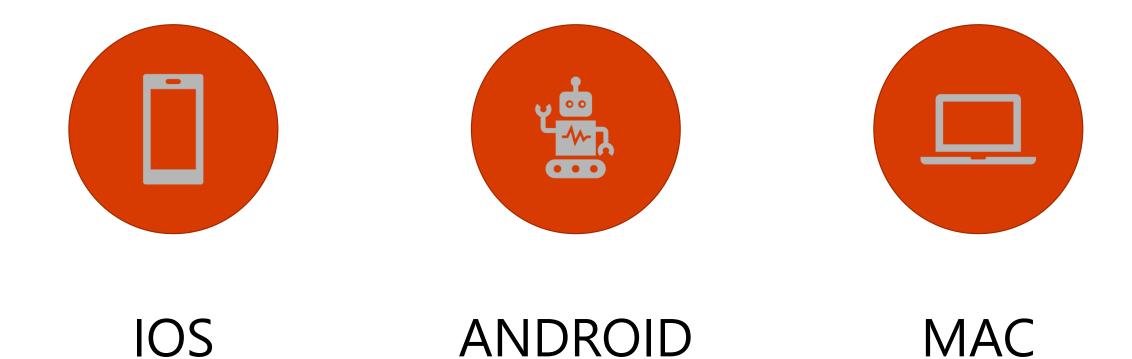


No management solution, or 3rd party management

Trust on Hybrid AD Join only (Basic)

Enroll to Intune via GPO (Recommended)

Device trust also on other platforms



Recap

Educate your users on how and why

Create a Break the Glass Admin

Block Basic Auth – Force Modern

Use Conditional Access

Use Device / User Trust



Enable MFA

Today!



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