**DL Migration Plan**

DL migration is not exactly migration, it is creating a replica of a DL in exchange online.

# **Take Out DL’s Details**

You must take out the details of the Dl you want to migrate which include

* Display name
* Alias
* PrimarySMTPAddress
* Managed By (owners)
* Members
* Description

# Script to take out Display name, Alias, Primary SMTP and Export to CSV

Run this in your on prem exchange management shell as administrator.

Get-DistributionGroup -ResultSize Unlimited |

Select-Object Name, PrimarySmtpAddress, Alias

Export-Csv -Path "C:\Groups.csv" -NoTypeInformation

# Script to take out ManagedBy (owners) of a DL’s

#TO GET THE OWNERS OF DL'S

# Array containing the DL names

$DLArray = @("DL 1", "DL 2", "Final DL")

# Loop through each DL in the array

foreach ($DLName in $DLArray) {

# Get DL information including managed by (owners)

$DLInfo = Get-DistributionGroup -Identity $DLName

# Output DL name

Write-Host "DL: $($DLInfo.DisplayName)"

# Check if the DL has any owners

if ($DLInfo.ManagedBy -ne $null) {

Write-Host "Owners:"

foreach ($Owner in $DLInfo.ManagedBy) {

$OwnerUser = Get-Mailbox $Owner

Write-Host " $($OwnerUser.PrimarySmtpAddress)"

}

}

else {

Write-Host "No owners specified."

}

# Add a separator for better readability

Write-Host "------------------------"

}

# Script to take out members of a DL ‘s

#TO GET MEMBERS OF DL'S

# Array containing the DL names

$DLArray = @("DL 1", "DL 2", "Final DL")

# Loop through each DL in the array

foreach ($DLName in $DLArray) {

# Get DL members

$DLMembers = Get-DistributionGroupMember -Identity $DLName

# Output DL name and corresponding members' email addresses

Write-Host "DL: $DLName"

foreach ($Member in $DLMembers) {

Write-Host " $($Member.PrimarySmtpAddress)"

}

# Add a separator for better readability

Write-Host "------------------------"

}

# Script to take out description of DL’s

#THIS IS THE SCRIPT TO GET DESCRIPTION OF DL'S

#Create array with the DL names you want to get info for

$DLs = @("DL 1", "DL 2", "Final DL")

#Create array to store output

$DLInfo = @()

#Loop through the array

foreach ($DLName in $DLs) {

#Get the distribution group details for this DL

$DLDetails = Get-DistributionGroup $DLName | Select Name, Description

#Add details to output array

$DLInfo += $DLDetails

}

#Output array with selected DL descriptions

$DLInfo

# Script to take out SMTP of DLs (RUN IN ON PREM EXCHANGE)

#TO GET ALL SMTP'S OF DL'S (RUN IN ON PREM EXCHNAGE)

$dlArray = @("DL 1", "DL 2", "Final DL")

foreach ($dlName in $dlArray) {

$distributionGroup = Get-DistributionGroup -Identity $dlName

if ($distributionGroup) {

# Output distribution group name as a header

Write-Host "$dlName"

$filteredEmailAddresses = $distributionGroup.EmailAddresses | Where-Object {

$\_ -ne $null -and $\_ -ne $distributionGroup.PrimarySmtpAddress

}

# Output filtered email addresses for the current distribution group

$filteredEmailAddresses | ForEach-Object { Write-Host " $\_" }

# Add a newline for better separation between groups

Write-Host ""

}

}

**NOTE- THE SMTP that is in caps like in the example below is the primary so when noting these SMTP down remove the caps one since it will automatically be added when creating dl as we mentioned the primary there the rest of the SMTP are the other SMTP’s which we must add after the dl’s are created**

**EXAMPLE**  
DL 1

smtp:sample2@infoSystechs.onmicrosoft.com

smtp:sample@infosystech.co.uk

smtp:DL1@InfoSystechs.onmicrosoft.com

SMTP:DL1@infosystech.co.uk

**IMPORTANT**

* **If you go to the deleting option, you will have to note all the details (mentioned above) somewhere if the online DL is not working or anything you can always create it again in On-Prem with the exact details**
* **Also if there are DLs and they have DL’s inside them as members you will also have to migrate those along with DL as if you add the on-prem DL in the newly created one later on when you migrate other ones (create in online) you will most likely delete them from on-prem so the dl which had on-prem DL’s in it will go away**

**Example**

**ON prem DL**

**Test DL**

**Members   
DL 1 (on-prem)**

**Dl 2 (on-prem)**

**Online dl (the replica you created of the above on-prem dl )**

**Test DL**

**Members**

**DL 1 (on-prem)**

**Dl 2 (on-prem)**

**So, the dl is created as a replica online but later on, when you also create a replica of DL 1 and DL 2 and delete them from on-prem, they will disappear from Test DL members so keep that in mind that you will have to migrate those first.**

# **STEPS TO CREATE THE REPLICA DL**

* First, you must create a CSV in which you have the details of DL you want to create. The details we took out above we just have to insert them in the fields only one script we must run after the dl is created and that is for other SMTPs/aliases.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Alias | PrimarySmtpAddress | ManagedBy | Members | Description |
| Test dl | testdl | testdl@domain | User1;user2 | User3;user4 | test |

**NOTE: you can have as many DL’s as you want to replicate in the csv, and for the members and owners you will have to write their UPN not their display name and if there are multiple members or owners you must insert a semi-colon between them**

* Now open PowerShell in Exchange Online and run the command in the below order   
    
  Install-Module ExchangeOnlineManagement

Import-Module ExchangeOnlineManagement  
Connect-ExchangeOnline

* Now click the upload button in the powershell and upload the csv you created
* Now run the command

“Get-ChildItem” and you will see the path of your csv and you can enter it in the script

* Now run the below command

#TO CREATE DL'S USING CSV

$groups = Import-Csv "/home/noman/Batch 2 dl migration.csv"

foreach ($group in $groups) {

$name = $group.Name

$alias = $group.Alias

$desc = $group.Description

$managedBy = $group.ManagedBy -split ";"

$members = $group.Members -split ";"

$primarySmtpAddress = $group.PrimarySmtpAddress

New-DistributionGroup -Name $name -Alias $alias -ManagedBy $managedBy -Members $members -PrimarySmtpAddress $primarySmtpAddress -Description $desc

}  
  
Note: You must insert the path of the csv file you uploaded you can do this by running the command “Get-ChildItem” and you will see the path of your csv and you can enter it in the script

# Add other SMTP’s Script (THE ONES WE TOOK OUT IN THE ABOVE SCIRPT)

#TO ADD ALL THE SMTP'S OD DL'S AFTER THEY ARE CREATED

# Define a hashtable where keys are distribution group names and values are arrays of email addresses

$DistributionGroups = @{

"Final DL" = @("finalDL321341@infosystech.co.uk", "finalDL4561@infosystech.co.uk")

"DL 2" = @("finalDL3212@infosystech.co.uk", "Finaldl123@infosystech.co.uk")

"DL 1" = @("sample@infosystech.co.uk", "sample2@infoSystechs.onmicrosoft.com")

}

# Iterate through the hashtable

foreach ($dlName in $DistributionGroups.Keys) {

$emailAddresses = $DistributionGroups[$dlName]

# Set the email addresses for the distribution group

Set-DistributionGroup -Identity $dlName -EmailAddresses @{Add=$emailAddresses}

}

**NOW YOU CAN ADD YOURSELF IN THE DL AND CHECK IF EMAIL IS BEING RECEIVED AND CHECK IF ALL SMTPS AND OTHER PROPERTIES ARE OK**