The Guide v2.0

poc

Codename: Janice

This guide is made to simulate a scenario where a company called “Jd0e Inc” in our case was acquired by “Agzsolt Inc). They both are using a hybrid Office365 environment, however in this guide we only deal with the mail service. Our goal is to merge Jd0e into the Agzsolt tenant while we maintain mail- and workflow the whole time.

To make the situation a little more complex, the source Jd0e tenant is using **ADFS** for single sign-on functionality.

Also the Jd0e users are still using the the 2010 version of Outlook so we stick with it here.

In our example **agzsolt.com** is used to be the destination tenant and **jd0e.com** is the organization to be moved the mailboxes from.

The starting setup

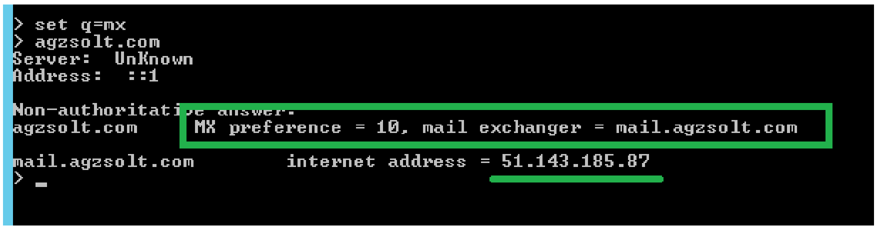
Destination:

agzsolt.com

Hybrid

O365: agzsolt.onmicrosoft.com tenant, agzsolt.com as the default domain

Onprem: **Exchange 2013 CU18** server: 51.143.185.87



```
> set q=mx
> agzsolt.com
Server:  UnKnown
Address:  ::1

Non-authoritative answer:
agzsolt.com     MX preference = 10, mail exchanger = mail.agzsolt.com

mail.agzsolt.com        internet address = 51.143.185.87
> _
```

Source:

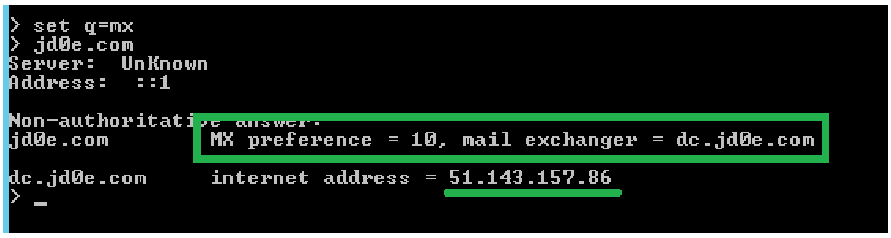
Jd0e.com

Hybrid and ADFS federated

O365: jdoe.onmicrosoft.com tenant; jd0e.com as the default domain

Onprem: **Exchange 2013 CU18** server+DC: 51.143.157.86

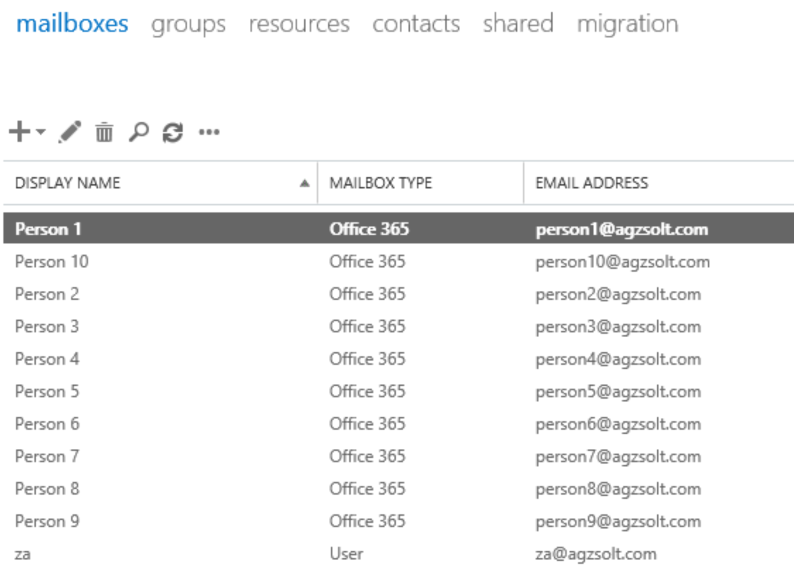
Adfs proxy: 51.143.188.208



```
> set q=mx
> jd0e.com
Server:  UnKnown
Address:  ::1

Non-authoritative answer:
jd0e.com        MX preference = 10, mail exchanger = dc.jd0e.com

dc.jd0e.com     internet address = 51.143.157.86
> _
```

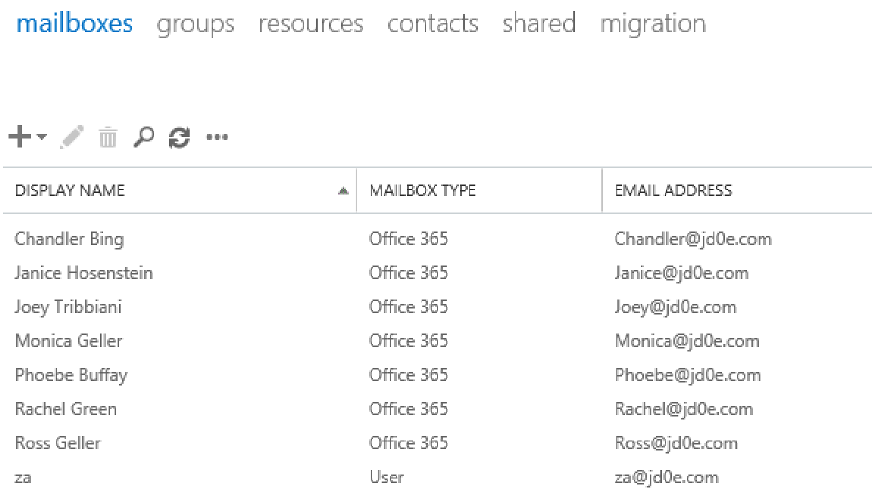
Mailbox situation:

Destination – agzsolt.com:



DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
Person 1	Office 365	person1@agzsolt.com
Person 10	Office 365	person10@agzsolt.com
Person 2	Office 365	person2@agzsolt.com
Person 3	Office 365	person3@agzsolt.com
Person 4	Office 365	person4@agzsolt.com
Person 5	Office 365	person5@agzsolt.com
Person 6	Office 365	person6@agzsolt.com
Person 7	Office 365	person7@agzsolt.com
Person 8	Office 365	person8@agzsolt.com
Person 9	Office 365	person9@agzsolt.com
za	User	za@agzsolt.com

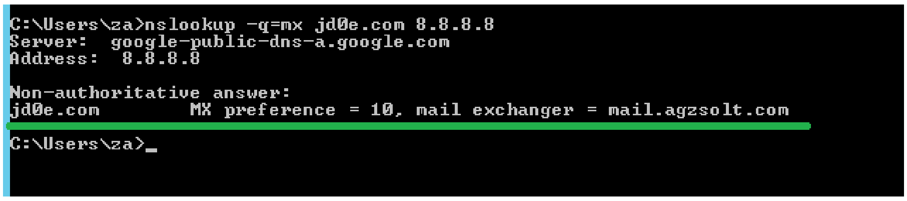
Source – jd0e.com:



DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
Chandler Bing	Office 365	Chandler@jd0e.com
Janice Hosenstein	Office 365	Janice@jd0e.com
Joey Tribbiani	Office 365	Joey@jd0e.com
Monica Geller	Office 365	Monica@jd0e.com
Phoebe Buffay	Office 365	Phoebe@jd0e.com
Rachel Green	Office 365	Rachel@jd0e.com
Ross Geller	Office 365	Ross@jd0e.com
za	User	za@jd0e.com

Ok, let's start!

Change the jd0e.com MX record to point to the agzsolt.com on-prem server

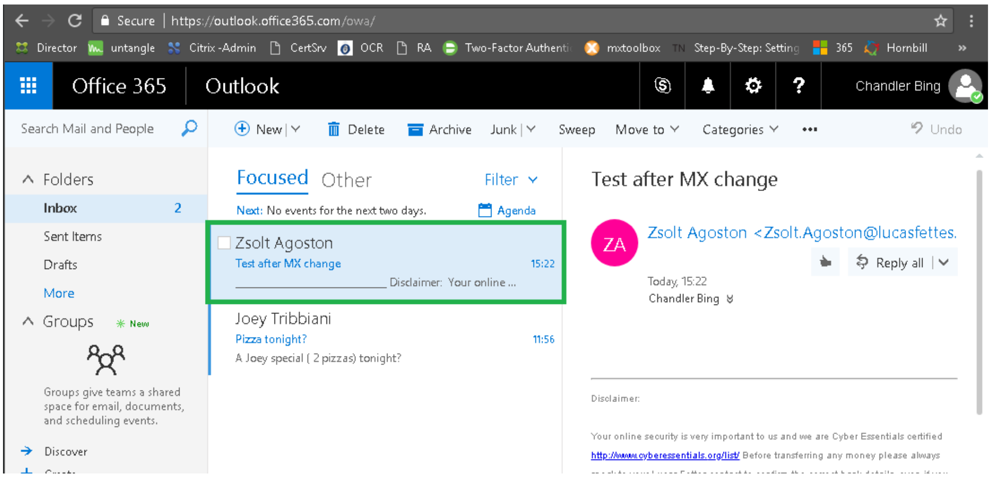


```
C:\Users\za>nslookup -q=mx jd0e.com 8.8.8.8
Server:  google-public-dns-a.google.com
Address:  8.8.8.8

Non-authoritative answer:
jd0e.com        MX preference = 10, mail exchanger = mail.agzsolt.com

C:\Users\za>_
```

Now test the mailflow to verify the emails are still arriving to the @jd0e.com mailboxes: we send an email from a Gmail address to a jd0e mailbox. Note that the jd0e MX record has already been directed to the destination on-prem server (mail.agzsolt.com). Also the SPF record is updated accordingly to prevent the sent emails to be put in the recipient's junk folder.

Spf for jd0e:

```
v=spf1 include:mail.agzsolt.com include:spf.protection.outlook.com -all
```



https://outlook.office365.com/owa/

Focused | Other

Zsolt Agoston
Test after MX change 15:22
Disclaimer: Your online ...

Joey Tribbiani
Pizza tonight? 11:56
A Joey special (2 pizzas) tonight?

Test after MX change

Zsolt Agoston <Zsolt.Agoston@lucasfettes.

Today, 15:22
Chandler Bing

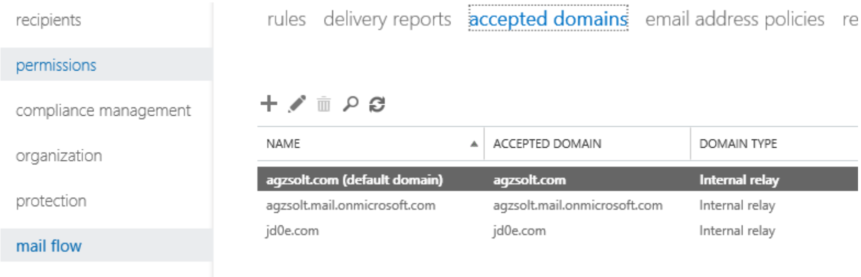
Disclaimer:

Your online security is very important to us and we are Cyber Essentials certified http://www.cyberessentials.org/list/ Before transferring any money please always

The email has arrived without an issue!

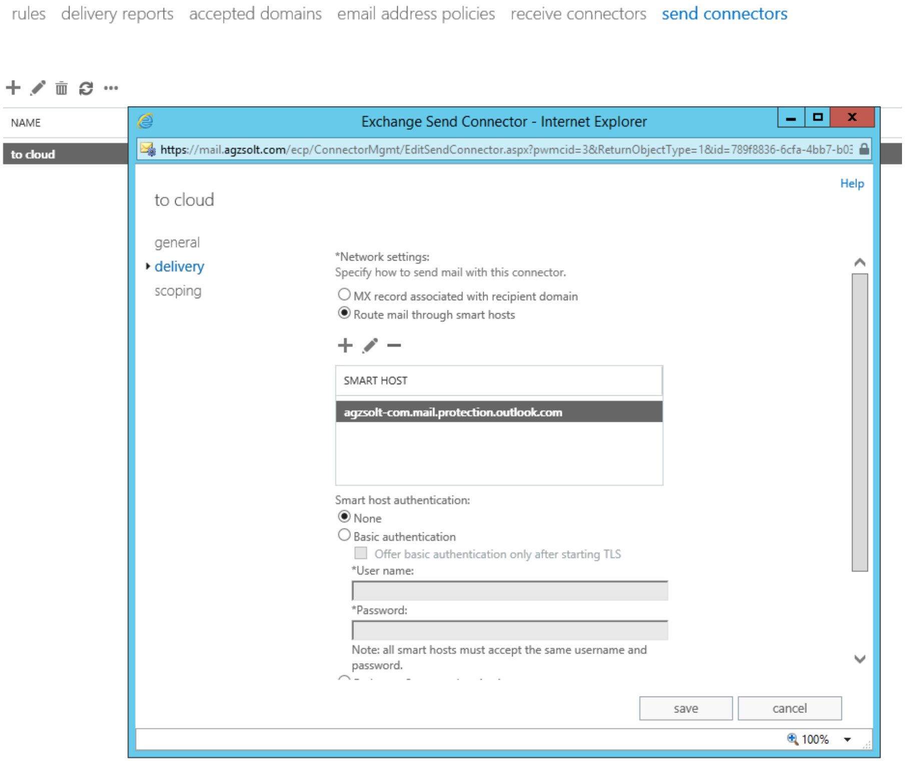
Prepare the destination on-prem server

1. Put jd0e.com in the accepted domain list



NAME	ACCEPTED DOMAIN	DOMAIN TYPE
agzsolt.com (default domain)	agzsolt.com	Internal relay
agzsolt.mail.onmicrosoft.com	agzsolt.mail.onmicrosoft.com	Internal relay
jd0e.com	jd0e.com	Internal relay

2. If not already done, create a send connector to the cloud



Exchange Send Connector - Internet Explorer

https://mail.agzsolt.com/ecp/ConnectorMgmt/EditSendConnector.aspx?pwmcid=3&ReturnObjectType=1&id=789f8836-6cfa-4bb7-b03

to cloud

*Network settings:
Specify how to send mail with this connector.
○ MX record associated with recipient domain
● Route mail through smart hosts

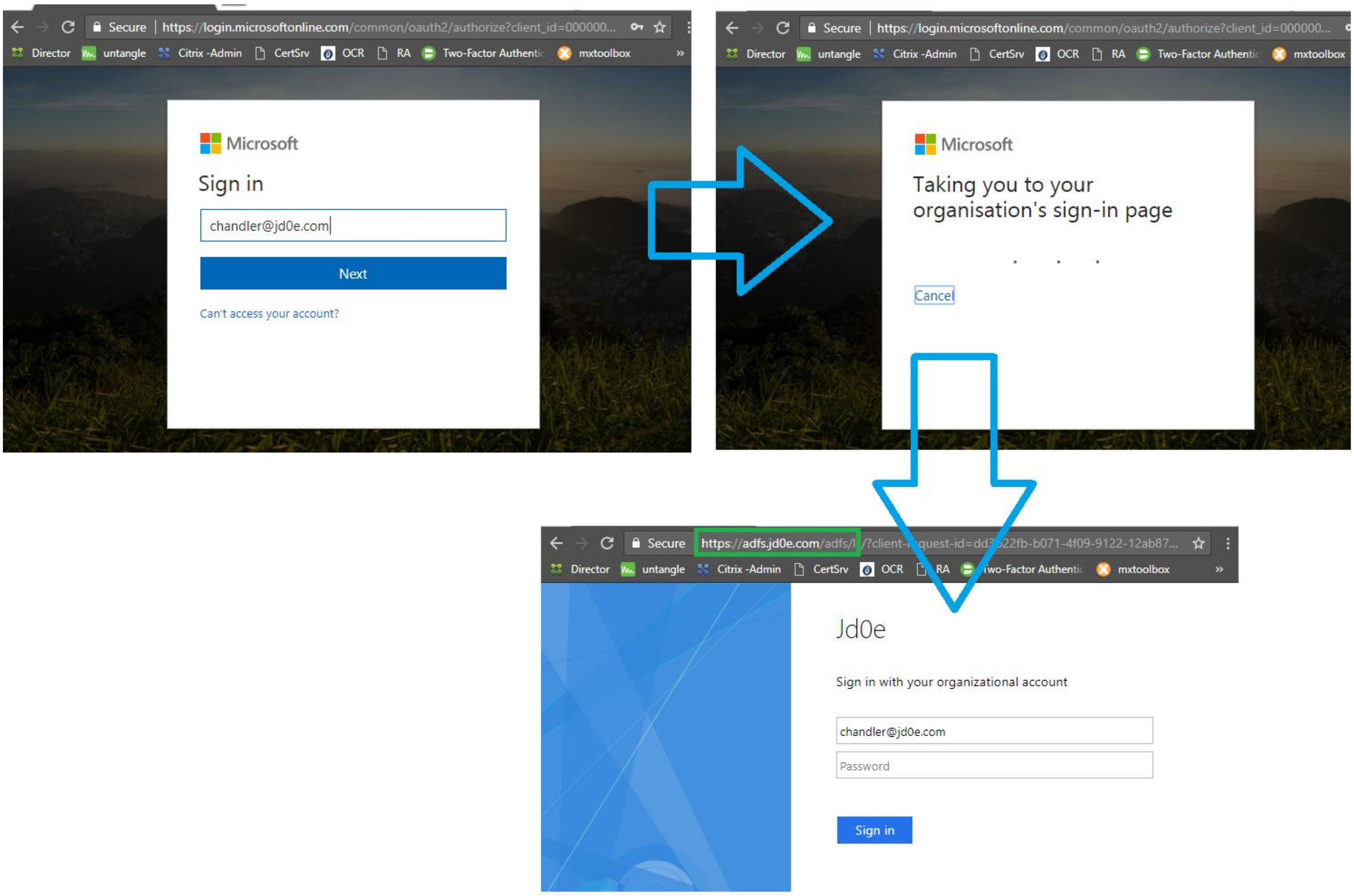
SMART HOST
agzsolt-com.mail.protection.outlook.com

Smart host authentication:
● None
○ Basic authentication
□ Offer basic authentication only after starting TLS
*User name:
*Password:
Note: all smart hosts must accept the same username and password.

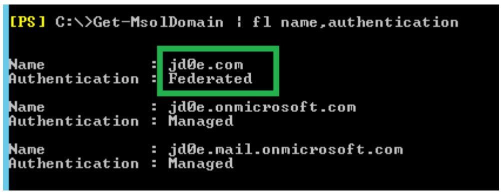
Disable Federation

First we need to disable ADFS before we can proceed and cut dirsync to make the mailboxes fully cloud-managed.

Let's see how the OWA portal behaves. As soon as we try to log in on https://out.look.office365.com it redirects us the the local ADFS proxy server for authentication


Secure
https://login.microsoftonline.com/common/oauth2/authorize?client_id=000000...
Director
untangle
Citrix -Admin
CertSrv
OCR
RA
Two-Factor Authentic
mxtoolbox
Microsoft
Sign in
chandler@jd0e.com
Next
Can't access your account?
Microsoft
Taking you to your organisation's sign-in page
Cancel
https://adfs.jd0e.com/adfs/l/?client-request-id=dd...22fb-b071-4f09-9122-12ab87...
Jd0e
Sign in with your organizational account
chandler@jd0e.com
Password
Sign in

We can see on dc.jd0e.com server that the domain is federated:



```
[PS] C:\>Get-MsolDomain | fl name,authentication

Name           : jd0e.com
Authentication : Federated

Name           : jd0e.onmicrosoft.com
Authentication : Managed

Name           : jd0e.mail.onmicrosoft.com
Authentication : Managed
```

Now we **make the domain standalone**. First we connect to the adfs server

```
Set-MsolADFSContext -Computer adfs.jd0e.com
```

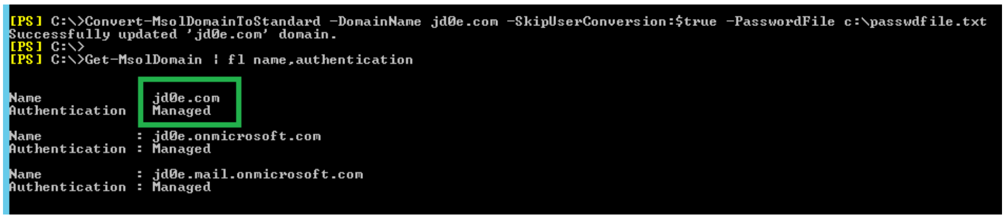
And set the domain to standard:

```
Convert-MsolDomainToStandard -DomainName jd0e.com -SkipUserConversion:$true -PasswordFile c:\passwdfile.txt
```

And set the authentication method as well:

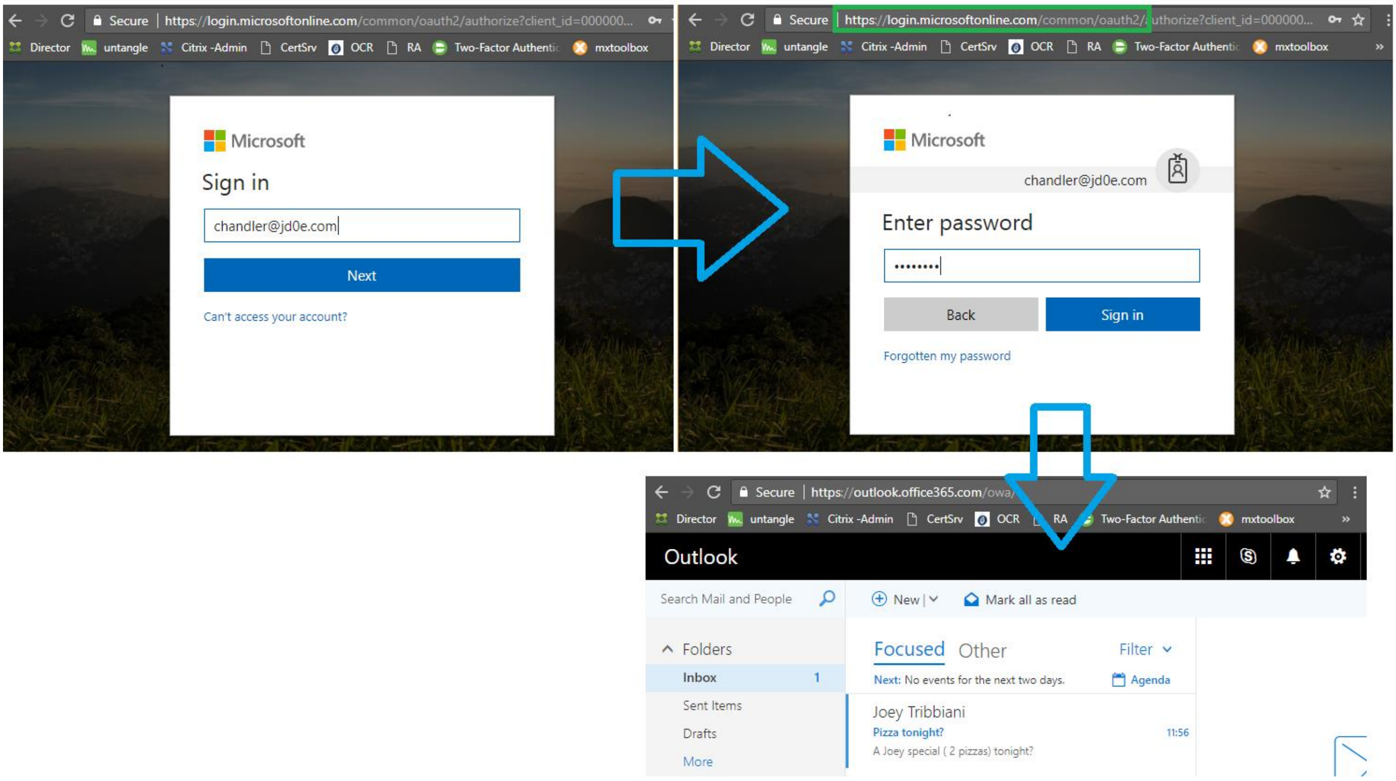
```
Set-MsolDomainAuthentication -Authentication managed -DomainName jd0e.com
```

At this point the domain becomes cloud-managed again, that we will confirm



```
[PS] C:\>Convert-MsolDomainToStandard -DomainName jd0e.com -SkipUserConversion:$true -PasswordFile c:\passwdfile.txt
Successfully updated 'jd0e.com' domain.
[PS] C:\>
[PS] C:\>Get-MsolDomain | fl name,authentication

Name           : jd0e.com
Authentication : Managed

Name           : jd0e.onmicrosoft.com
Authentication : Managed

Name           : jd0e.mail.onmicrosoft.com
Authentication : Managed
```

To see if the authentication works we check the login interface again:

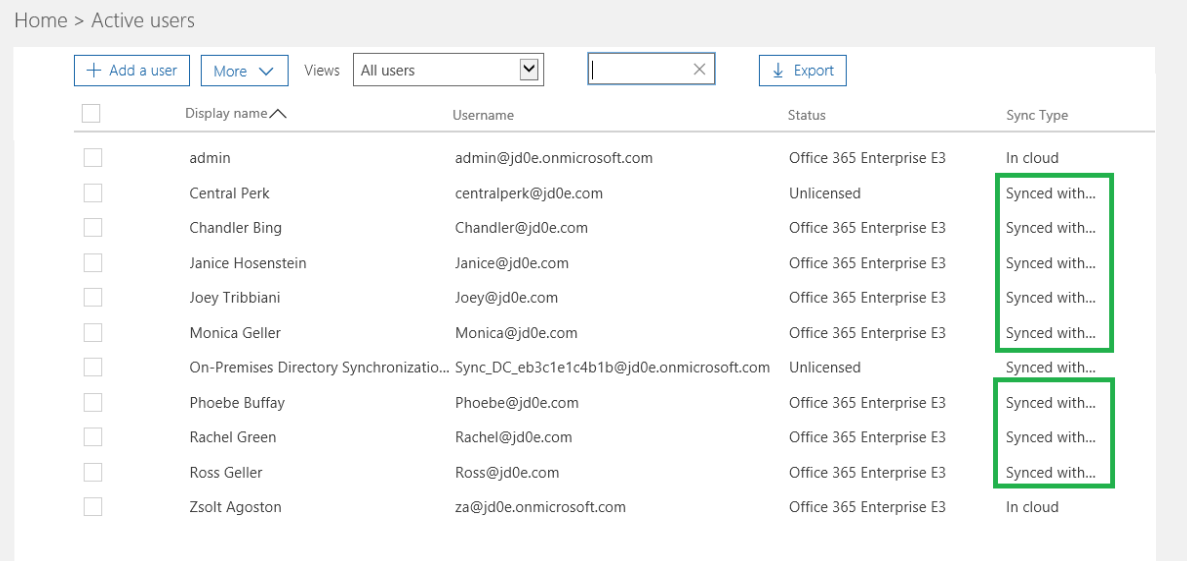

Secure | https://login.microsoftonline.com/common/oauth2/authorize?client_id=000000...
Director untangle Citrix -Admin CertSrv OCR RA Two-Factor Authentic mxtoolbox
Microsoft
Sign in
chandler@jd0e.com
Next
Can't access your account?
Secure | https://login.microsoftonline.com/common/oauth2/authorize?client_id=000000...
Microsoft
chandler@jd0e.com
Enter password
••••••••
Back
Sign in
Forgotten my password
Secure | https://outlook.office365.com/owa/
Outlook
Search Mail and People
New | Mark all as read
Folders
Inbox 1
Sent Items
Drafts
More
Focused Other Filter
Next: No events for the next two days. Agenda
Joey Tribbiani
Pizza tonight? 11:56
A Joey special (2 pizzas) tonight?

We are in, the authentication is happening in the cloud with the AD password that is synced with DirSync! Excellent!

Cut jd0e.com dirsync (can take up to 72 hours to complete), or…

In this step we convert accounts to purely cloud account while keeping their original password

Before:



	Display name	Username	Status	Sync Type
□	admin	admin@jd0e.onmicrosoft.com	Office 365 Enterprise E3	In cloud
□	Central Perk	centralperk@jd0e.com	Unlicensed	Synced with...
□	Chandler Bing	Chandler@jd0e.com	Office 365 Enterprise E3	Synced with...
□	Janice Hosenstein	Janice@jd0e.com	Office 365 Enterprise E3	Synced with...
□	Joey Tribbiani	Joey@jd0e.com	Office 365 Enterprise E3	Synced with...
□	Monica Geller	Monica@jd0e.com	Office 365 Enterprise E3	Synced with...
□	On-Premises Directory Synchronizatio...	Sync_DC_eb3c1e1c4b1b@jd0e.onmicrosoft.com	Unlicensed	Synced with...
□	Phoebe Buffay	Phoebe@jd0e.com	Office 365 Enterprise E3	Synced with...
□	Rachel Green	Rachel@jd0e.com	Office 365 Enterprise E3	Synced with...
□	Ross Geller	Ross@jd0e.com	Office 365 Enterprise E3	Synced with...
□	Zsolt Agoston	za@jd0e.onmicrosoft.com	Office 365 Enterprise E3	In cloud

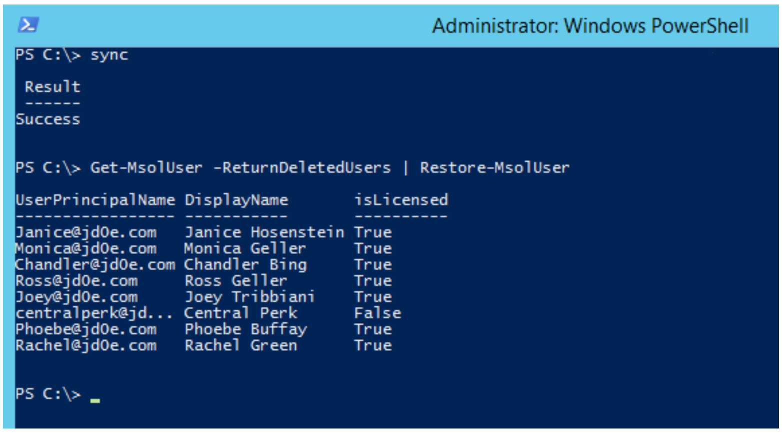
```
Set-MsolDirSyncEnabled -EnableDirSync:$false
```

Check if the process has run:

```
(Get-MSOLCompanyInformation).DirectorySynchronizationEnabled
```

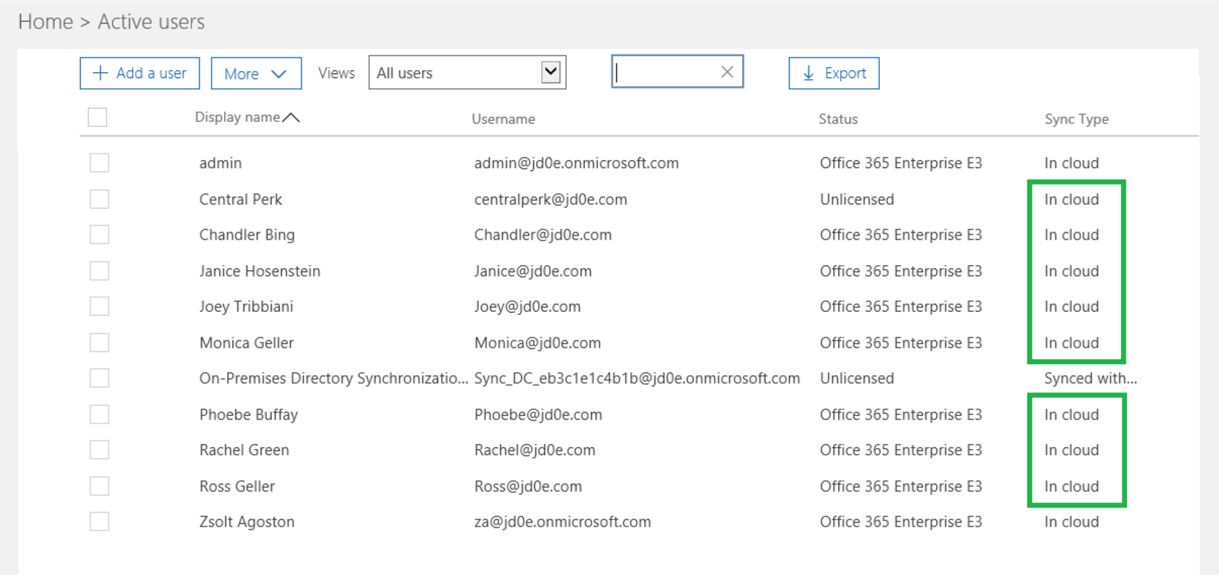
Note, if the process takes very long there's another way: **simply move the user accounts to an OU that is not synced to the cloud, and wait for or force a sync cycle.** That will soft delete the cloud accounts, after which they can be restored using the following command (the cloud system will restore them as cloud accounts, preserving the original passwords, permission settings as well):

```
Get-MsolUser -ReturnDeletedUsers | Restore-MsolUser
```



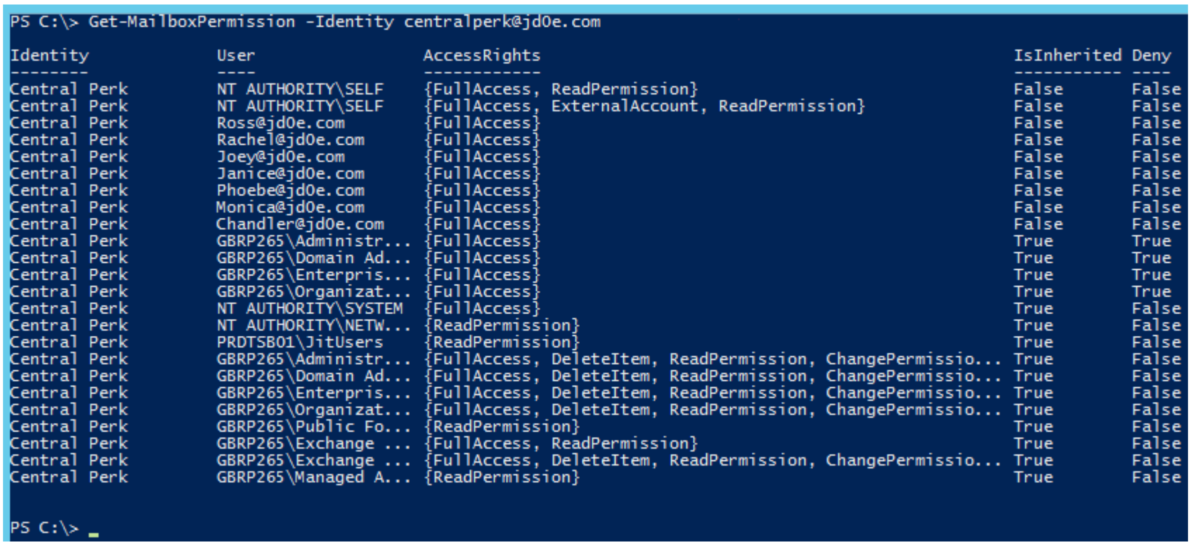
```
PS C:\> sync

 Result
 ------
Success

PS C:\> Get-MsolUser -ReturnDeletedUsers | Restore-MsolUser

UserPrincipalName DisplayName      isLicensed
----------------- -----------      ----------
Janice@jd0e.com   Janice Hosenstein True
Monica@jd0e.com   Monica Geller     True
Chandler@jd0e.com Chandler Bing     True
Ross@jd0e.com     Ross Geller       True
Joey@jd0e.com     Joey Tribbiani    True
centralperk@jd... Central Perk      False
Phoebe@jd0e.com   Phoebe Buffay     True
Rachel@jd0e.com   Rachel Green      True

PS C:\> _
```

After which:



Display name	Username	Status	Sync Type
admin	admin@jd0e.onmicrosoft.com	Office 365 Enterprise E3	In cloud
Central Perk	centralperk@jd0e.com	Unlicensed	In cloud
Chandler Bing	Chandler@jd0e.com	Office 365 Enterprise E3	In cloud
Janice Hosenstein	Janice@jd0e.com	Office 365 Enterprise E3	In cloud
Joey Tribbiani	Joey@jd0e.com	Office 365 Enterprise E3	In cloud
Monica Geller	Monica@jd0e.com	Office 365 Enterprise E3	In cloud
On-Premises Directory Synchronizatio...	Sync_DC_eb3c1e1c4b1b@jd0e.onmicrosoft.com	Unlicensed	Synced with...
Phoebe Buffay	Phoebe@jd0e.com	Office 365 Enterprise E3	In cloud
Rachel Green	Rachel@jd0e.com	Office 365 Enterprise E3	In cloud
Ross Geller	Ross@jd0e.com	Office 365 Enterprise E3	In cloud
Zsolt Agoston	za@jd0e.onmicrosoft.com	Office 365 Enterprise E3	In cloud

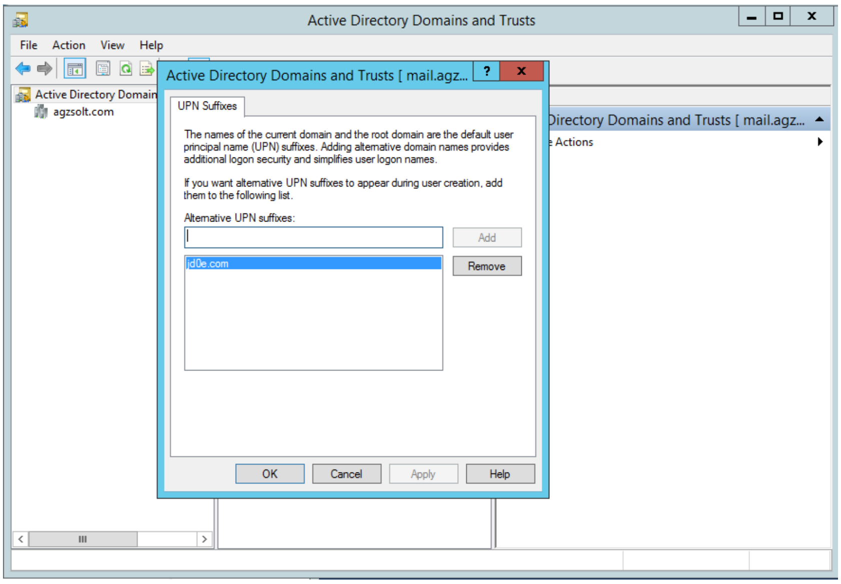
Now we check the permissions on the shared mailboxes to make sure they are not lost like after a license unassign-reassign scenario. As seen below the permission structure is preserved post-cloudization ☺



```
PS C:\> Get-MailboxPermission -Identity centralperk@jd0e.com

Identity             User                 AccessRights                                             IsInherited Deny
--------             ----                 ------------                                             ----------- ----
Central Perk         NT AUTHORITY\SELF    {FullAccess, ReadPermission}                             False       False
Central Perk         NT AUTHORITY\SELF    {FullAccess, ExternalAccount, ReadPermission}            False       False
Central Perk         Ross@jd0e.com        {FullAccess}                                             False       False
Central Perk         Rachel@jd0e.com      {FullAccess}                                             False       False
Central Perk         Joey@jd0e.com        {FullAccess}                                             False       False
Central Perk         Janice@jd0e.com      {FullAccess}                                             False       False
Central Perk         Phoebe@jd0e.com      {FullAccess}                                             False       False
Central Perk         Monica@jd0e.com      {FullAccess}                                             False       False
Central Perk         Chandler@jd0e.com    {FullAccess}                                             False       False
Central Perk         GBRP265\Administr... {FullAccess}                                             True        True
Central Perk         GBRP265\Domain Ad... {FullAccess}                                             True        True
Central Perk         GBRP265\Enterpris... {FullAccess}                                             True        True
Central Perk         GBRP265\Organizat... {FullAccess}                                             True        True
Central Perk         NT AUTHORITY\SYSTEM  {FullAccess}                                             True        False
Central Perk         NT AUTHORITY\NETW... {ReadPermission}                                         True        False
Central Perk         PRDTSB01\JitUsers    {ReadPermission}                                         True        False
Central Perk         GBRP265\Administr... {FullAccess, DeleteItem, ReadPermission, ChangePermissio... True        False
Central Perk         GBRP265\Domain Ad... {FullAccess, DeleteItem, ReadPermission, ChangePermissio... True        False
Central Perk         GBRP265\Enterpris... {FullAccess, DeleteItem, ReadPermission, ChangePermissio... True        False
Central Perk         GBRP265\Organizat... {FullAccess, DeleteItem, ReadPermission, ChangePermissio... True        False
Central Perk         GBRP265\Public Fo... {ReadPermission}                                         True        False
Central Perk         GBRP265\Exchange ... {FullAccess, ReadPermission}                             True        False
Central Perk         GBRP265\Exchange ... {FullAccess, DeleteItem, ReadPermission, ChangePermissio... True        False
Central Perk         GBRP265\Managed A... {ReadPermission}                                         True        False

PS C:\> _
```

Create jd0e.com users in the agzsolt.com local AD in a non-synced OU

First, we add the jd0e.com domain to the Active Directory Domains and Trusts temporarily to make the transition simpler for the users. This way they will be able to log in using the underlying kerberos ticketing system – meaning no password prompts (at least while the mailboxes are sitting on the on-prem server) ☺


Active Directory Domains and Trusts
File
Action
View
Help
Active Directory Domain
agzsolt.com
Active Directory Domains and Trusts [mail.agz...
Directory Domains and Trusts [mail.agz...
Actions
UPN Suffixes
Add
Remove
OK
Cancel
Apply
Help

The names of the current domain and the root domain are the default user principal name (UPN) suffixes. Adding alternative domain names provides additional logon security and simplifies user logon names.

If you want alternative UPN suffixes to appear during user creation, add them to the following list.

Alternative UPN suffixes:

jd0e.com

We run the following script to create the users, which will be created from users.csv

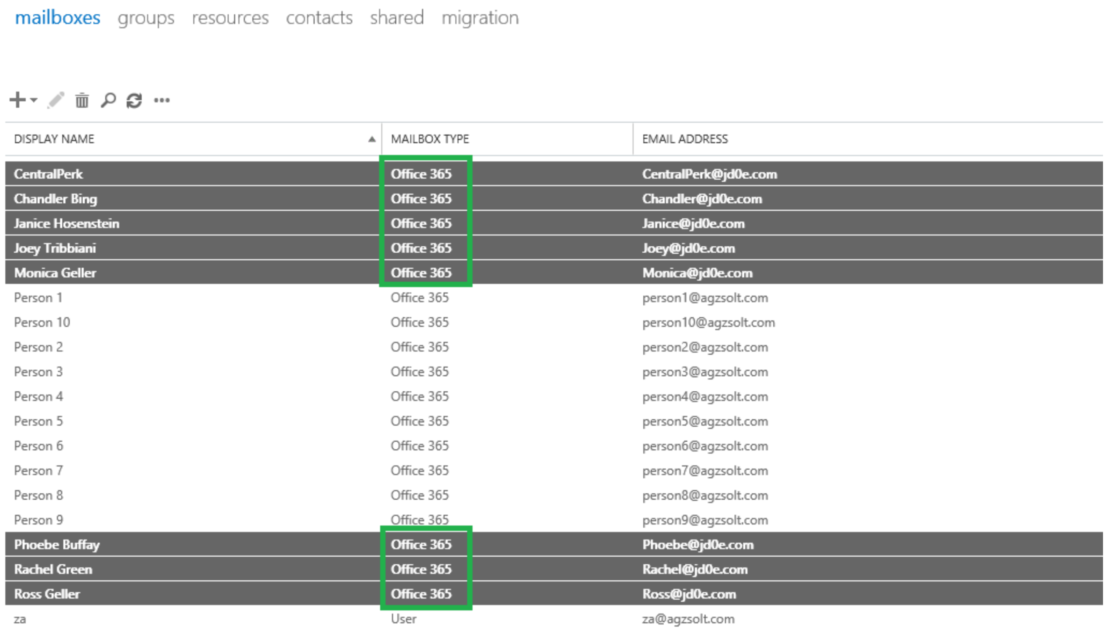
Users.csv

FirstName	LastName
Ross	Geller
Joey	Tribbiani
Monica	Geller
Rachel	Green
Chandler	Bing
Phoebe	Buffay
Janice	Hosenstein
CentralPerk	

Script:

```
New-ADOrganizationalUnit -Name "jd0e" -Path "OU=My Business,DC=agzsolt,DC=com" -Verbose

import-csv users.csv | foreach {
$fn=$_.FirstName
$ln=$_.LastName
New-ADUser -Name "$fn $ln" -DisplayName "$fn $ln" -GivenName "$fn" -Surname "$ln" -UserPrincipalName
$fn@jd0e.com -Path "OU=jd0e,OU=My Business,DC=agzsolt,DC=com" -Enabled:$true -EmailAddress
"$fn@jd0e.com" -AccountPassword(ConvertTo-SecureString "Password12345!" -AsPlainText -Force)
Enable-RemoteMailbox -Identity $fn@jd0e.com -RemoteRoutingAddress $fn@jd0e.onmicrosoft.com
Set-RemoteMailbox -Identity $fn@jd0e.com -EmailAddressPolicyEnabled:$false
}
```

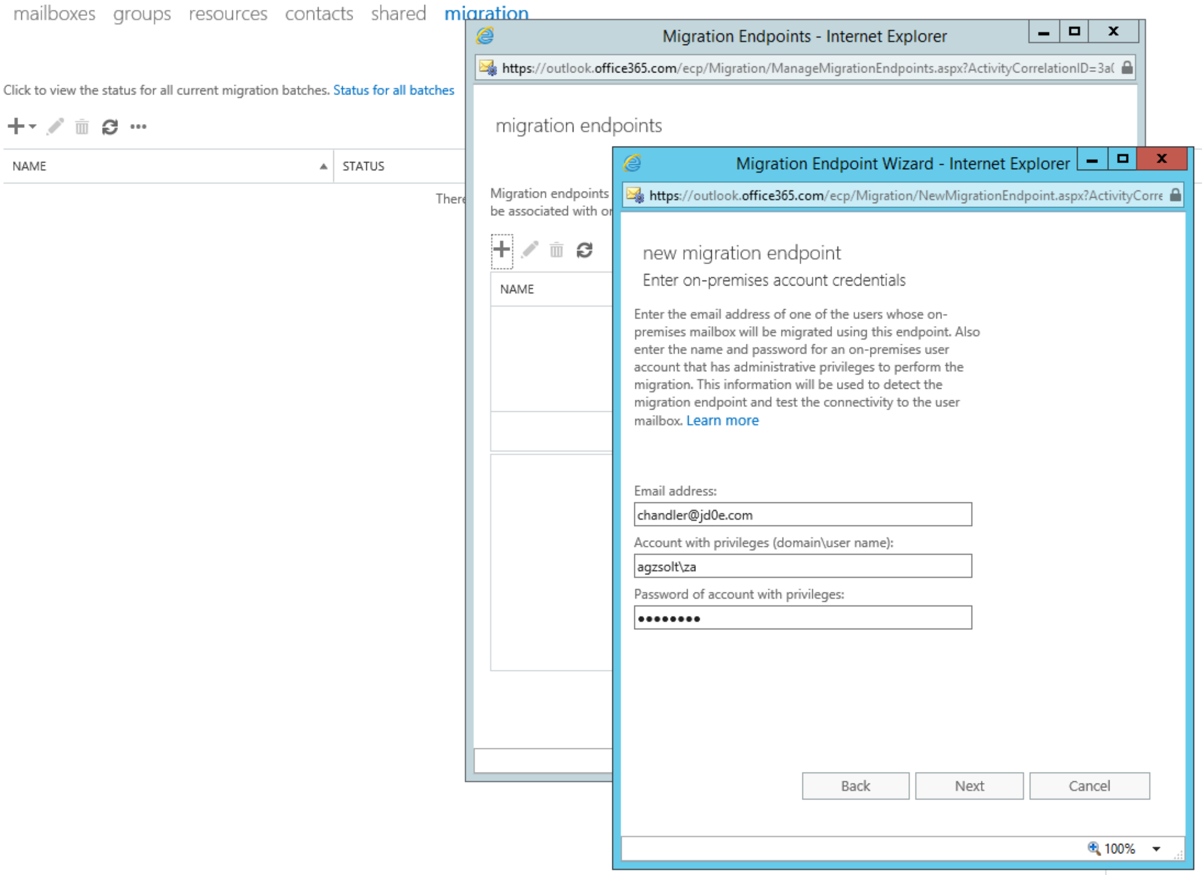
After the commands being run we check the results on the agzsolt.com server:



DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
CentralPerk	Office 365	CentralPerk@jd0e.com
Chandler Bing	Office 365	Chandler@jd0e.com
Janice Hosenstein	Office 365	Janice@jd0e.com
Joey Tribbiani	Office 365	Joey@jd0e.com
Monica Geller	Office 365	Monica@jd0e.com
Person 1	Office 365	person1@agzsolt.com
Person 10	Office 365	person10@agzsolt.com
Person 2	Office 365	person2@agzsolt.com
Person 3	Office 365	person3@agzsolt.com
Person 4	Office 365	person4@agzsolt.com
Person 5	Office 365	person5@agzsolt.com
Person 6	Office 365	person6@agzsolt.com
Person 7	Office 365	person7@agzsolt.com
Person 8	Office 365	person8@agzsolt.com
Person 9	Office 365	person9@agzsolt.com
Phoebe Buffay	Office 365	Phoebe@jd0e.com
Rachel Green	Office 365	Rachel@jd0e.com
Ross Geller	Office 365	Ross@jd0e.com
za	User	za@agzsolt.com

Configure the cross-forest hybrid environment

To make the servers able to move jd0e.com mailboxes to the agzsolt.com server we need to create a migration endpoint in the jd0e.com **cloud** server. It is done in **recipients/migration/migration endpoints**, as the new endpoint’s type we use is **“exchange remote"**



Click to view the status for all current migration batches. Status for all batches

https://outlook.office365.com/ecp/Migration/ManageMigrationEndpoints.aspx?ActivityCorrelationID=3a(

https://outlook.office365.com/ecp/Migration/NewMigrationEndpoint.aspx?ActivityCorre

new migration endpoint

Enter on-premises account credentials

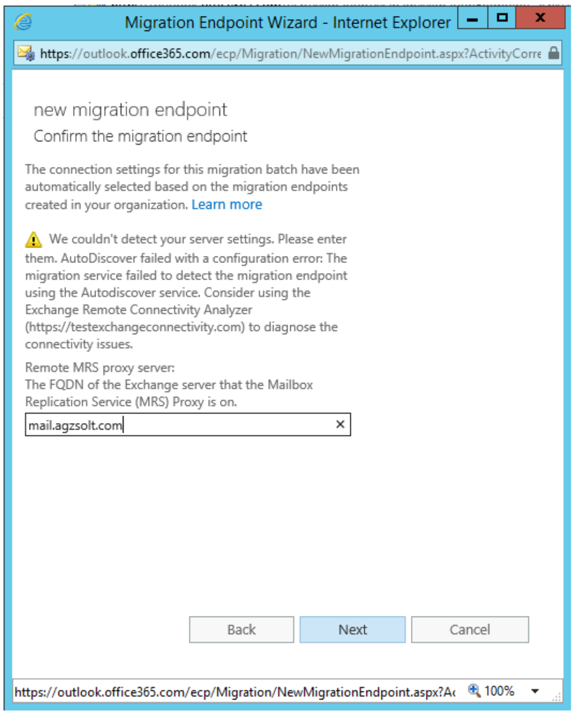
Enter the email address of one of the users whose on-premises mailbox will be migrated using this endpoint. Also enter the name and password for an on-premises user account that has administrative privileges to perform the migration. This information will be used to detect the migration endpoint and test the connectivity to the user mailbox. Learn more

Email address:
chandler@jd0e.com

Account with privileges (domain\user name):
agzsolt\za

Password of account with privileges:
••••••••

It will fail because the server tries to determine the destination FQDN using autodiscover which points to the wrong location of course. We put the right server manually:


Migration Endpoint Wizard - Internet Explorer
https://outlook.office365.com/ecp/Migration/NewMigrationEndpoint.aspx?ActivityCorre

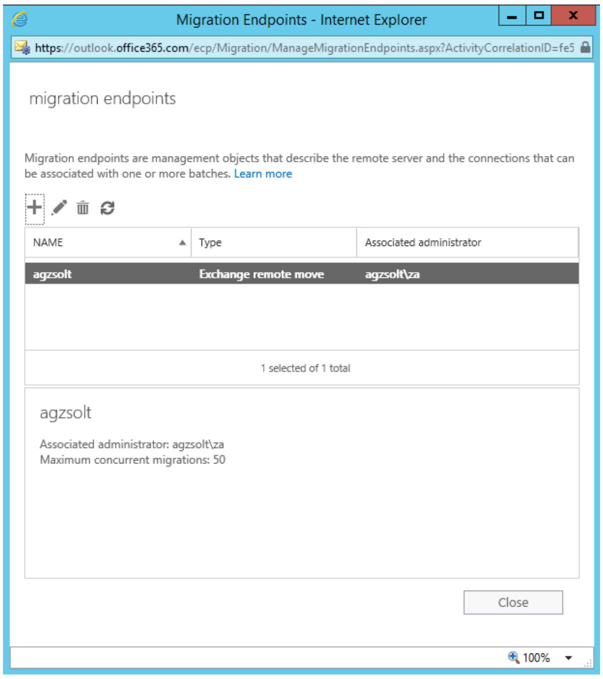
new migration endpoint
Confirm the migration endpoint

The connection settings for this migration batch have been automatically selected based on the migration endpoints created in your organization. Learn more

⚠ We couldn't detect your server settings. Please enter them. AutoDiscover failed with a configuration error: The migration service failed to detect the migration endpoint using the Autodiscover service. Consider using the Exchange Remote Connectivity Analyzer (https://testexchangeconnectivity.com) to diagnose the connectivity issues.

Remote MRS proxy server:
The FQDN of the Exchange server that the Mailbox Replication Service (MRS) Proxy is on.
mail.agzsolt.com

Back
Next
Cancel
https://outlook.office365.com/ecp/Migration/NewMigrationEndpoint.aspx?A
100%


Migration Endpoints - Internet Explorer
https://outlook.office365.com/ecp/Migration/ManageMigrationEndpoints.aspx?ActivityCorrelationID=fe5

migration endpoints

Migration endpoints are management objects that describe the remote server and the connections that can be associated with one or more batches. Learn more

NAME	Type	Associated administrator
agzsolt	Exchange remote move	agzsolt\za

1 selected of 1 total

agzsolt

Associated administrator: agzsolt\za
Maximum concurrent migrations: 50

In our example we will call the connector “**agzsolt**”

Sync the MSOL attributes into the agzsolt.com local AD accounts

Here the most important thing is that the **ExchangeGUID** attribute of the accounts on the destination on-prem server must match the **ExchangeGUID, WindowsEmailAddress and PrimarySMTPAddress** attributes of the actual cloud mailboxes. We can sync it doing the following:

1. On the cloud server we run the following command that will create a file called **mailboxes.csv**, with all the mailboxes and with the attributes we need:

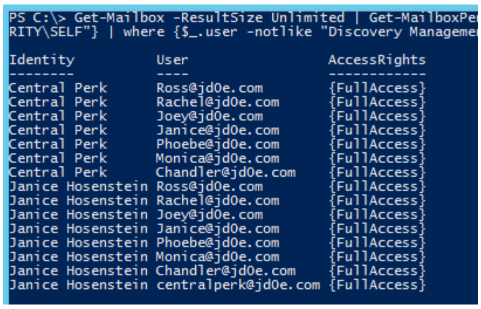
```
Get-Mailbox -ResultSize Unlimited | select userprincipalname,windowsemailaddress,alias,exchangeGUID |
Export-Csv mailboxes.csv
```

   Now we import the important attributes into the on-prem server for compliance:

```
import-csv mailboxes.csv | foreach {
$name=$_.userprincipalname
$winname=$_.windowsemailaddress
$alias=$_.alias
$guid=$_.exchangeGUID
Set-RemoteMailbox -Identity $name -ExchangeGuid $guid -WindowsEmailAddress $winname -EmailAddresses
@{add="$name"}
Set-RemoteMailbox -Identity $name -PrimarySmtpAddress $name
write-host "$name has given GUID: $guid"
}
```

2. To save the mailbox permission structure, we create a backup file that stores that information, called **perm.csv**

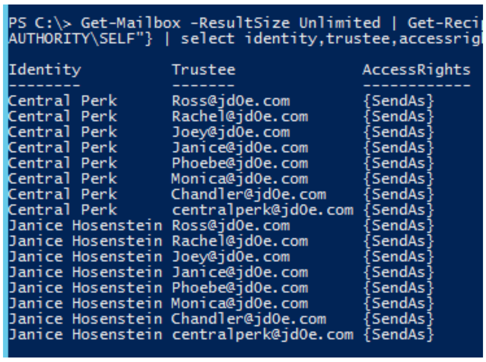
```
Get-Mailbox -ResultSize Unlimited | Get-MailboxPermission | where {$_.isinherited -like "FALSE"} | where
{$_.user -notlike "NT AUTHORITY\SELF"} | where {$_.user -notlike "Discovery Management"} | select
identity,user,accessrights | Export-Csv perm.csv
```



```
PS C:\> Get-Mailbox -ResultSize Unlimited | Get-MailboxPe
RITY\SELF"} | where {$_.user -notlike "Discovery Manageme

Identity          User                 AccessRights
--------          ----                 ------------
Central Perk      Ross@jd0e.com        {FullAccess}
Central Perk      Rachel@jd0e.com      {FullAccess}
Central Perk      Joey@jd0e.com        {FullAccess}
Central Perk      Janice@jd0e.com      {FullAccess}
Central Perk      Phoebe@jd0e.com      {FullAccess}
Central Perk      Monica@jd0e.com      {FullAccess}
Central Perk      Chandler@jd0e.com    {FullAccess}
Janice Hosenstein Ross@jd0e.com        {FullAccess}
Janice Hosenstein Rachel@jd0e.com      {FullAccess}
Janice Hosenstein Joey@jd0e.com        {FullAccess}
Janice Hosenstein Janice@jd0e.com      {FullAccess}
Janice Hosenstein Phoebe@jd0e.com      {FullAccess}
Janice Hosenstein Monica@jd0e.com      {FullAccess}
Janice Hosenstein Chandler@jd0e.com    {FullAccess}
Janice Hosenstein centralperk@jd0e.com {FullAccess}
```

We do the same with send-as permissions (**sendasperm.csv**):

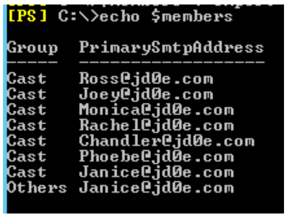
```
Get-Mailbox -ResultSize Unlimited | Get-RecipientPermission | where {$_.isinherited -like "FALSE"} | where
{$_.trustee -notlike "NT AUTHORITY\SELF"} | select identity,trustee,accessrights | Export-Csv sendasperm.csv
```



```
PS C:\> Get-Mailbox -ResultSize Unlimited | Get-Reci
AUTHORITY\SELF"} | select identity,trustee,accessrig

Identity         Trustee                AccessRights
--------         -------                ------------
Central Perk     Ross@jd0e.com          {SendAs}
Central Perk     Rachel@jd0e.com        {SendAs}
Central Perk     Joey@jd0e.com          {SendAs}
Central Perk     Janice@jd0e.com        {SendAs}
Central Perk     Phoebe@jd0e.com        {SendAs}
Central Perk     Monica@jd0e.com        {SendAs}
Central Perk     Chandler@jd0e.com      {SendAs}
Central Perk     centralperk@jd0e.com   {SendAs}
Janice Hosenstein Ross@jd0e.com         {SendAs}
Janice Hosenstein Rachel@jd0e.com       {SendAs}
Janice Hosenstein Joey@jd0e.com         {SendAs}
Janice Hosenstein Janice@jd0e.com       {SendAs}
Janice Hosenstein Phoebe@jd0e.com       {SendAs}
Janice Hosenstein Monica@jd0e.com       {SendAs}
Janice Hosenstein Chandler@jd0e.com     {SendAs}
Janice Hosenstein centralperk@jd0e.com  {SendAs}
```

3. Next, we save the distribution groups and members as well in a file called **distro.csv**

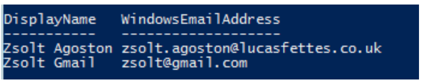
```
$distro = Get-DistributionGroup -ResultSize unlimited
$distro | select samaccountname,displayname,windowsemailaddress | Export-Csv distro-list.csv
$members = foreach ($m in $distro) { Get-DistributionGroupMember -Identity $m.Identity | Select
@{Name="Group";Expression={$m.name}},PrimarySMTPAddress}
$members | export-csv distro.csv
```



```
[PS] C:\>echo $members

Group  PrimarySmtpAddress
-----  ------------------
Cast   Ross@jd0e.com
Cast   Joey@jd0e.com
Cast   Monica@jd0e.com
Cast   Rachel@jd0e.com
Cast   Chandler@jd0e.com
Cast   Phoebe@jd0e.com
Cast   Janice@jd0e.com
Others Janice@jd0e.com
```

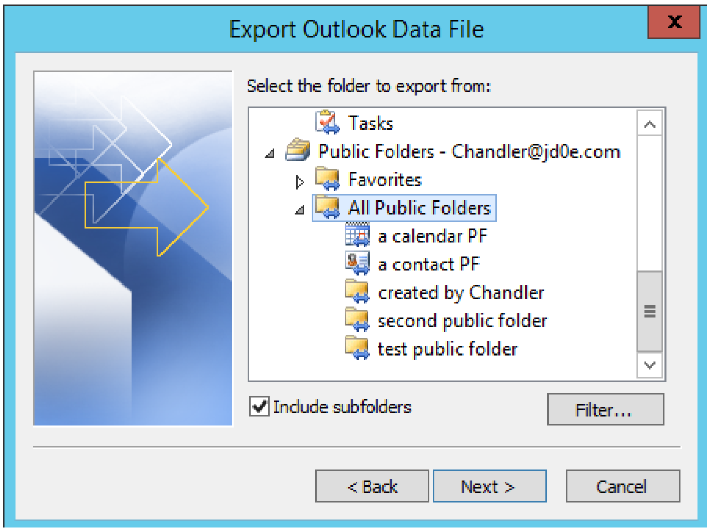
4. Let's export the contacts:

```
Get-Contact -ResultSize unlimited | select identity, name,displayname,firstname,lastname,windowsemailaddress | export-csv contacts.csv
```



```
DisplayName   WindowsEmailAddress
-----------   -------------------
Zsolt Agoston zsolt.agoston@lucasfettes.co.uk
Zsolt Gmail   zsolt@gmail.com
```

5. As the public folder migration is a little cumbersome between O365 and on-prem, even with modern public folder mailboxes, we simply **export all the public folders** from an Outlook client into a PST file for future ingestion



Export Outlook Data File

Select the folder to export from:

- Tasks
- Public Folders - Chandler@jd0e.com
  - Favorites
  - All Public Folders
    - a calendar PF
    - a contact PF
    - created by Chandler
    - second public folder
    - test public folder

☑ Include subfolders

Migrate users to agzsolt.com on-prem

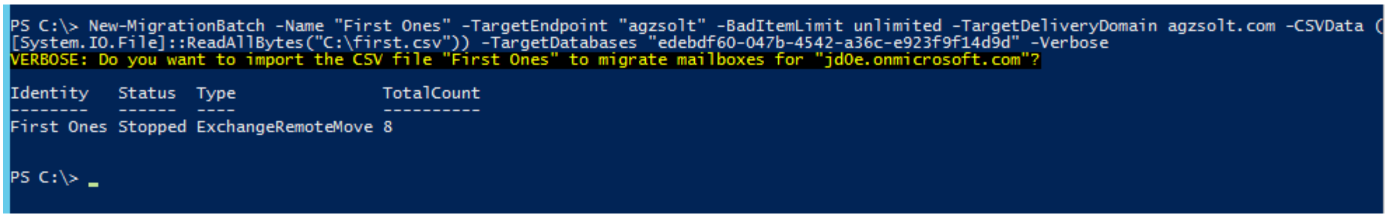
Now we create a migration batch that will synchronize and move the jd0e.com mailboxes to the on-prem endpoint. We create our first batch called “**First Ones**” from **first.csv**:

first.csv

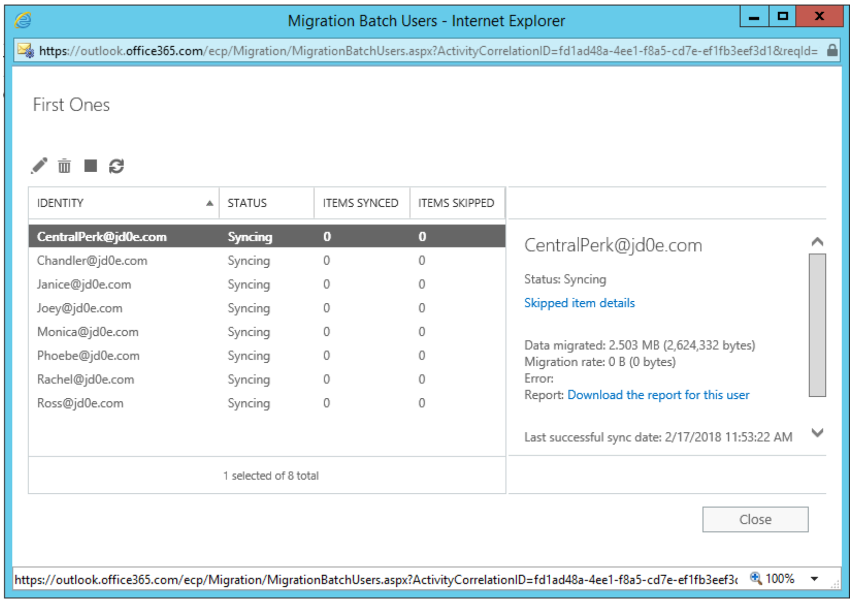
```
EmailAddress
Ross@jd0e.com
Joey@jd0e.com
Monica@jd0e.com
Rachel@jd0e.com
Chandler@jd0e.com
Phoebe@jd0e.com
Janice@jd0e.com
CentralPerk@jd0e.com
```

Script

```
New-MigrationBatch -Name "First Ones" -TargetEndpoint "agzsolt" -BadItemLimit unlimited -TargetDeliveryDomain agzsolt.com -CSVData
([System.IO.File]::ReadAllBytes("C:\first.csv")) -TargetDatabases "edebdf60-047b-4542-a36c-e923f9f14d9d" -Verbose
```



```
PS C:\> New-MigrationBatch -Name "First Ones" -TargetEndpoint "agzsolt" -BadItemLimit unlimited -TargetDeliveryDomain agzsolt.com -CSVData (
[System.IO.File]::ReadAllBytes("C:\first.csv")) -TargetDatabases "edebdf60-047b-4542-a36c-e923f9f14d9d" -Verbose
VERBOSE: Do you want to import the CSV file "First Ones" to migrate mailboxes for "jd0e.onmicrosoft.com"?

Identity   Status  Type              TotalCount
--------   ------  ----              ----------
First Ones Stopped ExchangeRemoteMove 8


PS C:\> _
```



https://outlook.office365.com/ecp/Migration/MigrationBatchUsers.aspx?ActivityCorrelationID=fd1ad48a-4ee1-f8a5-cd7e-ef1fb3ef3d1&reqId=

First Ones

IDENTITY	STATUS	ITEMS SYNCED	ITEMS SKIPPED
CentralPerk@jd0e.com	Syncing	0	0
Chandler@jd0e.com	Syncing	0	0
Janice@jd0e.com	Syncing	0	0
Joey@jd0e.com	Syncing	0	0
Monica@jd0e.com	Syncing	0	0
Phoebe@jd0e.com	Syncing	0	0
Rachel@jd0e.com	Syncing	0	0
Ross@jd0e.com	Syncing	0	0

1 selected of 8 total

CentralPerk@jd0e.com

Status: Syncing

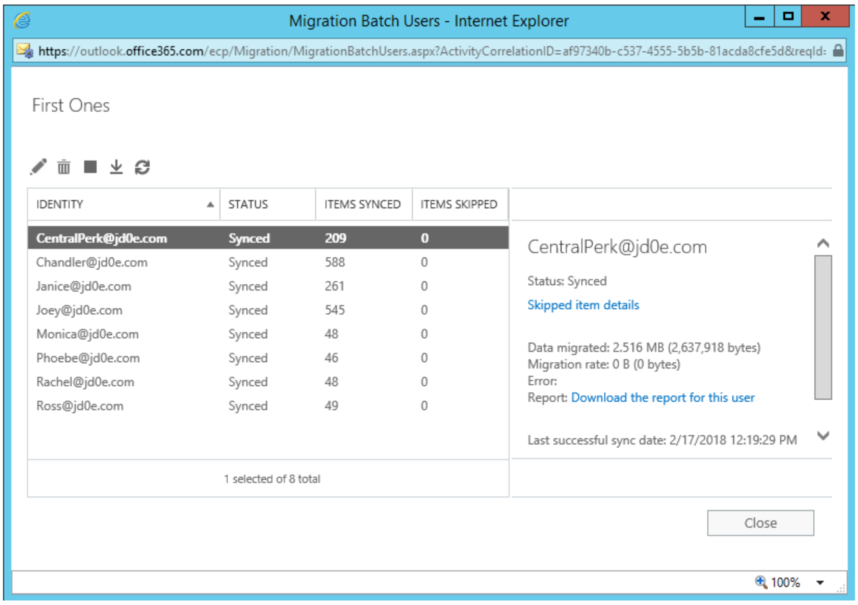
Skipped item details

Data migrated: 2.503 MB (2,624,332 bytes)
Migration rate: 0 B (0 bytes)
Error:
Report: Download the report for this user

Last successful sync date: 2/17/2018 11:53:22 AM

https://outlook.office365.com/ecp/Migration/MigrationBatchUsers.aspx?ActivityCorrelationID=fd1ad48a-4ee1-f8a5-cd7e-ef1fb3eef3(

When it’s done we are ready to finish the whole batch (or just specific mailboxes, it depends on our needs)


Migration Batch Users - Internet Explorer
https://outlook.office365.com/ecp/Migration/MigrationBatchUsers.aspx?ActivityCorrelationID=af97340b-c537-4555-5b5b-81acda8cfe5d&reqId:
Close
100%

First Ones

IDENTITY	STATUS	ITEMS SYNCED	ITEMS SKIPPED
CentralPerk@jd0e.com	Synced	209	0
Chandler@jd0e.com	Synced	588	0
Janice@jd0e.com	Synced	261	0
Joey@jd0e.com	Synced	545	0
Monica@jd0e.com	Synced	48	0
Phoebe@jd0e.com	Synced	46	0
Rachel@jd0e.com	Synced	48	0
Ross@jd0e.com	Synced	49	0

1 selected of 8 total

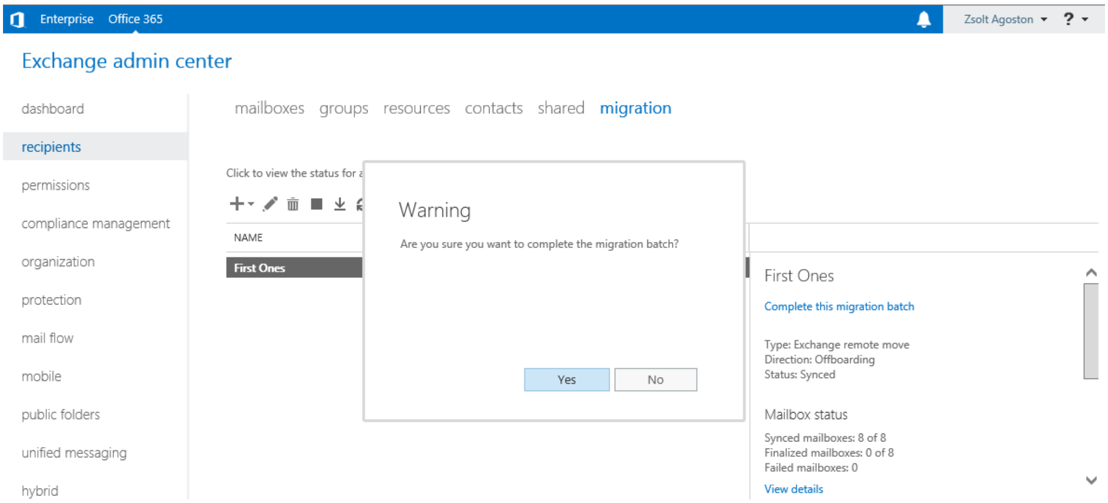
CentralPerk@jd0e.com

Status: Synced
Skipped item details

Data migrated: 2.516 MB (2,637,918 bytes)
Migration rate: 0 B (0 bytes)
Error:
Report: Download the report for this user

Last successful sync date: 2/17/2018 12:19:29 PM

We **complete the migration batch** and make sure the users can access their mailboxes and they are functional



Warning

Are you sure you want to complete the migration batch?

First Ones

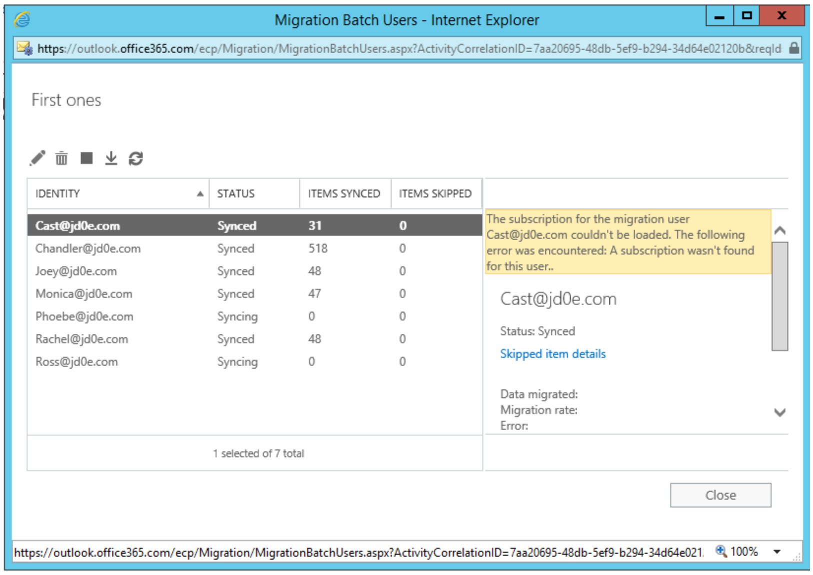
Complete this migration batch

Type: Exchange remote move
Direction: Offboarding
Status: Synced

Mailbox status

Synced mailboxes: 8 of 8
Finalized mailboxes: 0 of 8
Failed mailboxes: 0
View details

Just to mention: the shared mailboxes need a license assigned to them


Migration Batch Users - Internet Explorer
https://outlook.office365.com/ecp/Migration/MigrationBatchUsers.aspx?ActivityCorrelationID=7aa20695-48db-5ef9-b294-34d64e02120b&reqId
Close
https://outlook.office365.com/ecp/Migration/MigrationBatchUsers.aspx?ActivityCorrelationID=7aa20695-48db-5ef9-b294-34d64e021
100%

First ones

IDENTITY	STATUS	ITEMS SYNCED	ITEMS SKIPPED
Cast@jd0e.com	Synced	31	0
Chandler@jd0e.com	Synced	518	0
Joey@jd0e.com	Synced	48	0
Monica@jd0e.com	Synced	47	0
Phoebe@jd0e.com	Syncing	0	0
Rachel@jd0e.com	Synced	48	0
Ross@jd0e.com	Syncing	0	0

1 selected of 7 total

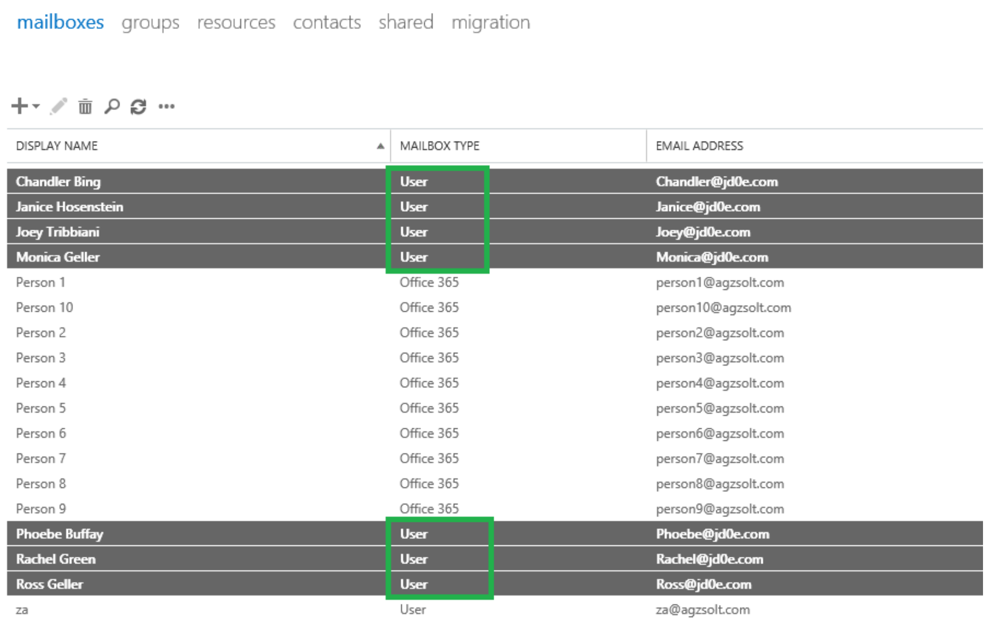
The subscription for the migration user Cast@jd0e.com couldn't be loaded. The following error was encountered: A subscription wasn't found for this user..

Cast@jd0e.com

Status: Synced
Skipped item details

Data migrated:
Migration rate:
Error:

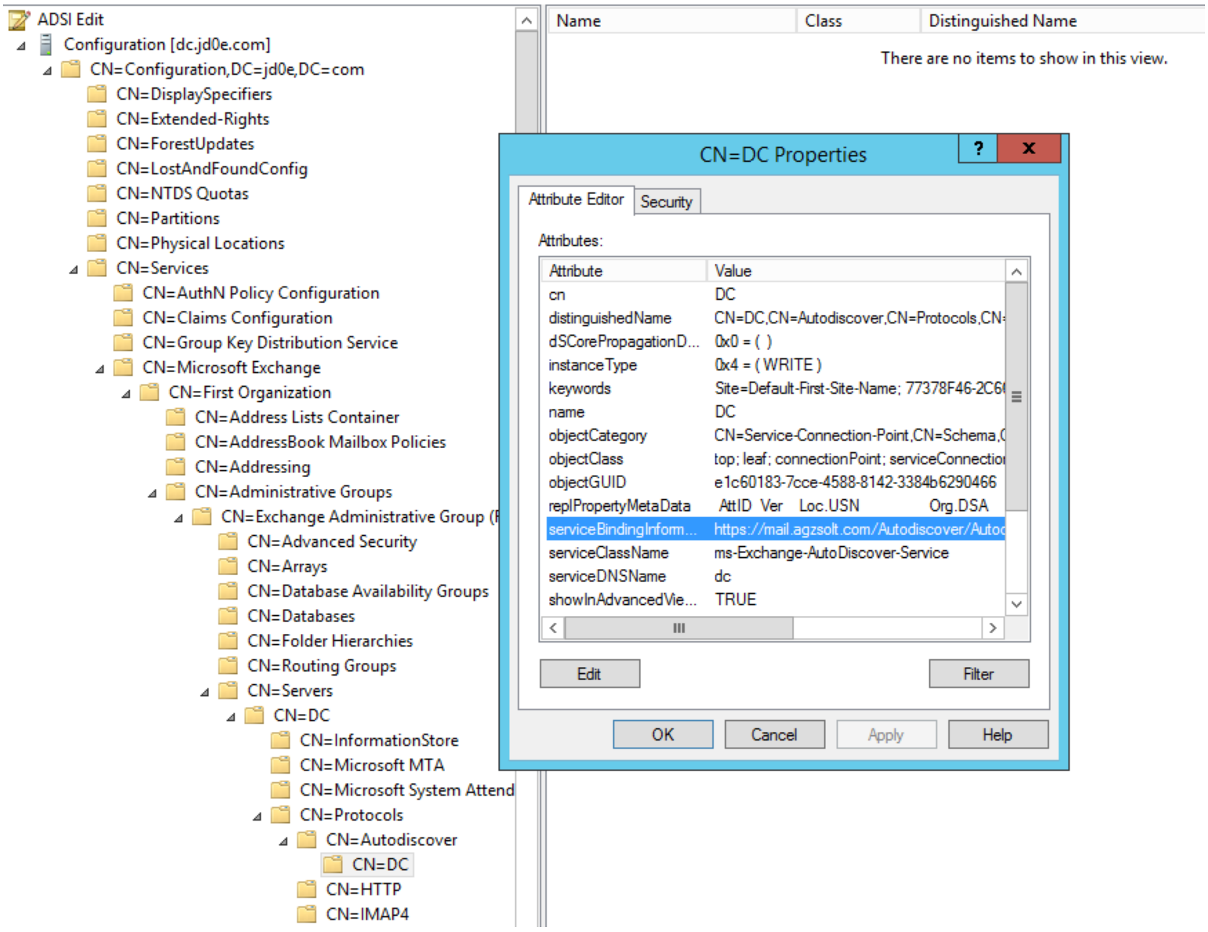
After the migration, we see that the on-prem server handles the mailboxes as local mailboxes:



DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
Chandler Bing	User	Chandler@jd0e.com
Janice Hosenstein	User	Janice@jd0e.com
Joey Tribbiani	User	Joey@jd0e.com
Monica Geller	User	Monica@jd0e.com
Person 1	Office 365	person1@agzsolt.com
Person 10	Office 365	person10@agzsolt.com
Person 2	Office 365	person2@agzsolt.com
Person 3	Office 365	person3@agzsolt.com
Person 4	Office 365	person4@agzsolt.com
Person 5	Office 365	person5@agzsolt.com
Person 6	Office 365	person6@agzsolt.com
Person 7	Office 365	person7@agzsolt.com
Person 8	Office 365	person8@agzsolt.com
Person 9	Office 365	person9@agzsolt.com
Phoebe Buffay	User	Phoebe@jd0e.com
Rachel Green	User	Rachel@jd0e.com
Ross Geller	User	Ross@jd0e.com
za	User	za@agzsolt.com

Now we change the local **SCP** record for **autodiscover** on the jd0e.com (source) **domain controller**, because this is the first place the server is looking for the autodiscover.xml data file which will not return the right values, we change that to point to the agzsolt.com (destination) autodiscover file:

```
https://mail.agzsolt.com/Autodiscover/Autodiscover.xml
```


ADSI Edit
Configuration [dc.jd0e.com]
CN=Configuration,DC=jd0e,DC=com
CN=DisplaySpecifiers
CN=Extended-Rights
CN=ForestUpdates
CN=LostAndFoundConfig
CN=NTDS Quotas
CN=Partitions
CN=Physical Locations
CN=Services
CN=AuthN Policy Configuration
CN=Claims Configuration
CN=Group Key Distribution Service
CN=Microsoft Exchange
CN=First Organization
CN=Address Lists Container
CN=AddressBook Mailbox Policies
CN=Addressing
CN=Administrative Groups
CN=Exchange Administrative Group (F
CN=Advanced Security
CN=Arrays
CN=Database Availability Groups
CN=Databases
CN=Folder Hierarchies
CN=Routing Groups
CN=Servers
CN=DC
CN=InformationStore
CN=Microsoft MTA
CN=Microsoft System Attend
CN=Protocols
CN=Autodiscover
CN=DC
CN=HTTP
CN=IMAP4

Name	Class	Distinguished Name

There are no items to show in this view.

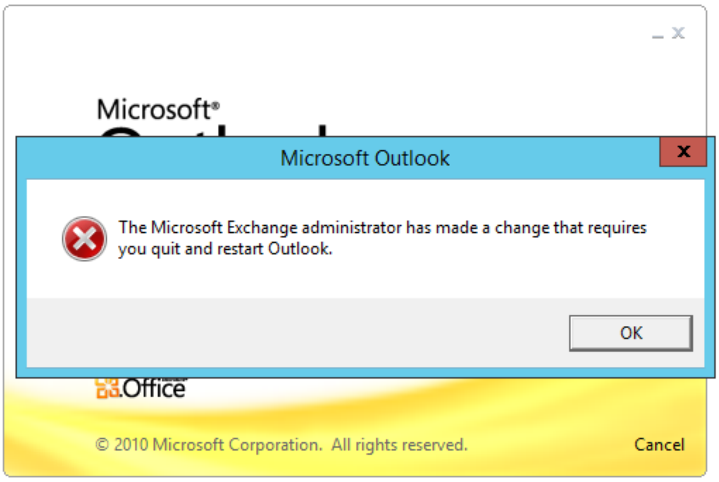
CN=DC Properties

Attributes:

Attribute	Value
cn	DC
distinguishedName	CN=DC,CN=Autodiscover,CN=Protocols,CN=
dSCorePropagationD...	0x0 = ( )
instanceType	0x4 = (WRITE)
keywords	Site=Default-First-Site-Name; 77378F46-2C6
name	DC
objectCategory	CN=Service-Connection-Point,CN=Schema,C
objectClass	top; leaf; connectionPoint; serviceConnectio
objectGUID	e1c60183-7cce-4588-8142-3384b6290466
replPropertyMetaData	AttID Ver Loc.USN Org.DSA
serviceBindingInform...	https://mail.agzsolt.com/Autodiscover/Autod
serviceClassName	ms-Exchange-AutoDiscover-Service
serviceDNSName	dc
showInAdvancedVie...	TRUE

Note that the windows Outlook client is relying on the autodiscover record to locate public folders and it checks the SCP record first when it's opened. If we changed it before moving the publicfolder mailbox to the new server, it would give us an error message on the client side!

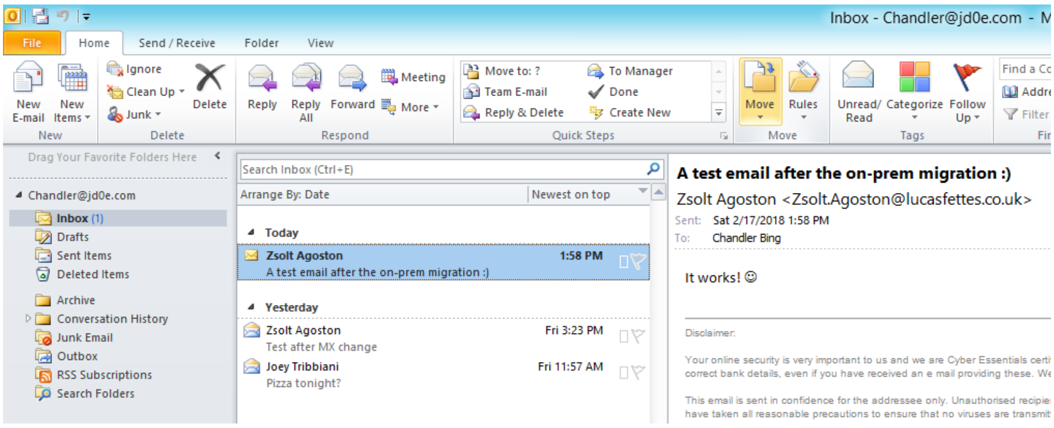
Once the users try to log in, Outlook notifies them of the changes in the background - the server name will be updated in the profile - and the users will be asked to close and open Outlook again, just like after a cloud migration:



The Microsoft Exchange administrator has made a change that requires you quit and restart Outlook.

Now another good news, from this point if a user needed to re-create his/her Outlook profile on a domain-joined client (even on the source-side in the jd0e.com domain), they won't be prompted for their password, as long as the passwords match on the original jd0e.com and the new agzsolt.com forest the Kerberos ticketing will work flawlessly

After logging in, we test the mail flow:



Today

Zsolt Agoston 1:58 PM
A test email after the on-prem migration :)

Yesterday

Zsolt Agoston Fri 3:23 PM
Test after MX change

Joey Tribbiani Fri 11:57 AM
Pizza tonight?

A test email after the on-prem migration :)

Zsolt Agoston <Zsolt.Agoston@lucasfettes.co.uk>

Sent: Sat 2/17/2018 1:58 PM

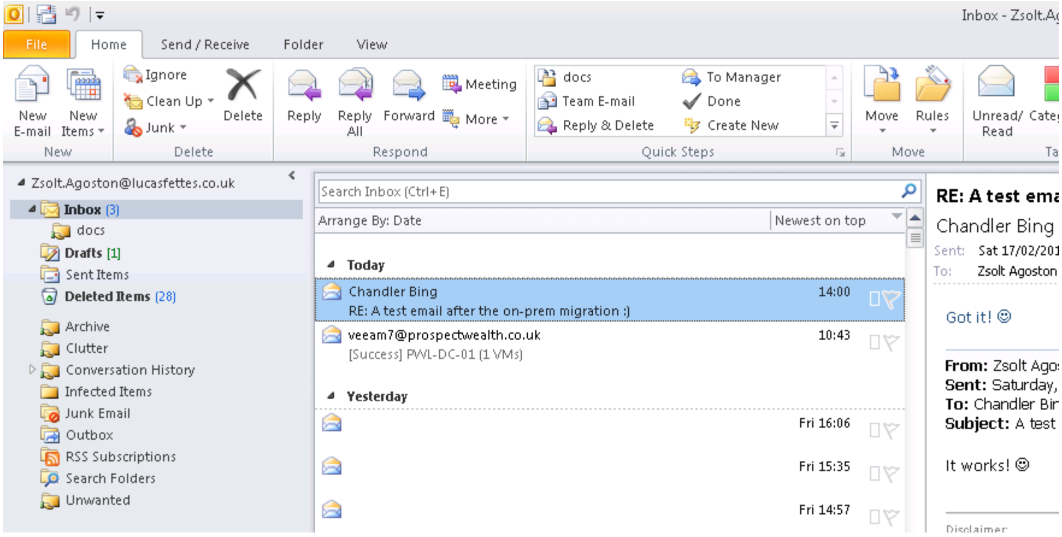
To: Chandler Bing

It works! ☺

Disclaimer:

Your online security is very important to us and we are Cyber Essentials certi
correct bank details, even if you have received an e mail providing these. We

This email is sent in confidence for the addressee only. Unauthorised recipie
have taken all reasonable precautions to ensure that no viruses are transmit



Today

Chandler Bing 14:00
RE: A test email after the on-prem migration :)

veeam7@prospectwealth.co.uk 10:43
[Success] PWL-DC-01 (1 VMs)

Yesterday

Fri 16:06

Fri 15:35

Fri 14:57

RE: A test ema

Chandler Bing

Sent: Sat 17/02/201

To: Zsolt Agoston

Got it! ☺

From: Zsolt Ago:
Sent: Saturday,
To: Chandler Bir
Subject: A test

It works! ☺

Disclaimer:

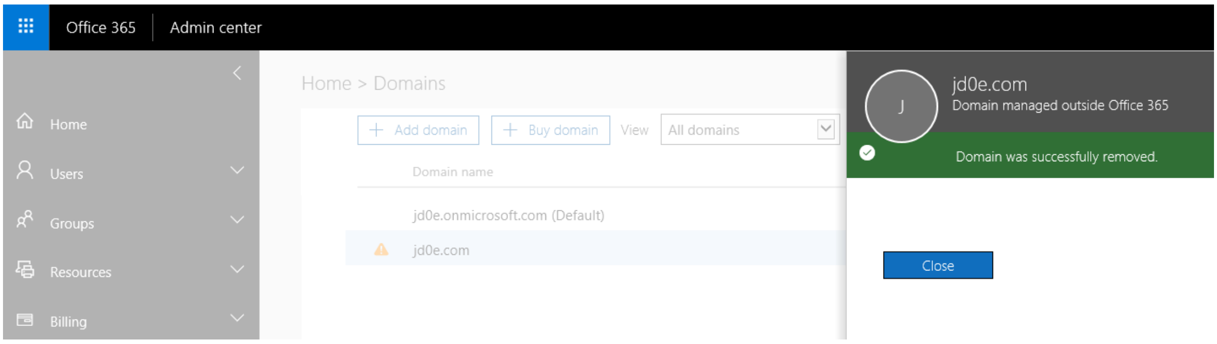
Excellent! The mail flow works in both directions!

Before we forget, we remove the old **jd0e.onmicrosoft.com STMP addresses** from the moved mailboxes.

```
import-csv users.csv | foreach {
$name=$_.FirstName
Set-Mailbox -Identity $name -EmailAddresses @{remove="$name@jd0e.onmicrosoft.com" }
}
```

Strip down the old tenant

As a next step we remove of our business domains from the source tenant and add them to the target. In our example it is a single domain: **jd0e.com**



Domain name

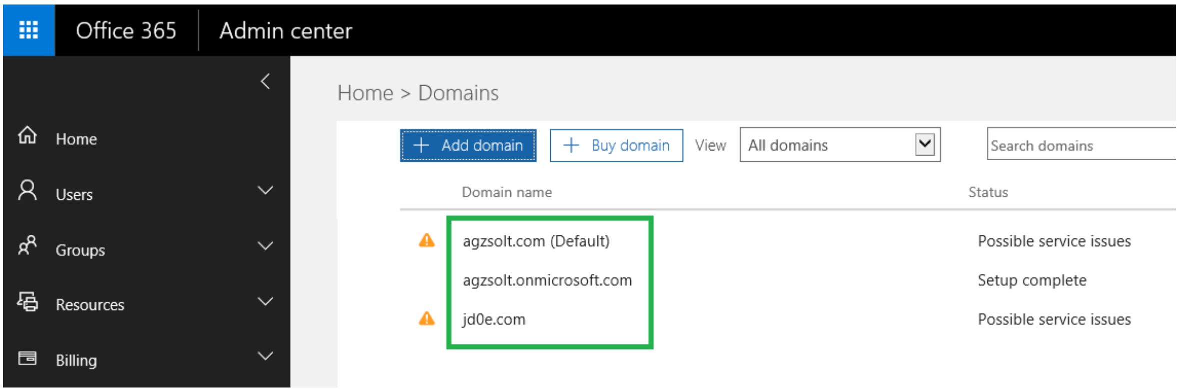
jd0e.onmicrosoft.com (Default)

jd0e.com

jd0e.com
Domain managed outside Office 365

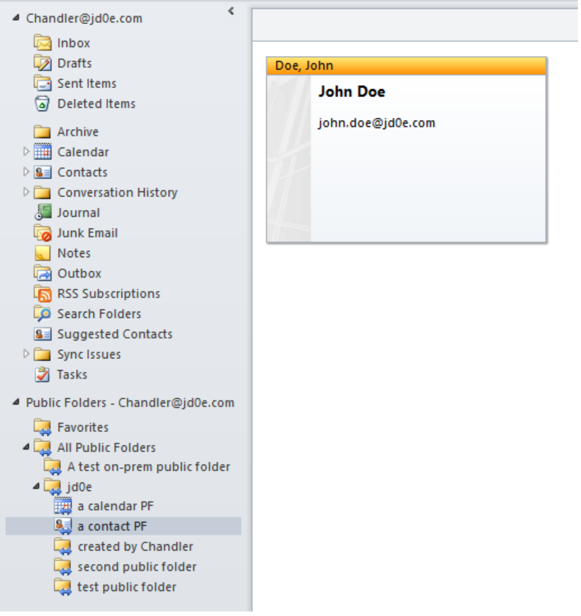
Domain was successfully removed.

After removing jd0e.com domain from the jd0e.onmicrosoft.com tenant and **add that to agzsolt.onmicrosoft.com**



Domain name	Status
agzsolt.com (Default)	Possible service issues
agzsolt.onmicrosoft.com	Setup complete
jd0e.com	Possible service issues

Now we simply create a jd0e subfolder in the local Public Folder system and import the PF.pst file there



Doe, John

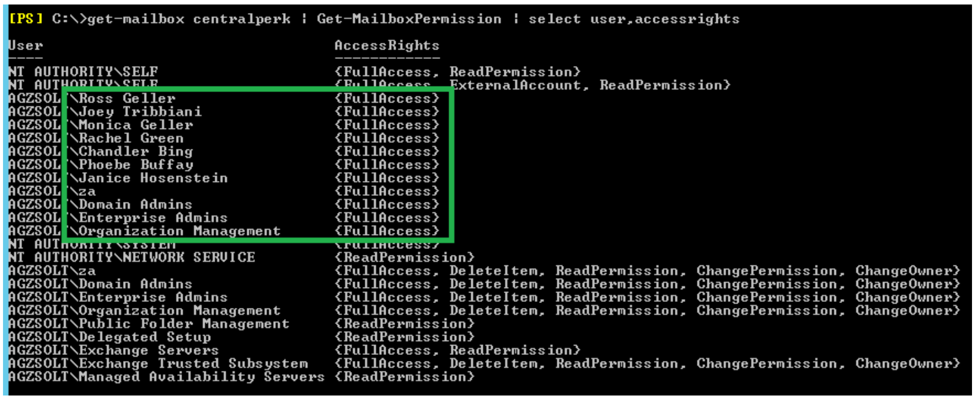
John Doe

john.doe@jd0e.com

Perfect!

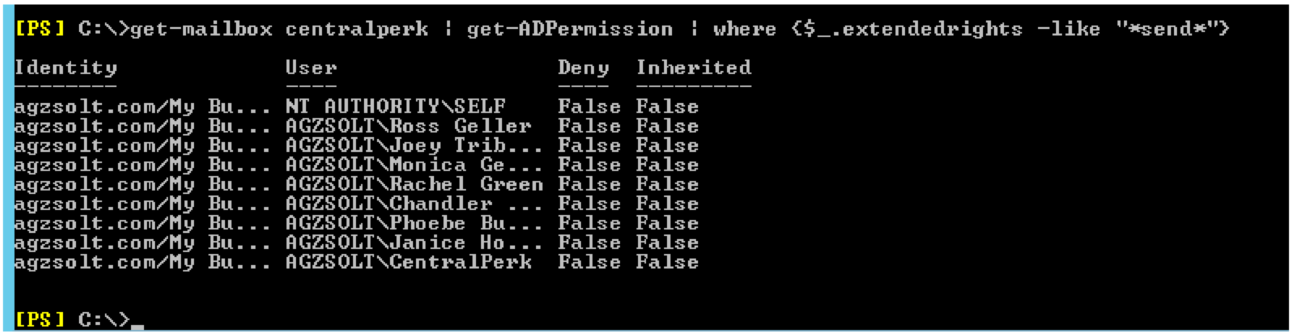
Sorting the post-migration tasks: permissions check, distribution lists and contacts creation

Amazing news that the **mailbox permissions are inherited**, they were mirrored during the migration so we don't need to worry about that



```
[PS] C:\>get-mailbox centralperk | Get-MailboxPermission | select user,accessrights

User                                AccessRights
----                                ------------
NT AUTHORITY\SELF                   {FullAccess, ReadPermission}
NT AUTHORITY\SELF                   {FullAccess, ExternalAccount, ReadPermission}
AGZSOLT\Ross Geller                 {FullAccess}
AGZSOLT\Joey Tribbiani              {FullAccess}
AGZSOLT\Monica Geller               {FullAccess}
AGZSOLT\Rachel Green                {FullAccess}
AGZSOLT\Chandler Bing               {FullAccess}
AGZSOLT\Phoebe Buffay               {FullAccess}
AGZSOLT\Janice Hosenstein           {FullAccess}
AGZSOLT\za                          {FullAccess}
AGZSOLT\Domain Admins               {FullAccess}
AGZSOLT\Enterprise Admins           {FullAccess}
AGZSOLT\Organization Management     {FullAccess}
NT AUTHORITY\SYSTEM                 {FullAccess}
NT AUTHORITY\NETWORK SERVICE        {ReadPermission}
AGZSOLT\za                          {FullAccess, DeleteItem, ReadPermission, ChangePermission, ChangeOwner}
AGZSOLT\Domain Admins               {FullAccess, DeleteItem, ReadPermission, ChangePermission, ChangeOwner}
AGZSOLT\Enterprise Admins           {FullAccess, DeleteItem, ReadPermission, ChangePermission, ChangeOwner}
AGZSOLT\Organization Management     {FullAccess, DeleteItem, ReadPermission, ChangePermission, ChangeOwner}
AGZSOLT\Public Folder Management    {ReadPermission}
AGZSOLT\Delegated Setup             {ReadPermission}
AGZSOLT\Exchange Servers            {FullAccess, ReadPermission}
AGZSOLT\Exchange Trusted Subsystem  {FullAccess, DeleteItem, ReadPermission, ChangePermission, ChangeOwner}
AGZSOLT\Managed Availability Servers {ReadPermission}
```

Send-as permissions are moved through as well:



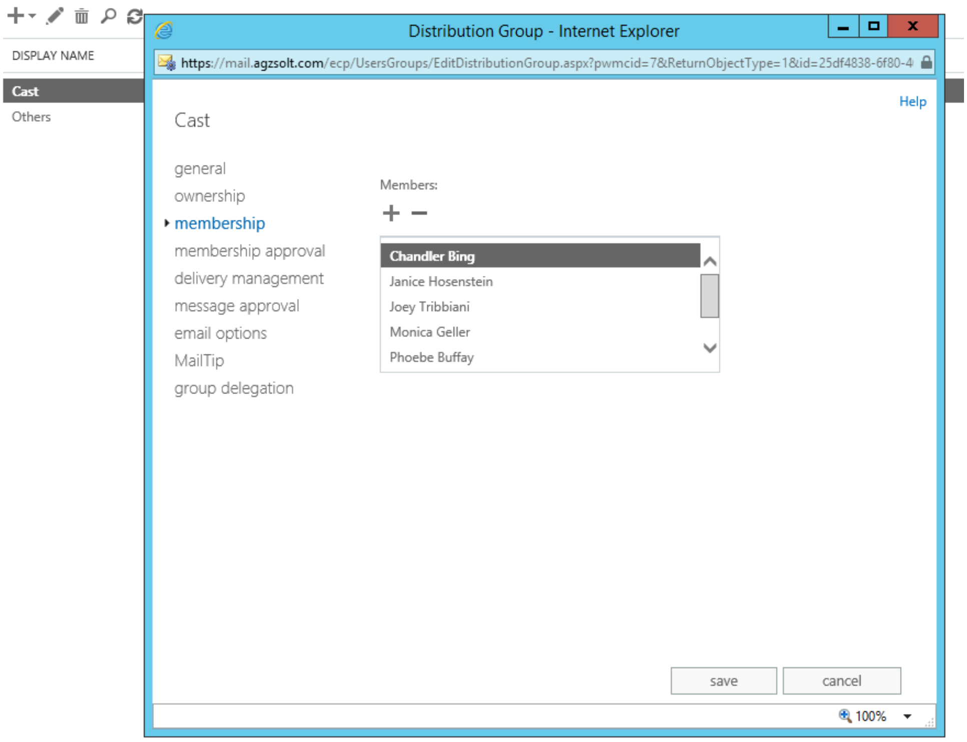
```
[PS] C:\>get-mailbox centralperk | get-ADPermission | where {$_.extendedrights -like "*send*"}

Identity             User                 Deny  Inherited
--------             ----                 ----  ---------
agzsolt.com/My Bu... NT AUTHORITY\SELF    False False
agzsolt.com/My Bu... AGZSOLT\Ross Geller  False False
agzsolt.com/My Bu... AGZSOLT\Joey Trib... False False
agzsolt.com/My Bu... AGZSOLT\Monica Ge... False False
agzsolt.com/My Bu... AGZSOLT\Rachel Green False False
agzsolt.com/My Bu... AGZSOLT\Chandler ... False False
agzsolt.com/My Bu... AGZSOLT\Phoebe Bu... False False
agzsolt.com/My Bu... AGZSOLT\Janice Ho... False False
agzsolt.com/My Bu... AGZSOLT\CentralPerk False False


[PS] C:\>_
```

Now we **create the distribution groups** with the right users

```
import-csv distro-list.csv | foreach {
$SAM=$_.SamAccountName
$name=$_.DisplayName
$win=$_.WindowsEmailAddress
New-DistributionGroup -Name $name -DisplayName $name -PrimarySmtpAddress $win -Type distribution -
IgnoreNamingPolicy:$true -ModerationEnabled:$false -OrganizationalUnit "OU=DGs,OU=jd0e,OU=My
Business,DC=agzsolt,DC=com" -Confirm:$false
Set-DistributionGroup -Identity $win -RequireSenderAuthenticationEnabled:$false
}
```

Populate with the members:

```
import-csv distro.csv | foreach {
$group=$_.Group
$member=$_.PrimarySmtpAddress
Add-DistributionGroupMember -Identity $group -Member $member -Confirm:$false
}
```



And to finish the process, we create the **contacts**:

```
import-csv contacts.csv | foreach {
$name=$_.Name
$disp=$_.DisplayName
$fn=$_.FirstName
$ln=$_.LastName
$email=$_.WindowsEmailAddress
New-MailContact -Name $name -DisplayName $disp -FirstName $fn -LastName $ln -ExternalEmailAddress $email -
OrganizationalUnit "OU=Contacts,OU=jd0e,OU=My Business,DC=agzsolt,DC=com" -Confirm:$false
}
```

From this point it’s a normal migration to the cloud scenario.

☺

MIGRATE BACK TO THE CLOUD

That’s the easy and well documented part of our job, first we create the migration endpoint in the cloud server just like we did the first time on the source tenant. This time we do the exact same steps, and we call this endpoint “**agzsolt**” as well.

An important thing is to move the OU that contains all the moved accounts to an **AD that is a synced OU** so the users will appear in the tenant

We create a file called **UpToTheCloud.csv** and start the migration batch:

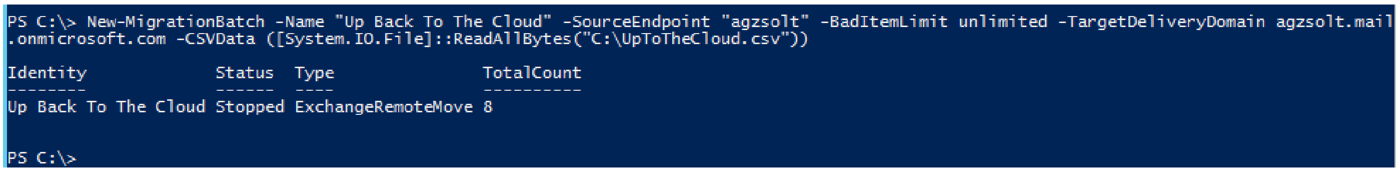
UpToTheCloud.csv

```
EmailAddress
Ross@jd0e.com
Joey@jd0e.com
Monica@jd0e.com
Rachel@jd0e.com
Chandler@jd0e.com
Phoebe@jd0e.com
Janice@jd0e.com
```

```
CentralPerk@jd0e.com
```

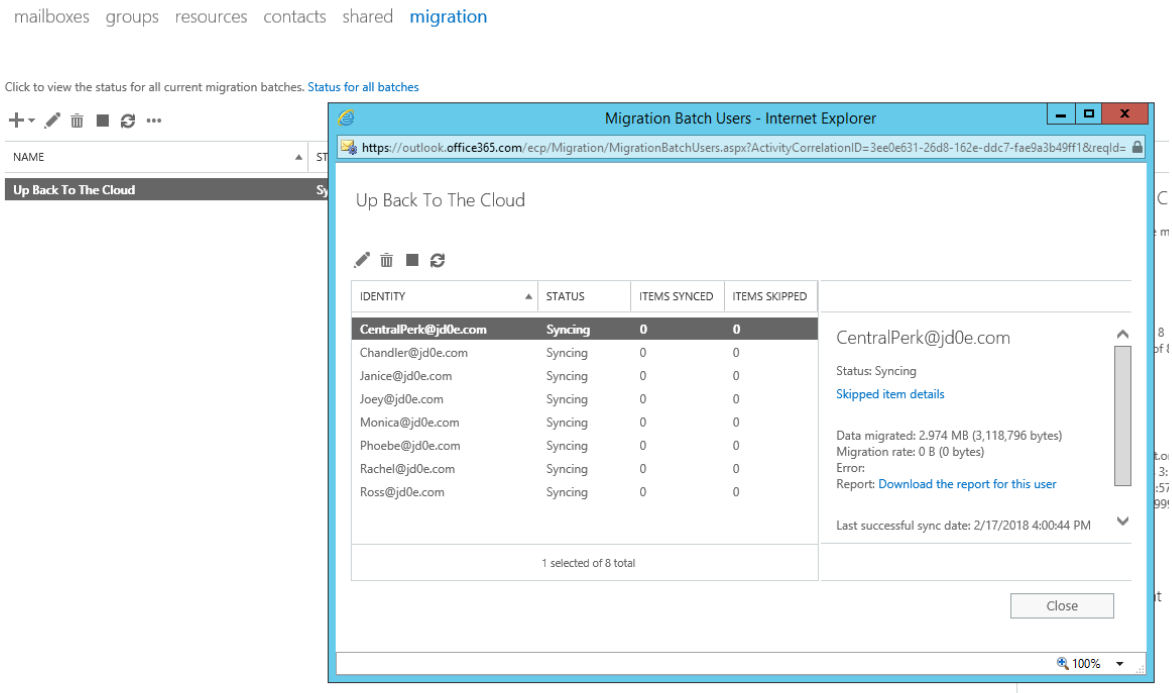
Script:

```
New-MigrationBatch -Name "Up Back To The Cloud" -SourceEndpoint "agzsolt" -BadItemLimit unlimited -
TargetDeliveryDomain agzsolt.mail.onmicrosoft.com -CSVData ([System.IO.File]::ReadAllBytes("C:\UpToTheCloud.csv"))
```



```
PS C:\> New-MigrationBatch -Name "Up Back To The Cloud" -SourceEndpoint "agzsolt" -BadItemLimit unlimited -TargetDeliveryDomain agzsolt.mail
.onmicrosoft.com -CSVData ([System.IO.File]::ReadAllBytes("C:\UpToTheCloud.csv"))

Identity             Status  Type               TotalCount
--------             ------  ----               ----------
Up Back To The Cloud Stopped ExchangeRemoteMove 8


PS C:\>
```

Start the migration



Click to view the status for all current migration batches. Status for all batches

NAME	ST
Up Back To The Cloud	Sy

Migration Batch Users - Internet Explorer

https://outlook.office365.com/ecp/Migration/MigrationBatchUsers.aspx?ActivityCorrelationID=3ee0e631-26d8-162e-ddc7-fae9a3b49ff1&reqId=

Up Back To The Cloud

IDENTITY	STATUS	ITEMS SYNCED	ITEMS SKIPPED
CentralPerk@jd0e.com	Syncing	0	0
Chandler@jd0e.com	Syncing	0	0
Janice@jd0e.com	Syncing	0	0
Joey@jd0e.com	Syncing	0	0
Monica@jd0e.com	Syncing	0	0
Phoebe@jd0e.com	Syncing	0	0
Rachel@jd0e.com	Syncing	0	0
Ross@jd0e.com	Syncing	0	0

1 selected of 8 total

CentralPerk@jd0e.com

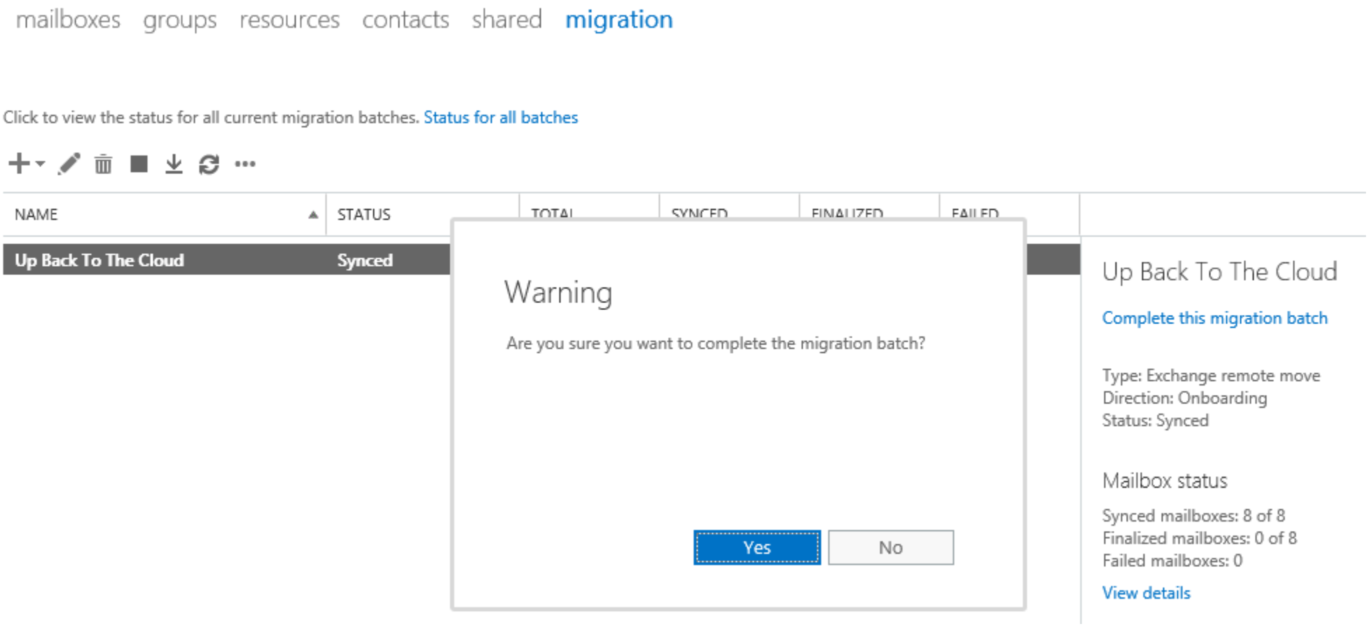
Status: Syncing

Skipped item details

Data migrated: 2.974 MB (3,118,796 bytes)
Migration rate: 0 B (0 bytes)
Error:
Report: Download the report for this user

Last successful sync date: 2/17/2018 4:00:44 PM

Now it's time to complete the batch



Click to view the status for all current migration batches. Status for all batches

NAME	STATUS	TOTAL	SYNCED	FINALIZED	FAILED
Up Back To The Cloud	Synced				

Warning

Are you sure you want to complete the migration batch?

Up Back To The Cloud

Complete this migration batch

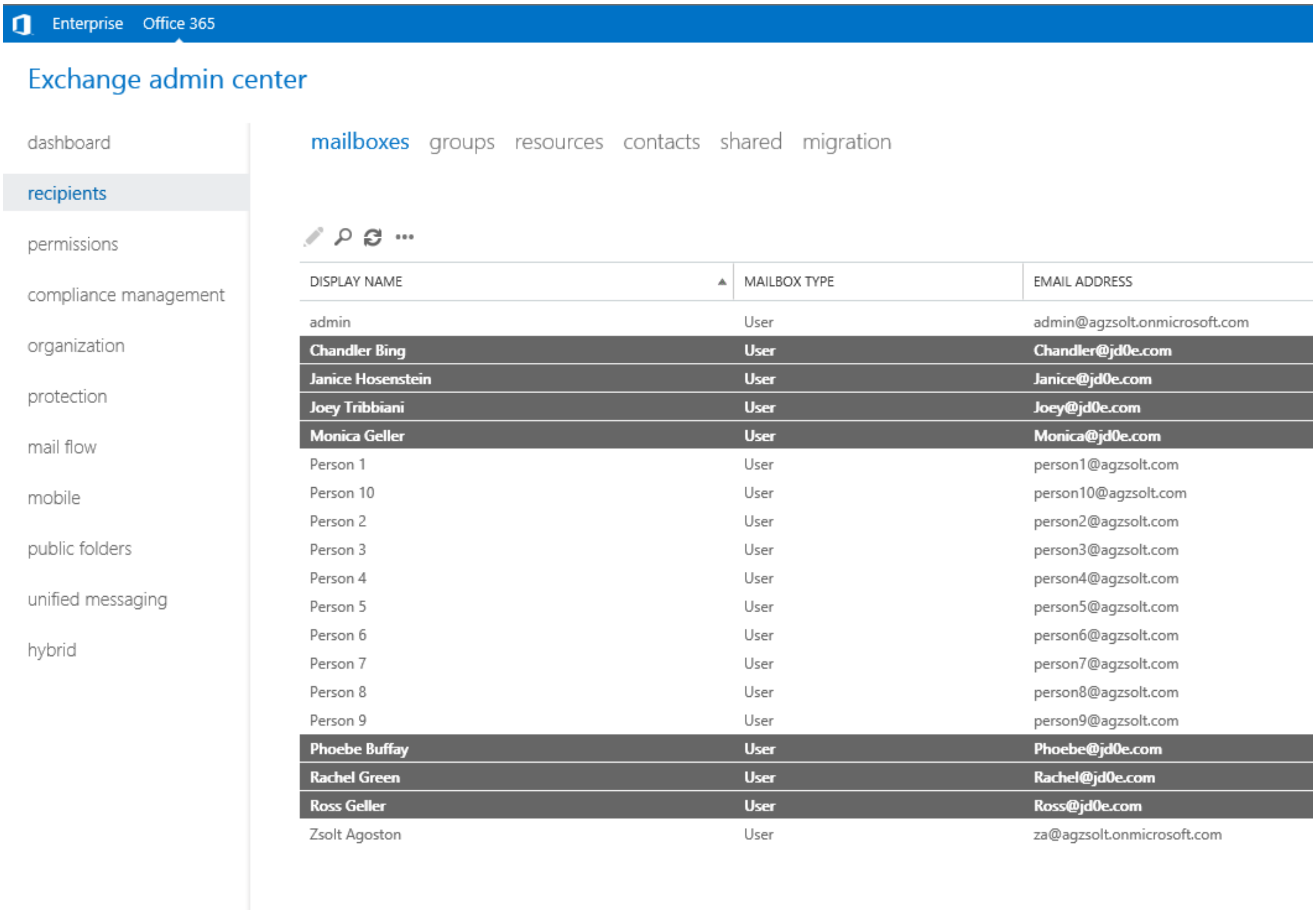
Type: Exchange remote move
Direction: Onboarding
Status: Synced

Mailbox status

Synced mailboxes: 8 of 8
Finalized mailboxes: 0 of 8
Failed mailboxes: 0

View details

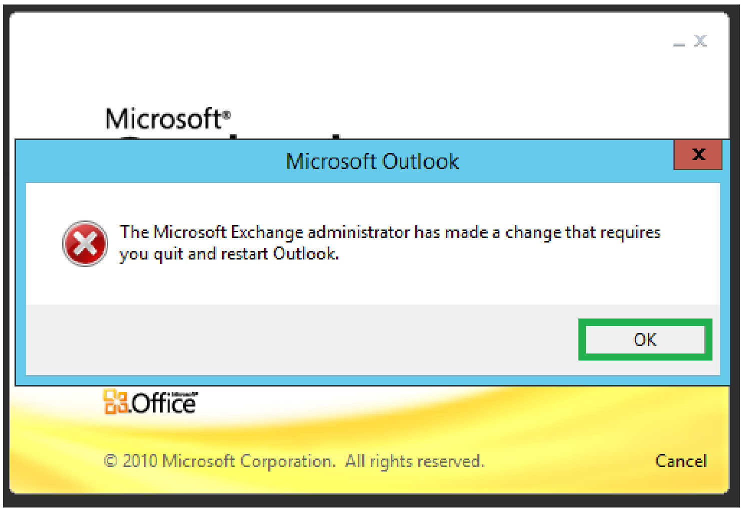
After the batch is done we can see the mailboxes finally appearing in the cloud



DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
admin	User	admin@agzsolt.onmicrosoft.com
Chandler Bing	User	Chandler@jd0e.com
Janice Hosenstein	User	Janice@jd0e.com
Joey Tribbiani	User	Joey@jd0e.com
Monica Geller	User	Monica@jd0e.com
Person 1	User	person1@agzsolt.com
Person 10	User	person10@agzsolt.com
Person 2	User	person2@agzsolt.com
Person 3	User	person3@agzsolt.com
Person 4	User	person4@agzsolt.com
Person 5	User	person5@agzsolt.com
Person 6	User	person6@agzsolt.com
Person 7	User	person7@agzsolt.com
Person 8	User	person8@agzsolt.com
Person 9	User	person9@agzsolt.com
Phoebe Buffay	User	Phoebe@jd0e.com
Rachel Green	User	Rachel@jd0e.com
Ross Geller	User	Ross@jd0e.com
Zsolt Agoston	User	za@agzsolt.onmicrosoft.com

I personally like to **change the SCP domain for autodiscover** in the jd0e domain to https://autodiscover-s.outlook.com/Autodiscover/Autodiscover.xml which makes faster discovery at later profile creations, but this step can be omitted.

The clients will receive another notification of the background changes after which they need to restart Outlook again and we are done!

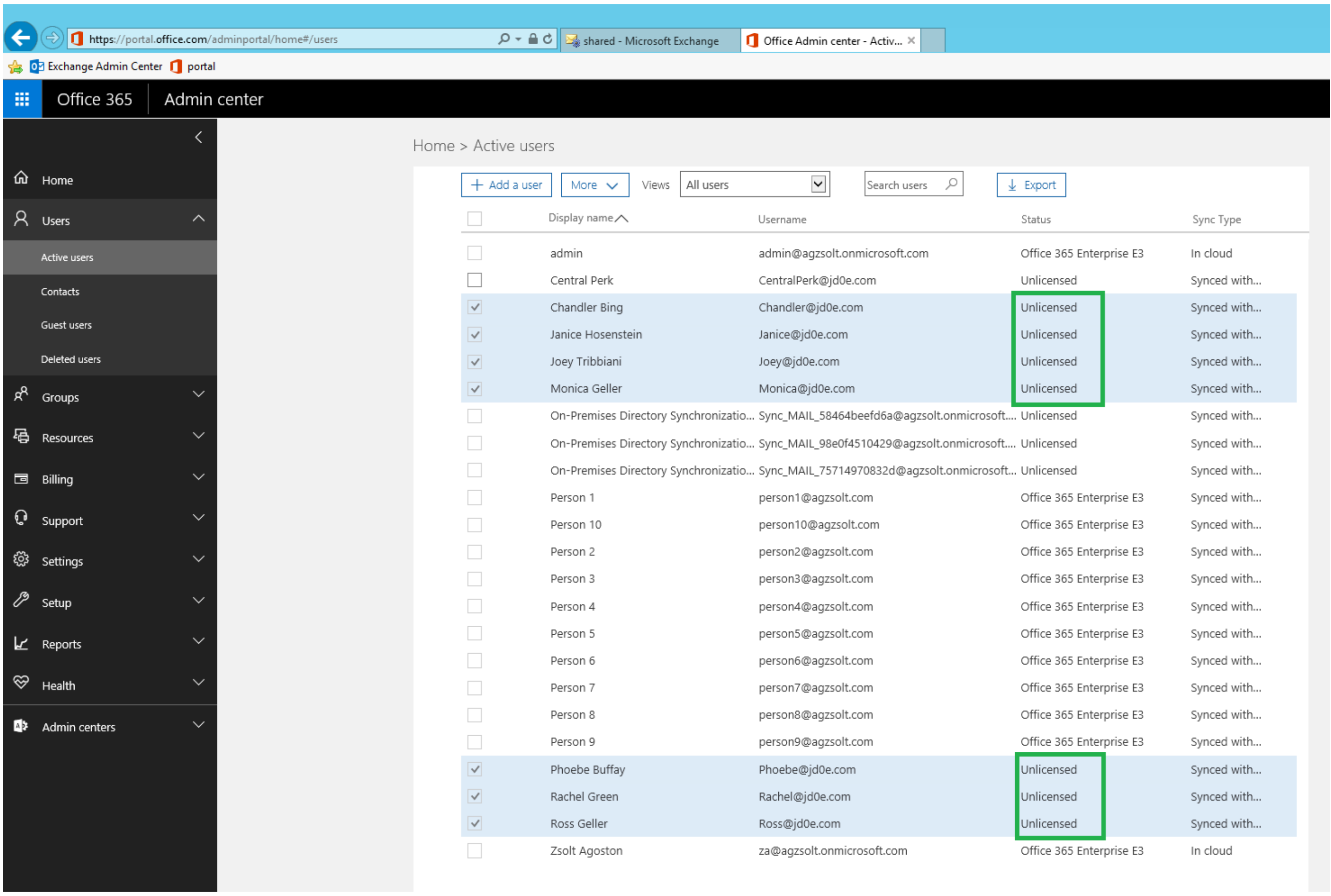


The Microsoft Exchange administrator has made a change that requires you quit and restart Outlook.

Tidying up

We still have a few things to sort:

1. We **assign the appropriate licenses** to the migrated accounts



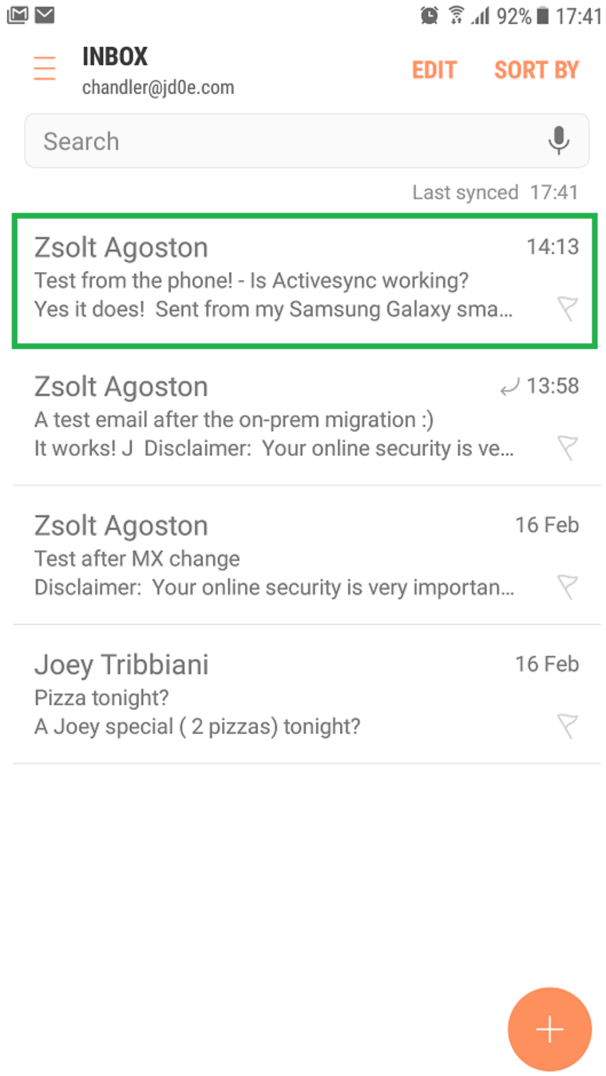
□	Display name	Username	Status	Sync Type
□	admin	admin@agzsolt.onmicrosoft.com	Office 365 Enterprise E3	In cloud
□	Central Perk	CentralPerk@jd0e.com	Unlicensed	Synced with...
☑	Chandler Bing	Chandler@jd0e.com	Unlicensed	Synced with...
☑	Janice Hosenstein	Janice@jd0e.com	Unlicensed	Synced with...
☑	Joey Tribbiani	Joey@jd0e.com	Unlicensed	Synced with...
☑	Monica Geller	Monica@jd0e.com	Unlicensed	Synced with...
□	On-Premises Directory Synchronizatio...	Sync_MAIL_58464beefd6a@agzsolt.onmicrosoft....	Unlicensed	Synced with...
□	On-Premises Directory Synchronizatio...	Sync_MAIL_98e0f4510429@agzsolt.onmicrosoft....	Unlicensed	Synced with...
□	On-Premises Directory Synchronizatio...	Sync_MAIL_75714970832d@agzsolt.onmicrosoft...	Unlicensed	Synced with...
□	Person 1	person1@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 10	person10@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 2	person2@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 3	person3@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 4	person4@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 5	person5@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 6	person6@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 7	person7@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 8	person8@agzsolt.com	Office 365 Enterprise E3	Synced with...
□	Person 9	person9@agzsolt.com	Office 365 Enterprise E3	Synced with...
☑	Phoebe Buffay	Phoebe@jd0e.com	Unlicensed	Synced with...
☑	Rachel Green	Rachel@jd0e.com	Unlicensed	Synced with...
☑	Ross Geller	Ross@jd0e.com	Unlicensed	Synced with...
□	Zsolt Agoston	za@agzsolt.onmicrosoft.com	Office 365 Enterprise E3	In cloud

```
import-csv users.csv | foreach {
$fn=$_.FirstName
Set-MsolUser -UserPrincipalName "$fn@jd0e.com" -UsageLocation "GB"
Set-MsolUserLicense -UserPrincipalName "$fn@jd0e.com" -AddLicenses "agzsolt:ENTERPRISEPACK"
}
```

2. The **public folders need to be moved to the cloud**. Again, Microsoft's solution is a pretty cumbersome way, since the mailbox database is pretty small I use a simple client to export them in a PST file and import it back to a cloud managed PF mailbox.

After migrating back to the cloud, the **mobile phones will start working again**. In few cases users are prompted for their passwords by the device after which the connection goes back to normal.

Samsung S7 phone



92% 17:41

INBOX
chandler@jd0e.com

EDIT SORT BY

Search

Last synced 17:41

Zsolt Agoston 14:13
Test from the phone! - Is Activesync working?
Yes it does! Sent from my Samsung Galaxy sma...

Zsolt Agoston 13:58
A test email after the on-prem migration :)
It works! J Disclaimer: Your online security is ve...

Zsolt Agoston 16 Feb
Test after MX change
Disclaimer: Your online security is very importan...

Joey Tribbiani 16 Feb
Pizza tonight?
A Joey special (2 pizzas) tonight?

We are done!

☺

Z.