Microsoft

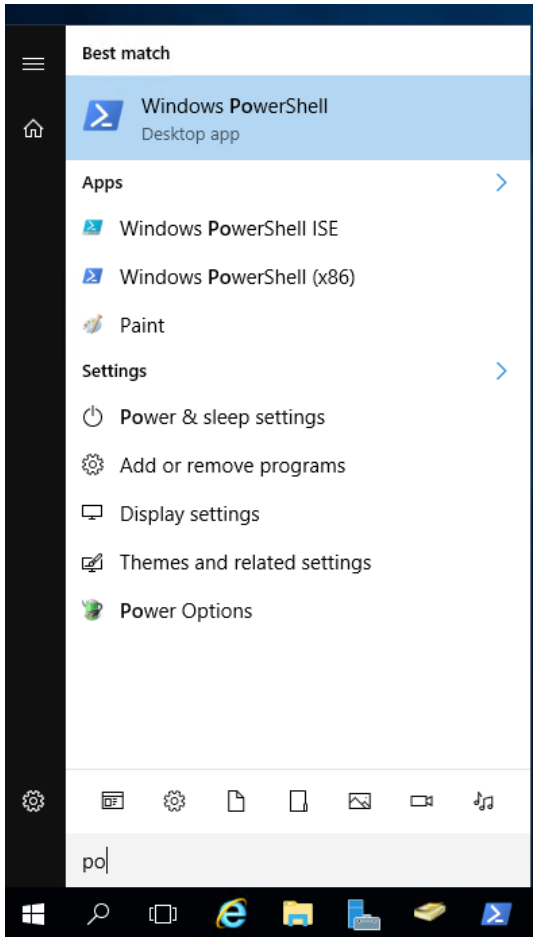
Office 365 Onboarding Center

Exchange Migration Questionnaire Validation

Prerequisite

- Powershell (available in Windows 10, 8.1 and 8)
- Supported Browsers
- Questionnaire must be fully completed (including users and passwords)

Environment preparation



Verify Powershell is present in the computer:

Press the "Windows Button" in the taskbar and without pressing in anything start typing "PowerShell" if it is installed it should show up, if it does not show up you may need to install it:

Install Powershell and all prerequisite

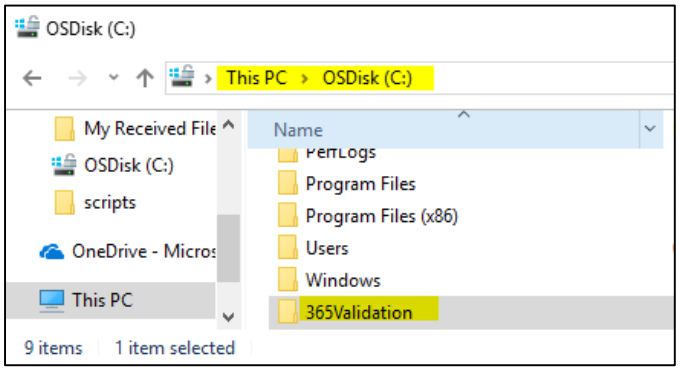
Office 365

Environment preparation

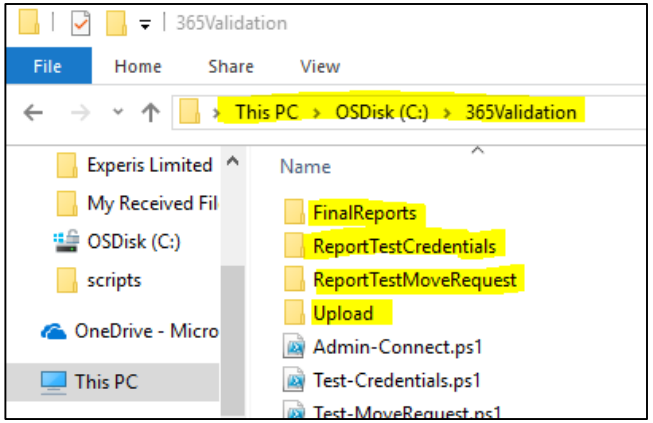
Ensure that you follow the steps:

1 - **Download** these **365Validation.zip** file and extract the content of the file into the drive **C:** →

2 – Verify that **in C:** you have the folder **365Validation** as shown:



3 – Verify that in **C:\365Validation** folder you **have the content as shown**:



INFO: If you have the folder structure as shown above, you are ready to start.

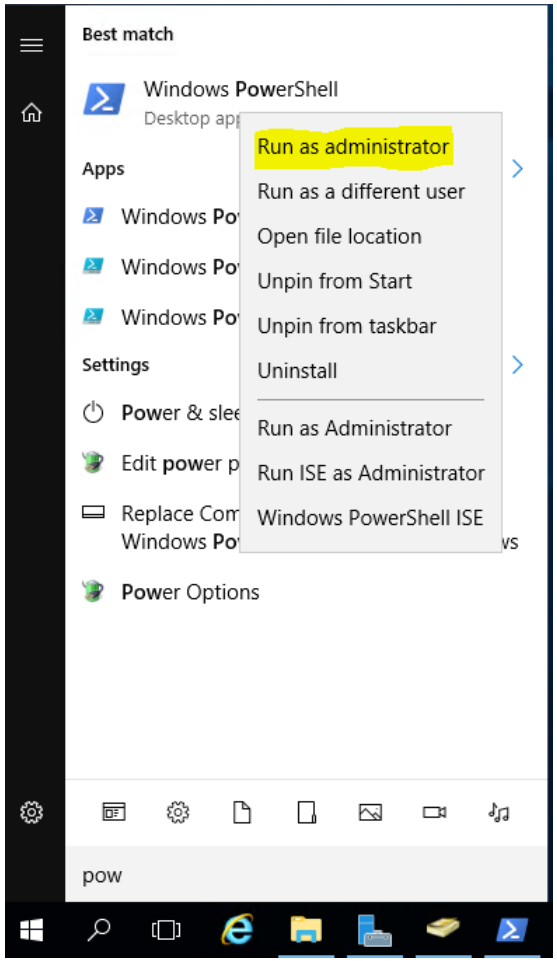
Office 365

Environment preparation - 2

Please open the link

Office 365

Run Powershell as an Administrator



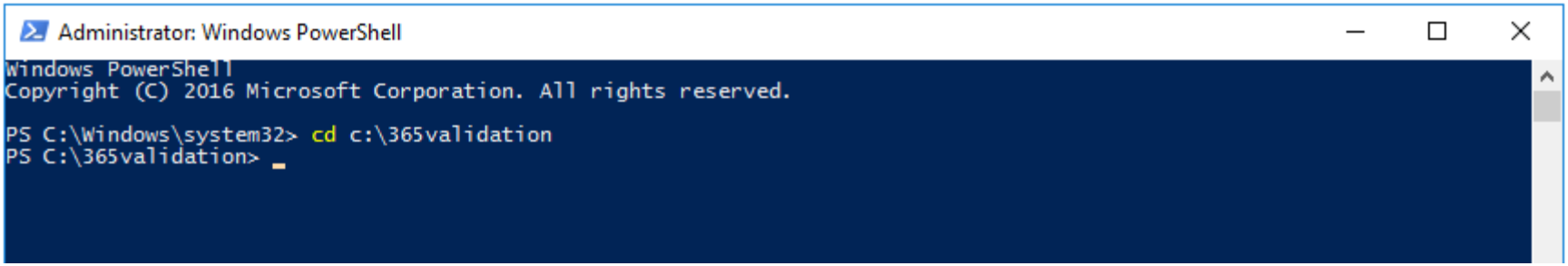
Press the "Windows Button" in the taskbar and without pressing in anything start typing "PowerShell" then right click on it and select "Run as administrator"

Office 365

Validation Preparation

Using the same PowerShell session Copy and Paste the line bellow and press enter, note to paste in PowerShell CRTL+V does not work, you must right click and then it pastes:

cd c:\365validation



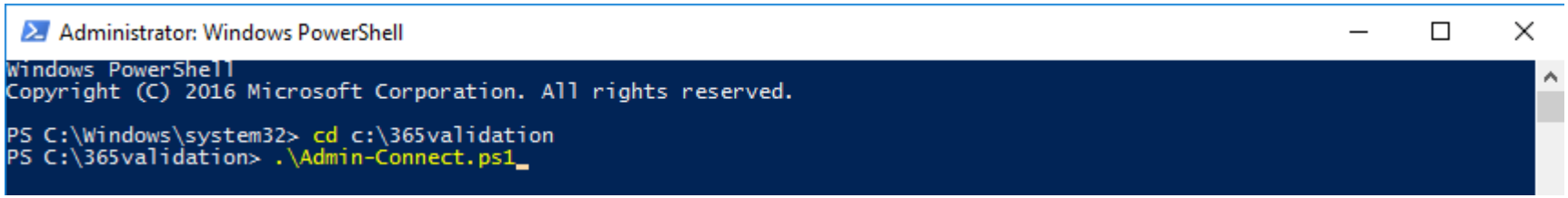
Info: This command will move the PowerShell execution to the folder c:\365validation

Office 365

Validation Preparation Part 3

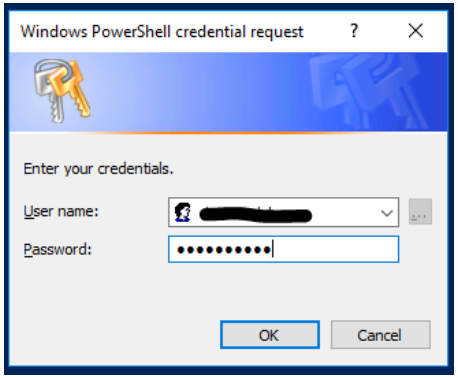
Copy and Paste the lines bellow and press enter, note to paste in PowerShell CRTL+V does not work, you must right click and then it pastes:

.\Admin-Connect.ps1



A Popup window will show up, please enter Online Admin credentials in the respective fields

Info: This will store the username and password of a Online Admin into memory to use in future script running



Office 365

Test Online Admin Accounts Part1

Edit the file passwords.csv stored in C:\365validation\upload by opening Notepad and opening the file.

Do not change the first row

On the following rows enter the Online Admin username and password that have been shared with you by the customer separated by a comma, one set per row.

When finished save the file , Do not change the file name or location

Eg.

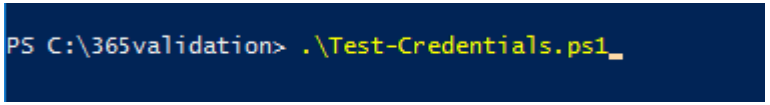
UserName,Password
admin1@domain.com,password
admin2@domain.com,password
admin2@domain.com,password

Office 365

Test Online Admin Accounts Part2

Copy and Paste the line bellow and press enter, note to paste in PowerShell CRTL+V does not work, you must right click and then it pastes:

.\Test-Credentials.ps1



Info: This command will run the script test-credentials.ps1, that will test the Online Admin accounts provided by the customer in the Migration Questionnaire

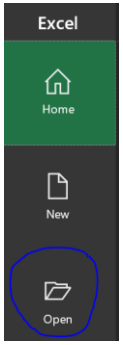
Office 365

Test Online Admin Accounts Part3

PowerShell will perform some actions, please ignore them, once the script finishes running the results will be stored in a file:

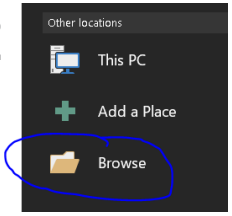
The results of the Online Admin credentials verification are stored in a file called stored in C:\365Validation\FinalReports\ReportTestCredentials.csv, you can verify the results by accessing opening Excel in your computer and performing the following steps:

1



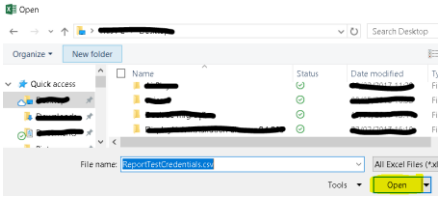
Open Excel and press "Open"

2



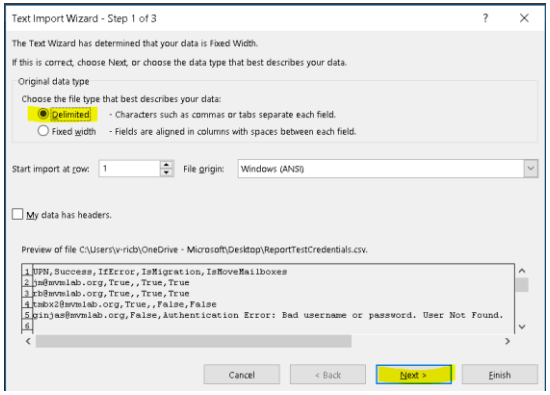
Press "Browse" and navigate to **C:\365Validation\FinalReports**

3



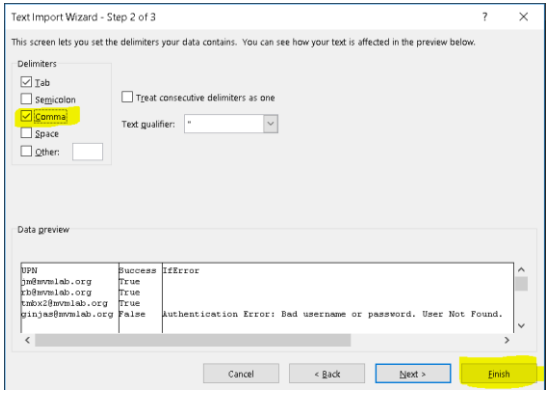
Select the file and press "Open"

4



A pop up windows will appear in it select "Delimited" and press "Next"

5



A pop up new windows will appear in it select "comma" and press "Finish"

The Results will appear in an Excel spreadsheet (Continue in the next slide)

Office 365

Test Online Admin Accounts Part4

The results will be shown in a similar way to the example bellow:

The File is composed by 5 Columns:

UPN	Success	IfError	IsMigration	IsMoveMailboxes
[redacted]	TRUE		TRUE	TRUE
[redacted]	TRUE		TRUE	TRUE
[redacted]	TRUE		FALSE	FALSE
[redacted]	FALSE	Authentication Error: Bad username or password. User Not Found. User: [redacted]	FALSE	FALSE

UPN: The admin that was tested

Success: "True "or "False "are the expected results, if "True" the access to the customers Office 365 tenant was successful, if "False " it was not

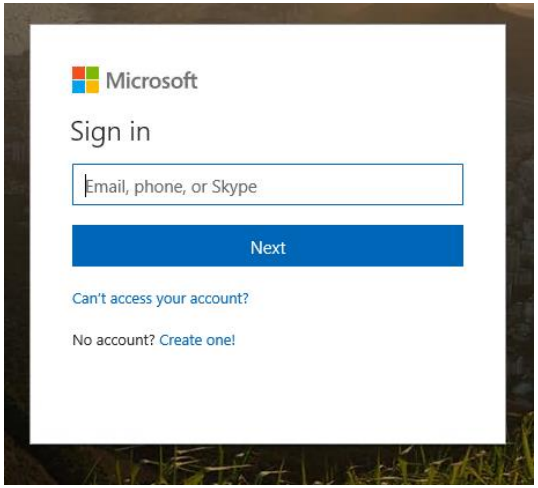
IfError: In case in the column "Success" the value is "False" this column will describe the motive for the failure

IsMigration and IsMoveMailboxes: These two columns identify if the admins have the minimum required roles to perform the migrations, the value "True" or "False" are expected, if "True" the Admin has that specific role if false the admins does not have that role

Test Online Admin Part5

In case of error or as an alternative to the PowerShell method above you may test the Online Admin accounts by accessing the Office 365 Portal in http://portal.office.com, if successful the credential are OK if not successful credential are not correct
Please use in private browsing, depending on the browser this can be achieved in different ways:

Edge: https://support.microsoft.com/en-us/help/4026200/windows-browse-inprivate-in-microsoft-edge
Internet Explorer: https://www.howtogeek.com/howto/windows-vista/open-ies-private-browsing-mode-the-easy-way/
Chrome: https://support.google.com/chromebook/answer/95464?co=GENIE.Platform%3DDesktop&hl=en
Firefox: https://support.mozilla.org/en-US/kb/private-browsing-use-firefox-without-history



Office 365

Test the Test Mailboxes Part1

Edit the file identities.csv stored in C:\365validation\upload by opening Notepad and opening the file.

Do not change the first row;

On the following rows enter the test accounts that have been shared with you in the migration questionnaire, one per row.

Test mailboxes	Please provide 10 Test Mailboxes to test the Migration tools/Scripts for Velocity Migrations	These Test Mailboxes need to be posted to the customer SPO site in the Migration Schedule Template format for Exchange Hybrid Migrations. The Test mailboxes naming convention -	

When finished save the file , Do not change the file name or location

Eg.

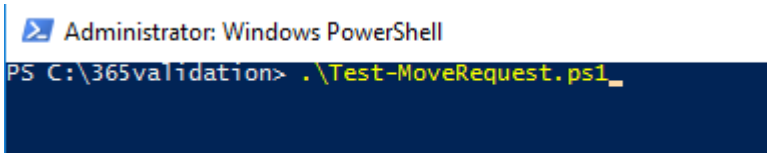
PrimarySMTPAddress
TestMigMBX1
TestMigMBX2
TestMigMBX3
TestMigMBX4

Office 365

Test the Test Mailboxes Part2

Copy and Paste the line bellow and press enter, note to paste in PowerShell CRTL+V does not work, you must right click and then it pastes:

.\Test-MoveRequest.ps1



PowerShell will perform some actions, please ignore them, once the script finishes running the results will be stored in a file:

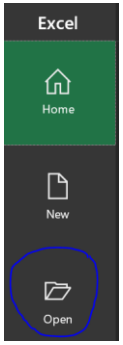
Info: this command will read from the identities.csv file and verify if it's content is a recipient in Office 365 and if the migration is expected to succeed, and if not the reason why

Office 365

Test the Test Mailboxes Part2

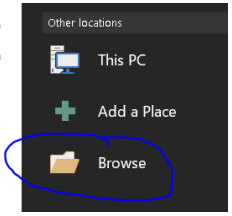
The results of the Test Mailboxes verification s are stored in a file called stored in C:\365Validation\FinalReports\ ReportTestMoveRequest csv, you can verify the results by accessing opening Excel in your computer and performing the following steps:

1



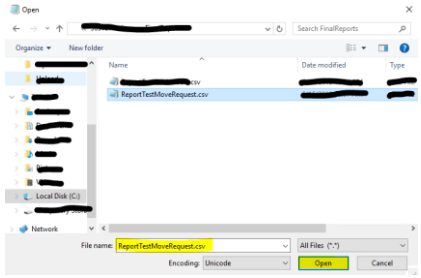
Open Excel and press “Open”

2



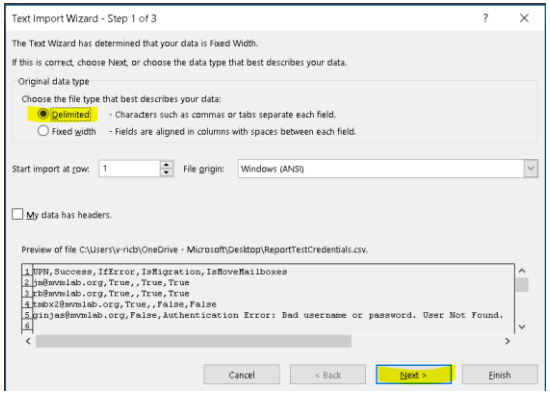
Press “Browse” and navigate to **C:\365Validation\FinalReports**

3



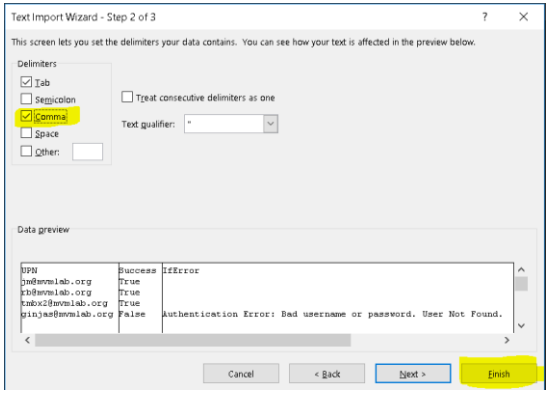
Select the file and press “Open”

4



A pop up windows will appear in it select “Delimited” and press “Next”

5



A pop up new windows will appear in it select “comma” and press “Finish”

The Results will appear in an Excel spreadsheet (Continue in the next slide)

Office 365

Test the Test Mailboxes Part3

The results will be shown in a similar way to the example bellow:

The File is composed by 3 Columns:

PrimarySMTPAddress	Success	IfError
TestMigMBX2	YES	
TestMigMBX3	YES	
TestMigMBX1	NO	The target mailbox doesn't have an SMTP proxy matching '[redacted].mail.onmicrosoft.com'.
TestMigMBX4	NO	The operation couldn't be performed because object 'TestMigMBX4' couldn't be found on 'HE1P193A001DC02.EURP193A001.PROD.OUTLOOK.COM'.

Primary SMTPAddress: The accounts offered for testing

Success: "Yes" or "No "are the expected results, if "Yes" the mailbox is correctly created and migratable , if "No " there is an issues with the mailbox

IfError: In case in the column "Success" the value is "No" this column will describe the motive

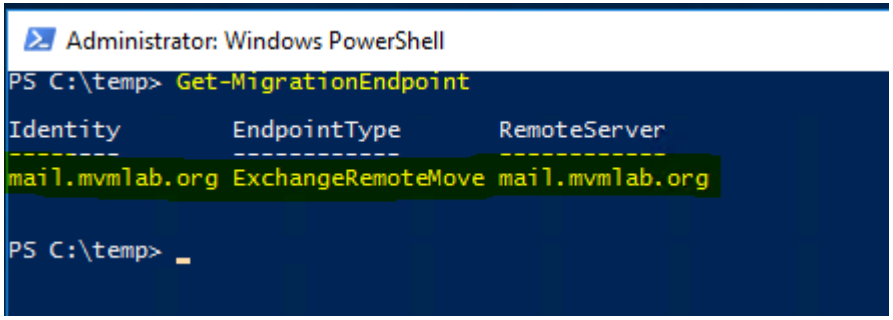
Note: For further information about the errors, the cause and possible solution please refer to the file Exchange Hybrid Migration issues.xlsx present in root of the folder 365Validation that you have been using.

Test Migration EndPoint Part1

Copy and Paste the lines bellow and press enter, note to paste in PowerShell CRTL+V does not work, you must right click and then it pastes:

Get-MigrationEndpoint

Info: This will show you the available endpoints created in the customer's tenant, this way you may confirm that the value the customer shared is correct



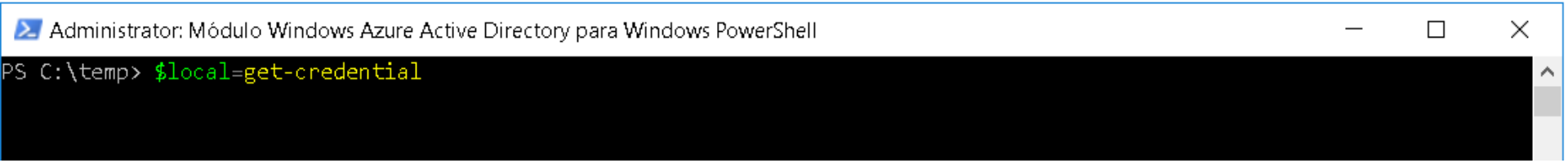
Office 365

Test Migration EndPoint Part2

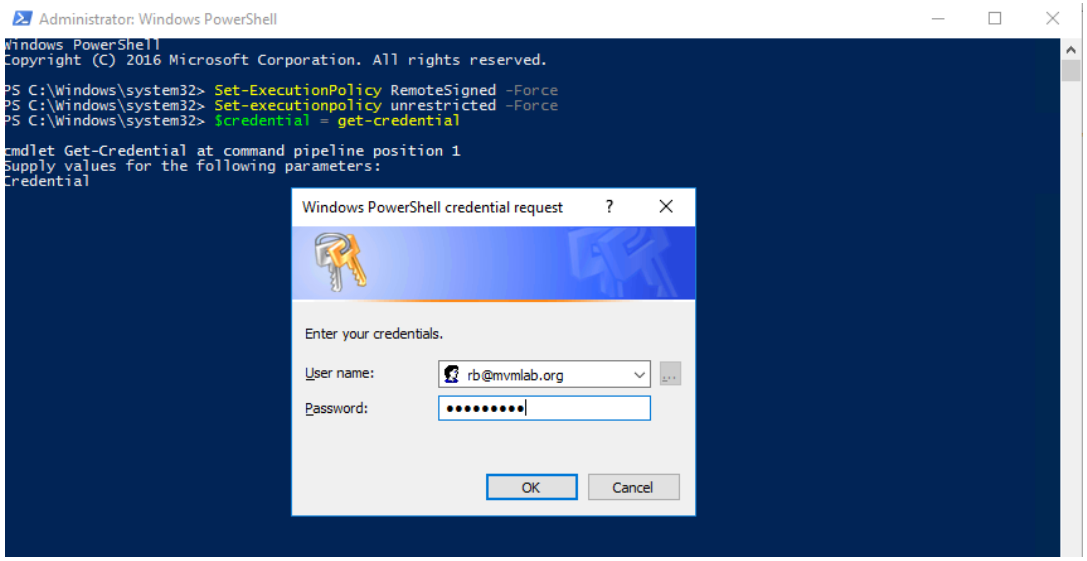
Copy and Paste the lines bellow and press enter, note to paste in PowerShell CRTL+V does not work, you must right click and then it pastes:

$local = get-credential

Info: This will put in the variable $local the username and password of a Local Admin



A Popup window will show up, please enter a Local Admin credentials in the respective fields



Office 365

Test Migration EndPoint Part3

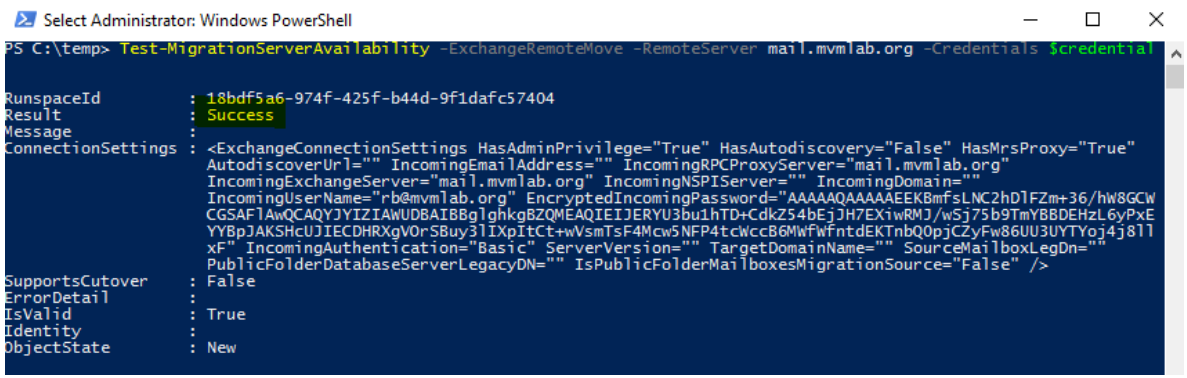
Copy and Paste the line bellow and press enter, note to paste in PowerShell CRTL+V does not work, you must right click and then it pastes:

Test-MigrationServerAvailability -ExchangeRemoteMove -RemoteServer “remote server”-Credentials $local

Replace “remote server” with the information shared in the migration questionnaire in the line with the same name.

It is expected to get a successful result

Migration Setting Details	Remote Hostname	premise. This is the external name (such as https:\\migration.contoso.com) that points to the the internal Hybrid Servers or a common Load Balancer IP in front of them.	
	Target Delivery Domain	e.g. *.mail.onmicrosoft.com	
	Large item Limit (maximum number of large items that are allowed before the migration request fails)	Suggested Value = 0.	
	Bad-Item Limit (maximum number of bad items that are allowed before the migration request fails)	Suggested Value = 50	



Office 365

Office 365

After a mailbox is migrated verify the

```
user@contoso.com | Get-Recipient
```

```
PS C:\Users\a-rascau> Get-recipient

Name                                                  RecipientType
----                                                  -------------
admin                                                 UserMailbox
alexandrucojocaru                                     UserMailbox
ancacojocaru                                          UserMailbox
anca                                                  UserMailbox
Angela Scaueru                                        UserMailbox
angela                                                UserMailbox
DiscoverySearchMailbox{D919BA05-46A6-415f-80AD-7E09334BB852} UserMailbox
Radu Scaueru                                          UserMailbox
radu                                                  UserMailbox
```

```
Get-mailbox raduscaueru | get-mailboxstatistics | ft displayname,totalitemsize
```

```
PS C:\Users\a-rascau> Get-mailbox raduscaueru | get-mailboxstatistics | ft displayname,totalitemsize

DisplayName  TotalItemSize
-----------  -------------
Radu Scaueru 3.479 MB (3,648,346 bytes)
```

Get total info (per folder)

```
Get-mailbox sumit.sarda@etgworld.com | Get-MailboxFolderStatistics | epcsv -Delimiter "`t" ~\desktop\sumit.csv -NoTypeInformation -Encoding unicode
```


Office 365

Test migration move (no change will be performed ! If using WhatIF)

Now you are good to go and can simulate the move request creation with a simple PowerShell command:

```
New-MoveRequest -Remote -RemoteHostName "mail.contoso.com" -RemoteCredential $LocalCred -Identity "user@contoso.com" -
TargetDeliveryDomain "contoso.mail.onmicrosoft.com" -WhatIf


New-MoveRequest -Remote -RemoteHostName "Webaccess.btg.com" -RemoteCredential $LocalCred -Identity "user@contoso.com" -
TargetDeliveryDomain "spectrisplc.mail.onmicrosoft.com" -WhatIf
```

If the command above returns an error message, it will probably cast some light on what you should fix. If it simply returns a “what if” message, it means the mailbox is ok for migration.

Other articles (internal)

Link:

https://blogs.technet.microsoft.com/fasttracktips/2017/12/11/pre-flight-checking-objects-before-an-exchange-hybrid-migration/

Tags Exchange Hybrid Exchange Online How To Hybrid Office 365 Step-by-step Tips