

# 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 1<sup>st</sup> 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 1<sup>st</sup>, you can re-enable it quickly following the steps [here](#) 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

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Date: **Last 1 month**
Show dates as: **Local**
13 selected
Add filters

Date	Request ID	User	Modern Authentication Clients	
3/31/2020, 4:19:09 PM	7b959d0f-c4db-4bd0-	Aleksandar	<input type="checkbox"/> Browser	5 Exchange ...
3/31/2020, 4:18:59 PM	ff5d3565-6aac-41ff-	Aleksandar	<input type="checkbox"/> Mobile Apps and Desktop clients	5 Exchange ...
3/31/2020, 4:18:33 PM	de62ef05-ccfb-4239-	Abhijeet K	<b>Legacy Authentication Clients</b>	5 Exchange ...
3/31/2020, 4:18:32 PM	de62ef05-ccfb-4239-	Abhijeet K	<input checked="" type="checkbox"/> Autodiscover	5 Exchange ...
3/31/2020, 4:18:21 PM	e67e024-7b32-4bcf-	Abhijeet K	<input checked="" type="checkbox"/> Exchange ActiveSync	5 Exchange ...
3/31/2020, 4:18:21 PM	3c2d7157-961c-4f80-	Abhijeet K	<input checked="" type="checkbox"/> Exchange Online Powershell	5 Exchange ...
3/31/2020, 4:18:15 PM	9bc69673-ea2e-4c30-	Arturo Luc	<input checked="" type="checkbox"/> Exchange Web Services	5 Exchange ...
3/31/2020, 4:18:15 PM	9bc69673-ea2e-4c30-	Arturo Luc	<input checked="" type="checkbox"/> IMAP	5 Exchange ...
3/31/2020, 4:18:04 PM	9bc69673-ea2e-4c30-	Arturo Luc	<input checked="" type="checkbox"/> MAPI Over HTTP	5 Exchange ...
3/31/2020, 4:18:04 PM	6e6ac0ac-576c-4215-	Aleksandar	<input checked="" type="checkbox"/> Offline Address Book	5 Exchange ...
3/31/2020, 3:19:06 PM	8d91dcfb-2b93-4f20-	Aleksandar	<input checked="" type="checkbox"/> Other clients	5 Exchange ...
3/31/2020, 3:18:55 PM	8fa7491f-75da-46f7-	Aleksandar	<input checked="" type="checkbox"/> Outlook Anywhere (RPC over HTTP)	5 Exchange ...
3/31/2020, 3:18:34 PM	3588119f-f666-4d71-	Abhijeet K	<input checked="" type="checkbox"/> POP	5 Exchange ...
3/31/2020, 3:18:34 PM	48b54aa6-f224-4b11-	Abhijeet K	<input checked="" type="checkbox"/> Reporting Web Services	5 Exchange ...
3/31/2020, 3:18:22 PM	3fac585a-5544-4592-	Abhijeet K	<input checked="" type="checkbox"/> SMTP	5 Exchange ...
3/31/2020, 3:18:22 PM	e4174145-da3f-4daa-	Abhijeet K	<input checked="" type="checkbox"/> Universal Outlook	5 Exchange ...

# 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 [Get-OrganizationConfig -OAuth2ClientProfileEnabled](#)
  - *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 [this](#) 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. [Here's](#) 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

- [Deprecation of Basic authentication in Exchange Online | Microsoft Docs](#)
- [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](#)
- [Enabling Modern Auth for Outlook – How Hard Can It Be? - Microsoft Tech Community](#)
- [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 Docs](#)