# Import - Export - Recovery

## PST Import

**(1) [Required Permissions](page2) (page2)**
**(2) [Import-Job](below) (below)**
**(3) [AZCopy](AZCopy)**
**(4) [Mapping.CSV](Mapping.CSV) (FILENAME.PST > NEWUSER)**

## Export

(5) [PST **Export**](PST Export)  (Exchange/**eDiscovery**)
(6) [Content search](Content search)
(7) [Backup+Upload OneDrive](Backup+Upload OneDrive) - link existing to new account

## E-Mail Recovery

(8) [Restore-Recoverableitems](Restore-Recoverableitems)

## Mailbox Recovery

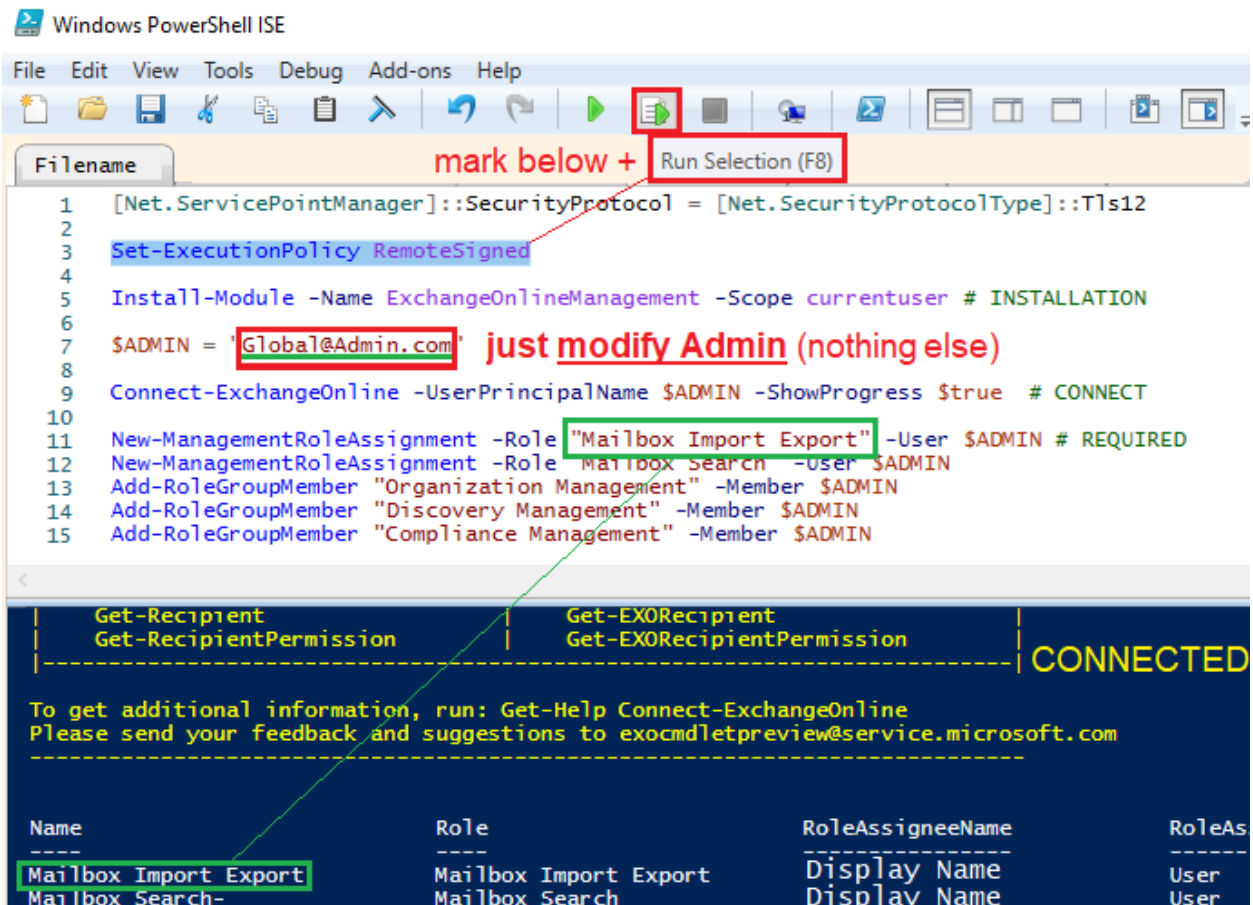(9) [softdeleted mailboxes](softdeleted mailboxes) / on-prem disconnected mailboxes

## (1)    Required Permissions

- **Powershell / Powershell** (ISE)

```
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12

Set-ExecutionPolicy RemoteSigned

Install-Module -Name ExchangeOnlineManagement -Scope currentuser # INSTALLATION

$ADMIN = "Global@Admin.com" # PLEASE CHANGE ADMIN

Connect-ExchangeOnline -UserPrincipalName $ADMIN -ShowProgress $true  # CONNECT

New-ManagementRoleAssignment -Role "Mailbox Import Export" -User $ADMIN # REQUIRED

New-ManagementRoleAssignment -Role "Mailbox Search" -User $ADMIN
Add-RoleGroupMember "Organization Management" -Member $ADMIN
Add-RoleGroupMember "Discovery Management" -Member $ADMIN
Add-RoleGroupMember "Compliance Management" -Member $ADMIN

#if customization not enabled yet, run the below first (takes 1-2 minutes)

Enable-OrganizationCustomization -confirm:$false
```
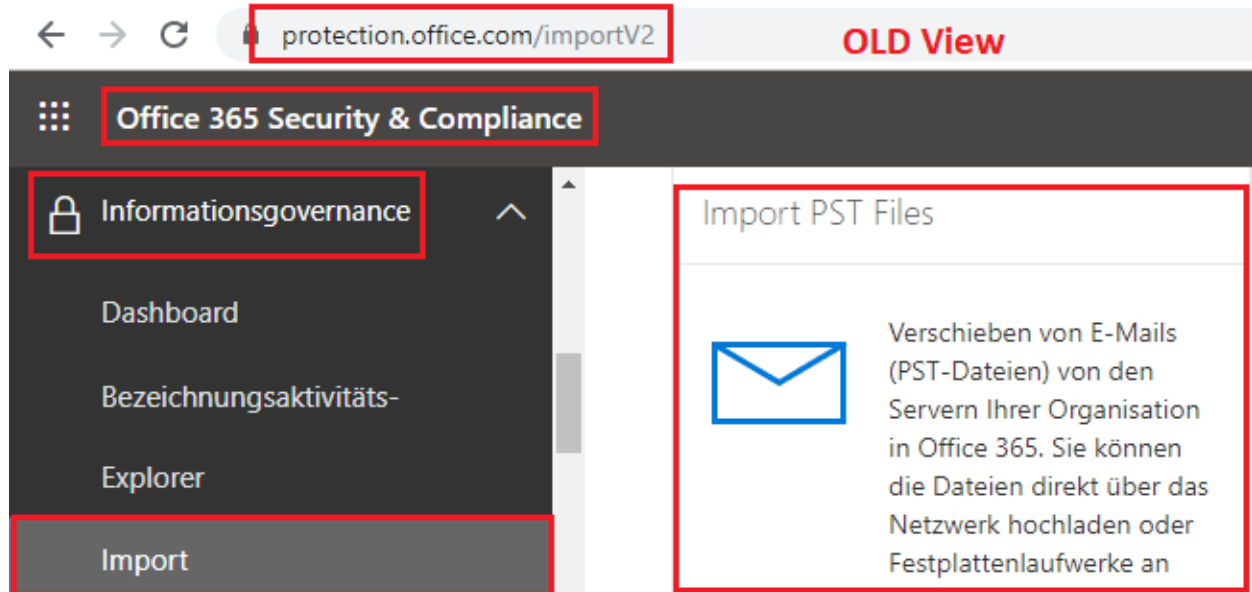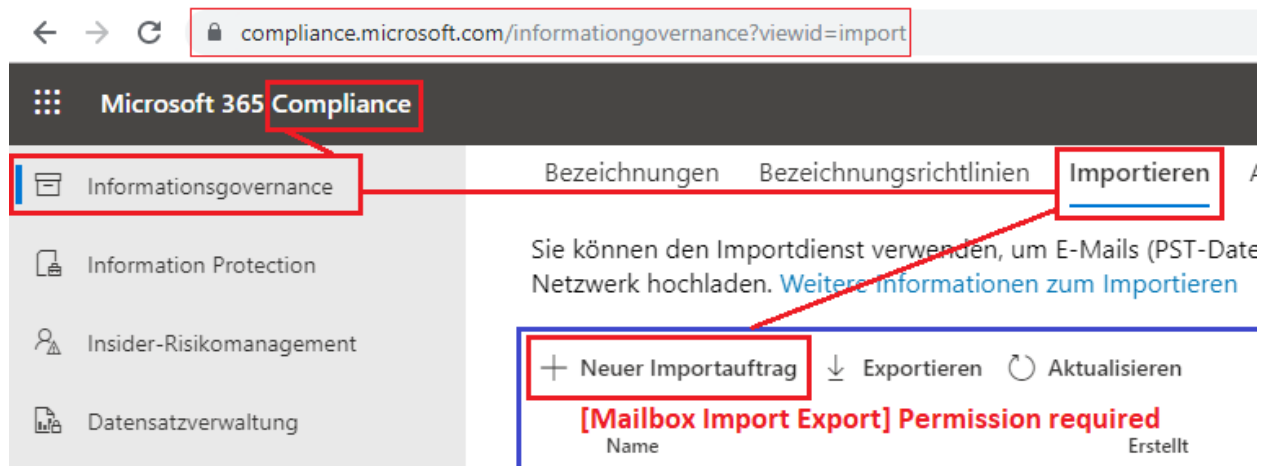
- **SCREENSHOT Powershell (ISE)**

## (2) Create Import-Job

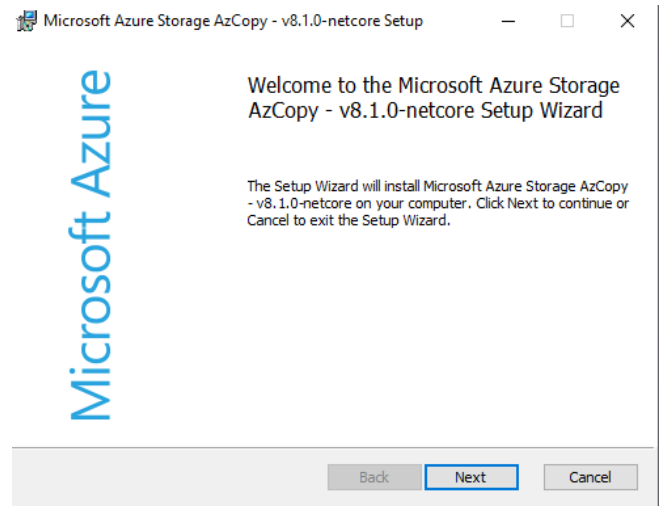- **OLD View ( Security and Compliance)**

URL: https://protection.office.com/import



- **New View (Compliance)**

URL: https://compliance.microsoft.com/informationgovernance?viewid=import

**(3) Download + Install AZCopy**
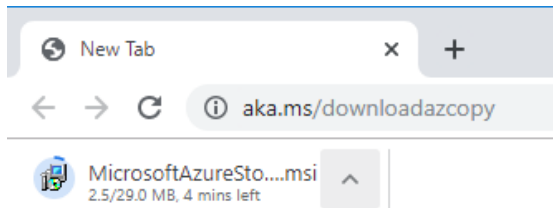


- **Open CMD**

- **Change Directory**

```
CD "C:\Program Files (x86)\Microsoft SDKs\Azure\AzCopy\"
```

- **Edit below in NotePad - insert the <mark>SAS-URL</mark> copied in Step (2) Create Import-Job**

- **Modify <mark>PST-Folder</mark>  – put <u>only the PST-Files inside</u>**

- **Run below from Notepad**

```
.\AzCopy.exe /Source:"C:\PSTFOLDER\" /Dest:"SAS-URL" /V:"C:\AzCopy1.log" /Y
```

- Upload with ca. **700 kb/s Speed**

- Able to **automatically resume** (for example if internet connection is reset)

**[When Upload is finished, continue below]**

# (4) Create Mapping.CSV  (FILENAME.PST > NEWUSER)*

**Reference:**
https://docs.microsoft.com/en-gb/office365/securitycompliance/use-network-upload-to-import-pst-files
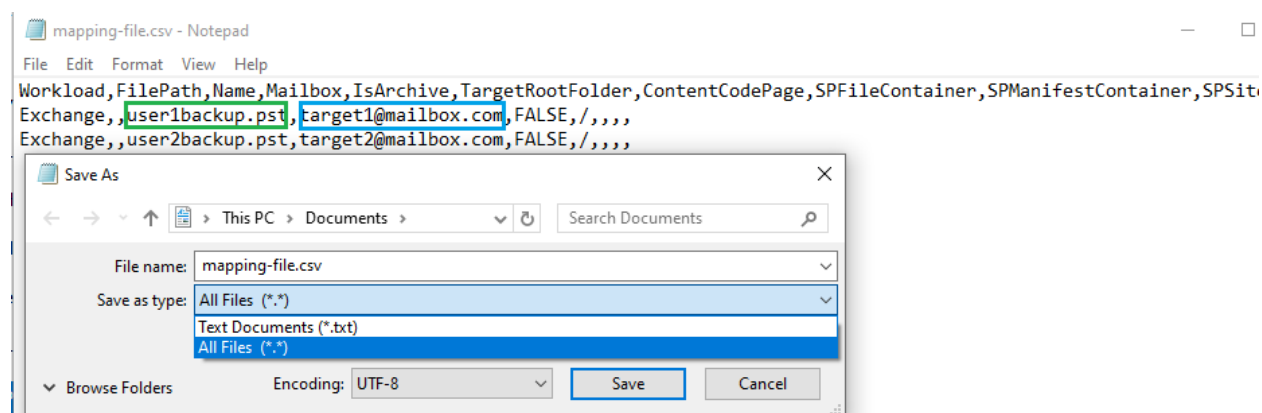
- **Copy Below to NotePad**

Workload,FilePath,Name,Mailbox,IsArchive,TargetRootFolder,ContentCodePage,SPFileContainer,SPManifestContainer,SPSiteUrl
Exchange,,user1backup.pst,target1@mailbox.com,FALSE,/,,,,
Exchange,,user2backup.pst,target2@mailbox.com,FALSE,/,,,,

- **save as** All Files (*.*)  →  **.CSV**



- **Excel View for Comparison**

| Workload | FilePath | Name | Mailbox | IsArchive | TargetRootFolder | ContentCodePage | SPFileContainer |
|---|---|---|---|---|---|---|---|
| Exchange | | **user1backup.pst** | **target1@mailbox.com** | FALSE | / | | |
| Exchange | | **user2backup.pst** | **target2@mailbox.com** | FALSE | / | | |

- Excel-CSV

(5) PST **Export** (Exchange/**eDiscovery**)

Exchange Admincenter > Compliance Management > [+] > [+] > one user > [ADD] > [OK] > Run
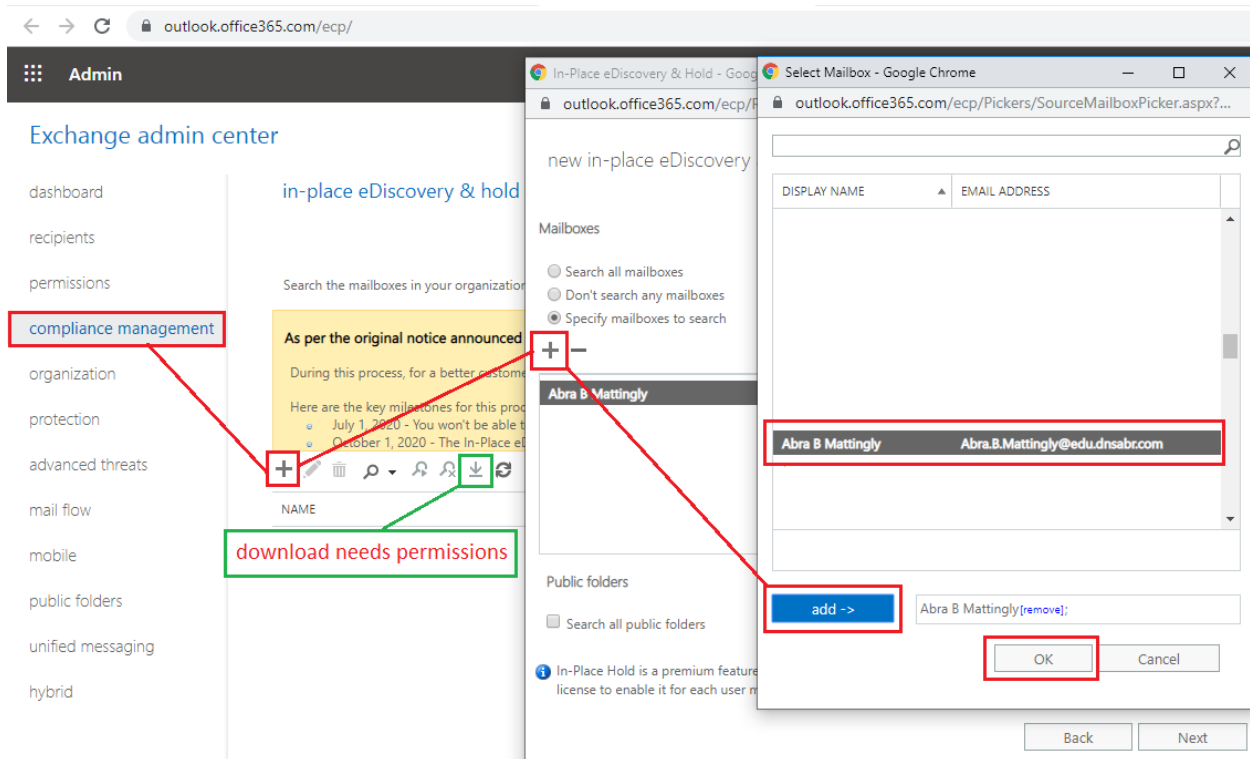


- **Download only in Internet Explorer (Arrow-Down)**
- **Alternative: Chrome + [Clickonce Chrome] Plugin**

## (6) Content Search (also for Data-Recovery + Sharepoint + other Data)

- **Assign Permissions**
  https://docs.microsoft.com/en-us/microsoft-365/compliance/assign-ediscovery-permissions
  https://protection.office.com/permissions → "eDiscovery Manager"

- **Alternative: Assign Permissions in Powershell**
  [Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12
  Install-Module MSOnline ; Connect-MsolService

  Add-MsolRoleMember -RoleName "**eDiscovery Manager**" -RoleMemberEmailAddress "admin@domain.com"

- **Start a New Search**
  https://protection.office.com/contentsearchbeta
  https://docs.microsoft.com/en-gb/microsoft-365/compliance/content-search



- **Also Specify the User ("Search Locations")**

- **Start Search ( Save > Save & Run )**

- **Prepare the Export PST – One PST for each Mailbox**

- **when finished you can download the PST under Export (see permissions required)**

- **eDiscovery Export Tool only works in IExplorer or Chrome + Click-Once Extension!**

**Office 365 Security & Compliance**

protection.office.com/contentsearchbeta?ContentOnly=1

Searches | **1** | Exports

Notice something different? Our eDi...

Refresh | Search

**Search Title_Export** ✕

↓ Restart export | ↓ **Download results** | 🗑 Delete

Name

**2** → **Search Title_Results**

Search Title_Reportsonly

Started on:

2020-07-26

Size:

10,632 item

Export key:

(100%) Installing M... ft Office 365 eDiscovery Export Tool — □ ✕

**3**

Installing Microsoft Office 365 eDiscovery Export Tool
This may take several minutes. You can use your computer to do other tasks during the installation.

Name: **Microsoft Office 365 eDiscovery Export Tool**

From: complianceclientsdf.blob.core.windows.net

Preparing Application...

The export key below is required to download the search results. Be sure to take precautions to protect this key because anyone can use it to download these results.

**Content Search**

**Export Results**

**copy export key to eDiscovery Export Tool**

**5** Copy to clipboard | Change key

🗐 eDiscovery Export Tool — □ ✕

Export Name: admin search_Export

Paste the export key that will be used to connect to the source:

**6** •• **insert here** ●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●

Select the location that will be used to store downloaded files:

C:\**PST - Folder - Path\** | Browse **4**

ⓥ Advanced options

**7** Start | Cancel

Internet Explorer or
Chrome + {clickonce Chrome Ext.}

2 item(s) loaded.

Exchange content format:

One PST file for each mailbox

**(7) Backup + Upload OneDrive** (linking old Folder to new Account)
**Get your Personal Onedrive Link**
→ **[Onedrive – view online)**
**Alternative: Go to Onedrive / Settings**
- **unselect [ files on demand / save space]**
- **to download your complete Onedrive (compare size)**
- **link/sync NEW Onedrive account to that folder with all files**
- **can be used for Onedrive and for Sharepoint document lists**

☁ Microsoft OneDrive ✕

Settings | Account | Network | Office | About

General
☑ Start OneDrive automatically when I sign in to Windows
☑ Automatically pause sync when this device is on a metered network

Notifications
☑ Warn me before removing files from the cloud
☑ Notify me when sync is auto-paused

Files On-Demand
☐ Save space and download files as you use them
More info

OK | Cancel
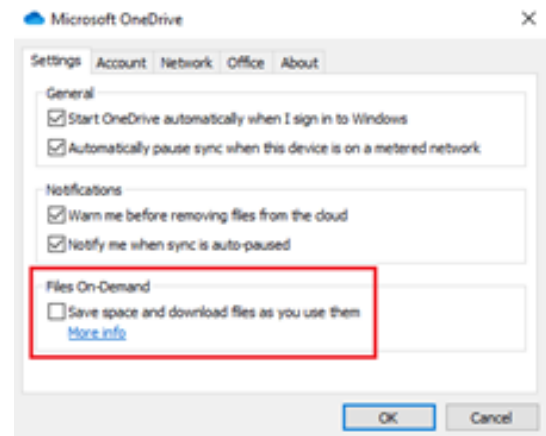
## (8) Restore-Recoverableitems  ([Link](Link))

- ## Connect

Set-**ExecutionPolicy** RemoteSigned
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12
**Install**-Module -Name ExchangeOnlineManagement

$admin = "*GLOBAL@ADMIN.com*" *# Global Admin please Modify*
**Connect**-ExchangeOnline -UserPrincipalName **$admin** -ShowProgress $true

New-ManagementRoleAssignment -Role "**Mailbox Import Export**" -User $ADMIN

**#reconnect to have new permissions**
Get-PSSession | remove-PSSession
**Connect**-ExchangeOnline -UserPrincipalName **$admin** -ShowProgress $true

- ## GET-RECOVERABLE ITEMS

$user = "***AFFECTED@USER.com***" *# **Affected User** – please Modify*

$start **= Get-Date -date $(Get-Date).AddDays(-90) # past -90 days**
$end = **Get-Date -date $(Get-Date)**

$search = **Get**-**recoverableitems -Identity $user -FilterStartTime** $start **-FilterEndTime** $end

$search | **FL subject**,**SourceFolder**,**ItemClass  # see results**

$search | **restore**-**recoverableitems # recover results**

- **OPTIONAL PARAMETERS to filter Types**
    -**SourceFolder** *PARAMETER*     **PurgedItems / DeletedItems / RecoverableItems**

    -**FilterItemType** IPM.**Appointment**    **# calendar items**
    -**FilterItemType** IPM.Contact
    -**FilterItemType** IPM.**File**
    -**FilterItemType** IPM.**Note**        **# E-mails**
    -**FilterItemType** IPM.**Task**

# (9) <u>softdeleted mailboxes (disconnected/inactive)</u>

**ONPREM** disconnected/softdeleted

https://docs.microsoft.com/en-us/exchange/disconnected-mailboxes-exchange-2013-help

```
$dbs = Get-MailboxDatabase

$dbs|%{Get-MailboxStatistics -Database $_.DistinguishedName }|?{$_.DisconnectReason -ne $Null } |
Format-Table DisplayName,Database,DisconnectDate
```

**ONCLOUD * (<mark>softdeleted</mark>) → (<mark>New Mailbox</mark>) * new-mailboxrestorerequest**

**<u>$Source</u> = get-mailbox -InactiveMailboxOnly "<mark>INACTIVE@Mailbox.com</mark>"**
**<u>$target</u> = get-mailbox "<mark>NEW@Mailbox.com</mark>"**
`$S = $Source.ExchangeGUID.GUID`
`$T = $target.ExchangeGUID.GUID`
**<u>write-host "Deleted NAME: $($source</u>.displayname) + GUID: $($S)" –foregroundcolor yellow**
**<u>write-host "Target NAME: $($target</u>.displayname) + GUID: $($S)" –foregroundcolor green**

`new-mailboxrestorerequest –SourceMailbox $S –TargetMailbox $T –AllowlegacyDNmismatch`

- **Check**

```
get-mailboxrestorerequest
Get-MailboxRestoreRequest -Status Failed | Get-MailboxRestoreRequestStatistics –IncludeReport
```

- **create PST** (only <mark>onprem</mark>)

New-**MailboxExportRequest** -Mailbox MAILBOXUSER –FilePath \\192.168.250.2\PSTFileShare\USER.pst"

**DUPLICATE mailbox (1) onprem and (2) oncloud (please escalate with below logs) (Ref.-Link)**

- **CMD / local AD** :

ldifde -f **c:\BadUser1.txt** -r "(UserPrincipalName=**User1@domain.com**)"
ldifde -f **c:\GoodUser1.txt** -r "(UserPrincipalName=**User2@domain.com**)"

- **Exchange management** shell (**on-prem**)

get-remotemailbox -identity **user1@domain.com** | fl | out-file C:\**BadRemoteuser.txt**
get-remotemailbox -identity **user2@domain.com** | fl | out-file C:\**GoodRemoteuser.txt**

- **Exchange Online** (**Cloud**)

$FormatEnumerationLimit=-1
get-mailbox -identity **user1@domain.com** | fl | out-file C:\**BadEXOuser.txt**
get-mailbox -identity **user2@domain.com** | fl | out-file C:\**GoodEXOuser.txt**        © Jan Hübener


if (!($value = Read-Host "Value [$default]")) { $value = $default }