

LAB GUIDE

Analyzing Microsoft 365 through PowerShell

Breakout Session One – Setting up your PowerShell Environment, meet fellow attendees.

Overview

Interacting with the Microsoft PowerShell Management interface is a journey which requires multiple dependencies, some patience, and a will to make progress. This breakout session focuses on installing the module and getting to know your co-lab-orators.

Modules

Here are the names of the modules which need to be installed by the native “Install-Module” command. The syntax for the command is below:

```
s1l3n DIR: Users\s1l3n 21/04/05 02:49:38 PM  
Do Not Panic > Install-Module -Name <module>
```

- AzureAD
- AzureRM
- MSOnline
- Microsoft.Graph
- ExchangeOnlineManagement (*optional*)
- Microsoft.Online.SharePoint.PowerShell (*optional*)
- MicrosoftTeams (*optional*)

It is likely during the install that you will be prompted to update the PowerShell Get module and approve the use of non-trusted repositories such as the PS Gallery. Why PS Gallery is not trusted by default is beyond the scope of this session.

Troubleshooting

General troubleshooting steps you may want to take to make sure you can complete the labs.

- **Does not work on your Mac/Linux/BSD/OS-2 device?** Windows 10 is a requirement along with PowerShell 5.1 for this lab. Windows server can technically work, but there may be additional system configuration required which is not covered by these steps.
- **Packages cannot be found or not installed?** Check you are running in 64-bit PowerShell 5.1 and not PowerShell 7. Newer Windows 10 systems default to POSH 7 which **will** cripple your ability to run some of the PowerShell commands.
- **Cannot run install commands?** Check the language execution state of your machine with the following line:

```
s1l3n DIR: Users\s1l3n 21/04/05 02:41:45 PM
Do Not Panic > $ExecutionContext.SessionState.LanguageMode
FullLanguage
```

- If you do not receive a Full Language response, your machine will prevent you from running PowerShell commands needed during this lab. Either use an alternate machine or reset the language mode to a full state.
 - [PowerShell Constrained Language Mode | PowerShell Team \(microsoft.com\)](https://microsoft.com)
- **Full language mode and no admin rights?** Try using a scope flag to reduce dependency on local system administrative rights.

```
Windows PowerShell
s1l3n DIR: Users\s1l3n 21/04/05 02:47:57 PM
Do Not Panic > Install-Module -Name MSOnline -Scope CurrentUser -Force

Installing package 'MSOnline'
```