**Microsoft365 Tenant Analysis for Migration**

If your organization is preparing for a Microsoft365 tenant migration using a third-party tool like Cloudiway, having visibility into your Microsoft365 environment's size and complexity is fundamental to easily plan and scope your migration project and to know the upfront licensing cost of the software to automate the migration.

The workloads that can be migrated from M365 to M365 tenants by Cloudiway are mailboxes and their archives, distribution lists, OneDrive For Business, SharePoint Online sites, Unified Groups and Microsoft Teams. Instead of manually pulling the numbers and sizes of those objects to know exactly how many Cloudiway licenses you need to purchase and to identify objects with large amounts of data which could slow your migration down, an automated tenant analysis report will provide you with a detailed and valuable insight of your source environment which will help you ensure a smooth migration to another Microsoft365 tenant.

**How to execute Cloudiway Microsoft365 Tenant Analysis PowerShell script**

Learn how Cloudiway can help you generate a Microsoft365 Tenant Analysis by running a PowerShell script on your computer that will assess your Microsoft 365 tenant environments for visibility.

The script will generate a comprehensive report of your Microsoft 365 tenants including:

1. User, shared and room&equipment and inactive mailboxes
2. Archives mailboxes
3. OneDrive For Business
4. SharePoint Online classic sites
5. Microsoft 365 unified groups
6. Microsoft Teams
7. Unlicensed users and guest users
8. Organizational contacts
9. Distribution and dynamic distribution groups
10. Security groups and mail-enabled security groups
11. M365 licenses

And most importantly will give you the exact number of Cloudiway migration licenses that you can send to your Cloudiway sales representative to get a quote.

Unzip *CloudiwayM365TenantAssessment.zip*. You will see 3 files: the PowerShell script (*CloudiwayM365TenantAssessment.ps1*) and the Excel template (*CloudiwayExcelTemplate.xlsx*) where the tenant analysis will be written to and this Word document (*How to use Microsoft365 Tenant Analysis for Migration.docx*) explaining how to run the script and one folder *CloudiwayLibrary*:

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Description automatically generated

Go to the folder *CloudiwayLibrary* and right click on 🡪Properties and check ***Unblock*** for the script to have access to the DLL function library:

A screenshot of a computer

Description automatically generated with medium confidence

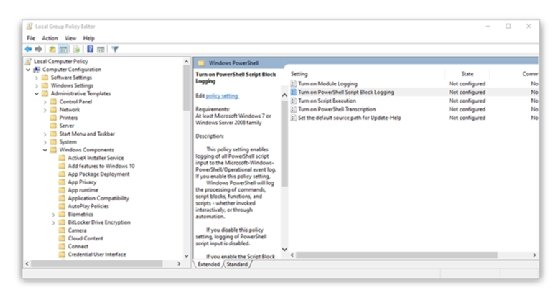
**NOTE**: You may also need to disable *ScriptBlockLogging* to execute the script. The two primary ways to disable script block logging on a Windows system are by either setting a registry value directly or by specifying the appropriate settings in a group policy object.

To disable script block logging via the registry, use the following code while logged in as an administrator.

New-Item -Path "HKLM:\SOFTWARE\Policies\Microsoft\Windows\PowerShell\ScriptBlockLogging" -Force

Set-ItemProperty -Path "HKLM:\SOFTWARE\Policies\Microsoft\Windows\PowerShell\ScriptBlockLogging" -Name "EnableScriptBlockLogging" -Value 0 -Force

You can set PowerShell logging settings within group policy. Open the Local Group Policy Editor and navigate to Computer Configuration > Administrative Templates > Windows Components > Windows PowerShell > Turn on PowerShell Script Block Logging.



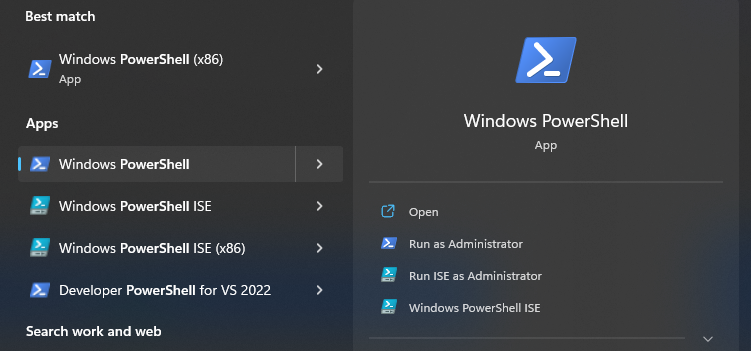
A screenshot of a computer

Description automatically generated with medium confidence

In the windows search bar, type *PowerShell*



Click on *Windows PowerShell* and on *Run as Administrator*:



In the PowerShell window, execute

***Set-ExecutionPolicy -ExecutionPolicy unrestricted***

Copy the folder path where you unzipped the files, *i.e. C:\Users\PabloGalan\Desktop\CloudiwayM365TenantAssessment*

Graphical user interface, text, application

Description automatically generated

***cd <folder path>***

where <folder path> is the folder path you copied previously:

Graphical user interface, text, application

Description automatically generated

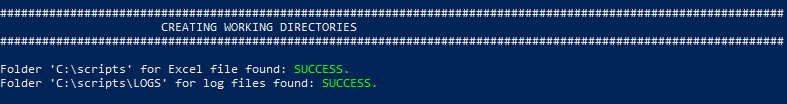
Execute ***.\CloudiwayM365TenantAssessment.ps1***

Graphical user interface, text

Description automatically generated

The first thing the script is going to do is creating 2 work directories:

* **C:\scripts\** where you will find the M365 tenant analysis report.
* **C:\scripts\LOGS\** where you will find the logs of the PowerShell execution.



After that, the script is going to check you have all PowerShell modules installed on your computer. If a module is missing it will install the module automatically with your Admin session:

Graphical user interface

Description automatically generated with low confidence

Once all required PowerShell modules are successfully installed, the script is going to prompt for your M365 global admin credentials:

Icon

Description automatically generated

Graphical user interface, application

Description automatically generated

With those credentials, the script will connect to the following Microsoft services:

A picture containing graphical user interface

Description automatically generated

and will automatically register this Azure AD app to be able to access to the Graph API:

Graphical user interface, text, application, email

Description automatically generated

These are the application permissions automatically granted:

A screenshot of a computer

Description automatically generated with low confidence

**Note**: Once the execution is successfully completed, the script will automatically remove the Azure AD app from your Azure AD.

Finally, it will start exporting all the following tenant objects:

Text

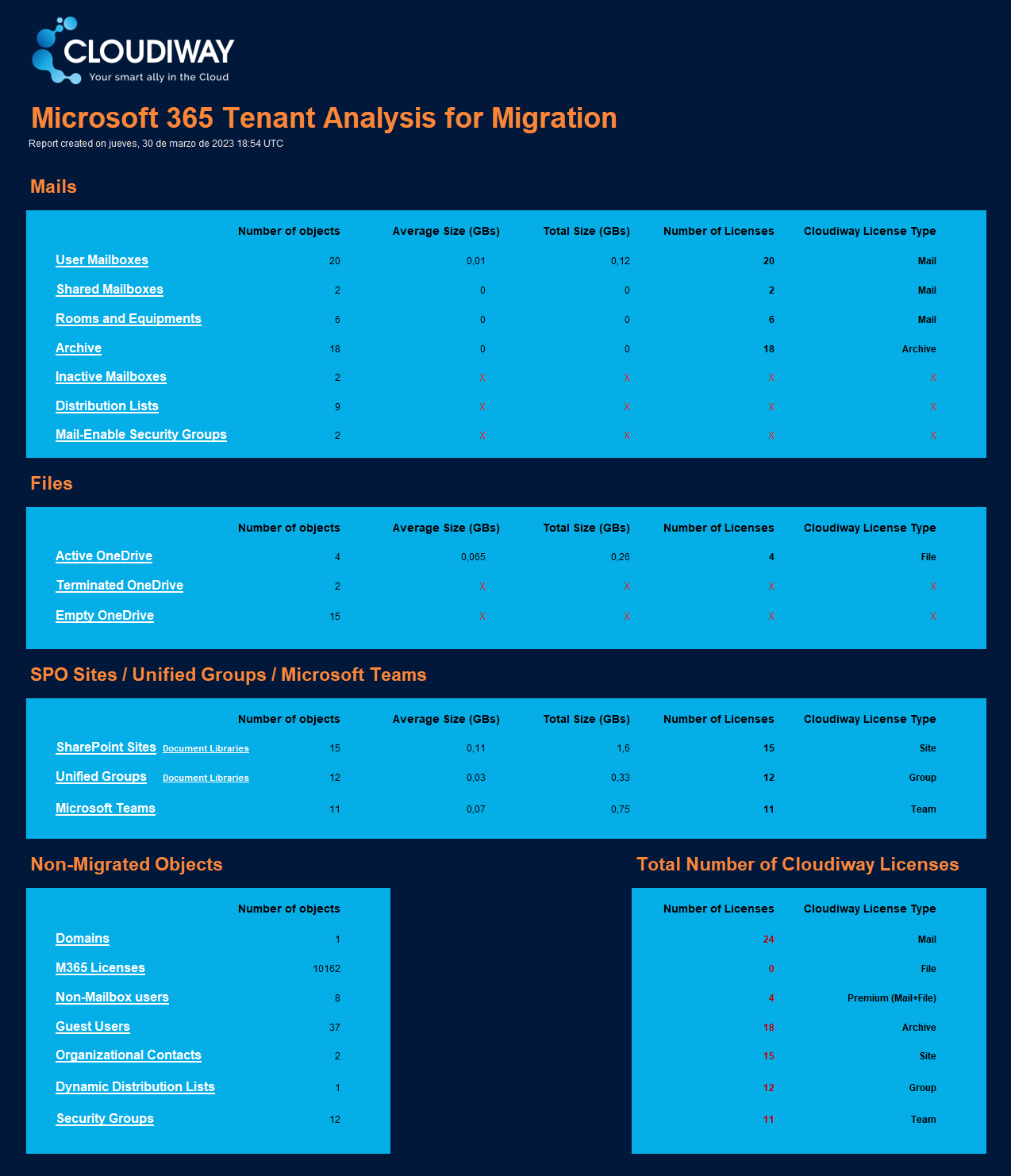
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And will automatically open the Excel file generated which will be located under **C:\scripts\** directory:

Table

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This is an example of M365 tenant analysis generated. It has a main dashboard where you can see a high-level overview of your tenant and additional spreedsheets with the detailed technical info:



Clicking on any of the underlined sections will redirect you to the corresponding Excel spreadsheet to see the detail technical information:

