**Connect to all Microsoft 365 services in a single PowerShell window**

When you use PowerShell to manage Microsoft 365, it is possible to have multiple PowerShell sessions open at the same time in different PowerShell windows corresponding to managing user accounts, SharePoint Online, Exchange Online, Skype for Business Online, Microsoft Teams, and the Security & Compliance Center.

This is not optimal for managing Microsoft 365 because you can't exchange data among those windows for cross-service management. This topic describes how to use a single instance of PowerShell from which you can manage Microsoft 365 accounts, Skype for Business Online, Exchange Online, SharePoint Online, Microsoft Teams, and the Security & Compliance Center.

You need to install the modules that are required for Azure Active Directory (Azure AD), Exchange Online, SharePoint Online, Skype for Business Online and Teams:

1. [Azure Active Directory V2](https://docs.microsoft.com/en-us/microsoft-365/enterprise/connect-to-microsoft-365-powershell?view=o365-worldwide#connect-with-the-azure-active-directory-powershell-for-graph-module) – Lab 13
2. [SharePoint Online Management Shell](https://go.microsoft.com/fwlink/p/?LinkId=255251) – Already installed in VM
3. Install-Module -Name Microsoft.Online.SharePoint.PowerShell
4. [Skype for Business Online, PowerShell Module](https://go.microsoft.com/fwlink/p/?LinkId=532439) – Install it
5. [Exchange Online PowerShell V2](https://docs.microsoft.com/en-us/powershell/exchange/exchange-online/exchange-online-powershell-v2/exchange-online-powershell-v2?view=exchange-ps#install-and-maintain-the-exchange-online-powershell-v2-module) – execute below command
   1. >Install-Module -Name ExchangeOnlineManagement -RequiredVersion 1.0.1
6. [Teams PowerShell Overview](https://docs.microsoft.com/en-us/microsoftteams/teams-powershell-overview)
   1. Install-Module -Name MicrosoftTeams

Step 1

PowerShell needs to be configured to run signed scripts for Skype for Business Online and the Security & Compliance Center. To do this, run the following command in an elevated PowerShell session (a PowerShell window you open by selecting **Run as administrator**).

Set-ExecutionPolicy RemoteSigned

## Step 2

Here are the steps to connect to all the services in a single PowerShell window when you are using just a password for sign-in.

1. Open Windows PowerShell.
2. Run this command and enter your Microsoft 365 work or school account credentials

$credential = Get-Credential

1. Run this command to connect to Azure AD using the Azure Active Directory PowerShell for Graph module.

Connect-AzureAD -Credential $credential

Alternately, if you are using the Microsoft Azure Active Directory Module for PowerShell module, run this command.

Connect-MsolService -Credential $credential

1. Run these commands to connect to SharePoint Online. Specify the organization name for your domain. For example, for "**jpower4mod.onmicrosoft.com**", the organization name value is "**jpower4mod**".

$orgName=”jpower4mod"

Connect-SPOService -Url https://$orgName-admin.sharepoint.com -Credential $userCredential

1. Run these commands to connect to Skype for Business Online. A warning about increasing the WSMan NetworkDelayms value is expected the first time you connect and should be ignored.

Import-Module SkypeOnlineConnector

$sfboSession = New-CsOnlineSession -Credential $credential

Import-PSSession $sfboSession

1. Run this command to connect to Exchange Online.

Connect-ExchangeOnline -Credential $credential -ShowProgress $true

1. Run these commands to connect to Teams PowerShell.

Import-Module MicrosoftTeams

Connect-MicrosoftTeams -Credential $credential

1. Run these commands to connect to the Security & Compliance Center.

$SccSession = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri https://ps.compliance.protection.outlook.com/powershell-liveid/ -Credential $credential -Authentication "Basic" -AllowRedirection

Import-PSSession $SccSession -Prefix cc

For MFA

Connect-IPPSSession -UserPrincipalName <UPN>

Here are all the commands in a single block when using the **Azure Active Directory PowerShell for Graph module**. Specify the name of your domain host, and then run them all at one time.

Step 2 together

$orgName="jpower4mod"

$credential = Get-Credential

Connect-AzureAD -Credential $credential

Import-Module Microsoft.Online.SharePoint.PowerShell -DisableNameChecking

Connect-SPOService -Url https://$orgName-admin.sharepoint.com -credential $credential

Import-Module SkypeOnlineConnector

$sfboSession = New-CsOnlineSession -Credential $credential

Import-PSSession $sfboSession

$SccSession = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri https://ps.compliance.protection.outlook.com/powershell-liveid/ -Credential $credential -Authentication "Basic" -AllowRedirection

Import-PSSession $SccSession -Prefix cc

Connect-ExchangeOnline -Credential $credential -ShowProgress $true

Import-Module MicrosoftTeams

Connect-MicrosoftTeams -Credential $credential

Alternately, here are all the commands in a single block when using the **Microsoft Azure Active Directory Module for PowerShell module**. Specify the name of your domain host, and then run them all at one time.

$orgName="jpower4mod"

$credential = Get-Credential

Connect-MsolService -Credential $credential

Import-Module Microsoft.Online.SharePoint.PowerShell -DisableNameChecking

connect-SPOService -Url https://$orgName-admin.sharepoint.com -credential $credential

Import-Module SkypeOnlineConnector

$sfboSession = New-CsOnlineSession -Credential $credential

Import-PSSession $sfboSession

$SccSession = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri https://ps.compliance.protection.outlook.com/powershell-liveid/ -Credential $credential -Authentication "Basic" -AllowRedirection

Import-PSSession $SccSession -Prefix cc

Connect-ExchangeOnline -Credential $credential -ShowProgress $true

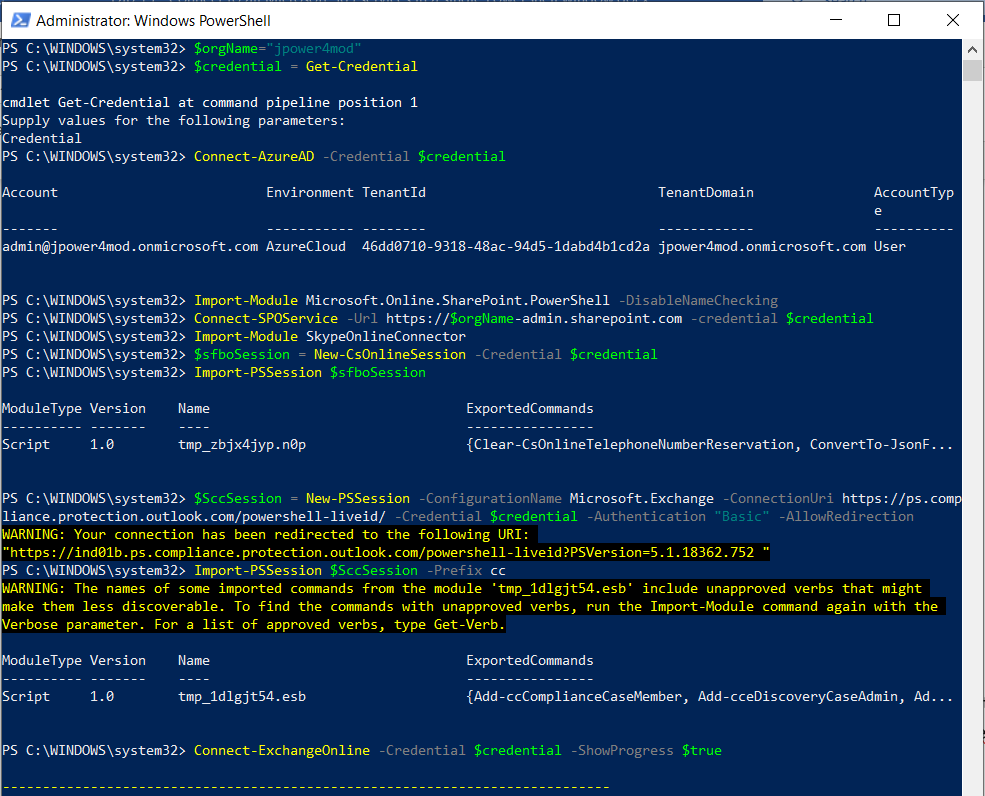
Import-Module MicrosoftTeams

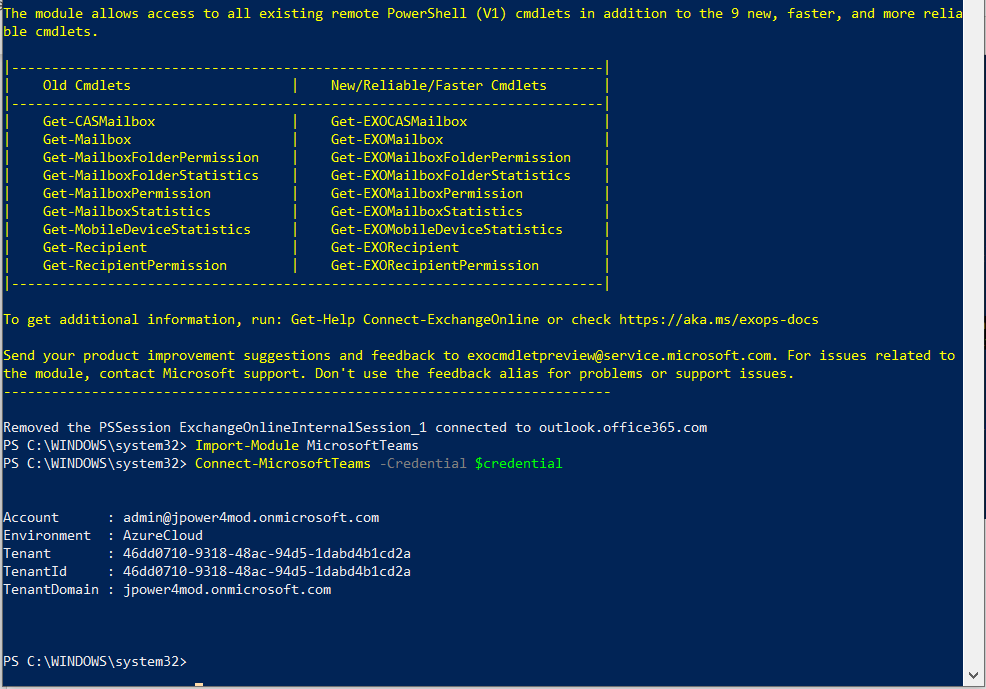
Connect-MicrosoftTeams -Credential $credential

When you are ready to close down the PowerShell window, run this command to remove the active sessions to Skype for Business Online, SharePoint Online, the Security & Compliance Center, and Teams:

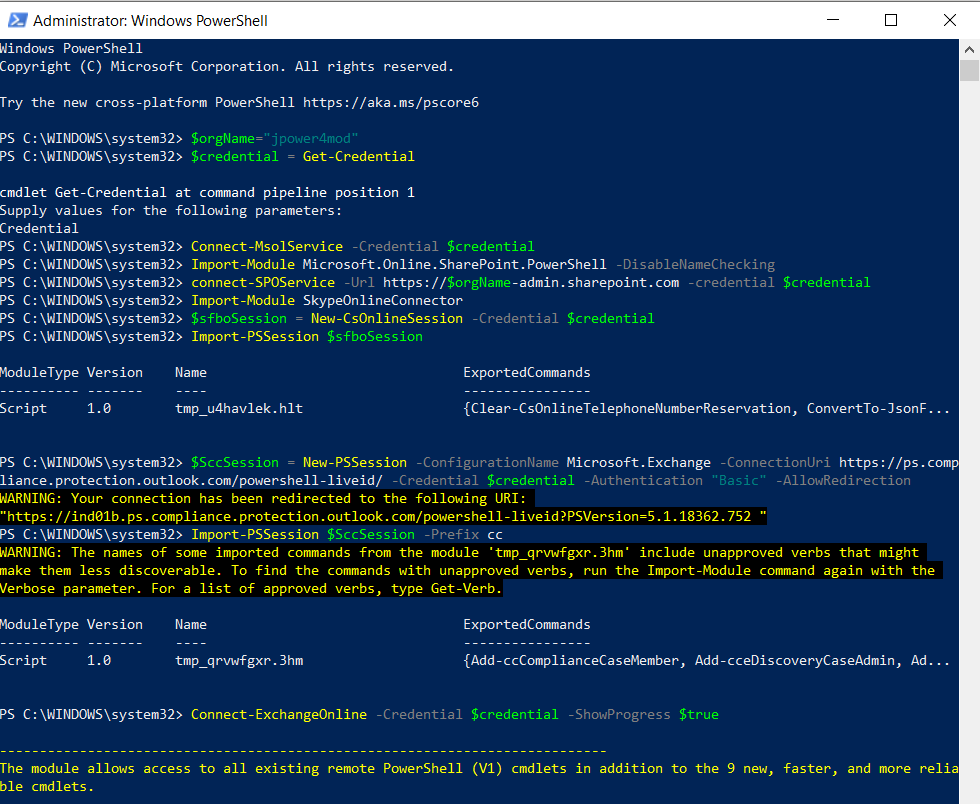
Remove-PSSession $sfboSession ; Remove-PSSession $SccSession ; Disconnect-SPOService ; Disconnect-MicrosoftTeams

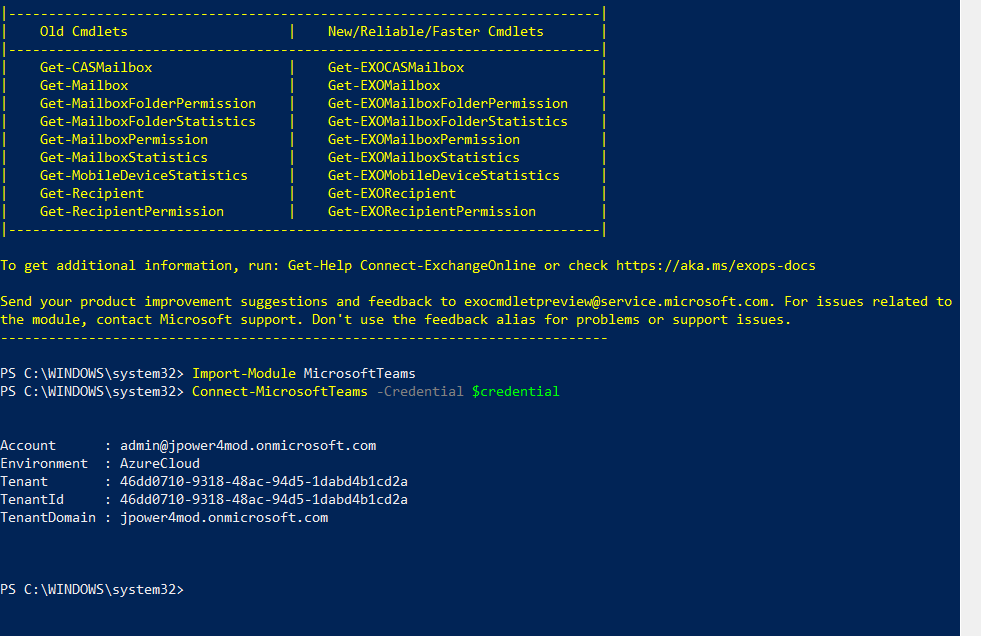
Step 2





Alternative option Msol image below





Leave(Don’t close) the PowerShell window for next exercise.

**Note**:

If any issues like below

Import-Module -Name Microsoft.Online.SharePoint.PowerShell                   
Import-Module : Could not load type  
'Microsoft.SharePoint.Administration.DesignPackageType' from assembly  
'Microsoft.SharePoint.Client, Version=16.0.0.0, Culture=neutral,  
PublicKeyToken=71e9bce111e9429c'.  
At line:1 char:1  
+ Import-Module -Name Microsoft.Online.SharePoint.PowerShell  
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  
    + CategoryInfo          : NotSpecified: (:) [Import-Module], TypeLoadException  
    + FullyQualifiedErrorId : System.TypeLoadException,Microsoft.PowerShell.Command  
   s.ImportModuleCommand

**Solution:**  
This is due to DLL Version mismatch. To resolve the issue, follow these steps:

1. Uninstall SharePoint Online Management Shell and SharePoint Online Client SDK if installed.
2. Delete SharePoint Online Client Assemblies from: **C:\Windows\Microsoft.NET\assembly\GAC\_MSIL**, Remove all Folders starting with name: Microsoft.SharePoint\*
3. Uninstall the module with "Uninstall-Module -Name Microsoft.Online.SharePoint.PowerShell" and reinstall the module "Install-Module -Name Microsoft.Online.SharePoint.PowerShell"