Basic Auth Deprecation in Exchange Online

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Today

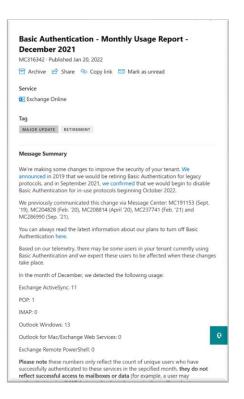
- Timeline and scope reminder
- Where to look for data
- Top Tips
- Useful Links



Timeline and Scope

- Beginning October 1st 2022, we will start to turn off Basic Auth for the following protocols:
 - POP, IMAP
 - EWS, MAPI, RPC, OAB (Outlook)
 - Exchange ActiveSync (EAS)
 - Exchange Online Remote PowerShell
- We're not turning off the protocols just the ability to use basic auth with them. They all support modern auth already
- Before October we might temporarily interrupt service on any/all – opt out by following the steps here
- If we have turned something off, prior to Oct 1st, you can re-enable it quickly following the steps <u>here</u> or linked to in the SHD and MC posts
- We will **not** turn off SMTP AUTH if it being used and if we
 do turn it off, you can turn it back on again indefinitely

Where to Find Usage Data

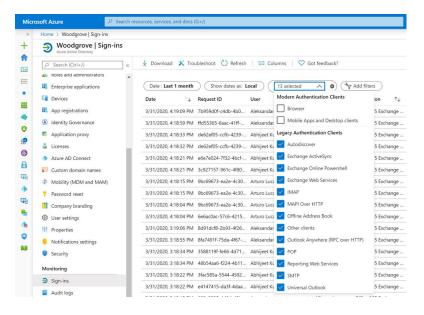


Azure AD Sign In Reports
All the detail you can ask for (and more)

Large customers please review tips here

Message Center

We send **monthly MC posts** with usage summaries to the tenants using basic auth



Top Tips When Looking At Usage Data

ActiveSync (EAS)

- If you have an MDM use it to push new profiles!
- Without MDM, the most solution in many native apps is to remove, then add back the mail account
- Cert based auth is not basic auth CBA for EAS will not be impacted by this change

Outlook for Windows (MAPI, RPC, EWS and OAB)

- Check <u>Get-OrganizationConfig</u> <u>–OAuth2ClientProfileEnabled</u>
 - False will prevent Outlook for Windows from connecting
- In Azure AD Sign In Logs look for the **User Agent String** in EWS
 - Example: Microsoft Office/15.0 (Windows NT 6.1; Microsoft Outlook 15.0.4893; Pro)
 - **14.0** Outlook 2010 it cannot do Modern Auth, it must be upgraded
 - **15.0** Outlook 2013 it *can* do Modern Auth, but needs the EnableADAL reg key setting
 - 16.0 Outlook 2016+ it does Modern Auth by default, no changes needed
 - If you see 16.0 anywhere there's a policy in place setting the EnableADAL key to 0

More Top Tips

Exchange Web Services (EWS)

- Mac Mail and Mac Outlook User Agent Strings
 - AppleExchangeWebServices/814.100.1 Mail/3654.120.0.1.13
 - MacOutlook/16.55.21111400 (Intelx64 Mac OS X 12.0.1 (Build 21A559))
- Scripts / Apps
 - python-requests/2.26.0
 - ExchangeServicesClient/15.00.0913.015 (Windows Surface Hubs will be fixed by future update)
 - Spark/2.11.9.504 CFNetwork/1325.0.1 Darwin/21.1.0
 - MicrosoftTeamsRoom Teams Rooms
 - Etc.
- MDM
 - AirWatch Boxer (SM-G998U; Android 12) Version 21.11.0.2/2435
- EWS is used by many apps, so User Agents, user/mailbox, and IP addresses are going to help identify them
 - Path forward is move to EWS with OAuth, or Microsoft Graph

POP/IMAP/RPS – there are no user agent strings, just user details and source IP

- POP/IMAP can do OAuth already Client Credential Flow coming very soon
- A lot of LOB apps use POP/IMAP to poll mailboxes get working on those asap
- RPS Use EXO V2 module and read <u>this</u> article

Next Steps

- Look at the summary data sent to your Message Center to get an idea of where to focus
- Use Azure AD Sign in reports, filtering by protocol, to see user account, user agent, IP address details etc. (export to JSON, not csv)
- Prepare some kind of end-user communication if you need users to do something. <u>Here's</u> a great example from the University of Wisconsin
- Upgrade old versions of Office, Check the EnableADAL key is set
- Speak to your MDM expert/vendor, roll out new profiles with updated auth
- Start talking to third party app providers now, app dev and deployment takes time
- It could be a good time to stop POP and IMAP and switch those users to OWA
- Complete the opt-out if you want us to leave any protocols alone for as long as possible

Useful Links

- <u>Deprecation of Basic authentication in Exchange Online | Microsoft Docs</u>
- Basic Authentication and Exchange Online September 2021 Update -Microsoft Tech Community
- How modern authentication works for Office 2013 and Office 2016 client apps - Microsoft 365 Enterprise | Microsoft Docs
- <u>Enabling Modern Auth for Outlook How Hard Can It Be? Microsoft Tech</u>
 <u>Community</u>
- About the Exchange Online PowerShell V2 module | Microsoft Docs
- Connect to Security & Compliance Center PowerShell using the EXO V2 module | Microsoft Docs
- Exchange Online and Exchange development | Microsoft Docs
- Authentication and EWS in Exchange | Microsoft Docs
- Microsoft identity platform and OAuth 2.0 authorization code flow -Microsoft identity platform | Microsoft Docs
- MSAL authentication flows Microsoft identity platform | Microsoft Docs
- Glen Scales GitHub sample for EWS OAuth token handling
- Authenticate an IMAP, POP or SMTP connection using OAuth | Microsoft <u>Docs</u>