

# Migration Exchange Server 2010 SP3 zu Exchange Server 2013 CU1

## Ausgangssituation:

- 1 Exchange 2010 SP3 Server mit ca. 20 Postfaechern und einigen oeffentlichen Ordnern
- 1 Exchange Server 2013 CU1 mit beiden Rollen

Grundsatzlich unterscheidet sich die Migration auf Exchange 2013 nur unwesentlich von der Migration von Exchange Server 2007 zu 2010:

[http://technet.microsoft.com/de-de/library/dd638158\(v=exchg.141\).aspx](http://technet.microsoft.com/de-de/library/dd638158(v=exchg.141).aspx)

Da es AFAIK (05.04.2013) noch kein Whitepaper fuer die Migration von Exchange 2010 zu 2013 gibt, kann man das Whitepaper von Exchange 2007 zu 2010 Migrationen verwenden

## Postfaecher

Postfaecher koennen mit dem EAC verschoben werden und man erhaelt auch relativ viele Informationen zum Migrationsprozess.

## Neuer Migrationsbatch

Exchange admin center

recipients mailboxes groups resources contacts shared migration

permissions

compliance management

organization

protection

mail flow

mobile

public folders

unified messaging

servers

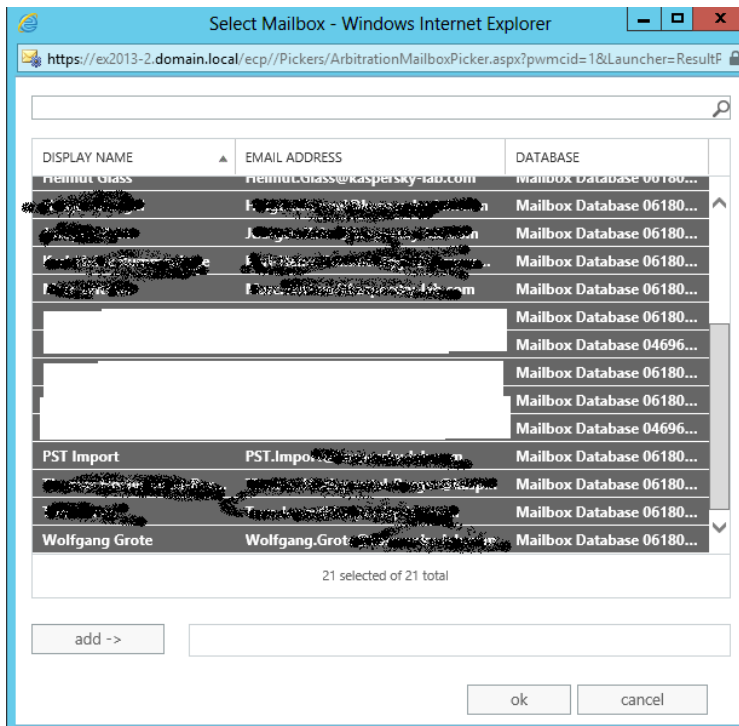
hybrid

Click to view the status for all current migration batches. [Status for all batches](#)

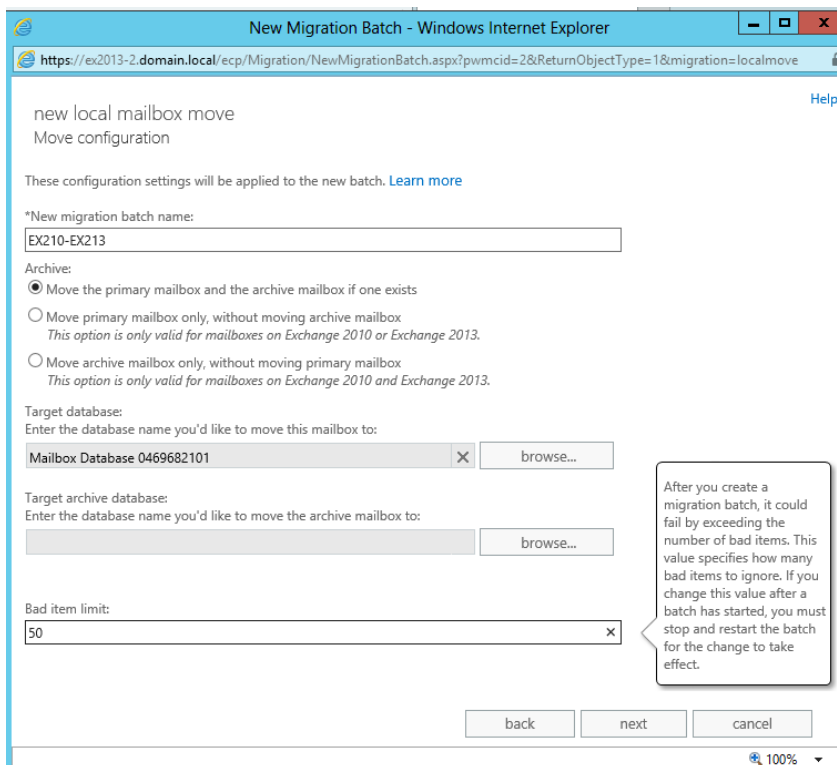
NAME	STATUS	TOTAL	SYNCED	FINAL...	FAILED
There are no items to show in this view.					

0 selected of 0 total

## Wer soll verschoben werden



## Was soll verschoben werden und wohin



## Wer soll informiert werden wenn der Migrations Batch Job fertig gestellt wurde

new local mailbox move Help

Start the batch

A new migration batch will be created after you click new. [Learn more](#)

\*After the batch is complete, a report will be sent to the following recipients. You must select at least one recipient to receive this report.

Administrator

You can start the batch automatically or start it later by selecting it in the migration dashboard and then clicking Start.

Automatically start the batch  
 Manually start the batch later

If you don't choose the option below, you will have to manually complete the migration batch by clicking the "Complete this migration batch" link on the right pane, after the link becomes active.

Automatically complete the migration batch

100%

## Details

### ALERTS

- i Migration batch 'EX210-EX213' has been queued.  
It was started by Administrator on 4/6/2013  
10:58:59 AM. [View details](#)

## Es geht los

The screenshot shows the 'Migration Batch Users' interface in a Windows Internet Explorer browser. The page title is 'EX2K10-EX2K13'. The URL is <https://ex2013-2.domain.local/ecp/Migration/MigrationBatchUsers.aspx?pwmcid=2&ReturnObjectType=1&dtm=0&id=70814d47-b684-421a-b>. The interface displays a table of users and their migration status. The user 'andreas.winter@lab.com' is selected and highlighted in the table. The details pane on the right shows the user's status as 'Syncing', with 0 items synced and 0 items skipped. It also displays migration statistics: 41.47 KB (42,469 bytes) of data migrated at a rate of 0 B (0 bytes). A 'close' button is visible at the bottom right of the interface.

EMAIL ADDRESS	STATUS	ITEMS SYNCED	ITEMS SKIPPED
andreas.winter@lab.com	Syncing	0	0
anton.simin@k...	Syncing	0	0
de...	Syncing	0	0
...	Syncing	0	0
...	Syncing	0	0
...	Syncing	0	0

1 selected of 7 total

andreas.winter@lab.com  
Status: Syncing  
[Skipped item details](#)  
Data migrated: 41.47 KB (42,469 bytes)  
Migration rate: 0 B (0 bytes)  
Error:  
Report: [Download the report for this user](#)  
Last successful sync date:

close

## Details

The screenshot shows the 'Migration Batch Users' interface in a Windows Internet Explorer browser. The page title is 'EX2K10-EX2K13'. The URL is <https://ex2013-2.domain.local/ecp/Migration/MigrationBatchUsers.aspx?pwmcid=1&ReturnObjectType=1&dtm=0&id=70814d47-b684-421a-b>. The interface displays a table of users and their migration status. The user 'andreas.winter@lab.com' is selected and highlighted in the table. The details pane on the right shows the user's status as 'Completed', with 54 items synced and 0 items skipped. It also displays migration statistics: 446.7 KB (457,465 bytes) of data migrated at a rate of 0 B (0 bytes). A 'close' button is visible at the bottom right of the interface.

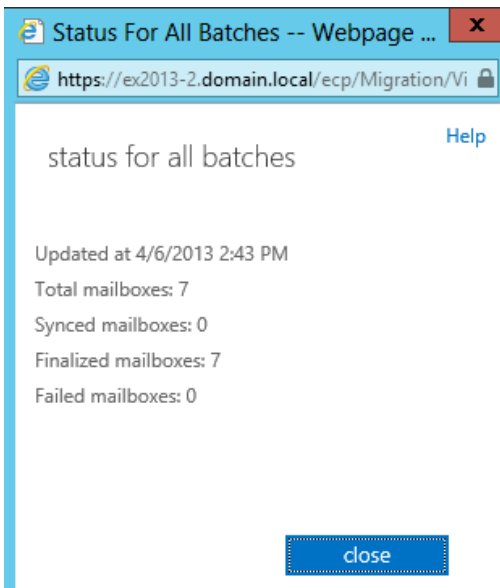
EMAIL ADDRESS	STATUS	ITEMS SYNCED	ITEMS SKIPPED
a	Completed	54	0
a	Completed	15	0
d	Completed	2	0
h	Completed	2	0
t	Completed	11	0
ji	Completed	11	0
n	Completed	0	0

1 selected of 7 total

andreas.winter@lab.com  
Status: Completed  
[Skipped item details](#)  
Data migrated: 446.7 KB (457,465 bytes)  
Migration rate: 0 B (0 bytes)  
Error:  
Report: [Download the report for this user](#)  
Last successful sync date: 4/6/2013 2:42:29 PM

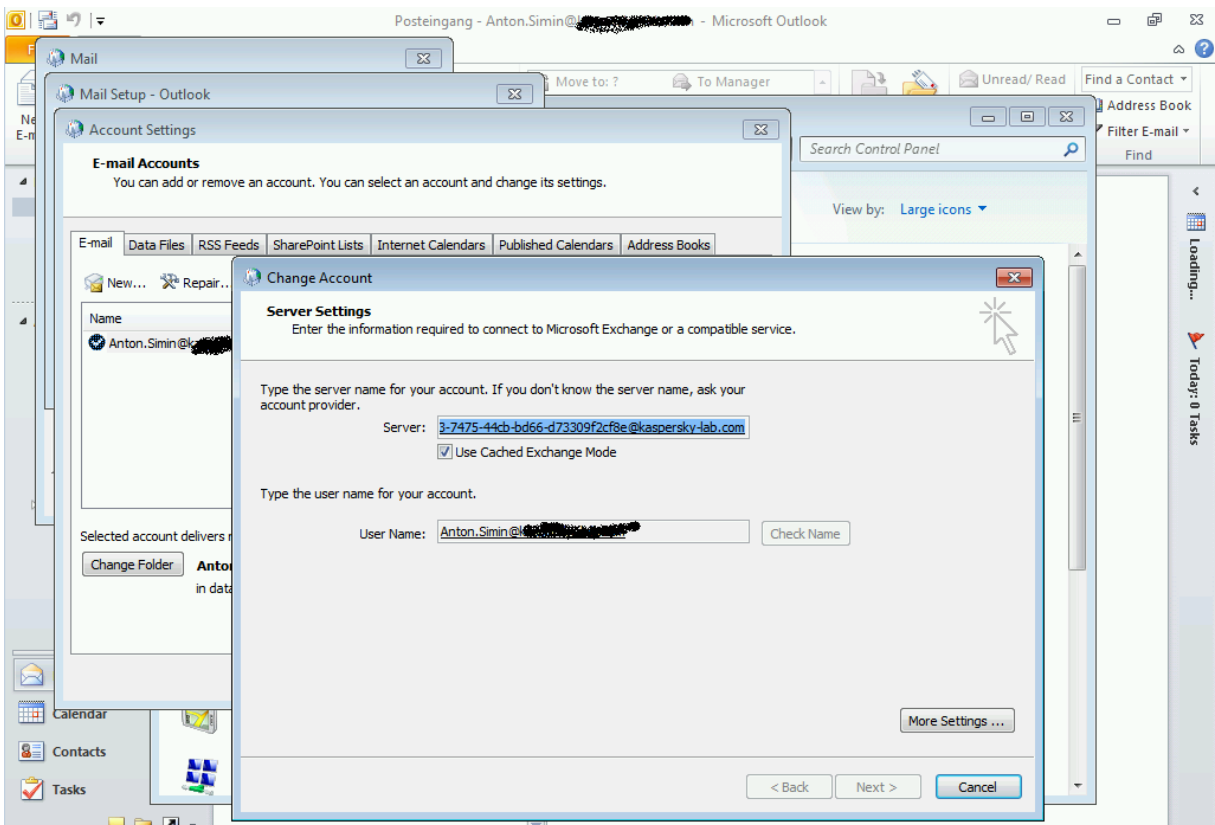
close

Alles gut



## Postfach testen

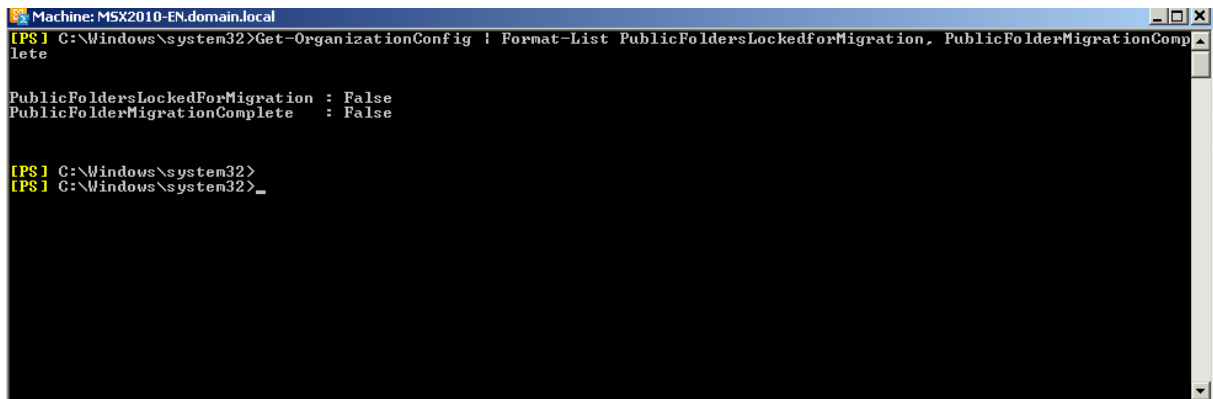
Autodiscover fuer Postfachanmeldung



## Public Folder migrieren (etwas aufwändiger)

[http://technet.microsoft.com/de-de/library/jj150486\(v=exchg.150\).aspx](http://technet.microsoft.com/de-de/library/jj150486(v=exchg.150).aspx)

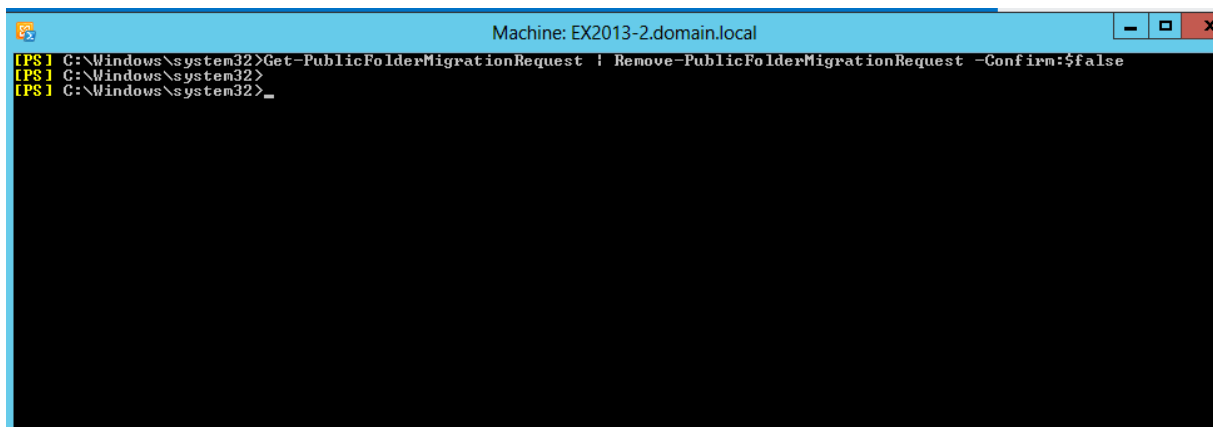
Sicherstellen das kein alter Migrationsbatch fuer Public Folder vorliegt



```
Machine: MSX2010-EN.domain.local
[PS] C:\Windows\system32>Get-OrganizationConfig | Format-List PublicFoldersLockedforMigration, PublicFolderMigrationComplete
PublicFoldersLockedForMigration : False
PublicFolderMigrationComplete : False

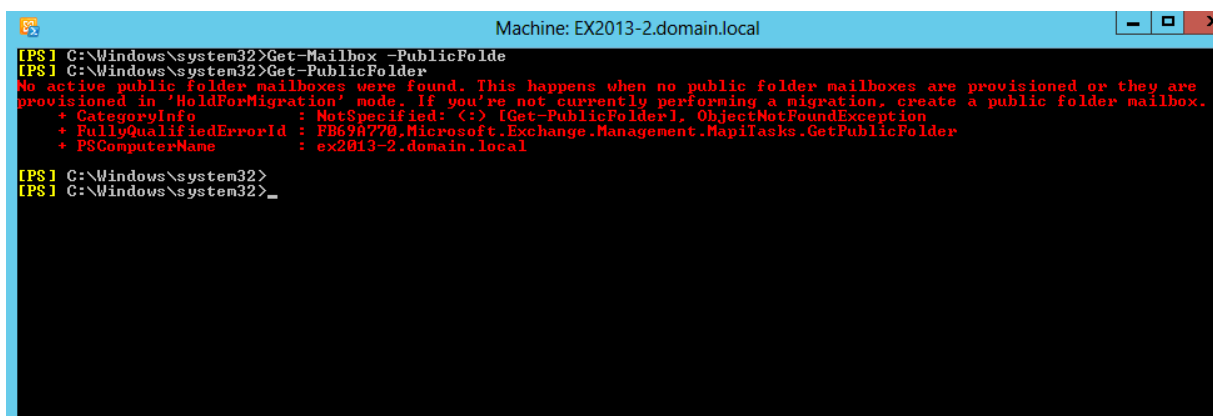
[PS] C:\Windows\system32>
[PS] C:\Windows\system32>
```

Sicherstellen das auf dem Exchange 2013 Server kein Migration Request existiert



```
Machine: EX2013-2.domain.local
[PS] C:\Windows\system32>Get-PublicFolderMigrationRequest | Remove-PublicFolderMigrationRequest -Confirm:$false
[PS] C:\Windows\system32>
[PS] C:\Windows\system32>
```

Sicherstellen das auf dem Exchange Server 2013 KEINE Public Folder existieren



```
Machine: EX2013-2.domain.local
[PS] C:\Windows\system32>Get-Mailbox -PublicFolder
[PS] C:\Windows\system32>Get-PublicFolder
No active public folder mailboxes were found. This happens when no public folder mailboxes are provisioned or they are provisioned in 'HoldForMigration' mode. If you're not currently performing a migration, create a public folder mailbox.
+ CategoryInfo          : NotSpecified: (:) [Get-PublicFolder], ObjectNotFoundException
+ FullyQualifiedErrorId : FB69A770.Microsoft.Exchange.Management.MapiTasks.GetPublicFolder
+ PSComputerName        : ex2013-2.domain.local

[PS] C:\Windows\system32>
[PS] C:\Windows\system32>
```

Die relevanten Public Folder Migrationsbatchdateien (.PS1) aus dem Scripts Verzeichnis des Exchange 2013 zum Exchange 2010 kopieren

## Exchange 2010 Public Folder Statistiken erstellen

```
Machine: MSX2010-EN.domain.local
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>.\Export-PublicFolderStatistics.ps1 msx2010-en.domain.local
msx2010-en.domain.local
[4/6/2013 4:18:11 PM] Enumerating folders under NON_IPM_SUBTREE...
[4/6/2013 4:18:11 PM] Enumerating folders under NON_IPM_SUBTREE completed...6 folders found.
[4/6/2013 4:18:11 PM] Retrieving statistics from server MSX2010-EN
[4/6/2013 4:18:11 PM] Retrieving statistics from server MSX2010-EN complete...8 folders found.
[4/6/2013 4:18:11 PM] Total unique folders found : 8.
[4/6/2013 4:18:11 PM] Exporting statistics for 8 folders
[4/6/2013 4:18:11 PM] Exporting folders to a CSV file
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>
```

Folgende öffentliche Ordner sollen migriert werden

```
msx2010-en.domain.local - Notepad
File Edit Format View Help
"FolderName","FolderSize"
"\IPM_SUBTREE","0"
"\IPM_SUBTREE\Helpdesk","14384"
"\IPM_SUBTREE\IT-Calendar","4772"
"\IPM_SUBTREE\IT-Calendar\FirstLevel","0"
"\IPM_SUBTREE\IT-Calendar\SecondLevel","0"
"\IPM_SUBTREE\IT-Tasks-2012","7542"
"\IPM_SUBTREE\Migrate2010","5538"
"\NON_IPM_SUBTREE","0"
"\NON_IPM_SUBTREE\EFORMS REGISTRY","0"
```

Wie gross soll die Mailbox fuer Public Folder in Bytes! werden

```
Machine: MSX2010-EN.domain.local
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>.\PublicFolderToMailboxMapGenerator.ps1 51200000 c:\pfmig\ms
x2010-en
cmdlet PublicFolderToMailboxMapGenerator.ps1 at command pipeline position 1
Supply values for the following parameters:
(Type '?' for Help)
ExportFile: PF2010-Stat
[4/6/2013 4:27:23 PM] Reading public folder list...
[4/6/2013 4:27:23 PM] Loading folder hierarchy...
[4/6/2013 4:27:23 PM] Allocating folders to mailboxes...
[4/6/2013 4:27:23 PM] Trying to accommodate folders with their parent...
[4/6/2013 4:27:23 PM] Exporting folder mapping...
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>
```

Eine Mailbox reicht aus

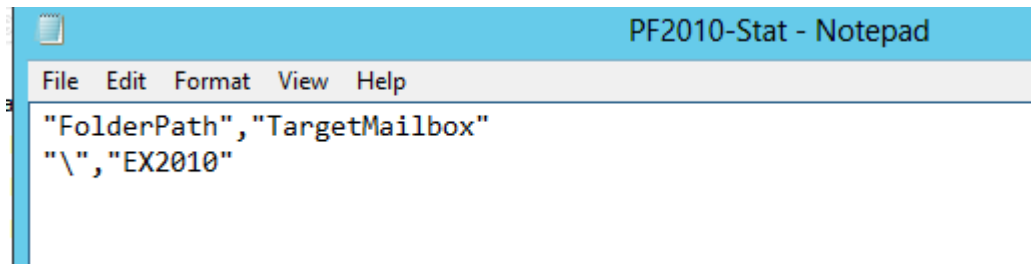
```
PF2010-Stat - Notepad
File Edit Format View Help
"FolderPath","TargetMailbox"
"\","Mailbox1"
```

Neue Public Folder Mailbox – wichtig: HoldForMigration

```
Machine: EX2013-2.domain.local
[PS] C:\pfmig>
[PS] C:\pfmig>
[PS] C:\pfmig>
[PS] C:\pfmig>
[PS] C:\pfmig>
[PS] C:\pfmig>
[PS] C:\pfmig>New-Mailbox -PublicFolder EX2010 -HoldForMigration

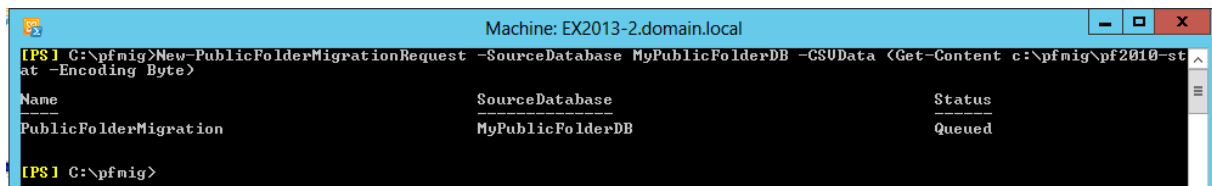
Name                Alias                ServerName           ProhibitSendQuota
-----                -
EX2010                EX2010                ex2013-2             Unlimited
[PS] C:\pfmig>
```

## Mapping Datei anpassen auf Mailbox Name fuer oeffentliche Ordner



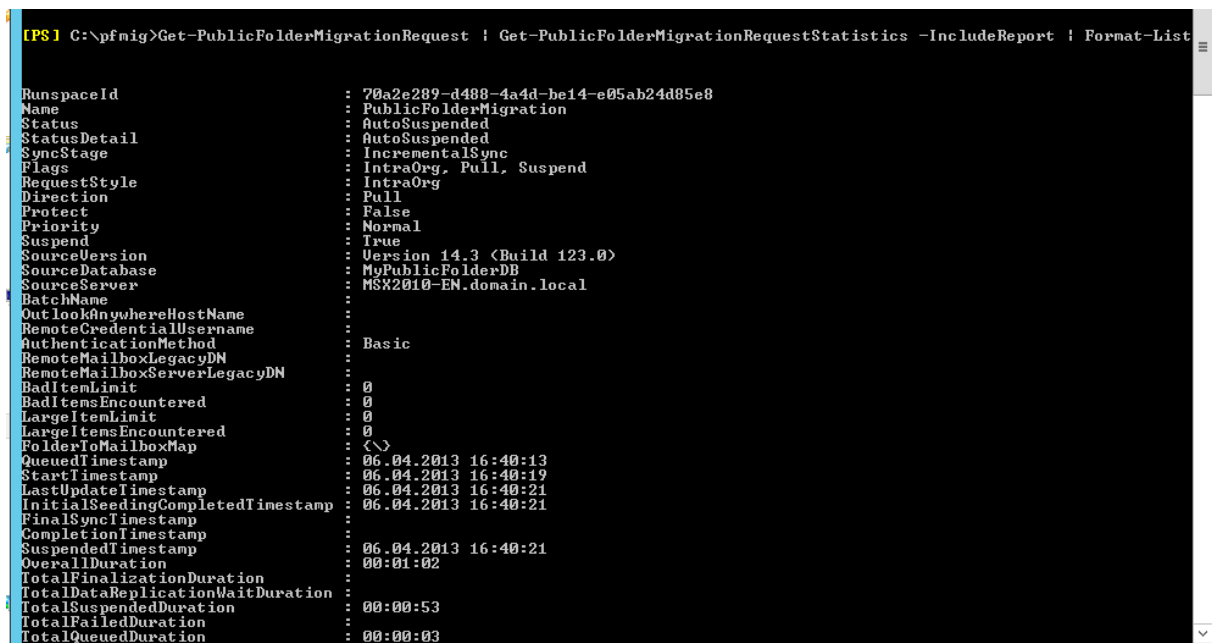
```
PF2010-Stat - Notepad
File Edit Format View Help
"FolderPath","TargetMailbox"
"\","EX2010"
```

## Migrieren

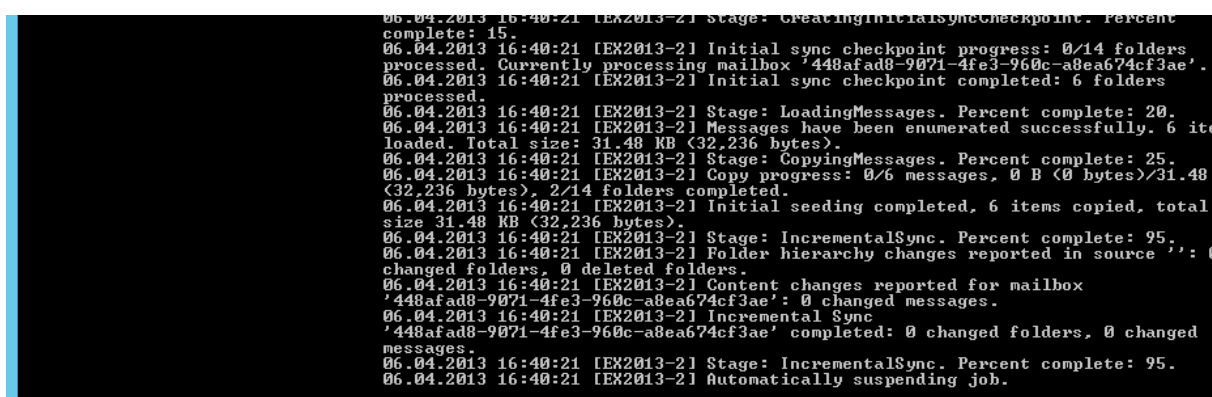


```
Machine: EX2013-2.domain.local
[PS] C:\pfnig>New-PublicFolderMigrationRequest -SourceDatabase MyPublicFolderDB -CSData <Get-Content c:\pfnig\pf2010-stat -Encoding Byte>
Name SourceDatabase Status
PublicFolderMigration MyPublicFolderDB Queued
[PS] C:\pfnig>
```

## Statistik



```
[PS] C:\pfnig>Get-PublicFolderMigrationRequest | Get-PublicFolderMigrationRequestStatistics -IncludeReport | Format-List
RunspaceId : 70a2c209-d400-4a4d-be14-e05ab24d05e8
Name : PublicFolderMigration
Status : AutoSuspended
StatusDetail : AutoSuspended
SyncStage : IncrementalSync
Flags : IntraOrg, Pull, Suspend
RequestStyle : IntraOrg
Direction : Pull
Protect : False
Priority : Normal
Suspend : True
SourceVersion : Version 14.3 (Build 123.0)
SourceDatabase : MyPublicFolderDB
SourceServer : MSX2010-EN.domain.local
BatchName :
OutlookAnywhereHostName :
RemoteCredentialUsername :
AuthenticationMethod : Basic
RemoteMailboxLegacyDN :
RemoteMailboxServerLegacyDN :
BadItemLimit : 0
BadItemsEncountered : 0
LargeItemLimit : 0
LargeItemsEncountered : 0
FolderToMailboxMap : (\)
QueuedTimestamp : 06.04.2013 16:40:13
StartTimestamp : 06.04.2013 16:40:19
LastUpdateTimestamp : 06.04.2013 16:40:21
InitialSeedingCompletedTimestamp : 06.04.2013 16:40:21
FinalSyncTimestamp :
CompletionTimestamp :
SuspendedTimestamp : 06.04.2013 16:40:21
OverallDuration : 00:01:02
TotalFinalizationDuration :
TotalDataReplicationWaitDuration :
TotalSuspendedDuration : 00:00:53
TotalFailedDuration :
TotalQueuedDuration : 00:00:03
```



```
06.04.2013 16:40:21 [EX2013-2] Stage: CreatingInitialSyncCheckpoint. Percent complete: 15.
06.04.2013 16:40:21 [EX2013-2] Initial sync checkpoint progress: 0/14 folders processed. Currently processing mailbox '448afad8-9071-4fe3-960c-a8ea674cf3ae'.
06.04.2013 16:40:21 [EX2013-2] Initial sync checkpoint completed: 6 folders processed.
06.04.2013 16:40:21 [EX2013-2] Stage: LoadingMessages. Percent complete: 20.
06.04.2013 16:40:21 [EX2013-2] Messages have been enumerated successfully. 6 items loaded. Total size: 31.48 KB (32,236 bytes).
06.04.2013 16:40:21 [EX2013-2] Stage: CopyingMessages. Percent complete: 25.
06.04.2013 16:40:21 [EX2013-2] Copy progress: 0/6 messages, 0 B (0 bytes)/31.48 (32,236 bytes). 2/14 folders completed.
06.04.2013 16:40:21 [EX2013-2] Initial seeding completed, 6 items copied, total size 31.48 KB (32,236 bytes).
06.04.2013 16:40:21 [EX2013-2] Stage: IncrementalSync. Percent complete: 95.
06.04.2013 16:40:21 [EX2013-2] Folder hierarchy changes reported in source: 0 changed folders. 0 deleted folders.
06.04.2013 16:40:21 [EX2013-2] Content changes reported for mailbox '448afad8-9071-4fe3-960c-a8ea674cf3ae': 0 changed messages.
06.04.2013 16:40:21 [EX2013-2] Incremental Sync '448afad8-9071-4fe3-960c-a8ea674cf3ae' completed: 0 changed folders, 0 changed messages.
06.04.2013 16:40:21 [EX2013-2] Stage: IncrementalSync. Percent complete: 95.
06.04.2013 16:40:21 [EX2013-2] Automatically suspending job.
```



Fertig

```
[PS] C:\pfmig>Get-PublicFolderMigrationRequest
Name                                     SourceDatabase                         Status
-----                                     -
PublicFolderMigration                   MyPublicFolderDB                       AutoSuspended
[PS] C:\pfmig>
```

Zugriff auf öffentliche Ordner von Exchange 2010 sperren

```
Machine: MSX2010-EN.domain.local
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>Set-OrganizationConfig -PublicFoldersLockedForMigration:$true
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>
```

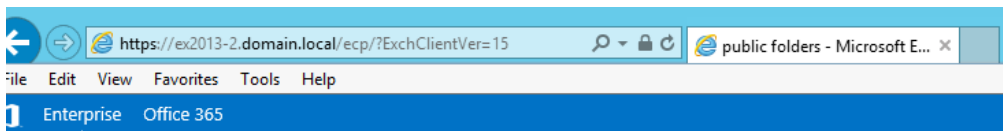
Migrationsstatus auf Complete setzen

```
Machine: EX2013-2.domain.local
[PS] C:\pfmig>Set-OrganizationConfig -PublicFolderMigrationComplete:$true
[PS] C:\pfmig>
```

User Account zum Testen die Public Folder Mailbox zuweisen

```
[PS] C:\pfmig>Set-Mailbox -Identity simina -DefaultPublicFolderMailbox ex2010
[PS] C:\pfmig>
```

Da sind sie



## Exchange admin center

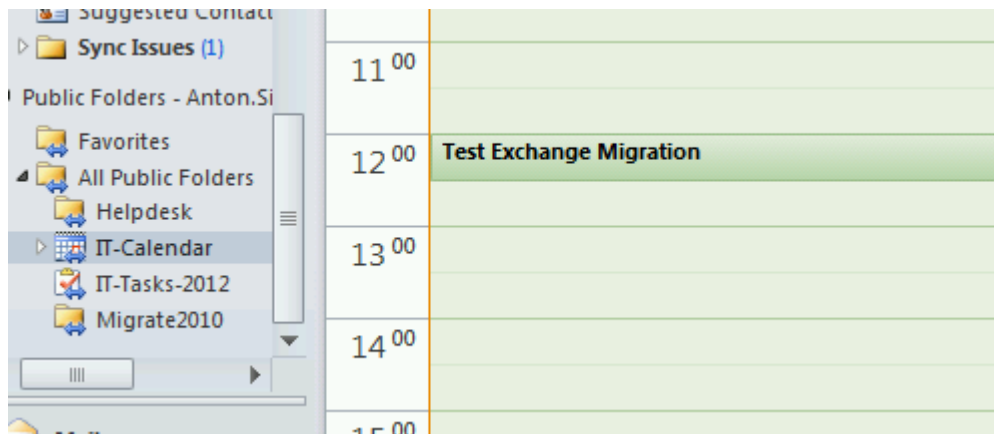
- recipients
- permissions
- compliance management
- organization
- protection
- mail flow
- mobile
- public folders**
- unified messaging
- servers

public folders public folder mailboxes



SUBFOLDER N...	HAS SUBFOLDERS	MAIL ENABLED	MAILBOX
<a href="#">Helpdesk</a>	No	Yes	EX2010
<a href="#">IT-Calendar</a>	Yes	No	EX2010
<a href="#">IT-Tasks-2012</a>	No	No	EX2010
<a href="#">Migrate2010</a>	No	No	EX2010

## Zugriff testen



## Abschliessen

```
Machine: EX2013-2.domain.local
[PS] C:\pfmig>Set-PublicFolderMigrationRequest -Identity \PublicFolderMigration -PreventCompletion:$false
[PS] C:\pfmig>Resume-PublicFolderMigrationRequest -Identity \PublicFolderMigration
[PS] C:\pfmig>_
```

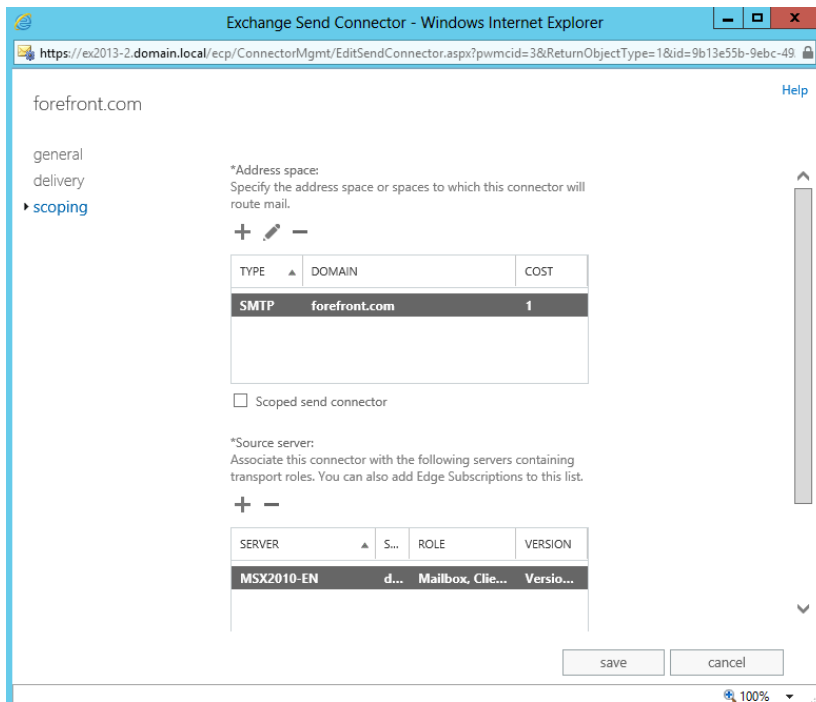
Zugriffe testen und anschliessend Public Folder DB von Exchange 2010 loeschen

Neustart der Public Folder Migration wenn die vorangegangene Migration nicht erfolgreich war

```
[PS] C:\pfmig>Get-PublicFolderMigrationRequest | Remove-PublicFolderMigrationRequest
Confirm
Are you sure you want to perform this action?
Removing completed request '\PublicFolderMigration'.
[Y] Yes [A] Yes to All [N] No [L] No to All [?] Help (default is "Y"): y
[PS] C:\pfmig>
```

## Systemeinstellungen migrieren

Z. B. Sende Connectoren auf Exchange 2013 umstellen



### Weiteres:

Ggfs. Externe URLs umstellen fuer externe Zugriffe

Exchange 2010 fuer einen laengeren Zeitraum ausgeschaltet lassen und alle Zugriffe testen ob alles korrekt auf Exchange 2013 uebertragen wurde.