

Email Manager 2.5 Administrator Guide

2023/02/28

1. Introduction.....	3
2. Installation.....	4
2.1 Installation of the SPFx App.....	4
2.2 Testing.....	7
2.3 Deploying a new version.....	7
2.4 Removal of the App.....	9
3. Configuration.....	12
3.1 Office Cache library.....	12
3.2 Configuring email metadata mapping.....	14
3.3 Special configuration options.....	16
Appendix A PnP script to set properties.....	20
Appendix B PnP script to show email properties.....	21
Appendix C PnP script to remove email properties.....	22
Appendix D Configuring properties using a txt file.....	23
Appendix E Using PowerShell to deploy and remove the Email Manager App.....	24
Appendix F Configuring managed properties.....	26
Appendix G Configuring View icon (additional icon column).....	27
Appendix H Configuring View column (integrated column).....	29
Appendix I Configuring Name column (integrated column).....	30

1. Introduction

Email Manager is a SharePoint Framework (SPFx) App that extends the standard SharePoint functionality for emails.

Email Manager allows for fast viewing of emails and email attachments such as docx, pdf, jpg, ... in the browser. The app also allows for extracting email metadata from emails during uploading and capturing values into SharePoint columns. SharePoint document(s) can also be directly attached to a new email.

Email Manager is supported with SharePoint Online and Microsoft Teams. The Email Manager functionality can be exposed in Microsoft Teams by adding the SharePoint library as a separate tab using “Website”. This way users can drag and drop emails from Outlook, automatically extract email metadata during uploading, view emails + email attachments and attach documents to new emails directly using their Teams app.

The details of the supported browsers, client operating systems are described in the Email Manager release notes (see <https://www.slimapplications.com/product/email-manager/>).

2. Installation

This section describes the initial installation of the Email Manager App.

The following prerequisites need to be met:

1. The zip file with EmailManager files has been downloaded from our web site.
2. Account with permissions to:
 - install Apps into the SharePoint App catalog “Apps for SharePoint”.
 - write permissions in the /SiteAssets library in the root of the SharePoint system.
3. Optional: Microsoft SPO Management Shell, PnP PowerShell or CLI for Microsoft 365 to set properties for the Email Manager app. The properties can also be configured using a text file for testing / evaluation purposes.

2.1 Installation of the SPFx App

Execute the following steps to install the app:

1. Browse to <https://admin.microsoft.com/>
2. In the “Admin centers” section (under “Show All”) select “SharePoint”
3. Select “More features” in the left-hand side navigation and click on “Open” in the Apps section.
4. In the Apps page click on “App Catalog” and select “Apps for SharePoint”

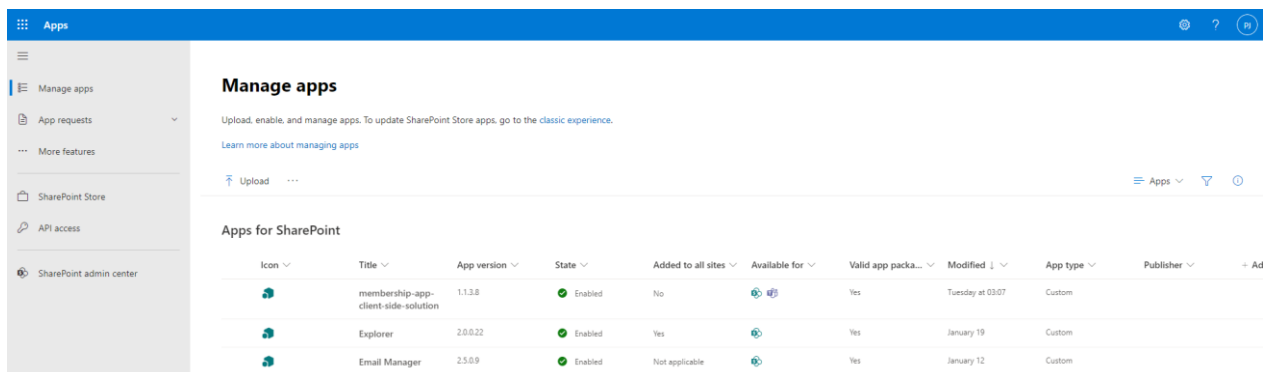


Figure 1a. Apps for SharePoint in SharePoint Online

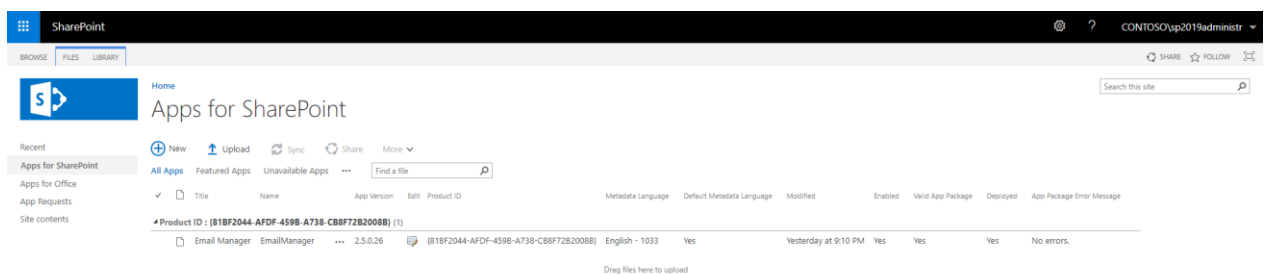


Figure 1b. Apps for SharePoint in SharePoint 2019

5. Upload the EmailManager.sppkg file using the “Upload” button or use drag and drop.
6. The confirmation screen is displayed:

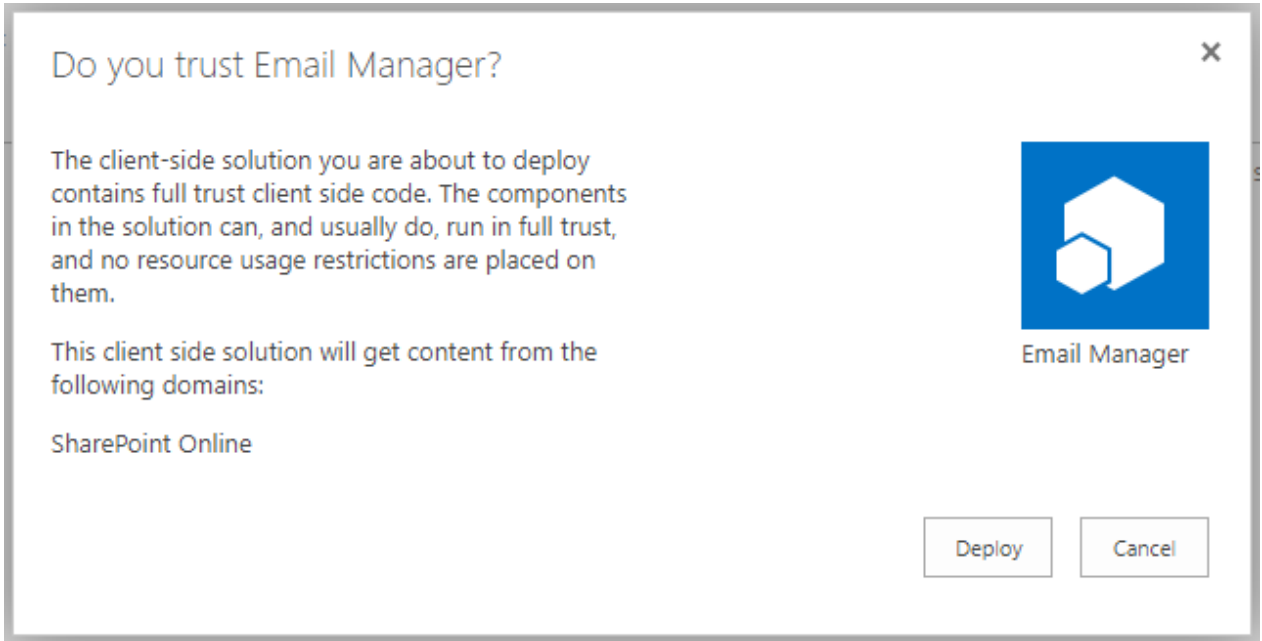


Figure 2. Email Manager confirmation screen

7. Click “Deploy”
This does not result in the App being automatically to each site in the tenant. The app still needs to be added to each site individually.
8. Use the ellipsis (...) to check in the App in case it has been automatically checked out. This may happen on SharePoint 2019.

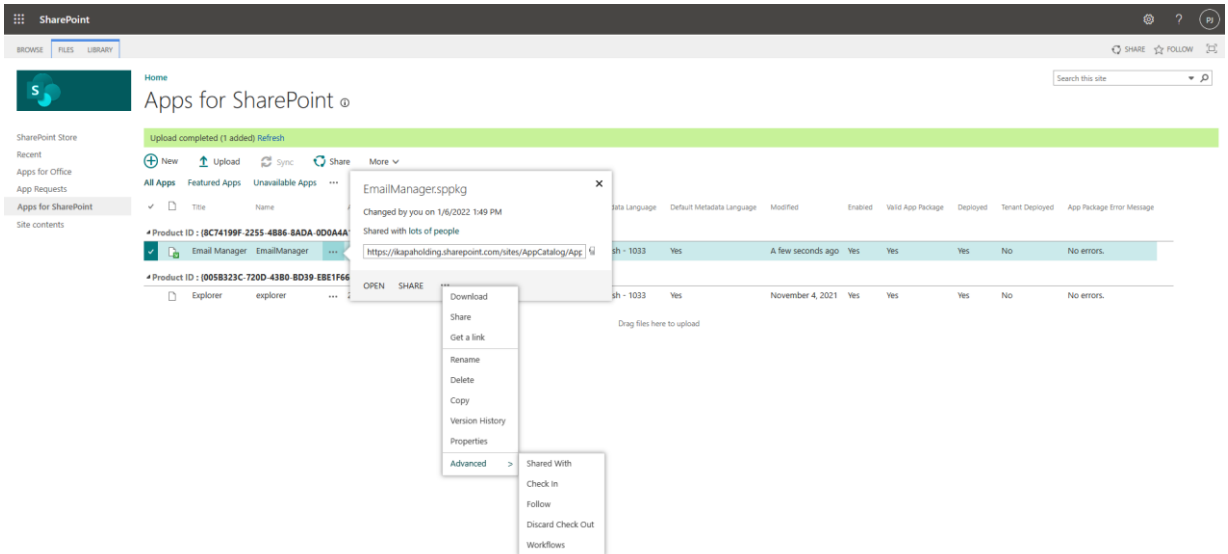


Figure 3. “Check in” option for the Email Manager App.

9. Browse to the /SiteAssets library in the root of your tenant. For example, <https://company.sharepoint.com/siteassets>
10. Create a folder named EmailManager
11. Browse to the EmailManager folder and upload the 3x files from the zip file:
EmailManager.js
EmailManagerViewEmail.png

Upload EmailManagerProperties.txt if the tenant properties have not been set. It is advised during initial install to use the EmailManagerProperties.txt file.

The following steps apply to manual deployment of the App to a site. To deploy the App to all (or a large number of sites) using PowerShell see Appendix E.

12. Browse to a SharePoint site
13. Select “Settings” | “Add an app”
14. In the left-hand menu select the link “From Your Organization”
This shows a list with available apps.

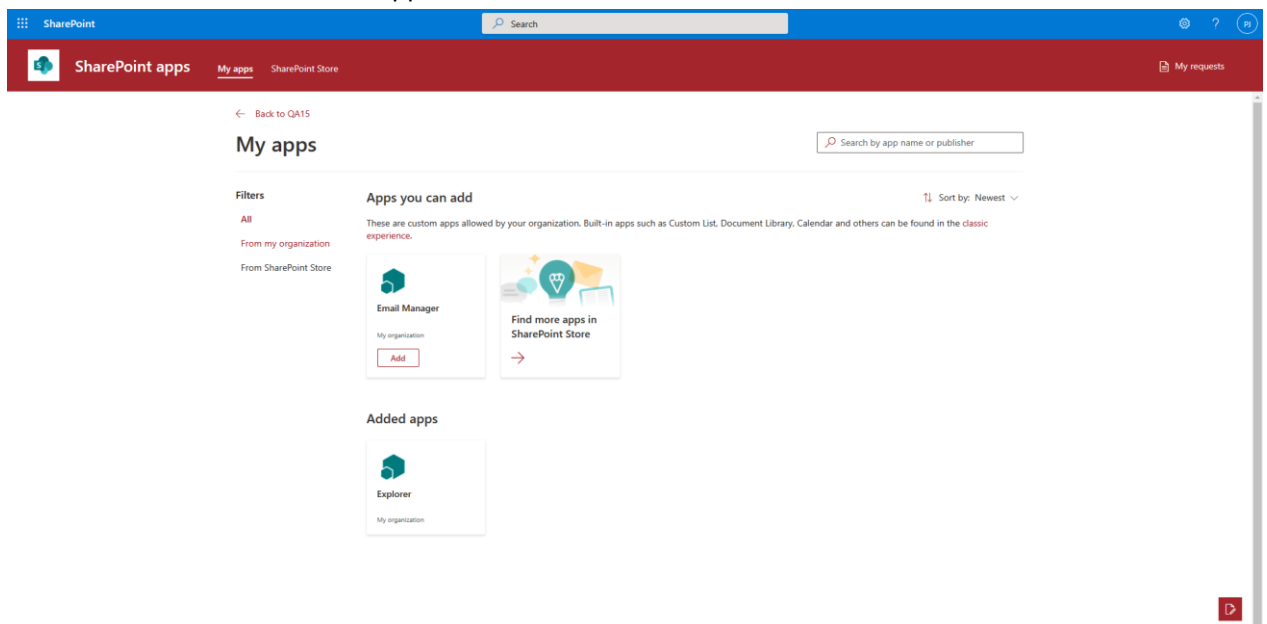


Figure 4. Page with the available Apps

15. Select the Email Manager App and use the link at the top of the screen to return to the “Site contents page”.

16. Wait a short while until the App is installed and available

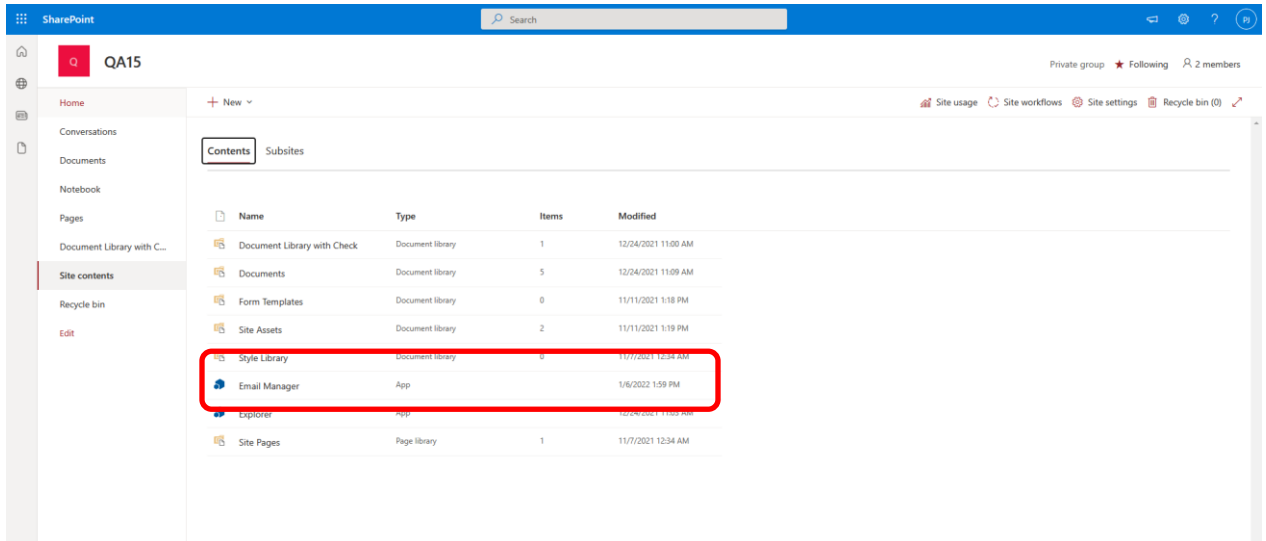


Figure 5. Site Contents with the available “Email Manager” App.

2.2 Testing

1. Browse to a Document library in your SharePoint site
2. Check if the button “View email(s)” is shown in the ribbon (for Modern View).

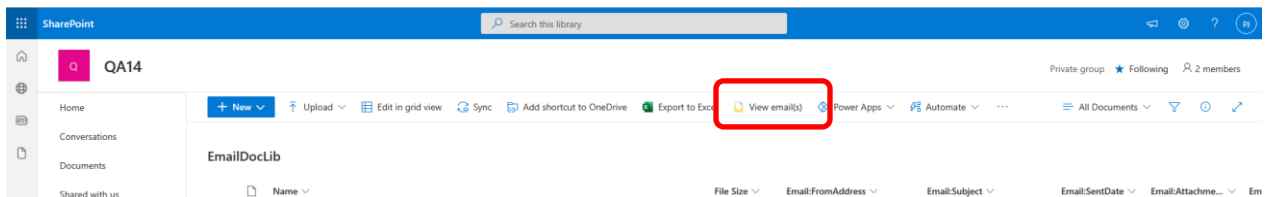


Figure 6. Document library (modern view) with the “Email view(s)” button.

Note: in case the “Email view(s)” button is not displayed refresh the page by simultaneously clicking CTRL and your browser’s refresh button.

3. Select an email or document. Verify that the button “Mail item(s)” is displayed in the ribbon.

2.3 Deploying a new version

Deploying a new version of the App is as simple as adding the new spkg file to the “Apps for SharePoint” catalog.

1. Upload the latest spkg file to “Apps for SharePoint”

- When the following dialog is shown click “Replace it”.

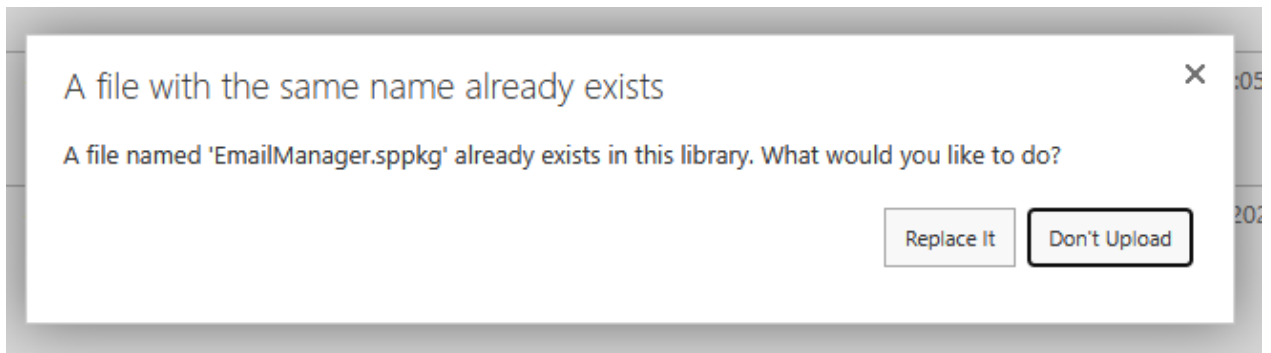


Figure 7. Dialog window when uploading a new version of the App.

- Browse to the site where the App has been installed and open “Site contents”.

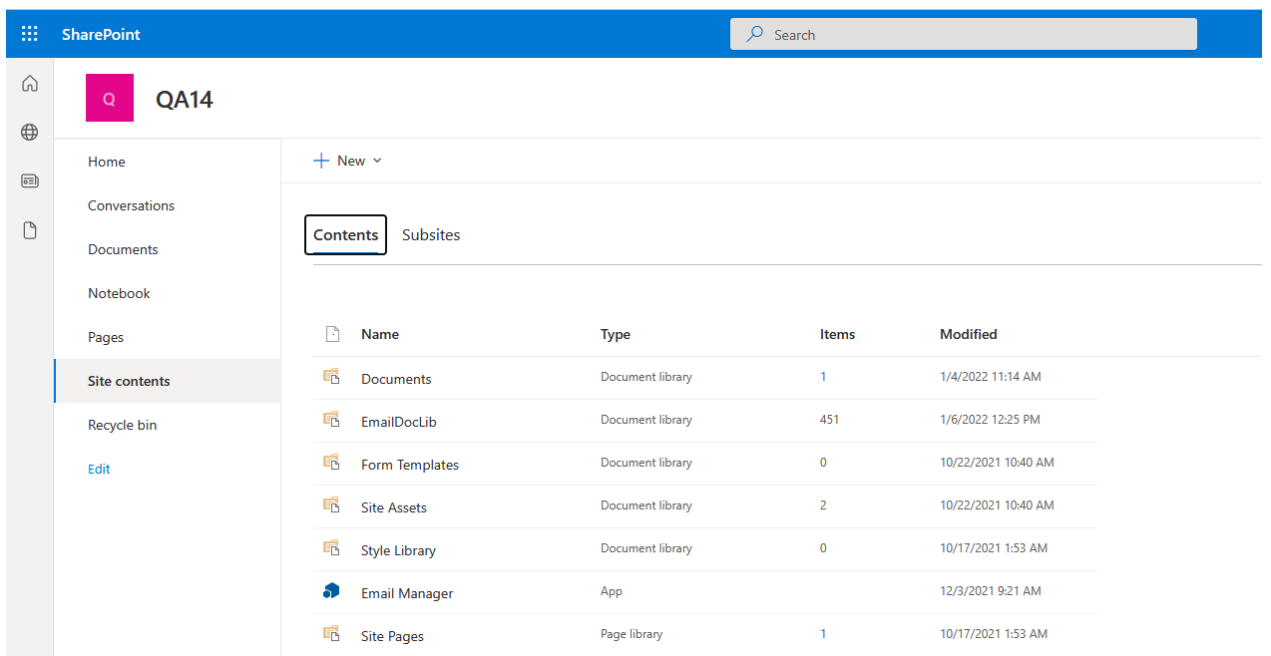


Figure 8. Site contents for a site with the Email Manager installed.

- Select the “Details” option for the Email Manager (under ...). This shows the following screen.

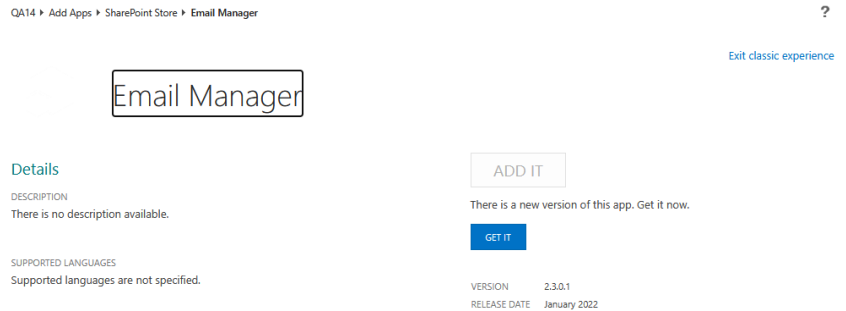


Figure 9. Update window for Email Manager

5. Click “GET IT”.
6. Browse to the document library
7. Click CTRL + your browser’s refresh button to avoid caching problems
8. View an email and click “About” in the top right corner to check that the correct version is used.

2.4 Removal of the App

The steps below apply to sites where the Email Manager App has “manually” been deployed. In case the App has been deployed using PowerShell see instructions in Appendix E.

Browse to the site where the App has been deployed and open the “Site contents” page

1. Click on the ellipsis (...) of the Email Manager App and select the option “Remove”.
2. You may be asked to switch to the classic view

Action isn't supported in this view

We are working to add that functionality to this page. In the meantime, please go to classic SharePoint to complete this task.

[Return to classic SharePoint](#)

[Close](#)

Figure 10. Dialog about removing apps using modern view.

3. Click “Return to classic SharePoint”

- Click on “Email Manager” and select the option “REMOVE”

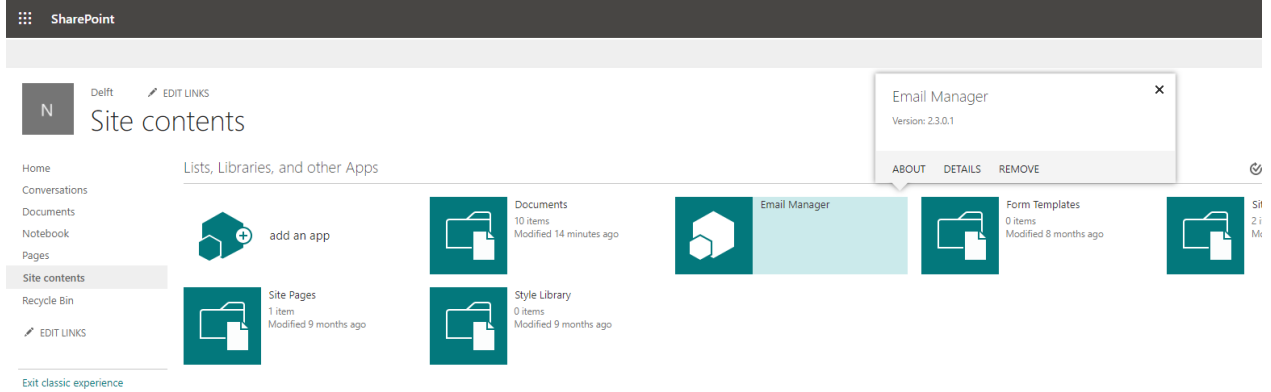


Figure 11. Classic view of “Site contents”.

- Click “OK” to confirm.
- Repeat steps 1 through 6 for each site where the app has been “manually” deployed.

The following steps are necessary to remove the App from the App catalog

- Open “Apps for SharePoint”
- Click on the ellipsis (...) for the Email Manager App

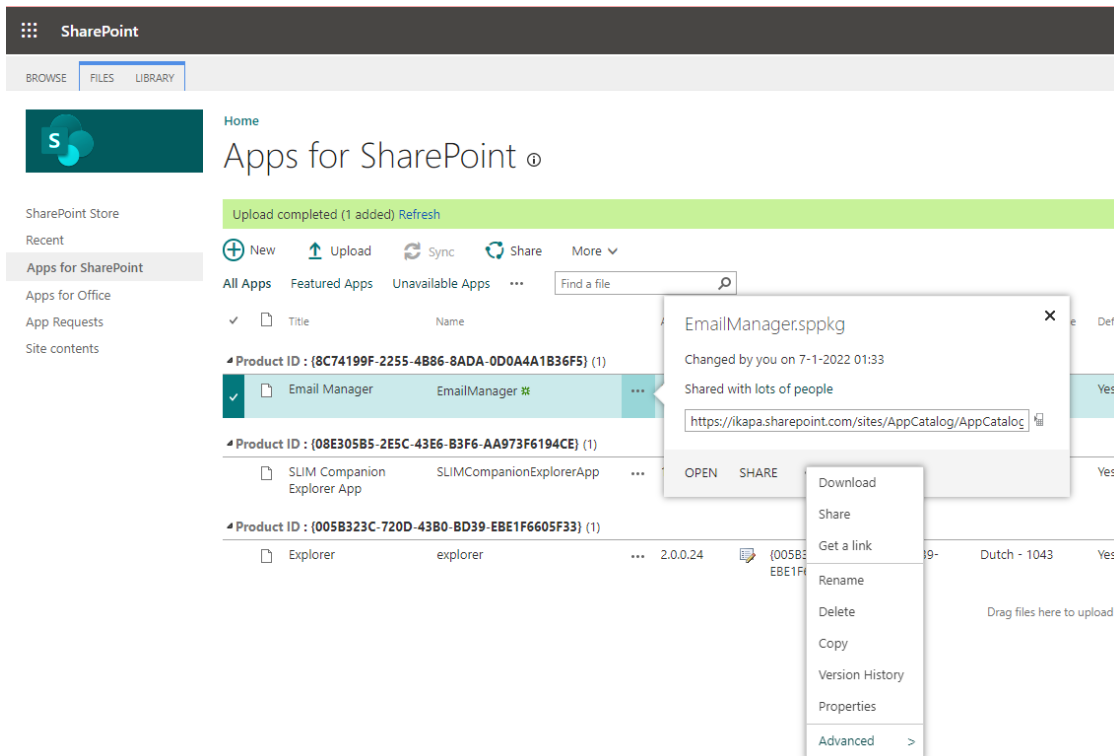


Figure 12. Deleting an app from “Apps for SharePoint”.

- Select the option “Delete”

10. Confirm by clicking “OK”
11. Browse to “Site contents” and click “RECYCLE BIN” (top right)
12. Delete the EmailManager.sppkg file from the recycle bin
13. Exit the classic experience and at the bottom of the page click “Second-stage recycle bin”
14. Delete the EmailManager.sppkg file from the second stage recycle bin
15. Confirm by clicking “Delete”

3. Configuration

In this section additional instructions are provided to configure the Office cache library and to configure metadata mapping. Both features are optional and without configuration the optional functionalities will not be available in the app.

3.1 Office Cache library

Email Manager 2.2.0.94 and later versions support viewing of Office email attachments directly in the browser.

This feature uses a central library as a cache location in the SharePoint cloud. This feature increases the adoption of SharePoint Online and increases user productivity. It also eliminates the need to have Office apps installed on the end users' computer (e.g., macOS) and reduces exposure of sensitive content via the local computer (compliance) because the Office files do not need to be downloaded to the end users' local machine.

The central library needs to be configured to ensure users can only view their own files. Execute the following steps to configure this central cache location in a separate site:

1. Login as site collection admin (or other role with permissions to create a new site)
2. Create a new site. For example: OfficeCache.
3. Browse to the newly created site and create a library. For example: Cache
4. Browse to the Settings page of the library and click "Permissions for this document library"
 - stop inheriting permissions
 - remove existing groups (3x)
 - grant access to "everyone except external users" with permission level = Contribute
5. Browse to the Settings page of the library and select "Versioning Settings"
 - Require content approval: checked
 - Draft Item Security = Only users who can approve items (and the author of the item)
 - click "OK"
6. Browse to the Settings page of the library and select "Advanced settings":
 - "Allow items from this document library to appear in search results?" No
 - click "OK"

The final step is to configure the Email Manager app to use the cache library. The configuration is made using so-called tenant properties (see <https://docs.microsoft.com/en-us/sharepoint/dev/spfx/tenant-properties?tabs=sprest>) or using a txt file for testing/evaluation purposes.

The tenant properties can only be set using Microsoft SPO Management Shell, PnP PowerShell or CLI for Microsoft 365.

The instructions below are for PnP PowerShell:

1. Open a PowerShell window with Run as Administrator
2. Enter the following commands (after replacing <tenant>)

```
$tenant = "https://<tenant>.sharepoint.com/"  
$cred = Get-Credential
```

```
Connect-PnPOnline -Url $tenant -Credentials $cred  
Set-PnPStorageEntity -Key OfficeCacheLocation -Value  
"https://<tenant>.sharepoint.com/sites/OfficeCache/Cache" -Description "Absolute url to the  
cache library (excl. /forms part)"
```

Note #1: if the tenant uses multiple factor authentication (MFA) use
Connect-PnPOnline -UseWebLogin -Url \$tenant

Note #2: To check the value of the field, use the following command
Get-PnPStorageEntity -Key OfficeCacheLocation

Note #3: To remove the field use
Remove-PnPStorageEntity -Key OfficeCacheLocation

Testing

Upload an email with one or more Office attachments (e.g., docx, xlsx, pptx or vsdx) and use the Email Manager's "View email(s)" button to view the email in the browser. Verify that clicking the email Office attachment results in the opening of the attachment in the browser.

Characteristics

The cache library has the following characteristics.

1. The site is not directly accessible for users.
2. Users can only open the cache library.
3. Users will only see their **own** document(s) because of the configuration of the library with content approval.
Documents from other users are not visible.
4. The documents in the cache library are not indexed by the search engine.
5. Cached documents are automatically purged when the user views a different Office attachment, and the cached document(s) exceeds the threshold (1 hour).
6. Purged Office documents are not placed in the site's recycle bin; they are permanently deleted.
7. The site collection administrator who created the site can view all documents present in the Cache library.

3.2 Configuring email metadata mapping

Email Manager 2.3 and later support extraction of metadata from emails during uploading and capturing the values into SharePoint columns. This allows for improved sorting, viewing, and searching for emails.

The table below lists the email metadata that can be extracted from emails and captured into SharePoint columns:

Email metadata name	Example
From	Info
From address	info@slimapplications.com
To	Paul de Jong
To address	paul.de.jong@slimapplications.com
CC	Support
CC address	support@slimapplications.com
BCC	Sales
BCC address	sales@slimapplications.com
Message ID	<020f01d7dd7a\$fc86f2d0\$f50\$@slimapplications.com>
Subject	Example message
Conversation	Example message
Sent Date	Fri, 19 Nov 2021 19:23:50 GMT
Received Date	Fri, 19 Nov 2021 19:23:51 GMT
hasAttachment	Yes
Importance	High
Sensitivity	Personal
Categories	Green

Table 1. List with supported email metadata fields.

Note: extracting the email attachments (actual files) into separate SharePoint columns is not supported. The files can be accessed via the “View email(s)” in the browser.

Organizations can choose to extract all of the above email metadata fields or a subset or nothing. The Email Manager tool needs to be configured which email metadata field needs to be captured into which SharePoint column. The mapping between email metadata name and the corresponding SharePoint column is made using tenant properties. Like the configuration of the cache library in the preceding section.

The mapping is best demonstrated using an example. In the following table a subset with 10 of the available metadata columns are mapped against SharePoint columns.

Email metadata name	EmailManager App name	SharePoint column name* (example)	Type**
From	From	Email_From	Single line of text
From address	FromAddress	Email_FromAddress	Single line of text
To	To		Single line of text / Multiple lines of text
To address	ToAddress	Email_ToAddress	Single line of text / Multiple lines of text
CC	CC		Single line of text / Multiple lines of text
CC address	CCAddress	Email_CCAddress	Single line of text / Multiple lines of text
BCC	BCC		Single line of text / Multiple lines of text
BCC address	BCCAddress		Single line of text / Multiple lines of text
Message ID	MessageID		Single line of text
Subject	Subject	Email_Subject	Single line of text
Conversation	Conversation	Email_Conversation	Single line of text
Sent Date	SentDate	Email_SentDate	DateTime
Received Date	ReceivedDate	Email_ReceivedDate	DateTime
hasAttachment	hasAttachment	Email_Attachments	Choice*
Importance	Importance	Email_Importance	Choice
Sensitivity	Sensitivity		Choice
Categories	Categories		String

Table 2. Details of supported email metadata fields

*this is the internal SharePoint column name shown as an **example**.

** single line of text fields can hold up to 255 characters. Email Manager will truncate values exceeding 255 characters. Use multiple lines of text to cater for values exceeding 255 characters.

Important: The Administrator has full control on the naming of the SharePoint columns.

The Administrator or the site collection administrator needs to create the 10 SharePoint columns on the libraries or at a site level. The internal SharePoint column names can be found by browsing to the library and then opening the “Library Settings” under the cog at the top right corner. In the section “Columns” click on a name and read the internal name from the URL. For example,

https://ikapa.sharepoint.com/sites/NL/_layouts/15/FldEdit.aspx?List=%7B59E8281F-667C-4399-A124-1BFE83E77E1D%7D&Field=Email_From

The values in the tenant properties can be set using the following PowerShell script:

```
Set-PnPStorageEntity -Key From -Value "Email_From"
Set-PnPStorageEntity -Key FromAddress -Value "Email_FromAddress"
Set-PnPStorageEntity -Key ToAddress -Value "Email_ToAddress"
Set-PnPStorageEntity -Key CCAddress -Value "Email_CCAddress"
Set-PnPStorageEntity -Key Subject -Value "Email_Subject"
Set-PnPStorageEntity -Key Conversation -Value "Email_Conversation"
Set-PnPStorageEntity -Key SentDate -Value "Email_SentDate"
Set-PnPStorageEntity -Key ReceivedDate -Value "Email_ReceivedDate"
Set-PnPStorageEntity -Key hasAttachment -Value "Email_Attachments"
Set-PnPStorageEntity -Key Importance -Value "Email_Importance"
```

The -Key is the EmailManager App name (fixed) and the -Value is the SharePoint column name (free for the Administrator to choose).

Appendices A, B and C contain PowerShell scripts to set values, show values (for QA-ing) and remove fields respectively.

Configuring the app via tenant properties is the recommended solution for production use. For testing and acceptance environments where making changes efficiently is important it is also possible to use a text file. This file needs to be named "EmailManagerProperties.txt" and must be placed in the SiteAssets library in the root of the tenant. For example,

<https://<tenant>.sharepoint.com/siteassets/EmailManagerProperties.txt>

This text file contains name value pairs separated by an equal sign. See Appendix D.

```
From=Email_From  
FromAddress=Email_FromAddress
```

Note: when both the tenant properties and the EmailManagerproperties.txt file are present the tenant properties take precedence.

3.3 Special configuration options

This section describes special configuration options. These are optional and not required.

Rename emails using email metadata

Typically when uploading an email from Outlook to SharePoint the email is created with the name <subject>.msg

If that name is already present a sequence number will be automatically added like <subject>(2).msg

EmailManager allows creation of unique names by combining email metadata specified in the field *EmailNameSyntax*. For example, by combining the subject with the sent date the email name becomes <subject>_20220101_165800.msg

This has the additional advantage that sorting emails by name groups the emails by subject **and** automatically places them in a chronological (or reverse chronological) order.

The email naming syntax uses the email metadata field names from the preceding table. For example, to combine the subject and sent date use the following script to set the value for the *EmailNameSyntax* field.

```
Set-PnPStorageEntity -Key EmailNameSyntax -Value "<Subject>_<SentDate>" -Description "Name convention for emails"
```

Specifying email content type

Email Manager 2.3.0.20 and later support assigning an email content type. The email content type needs to be specified via the tenant properties.

Set-PnPStorageEntity -Key EmailContentTypeName -Value "SLIM Email" -Description "Name of the content type for emails. (optional)"

Open in app

This optional feature has been introduced in Email Manager 2.0.3.038 and allows for improved integration of SharePoint and the local mail client (e.g., Outlook).

The feature is available from the ribbon, the context menu of emails and in the email preview window. It downloads the selected email(s) and uses the configuration of the local client to directly open the local mail client.

Note #1: this feature depends on the configuration of the local client. This needs to be done independent from the installation of the Email Manager App.

Note #2: Changing the client configuration to directly open emails in the local email client leads to organizations deploying the Email Manager App to all sites in order to offer a consistent behavior.

The feature is disabled by default and can be enabled by adding a property into the tenant properties

```
Set-PnPStorageEntity -Key ShowOpenInApp -Value "true" -Description "Show 'Open in app' button to provide integration with local email client. Values true|false. Default behavior is false."
```

or by adding an extra parameter into the static EmailManagerProperties.txt file

```
ShowOpenInApp=true
```

Values used in choice fields

The following email metadata fields are of type choice:

- hasAttachment with values No, Yes
- Importance with values Low, Normal, High
- Sensitivity with values Normal, Personal, Private, Confidential

These default values can be overwritten using the fields

AttachmentLabels

ImportanceLabels

SensitivityLabels

Set-PnPStorageEntity -Key AttachmentLabels -Value "false,true" -Description "Comma separated list with display values for the presence of attachments"

For example, if an email is uploaded with an attachment and the hasAttachment field has been mapped to a SharePoint column via the tenant properties the value of the column will be set to true.

Automatic correction for time zone

The date fields extracted from emails like date sent are in UTC. Capturing the values into SharePoint columns may confuse users because the values correspond with a different time zone.

Email Manager provides a way to automatically convert the email date values captured into SharePoint columns to the local time zone. This is done by the optional field UTCOffset. This field uses the format hh:mm.

For example, for New Zealand (NZDT) use 13:00 and India (IST) use 05:30.

Note: this setting only applies to the extracted date fields captured into SharePoint columns. The date shown in the email preview uses the local browser's time zone.

Disable automatic metadata extraction

By default automatic metadata extraction is enabled. It can be disabled by using the parameter "AutomaticMetadataExtraction". The allowed values are true and false.

View Office attachments in the browser

Office attachments can be viewed in the browser using the following methods:

SharePoint Online	
Office Online	OfficeOnline
Office URI	OfficeURI
SharePoint 2019	
Office Online Server	OfficeOnlineServer
Office URI	OfficeURI

For example, to use Office Online Server on a SharePoint 2019 system use
OfficeAttachmentMode=OfficeURI

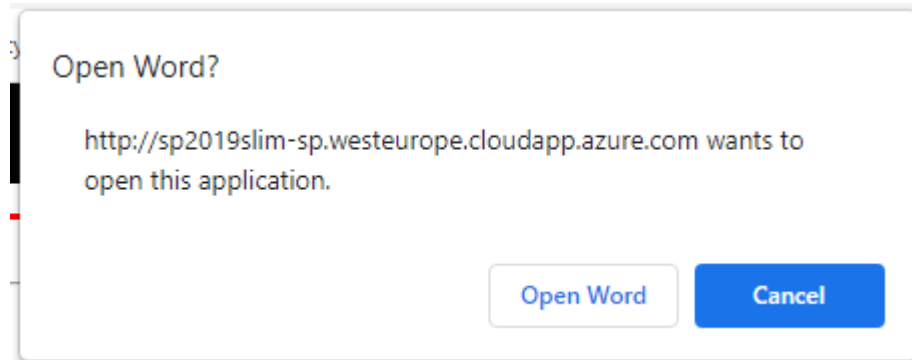
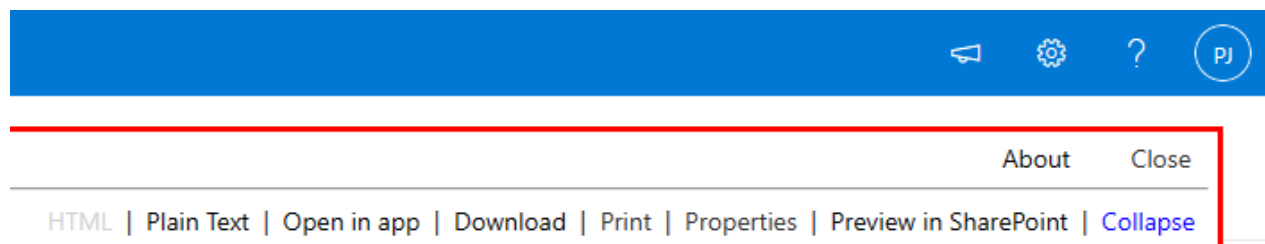


Figure 13. Office URI popup that is shown before opening the Office file using the local Office application.

Show About link

The property ShowAboutLink can be used to show or hide the About link.



Email presentation

Email Manager 2.5 supports presenting emails in HTML. This allows for displaying tables, fonts, colors and images. The result is very similar to the presentation of the email in Outlook.

The behavior is controlled using the parameter EmailBodyPresentation. For example, to show the HTML presentation as preferred option add the following line to the EmailManagerProperties.txt file
EmailBodyPresentation=HTML,Plain Text

The same behavior can be set using PowerShell (see Appendix A):

```
Set-PnPStorageEntity -Key EmailBodyPresentation -Value "HTML,Plain Text" -Description "Presentation email body preference"
```

Appendix A PnP script to set properties

```

Set-PnPStorageEntity -Key From -Value "Email_From" -Description "Internal SharePoint column name with the 'From' details"
Set-PnPStorageEntity -Key FromAddress -Value "Email_FromAddress" -Description "Internal SharePoint column name with the 'From address' details"
Set-PnPStorageEntity -Key To -Value "Email_To" -Description "Internal SharePoint column name with the 'To' details"
Set-PnPStorageEntity -Key ToAddress -Value "Email_ToAddress" -Description "Internal SharePoint column name with the 'To address' details"
Set-PnPStorageEntity -Key CC -Value "Email_CC" -Description "Internal SharePoint column name with the 'CC' details"
Set-PnPStorageEntity -Key CCAddress -Value "Email_CCAddress" -Description "Internal SharePoint column name with the 'CC address' details"
Set-PnPStorageEntity -Key BCC -Value "Email_BCC" -Description "Internal SharePoint column name with the 'BCC' details"
Set-PnPStorageEntity -Key BCCAddress -Value "Email_BCCAddress" -Description "Internal SharePoint column name with the 'BCC address' details"
Set-PnPStorageEntity -Key MessageID -Value "Email_MessageID" -Description "Internal SharePoint column name with the 'Message ID' details"
Set-PnPStorageEntity -Key Subject -Value "Email_Subject" -Description "Internal SharePoint column name with the 'Subject'"
Set-PnPStorageEntity -Key Conversation -Value "Email_Conversation" -Description "Internal SharePoint column name with the 'Conversation'"
Set-PnPStorageEntity -Key SentDate -Value "Email_SentDate" -Description "Internal SharePoint column name with the 'Sent date' details"
Set-PnPStorageEntity -Key ReceivedDate -Value "Email_ReceivedDate" -Description "Internal SharePoint column name with the 'Received date' details"
Set-PnPStorageEntity -Key hasAttachment -Value "Email_Attachments" -Description "Internal SharePoint column name for 'Attachment' details"
Set-PnPStorageEntity -Key Importance -Value "Email_Importance" -Description "Internal SharePoint column name with the 'Importance' details"
Set-PnPStorageEntity -Key Sensitivity -Value "Email_Sensitivity" -Description "Internal SharePoint column name with the 'Sensitivity' details"
Set-PnPStorageEntity -Key Categories -Value "Email_Categories" -Description "Internal SharePoint column name with the 'Categories' details"
Set-PnPStorageEntity -Key EmailNameSyntax -Value "<Subject>_<SentDate>" -Description "Name convention for emails"
Set-PnPStorageEntity -Key UTCOffset -Value "12:00" -Description "UTC offset is the difference in hours and minutes between Coordinated Universal Time and local time in the format hh:mm"
Set-PnPStorageEntity -Key OfficeCacheLocation -Value "https://slimapplications.sharepoint.com/sites/Swissgrid002/Cache" -Description "Absolute url to the cache library (excl. /forms part)"
Set-PnPStorageEntity -Key AttachmentLabels -Value "No,Yes" -Description "Comma separated list with display values for the present of attachments"
Set-PnPStorageEntity -Key ImportanceLabels -Value "Low,Normal,High" -Description "Comma separated list with display values for the email's importance"
Set-PnPStorageEntity -Key SensitivityLabels -Value "Normal,Personal,Private,Confidential" -Description "Comma separated list with display values for the email's sensitivity"
Set-PnPStorageEntity -Key EmailContentTypeName -Value "SLIM Email" -Description "Name of the content type for emails. (optional)"
Set-PnPStorageEntity -Key ShowOpenInApp -Value "true" -Description "Show 'Open in app' button to provide integration with local email client. Values true|false. Default behaviour is false."
Set-PnPStorageEntity -Key AutomaticMetadataExtraction -Value "true" -Description "Enable/disable extraction of email metadata"
Set-PnPStorageEntity -Key ShowViewEmailIcons -Value "true" -Description "Show View email icon"
Set-PnPStorageEntity -Key EmailHeaderPresentation -Value "SharePointOnline" -Description "Presentation email header"
Set-PnPStorageEntity -Key EmailBodyPresentation -Value "HTML,Plain Text" -Description "Presentation email body preference"
Set-PnPStorageEntity -Key ShowAboutLink -Value "true" -Description "Display About link"

```

Appendix B PnP script to show email properties

```
Get-PnPStorageEntity -Key From
Get-PnPStorageEntity -Key FromAddress
Get-PnPStorageEntity -Key To
Get-PnPStorageEntity -Key ToAddress
Get-PnPStorageEntity -Key CC
Get-PnPStorageEntity -Key CCAddress
Get-PnPStorageEntity -Key BCC
Get-PnPStorageEntity -Key BCCAddress
Get-PnPStorageEntity -Key MessageID
Get-PnPStorageEntity -Key Subject
Get-PnPStorageEntity -Key Conversation
Get-PnPStorageEntity -Key SentDate
Get-PnPStorageEntity -Key ReceivedDate
Get-PnPStorageEntity -Key hasAttachment
Get-PnPStorageEntity -Key Importance
Get-PnPStorageEntity -Key Sensitivity
Get-PnPStorageEntity -Key Categories
Get-PnPStorageEntity -Key EmailNameSyntax
Get-PnPStorageEntity -Key UTCOffset
Get-PnPStorageEntity -Key OfficeCacheLocation
Get-PnPStorageEntity -Key AttachmentLabels
Get-PnPStorageEntity -Key ImportanceLabels
Get-PnPStorageEntity -Key SensitivityLabels
Get-PnPStorageEntity -Key EmailContentTypeName
Get-PnPStorageEntity -Key ShowOpenInApp
Get-PnPStorageEntity -Key AutomaticMetadataExtraction
Get-PnPStorageEntity -Key ShowViewEmailIcons
Get-PnPStorageEntity -Key EmailHeaderPresentation
Get-PnPStorageEntity -Key EmailBodyPresentation
Get-PnPStorageEntity -Key ShowAboutLink
```

Appendix C PnP script to remove email properties

```
Remove-PnPStorageEntity -Key From
Remove-PnPStorageEntity -Key FromAddress
Remove-PnPStorageEntity -Key To
Remove-PnPStorageEntity -Key ToAddress
Remove-PnPStorageEntity -Key CC
Remove-PnPStorageEntity -Key CCAddress
Remove-PnPStorageEntity -Key BCC
Remove-PnPStorageEntity -Key BCCAddress
Remove-PnPStorageEntity -Key MessageID
Remove-PnPStorageEntity -Key Subject
Remove-PnPStorageEntity -Key Conversation
Remove-PnPStorageEntity -Key SentDate
Remove-PnPStorageEntity -Key ReceivedDate
Remove-PnPStorageEntity -Key hasAttachment
Remove-PnPStorageEntity -Key Importance
Remove-PnPStorageEntity -Key Sensitivity
Remove-PnPStorageEntity -Key Categories
Remove-PnPStorageEntity -Key EmailNameSyntax
Remove-PnPStorageEntity -Key UTCOffset
Remove-PnPStorageEntity -Key OfficeCacheLocation
Remove-PnPStorageEntity -Key AttachmentLabels
Remove-PnPStorageEntity -Key ImportanceLabels
Remove-PnPStorageEntity -Key SensitivityLabels
Remove-PnPStorageEntity -Key EmailContentTypeName
Remove-PnPStorageEntity -Key ShowOpenInApp
Remove-PnPStorageEntity -Key AutomaticMetadataExtraction
Remove-PnPStorageEntity -Key ShowViewEmailIcons
Remove-PnPStorageEntity -Key EmailHeaderPresentation
Remove-PnPStorageEntity -Key EmailBodyPresentation
Remove-PnPStorageEntity -Key ShowAboutLink
```

Appendix D Configuring properties using a txt file

This section contains instructions to use a txt file to configure the Email Manager App.

Create a text file name EmailManagerProperties.txt and upload this file to the SiteAssets library in the root of your tenant. For example,

<https://<tenant>.sharepoint.com/siteassets/EmailManagerProperties.txt>

```
# Configuration settings for Email Manager 2.3
# Only modify the part after the = character
From=Email_From
FromAddress=Email_FromAddress
To=Email_To
ToAddress=Email_ToAddress
CC=Email_CC
CCAddress=Email_CCAddress
BCC=Email_BCC
BCCAddress=Email_BCCAddress
MessageID=Email_MessageID
Subject=Email_Subject
Conversation=Email_Conversation
SentDate=Email_SentDate
ReceivedDate=Email_ReceivedDate
hasAttachment=Email_Attachments
Importance=Email_Importance
Sensitivity=Email_Sensitivity
Categories=Email_Categories
EmailNameSyntax=<Subject>_<SentDate>
UTCOffset=12:00
OfficeCacheLocation=https://ikapa.sharepoint.com/sites/OfficeCache/Cache
AttachmentLabels=No,Yes
ImportanceLabels=Low,Normal,High
SensitivityLabels=Normal,Personal,Private,Confidential
EmailContentTypeName=SLIM Email
ShowOpenInApp=true
AutomaticMetadataExtraction=true
# keep as last line
```

The values in this file are optional. For example, if the email metadata extraction is not required and only the Office cache needs to be set and automatic metadata extraction disabled use the following lines:

```
# Configuration settings for Email Manager 2.3
# Only modify the part after the = character
OfficeCacheLocation=https://<tenant>.sharepoint.com/sites/OfficeCache/Cache
AutomaticMetadataExtraction=false
# keep as last line
```

Appendix E Using PowerShell to deploy and remove the Email Manager App

This section provides instructions to use PnP PowerShell to deploy the Email Manager SPFx App to all sites in a tenant. Instructions to remove the app from all sites are also included.

The scripts are based on PnP-PowerShell (See <https://docs.microsoft.com/en-us/powershell/sharepoint/sharepoint-pnp/sharepoint-pnpcmdlets?view=sharepoint-ps>). First execute the script in a test environment if possible.

Prerequisites:

1. The Email Manager App has been installed to the tenant App catalog with the checkbox selected for “Make this solution available to all sites in the organization”
3. Account with “Global Administrator” role

Open a PowerShell window with “Run as Administrator” and login as user with global administrator role.

Deploying the App to all sites

```
$tenant = "https://<tenant>.sharepoint.com/"
$cred = Get-Credential
Connect-PnPOnline -Url $tenant -Credentials $cred
$identity = "8c74199f-2255-4b86-8ada-0d0a4a1b36f5"
$sitecols = Get-PnPSiteSearchQueryResults -All foreach($sitecol in $sitecols) {
  Write-Host $sitecol.Title $sitecol.url $sitecol.id
  Connect-PnPOnline -Url $sitecol.url -Credentials $cred
  Install-PnPApp -Identity $identity
}
$sites = Get-PnPSubWeb -Recurse foreach($site in $sites) {
  Write-Host $site.Title $site.url $site.id
  Connect-PnPOnline -Url $site.url -Credentials $cred
  Install-PnPApp -Identity $identity
}
```

Replace <tenant> by your tenant's name

Removal of the App

Use the below script to remove the App from all sites.

```
$tenant = "https://<tenant>.sharepoint.com/"
$cred = Get-Credential
Connect-PnPOnline -Url $tenant -Credentials $cred
$identity = "8c74199f-2255-4b86-8ada-0d0a4a1b36f5"

$sitecols = Get-PnPSiteSearchQueryResults -All foreach($sitecol in $sitecols) {
  Write-Host $sitecol.Title $sitecol.url $sitecol.id
  Connect-PnPOnline -Url $sitecol.url -Credentials $cred
  Uninstall-PnPApp -Identity $identity
}

$sites = Get-PnPSubWeb -Recurse foreach($site in $sites) {
  Write-Host $site.Title $site.url $site.id
  Connect-PnPOnline -Url $site.url -Credentials $cred
  Uninstall-PnPApp -Identity $identity
}
```

Appendix F Configuring managed properties

This section describes the configuration of the managed properties to provide users with an Outlook like search capabilities for email metadata.

Prerequisites:

1. The SharePoint columns to hold the email metadata have been created. See section 3.2.
2. The tenant properties have been configured.
3. Account with permission to modify the SharePoint search configuration.

Instructions:

1. Browse to <https://admin.microsoft.com/>
2. In the “Admin centers” section (under “Show All”) select the “SharePoint” link
3. Select “More features” in the left-hand side navigation and click on “Search” in the Apps section.
4. Click on “Manage search schema”
5. Click “New Managed property”
6. Create a property with the following characteristics
 - in the field property name enter: From
 - type = text
 - searchable: enable checkbox
 - retrievable: enable checkbox
 - queryable: enable checkboxAt the bottom of the page click “Add a Mapping”
Search for the crawled property containing the from details, e.g., Email_From
7. Click “Add a Mapping” for the 2nd time
Search for the crawled property containing the fromaddress details, e.g., Email_FromAddress
8. Click “OK”
9. Repeat steps 5 through 8 for other fields such as:
 - To
 - Subject
 - CC
 - Sent
 - Received
 - hasattachmentNote: use type = text for all cases




Testing:

1. Upload multiple emails and wait a short while for the emails to get indexed.
2. Test the various search queries

Appendix G Configuring View icon (additional icon column)

This section describes the configuration of libraries with view icons adjacent to emails.

Email Document Library > 2.4.0.0

Name	View	Modified	Modified By	MyTag	+ Add column
3 nieuwe matches.msg		Yesterday at 15:45	Paul de Jong (Administrat		
De beste laptop van 15 inch.msg		Yesterday at 15:58	Paul de Jong (Administrat		
FW Telfort factuur_201705052245 (1).eml		About an hour ago	Paul de Jong (Administrat		

This enables user to open an email using Email Manager with a single click.

The configuration comprises of 2 parts.

Part 1. Create and configure column

Instructions:

- Download the json for formatting the custom column:
<https://www.slimapplications.com/wp-content/uploads/2023/01/ViewColumnFormattingAdditionalSPO.zip>
- Unpack the zip file and open the downloaded file in an editor.
- Create a new column named "View"
 Create a column named "View" of type "Single Line of Text" and under "Column Formatting" paste the contents of the downloaded file.
- Click "OK"
 Choose the option to add the column to all views (SharePoint Online only).
- Edit the different views to place the new column "View" as position 3 (after the Name).
 It is also possible to select 2 in order to show the icon in the 2nd column.
- Add the custom json to the "View" column
 - Expand View header
 - Select Format this column
 - Click Advanced Mode
 - Replace the existing json by the following json code



Part 2. Configure Email Manager to use the “View” icons to open the Email Manager Views

The change can be made to the static EmailManagerProperties.txt file by adding the parameter

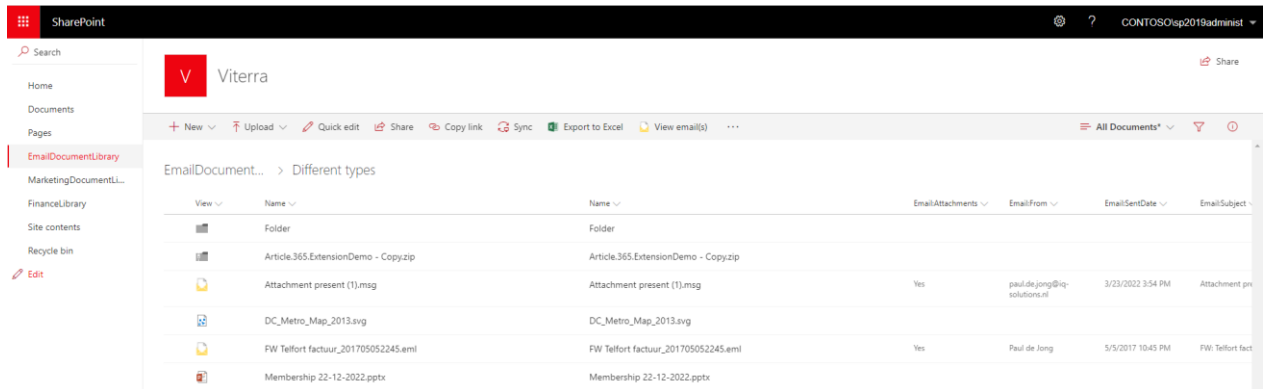
ShowViewEmailIcons=true

The change can also be made using PowerShell:

```
Set-PnPStorageEntity -Key ShowViewEmailIcons -Value "true" -Description "Show View email icon"
```

Appendix H Configuring View column (integrated column)

This section describes the configuration of libraries with view icons and regular icons in a single column. This feature allows a user to view an email by simply clicking the email icon. The feature is supported with SharePoint Online and SharePoint 2019.



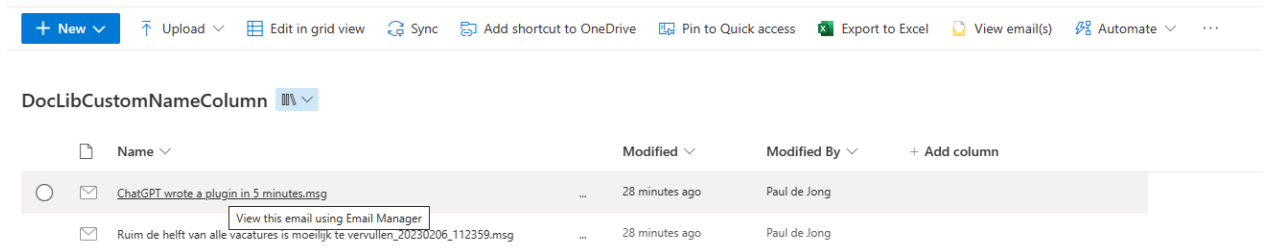
Instructions

1. Download the json for formatting the custom column:
https://www.slimapplications.com/wp-content/uploads/2023/02/ViewColumnFormatting_1.0.0.zip
2. Unpack the file and open the downloaded file in an editor.
3. Browse to a document library
4. Open the “Library Settings” (via the cog at the top right of the page)
5. In the “Column” section select “Create Column”
6. Create a column named “View” of type “Single Line of Text” and under “Column Formatting” paste the contents of the downloaded file.
7. Click “OK”
8. In the section “Views” click on the “Documents” view
9. Uncheck “Type” and set the position for the “View” column to 1
10. Click “OK”

Note: the custom View column can be used standalone or combined with the Name column. See appendix I.

Appendix I Configuring Name column (integrated column)

This section describes the configuration of libraries with a custom name column. This feature allows a user to view an email using Email Manager by simply clicking the email name. The other file types are not affected and show the default behavior.



The feature is supported with SharePoint Online and SharePoint 2019. SharePoint 2019 uses an older version of the json schema. As a result it is not possible to show the ... to open the context menu for SharePoint 2019. The options from the context menu are also available via the ribbon.

Instructions

- Download the json for formatting the custom column:
 SharePoint Online: https://www.slimapplications.com/wp-content/uploads/2023/02/NameColumnFormattingSPO_1.0.0.zip
 SharePoint 2019: https://www.slimapplications.com/wp-content/uploads/2023/02/NameColumnFormattingSP2019_1.0.2.zip
- Unpack the file and open the downloaded file in an editor.
- Browse to a document library
- Expand “Name”, select “Column Settings” and “Format this Column”
 Select Advanced and paste the contents of the downloaded file.
- Close the “Format Name Column” pane
- Click on an email to check that the Email Manager view opens
- Click on a non-email to verify that the default behavior is working.

Note: the custom Name column can be used standalone or combined with the View column. See appendix H.

SLIM Applications B.V.
 Rotterdamseweg 402Y
 2629 HH Delft, The Netherlands
<https://www.slimapplications.com/>
info@slimapplications.com