

November 13-15, Oslo Spektrum

#### Florian Salzmann & Jannik Reinhard

MAM: Bring Your Own Device to Success



#### About "Jannik Reinhard"

#### **Focus**

Al **₩**, Workspace **11**, Cloud △

#### From

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#### My Blog

Jannikreinhard.com



#### Certifications

Dual MVP + many MS Certifications



#### **Hobbies**

#### Contact

- X (formerly Twitter) 🥰
- LinkedIn 💼
- Blog
- Email 🐼



#### **About "Florian Salzmann"**

#### **Focus**

Endpoint Management / Intune

#### From

Switzerland CH

#### My Blog

scloud.work





#### **Hobbies**

Travel **W** Tech **W** Wine

#### Contact

@FlorianSLZ

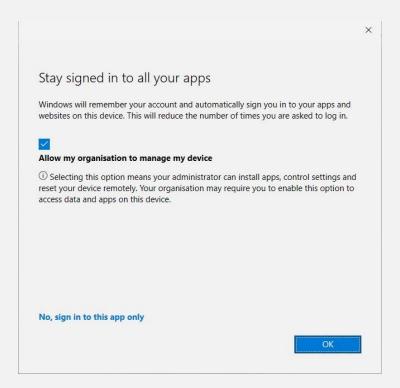


### Agenda

- Securing Corporate Data on Personal Devices
- Mobile Application Management (MAM)
- MAM for Windows
- MAM for Mobile
- MAM for the Rest
- Demo



# Have you seen this prompt before?

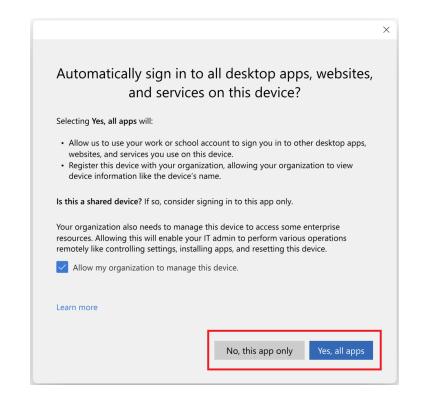




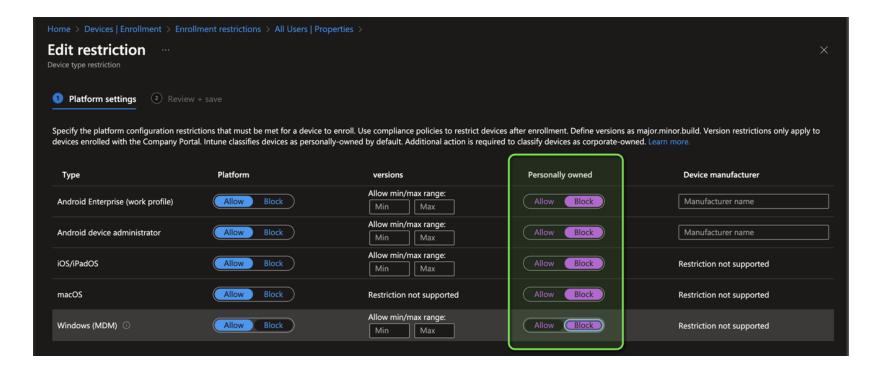
# Don't wonder you will find them here!

Name ↑↓	Enabled	os	Version	Join type	Owner	MDM	Security settings m	Compliant
DESKTOP-3JPGJIN	Yes	Windows	10.0.19045.4842	Microsoft Entra registered	Adele Vance	None	N/A	N/A

### Improvements on the way!



#### "Solution"



Security become more and more important!



### Securing Corporate Data on Personal Devices

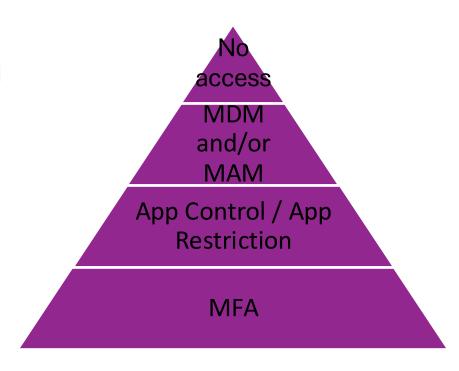
Growing use of personal devices in the workplace

Risks associated with unmanaged devices

Benefits of a multi-layered security approach

### Multi-Layered Security Approach

- Block all corporate data access
- MDM and/or MAM
- Access through browser with control
- Enforce MFA



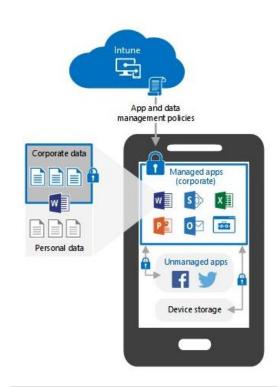
### What is MAM?



# Mobile Application Management (MAM)

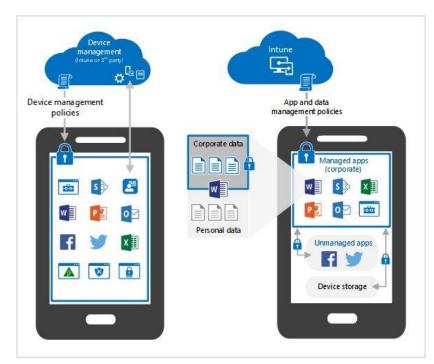
- · What is MAM?
  - · Manage the application
  - · Secure data on personal devices

- Key Features
  - · Control with App Protection
    - · Data Encryption
    - · Copy/Paste Control
    - · Selective Wiping

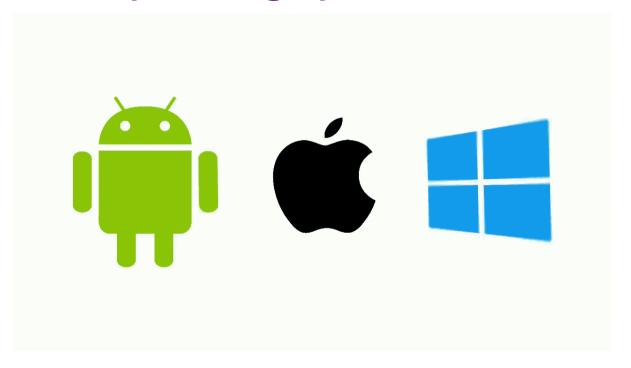


### Differences between MAM/MDM

- Differences between MAM/MDM
  - · Mobile **Application** Management
  - · Mobile **Device** Management



# **Supported Operating Systems**

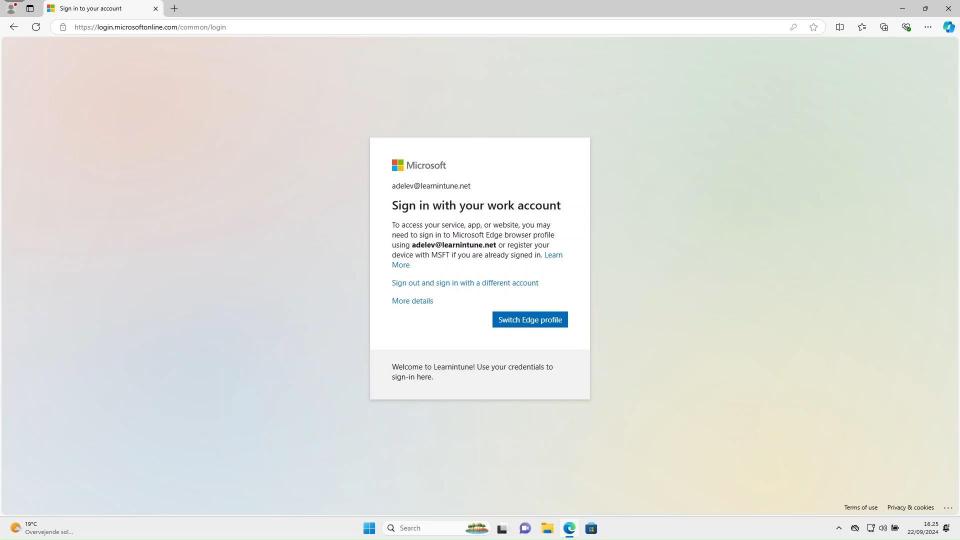


### MAM for Windows



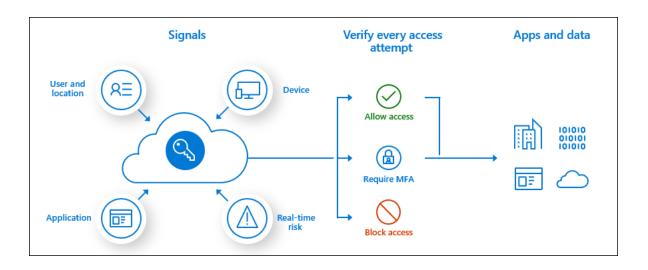
### MAM for Windows

- Key Points
  - · Controlled data access
  - · Run in Container
- Limitations
  - · Only available for Edge on Windows
  - Enrolment experience for the end-user



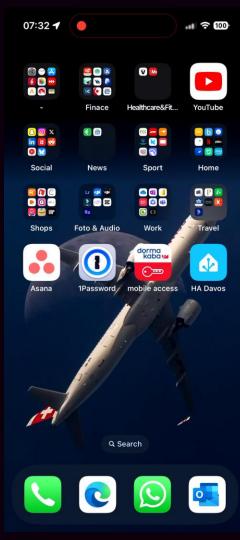
#### Interaction with conditional Access

- Ensure comprehensive security across all access points
  - Key Components
    - · Conditions
    - · Controls
    - Policies



### MAM for Mobile

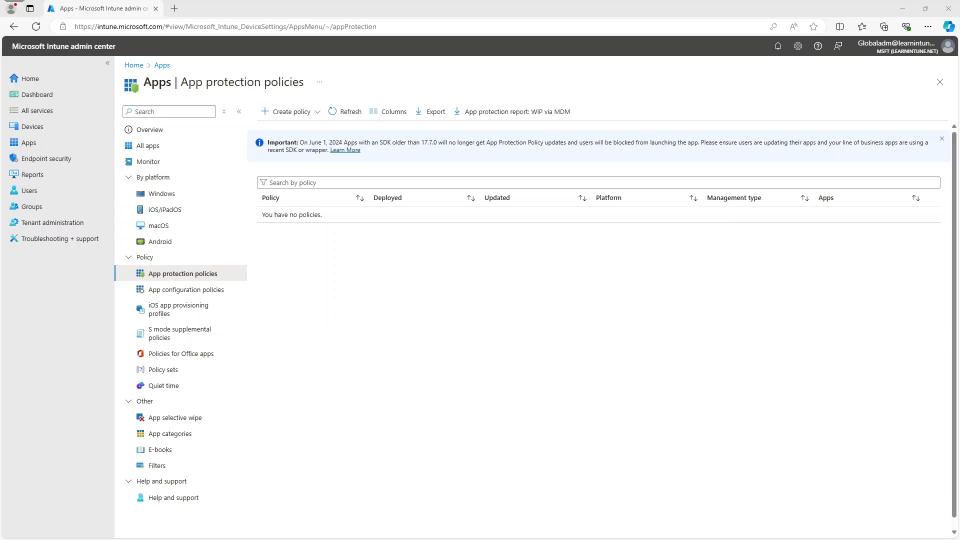


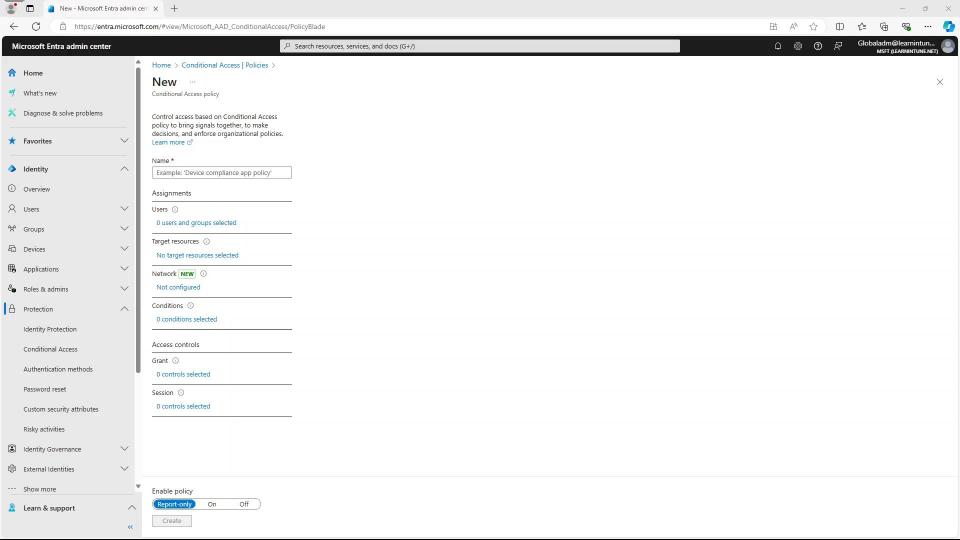


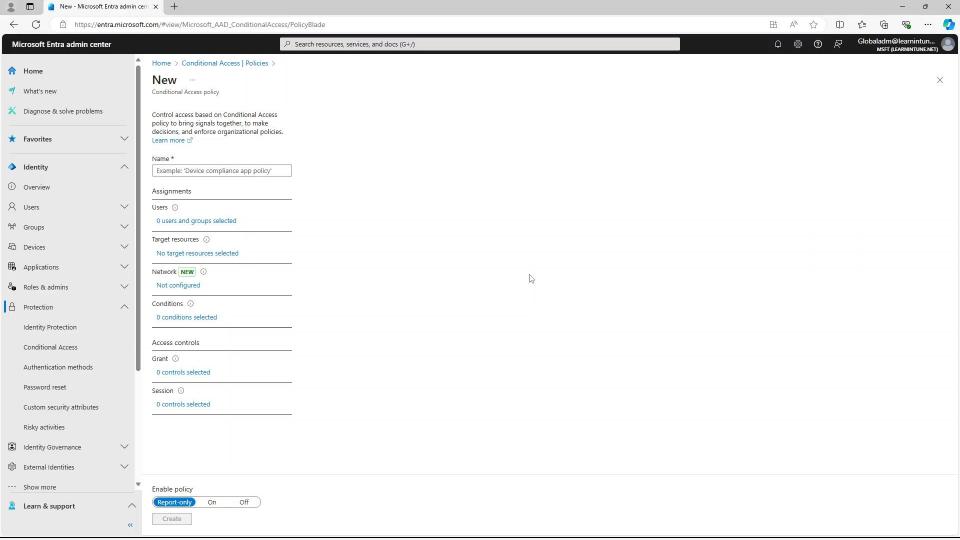


Let's also have a look at the admin experience





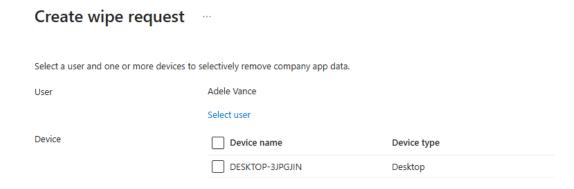






- Managed Applications
- Wipe Requests
  - Device based
- User-Level
  - Across all platforms
- Things to consider
  - Internet access
  - Up to 30 min delay
  - Access the application

#### Performing Wipe Requests



User ↑↓	State $\uparrow\downarrow$	App ↑↓	Device name $\uparrow \downarrow$	Device type $\uparrow \downarrow$	Time ↑↓
Adele Vance	f pending	Microsoft Edge	DESKTOP-3JPGJIN	Desktop	9/13/24, 4:38 PM

#### Microsoft Edge Application Management

#### Org data removal

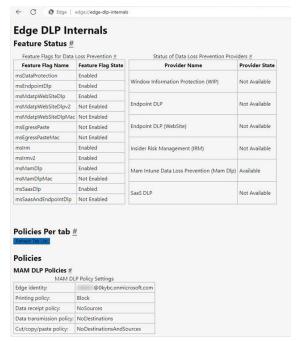
Your organization is now removing its data associated with Microsoft Edge because your account AdeleV@learnintune.net is disabled.

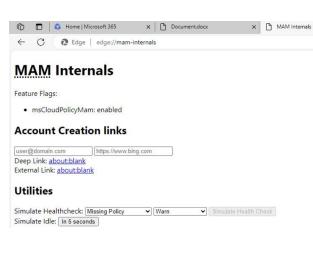
OK

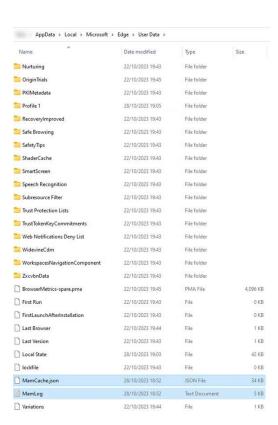
# Troubleshooting



### Logs & Troubleshooting







MamLog & MamCache

### Selective Wipe - MamLog

[2024-09-13T13:56:37.308Z] [INFO] Requested check-in to the MAM Service for UserID:15b1e172-31ba-475a-9795-2f0eef46a184 is complete. (client-request-id:42bc5a34-1b76-43c8-9a1d-fa6fa9c539cd)

[2024-09-13T13:56:37.322Z] [INFO] Check-in for UserID:15b1e172-31ba-475a-9795-2f0eef46a184 is complete with a remote wipe command.

[2024-09-13T13:56:37.322Z] [INFO] Received a remote selective wipe command for UserID:15b1e172-31ba-475a-9795-2f0eef46a184.

[2024-09-13T13:56:37.322Z] [INFO] Remote Wipe 6b13f4a6-ee25-45df-bd27-66a97b0a580d for UserID:15b1e172-31ba-475a-9795-2f0eef46a184.

[2024-09-13T13:56:37.352Z] [INFO] Queuing unenrollment to wipe UserID:15b1e172-31ba-475a-9795-2f0eef46a184 to run as soon as possible.

[2024-09-13T13:56:37.352Z] [INFO] Application protection enforcement action 6b13f4a6-ee25-45df-bd27-66a97b0a580d for UserID:15b1e172-31ba-475a-9795-2f0eef46a184 is complete.

[2024-09-13T13:56:37.352Z] [INFO] Wiping UserlD:15b1e172-31ba-475a-9795-2f0eef46a184.

[2024-09-13T13:56:37.482Z] [INFO] Unenrollment request to MAM Service for UserID:15b1e172-31ba-475a-9795-2f0eef46a184 complete. (client-request-id:127914c4-c6cf-454f-8f85-0ce3985a03cb)

[2024-09-13T13:56:37.482Z] [INFO] Successfully deleted application instance for UserID:15b1e172-31ba-475a-9795-2f0eef46a184. (client-request-id:127914c4-c6cf-454f-8f85-0ce3985a03cb)

[2024-09-13T13:56:37.483Z] [INFO] Telemetry collector for general events changed to Global.

[2024-09-13T13:56:37.483Z] [INFO] Removed the service location session state for UserID:15b1e172-31ba-475a-9795-2f0eef46a184.

[2024-09-13T13:56:37.483Z] [INFO] Removing Application Protection for unenrolled UserID:15b1e172-31ba-475a-9795-2f0eef46a184.

### What's about MacOS and Linux?



### **App Enforced Restrictions**

#### What are App Enforced Restrictions?

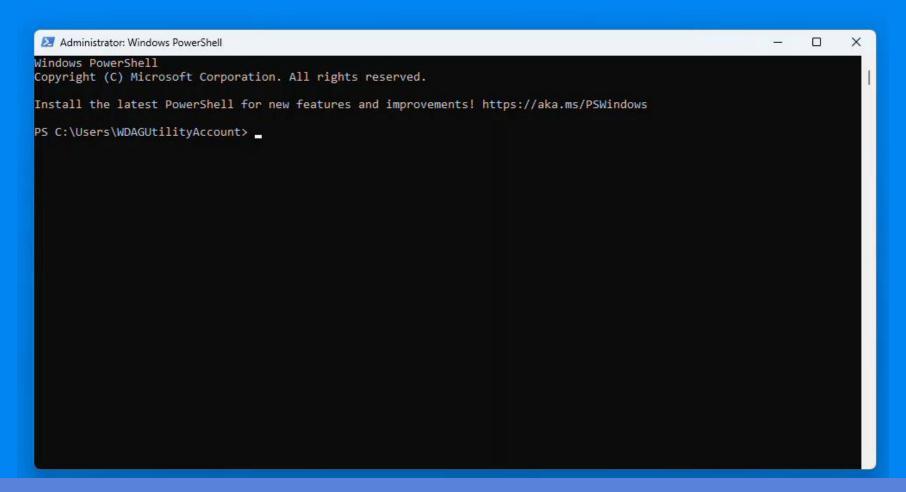
Blocking offline access to SharePoint and Exchange Online

# Demo: App Restrictions for Exchange

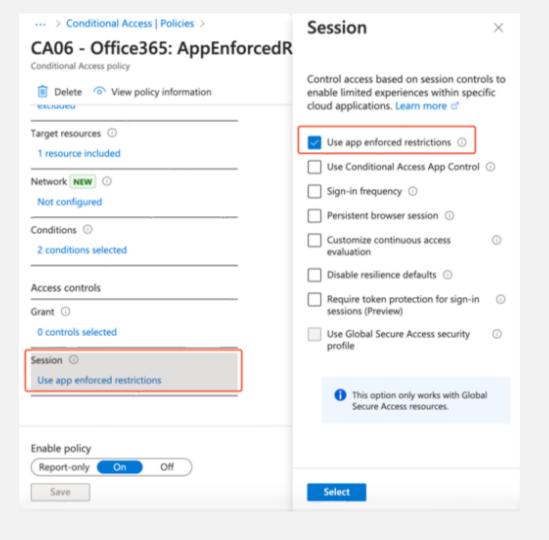
- How to configure
- Enduser experience (offline access block)

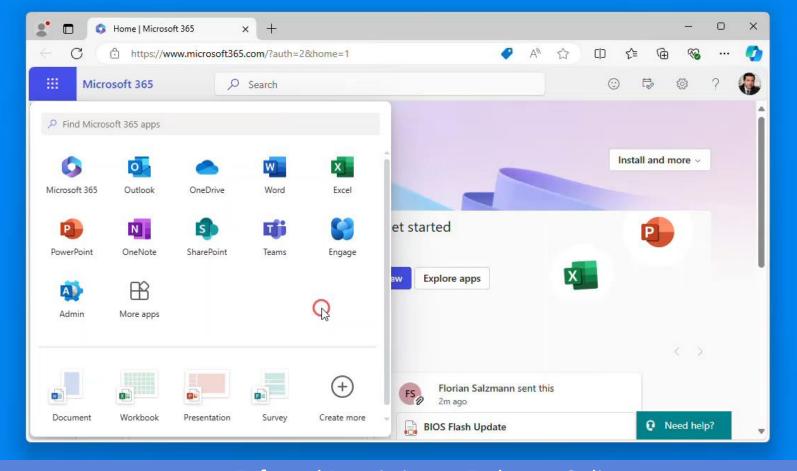
```
Install-Module -Name ExchangeOnlineManagement
```

```
Get-OwaMailboxPolicy | ft Name
Set-OwaMailboxPolicy -Identity OwaMailboxPolicy-Default -ConditionalAccessPolicy ReadOnly
```



**Activate Policy for Mailbox Policy** 





App Enforced Restrictions – Exchange Online Enduser Experience

#### Restriction for a single site

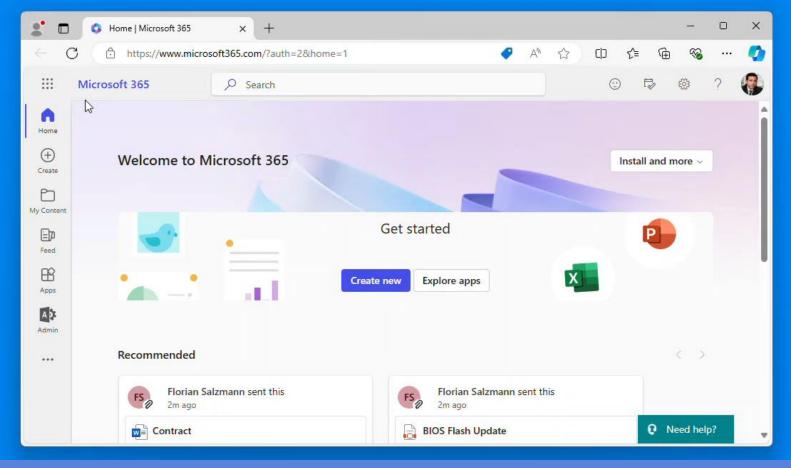
- Set-SPOSite -ConditionalAccessPolicy
  - BlockAccess
  - AllowLimitedAccess

```
Install-Module -Name Microsoft.Online.SharePoint.PowerShell

Connect-SPOService -URL https://xxx-admin.sharepoint.com/

Set-SPOSite -Identity https://xxx.sharepoint.com/sites/RD -ConditionalAccessPolicy AllowLimitedAccess

Get-SPOSite -Identity https://xxx.sharepoint.com/sites/RD | Select ConditionalAccessPolicy
```



App Enforced Restrictions – SharePoint Online

## Enduser Experience

### Conclusion



#### Conclusion – MAM for Windows

- Require App Protection Policy
- Blocking Office 365 desktop apps
- The end-user experience when enrolling a device into MAM
- Where to look for logs and troubleshooting?
- Non mobile and windows







# Thank you!







November 13-15, Oslo Spektrum

# Chapter



## Dark tile

Talking points



#### White tile

Talking points



# Dark, media right



# White, media right





