

Connecting to Office 365



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Overview



Connect to Azure Active Directory

Connect to SharePoint Online

Connect to Office 365 using SharePoint /
Office 365 Dev PnP PowerShell Cmdlets

Connect to Exchange Online

Connect to the Office 365 Security
Compliance Center

Connect to Skype for Business Online

Connect to Microsoft Teams



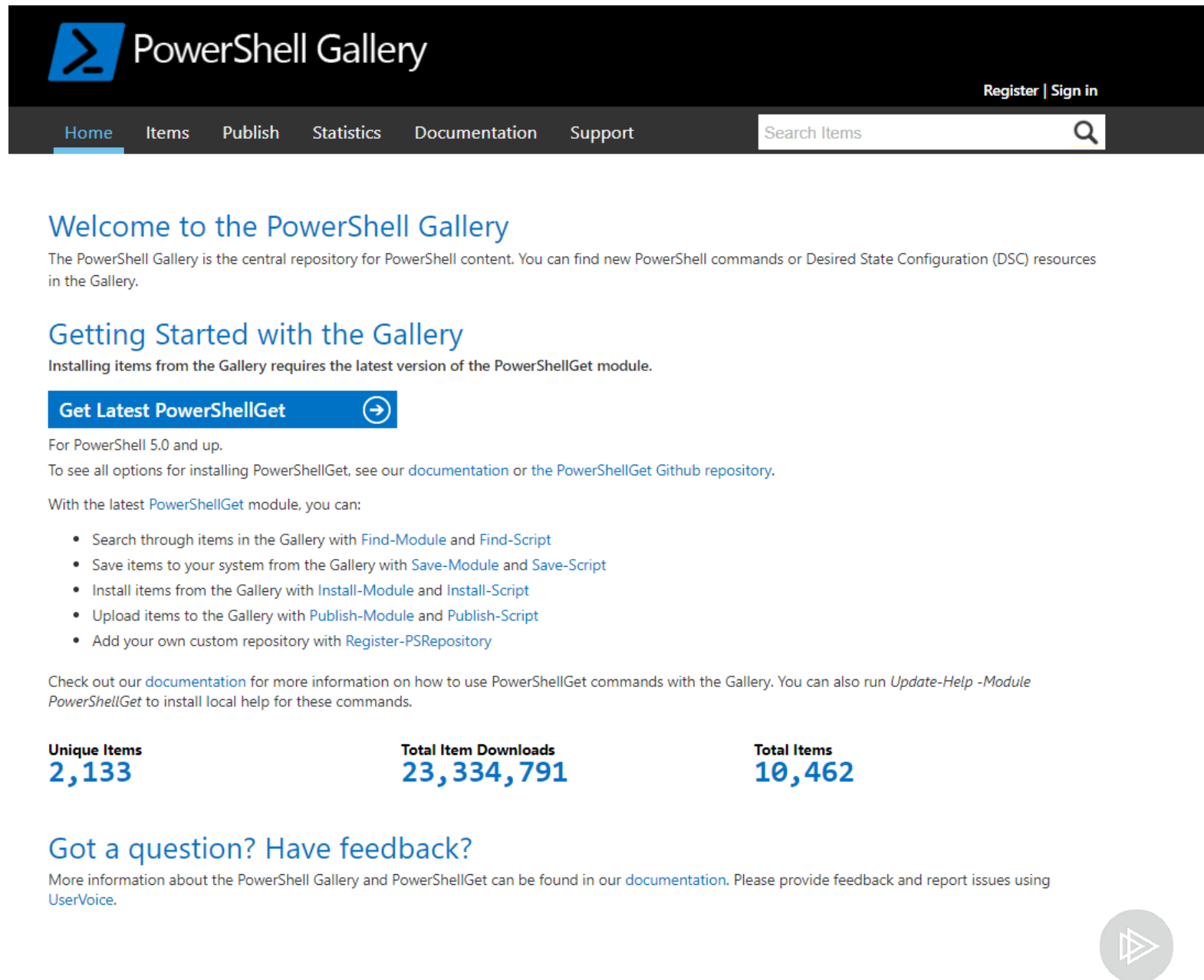
Connect to Azure Active Directory



The Azure Active Directory module is hosted on the PowerShell Gallery

The PowerShell Gallery is the central repository for PowerShell content from Microsoft

To download modules, you need PowerShellGet



The screenshot shows the PowerShell Gallery website. At the top is a dark navigation bar with the PowerShell Gallery logo and text on the left, and 'Register | Sign in' on the right. Below this is a lighter navigation bar with links for Home, Items, Publish, Statistics, Documentation, and Support. A search bar labeled 'Search Items' is on the right. The main content area has a blue heading 'Welcome to the PowerShell Gallery' followed by a paragraph explaining the gallery's purpose. Below that is another blue heading 'Getting Started with the Gallery' and a paragraph about installing PowerShellGet. A prominent blue button labeled 'Get Latest PowerShellGet' with a right arrow icon is shown. Below the button, text explains the requirements for PowerShell 5.0 and up, and provides links to documentation and the PowerShellGet GitHub repository. A bulleted list of actions possible with the PowerShellGet module is provided. At the bottom, there are three statistics: Unique Items (2,133), Total Item Downloads (23,334,791), and Total Items (10,462). A final blue heading 'Got a question? Have feedback?' is followed by a paragraph about finding more information and providing feedback.

PowerShell Gallery Register | Sign in

Home Items Publish Statistics Documentation Support Search Items

Welcome to the PowerShell Gallery

The PowerShell Gallery is the central repository for PowerShell content. You can find new PowerShell commands or Desired State Configuration (DSC) resources in the Gallery.

Getting Started with the Gallery

Installing items from the Gallery requires the latest version of the PowerShellGet module.

Get Latest PowerShellGet →

For PowerShell 5.0 and up.

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With the latest [PowerShellGet](#) module, you can:

- Search through items in the Gallery with [Find-Module](#) and [Find-Script](#)
- Save items to your system from the Gallery with [Save-Module](#) and [Save-Script](#)
- Install items from the Gallery with [Install-Module](#) and [Install-Script](#)
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Check out our [documentation](#) for more information on how to use PowerShellGet commands with the Gallery. You can also run `Update-Help -Module PowerShellGet` to install local help for these commands.

Unique Items	Total Item Downloads	Total Items
2,133	23,334,791	10,462

Got a question? Have feedback?

More information about the PowerShell Gallery and PowerShellGet can be found in our [documentation](#). Please provide feedback and report issues using [UserVoice](#).

Minimum Requirements

PowerShellGet

PowerShellGet is included with:

- Windows 10 or newer
- Windows Server 2016 or newer
- Windows Management Framework (WMF) 5.0 or newer
- PowerShell 6



Minimum Requirements

PowerShellGet

If you have an older version of Windows / PowerShell

- Download the PackageManagement MSI
 - <https://www.microsoft.com/en-us/download/details.aspx?id=51451>



Installing the Module

```
Install-Module -Name AzureAD
```



169,268
Downloads

115,423
Downloads of 2.0.0.131

2017-07-10
Last published

[Project Site](#)
[License](#)
[Contact Owners](#)
[Report Abuse](#)
[How to Download](#)
[Module Statistics](#)

Azure Active Directory PowerShell for Graph - General Availability Release 2.0.0.131

Azure Active Directory PowerShell for Graph General Availability Module.

This is the General Availability release of Azure Active Directory PowerShell for Graph Module.

For detailed information on how to install and run this module from the PowerShell Gallery including prerequisites, please refer to <https://msdn.microsoft.com/powershell/gallery/readme>

Inspect

```
PS> Save-Module -Name AzureAD -Path <path>
```

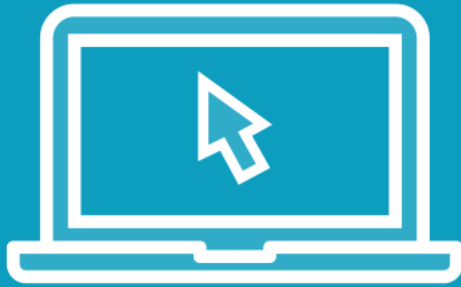
Install

```
PS> Install-Module -Name AzureAD
```

Deploy



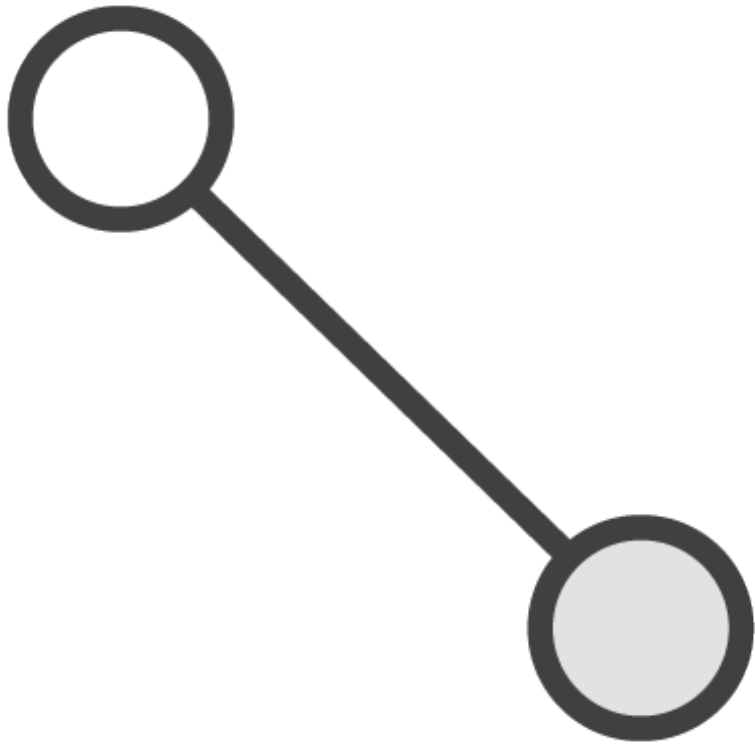
Demo



Downloading the AzureAD PowerShell Module



Connecting to Azure Active Directory



Global administrator role in Azure AD



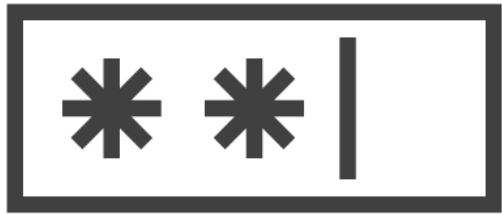
Connecting to Azure Active Directory

```
$cred = Get-Credential
```

```
Connect-AzureAD -Credential $cred
```



Connecting to Azure Active Directory with MFA



Different steps if you have Multi Factor Authentication (MFA) enabled

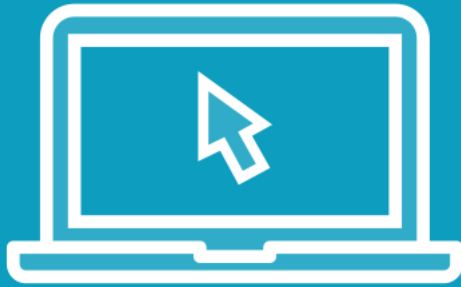


Connecting to Azure Active Directory with MFA

Connect-AzureAD



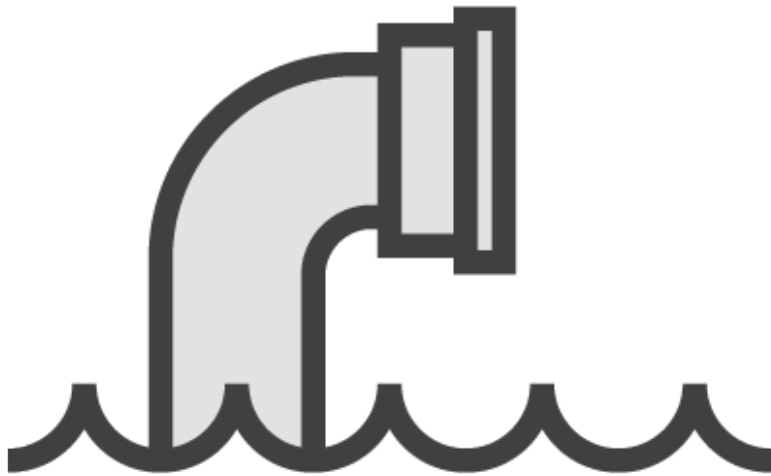
Demo



Connecting to Azure Active Directory
with PowerShell

Connecting to Azure Active Directory
with PowerShell with MFA Enabled





Azure AD PowerShell Module

- Stable, production release

Azure AD PowerShell Module – Public Preview

- Latest features, not always well documented
- Subject to change before getting in the production release



Installing the Module

```
Install-Module -Name AzureADPreview
```



116,374

Downloads

49,760

Downloads of 2.0.0.137

2017-08-06

Last published

[Project Site](#)

[License](#)

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[How to Download](#)

[Module Statistics](#)

Azure Active Directory PowerShell for Graph - Public Preview Release 2.0.0.137

Azure Active Directory PowerShell for Graph Preview Module.

This is a Public Preview release of Azure Active Directory PowerShell for Graph Module.

For detailed information on how to install and run this module from the PowerShell Gallery including prerequisites, please refer to <https://msdn.microsoft.com/powershell/gallery/readme>

Inspect

```
PS> Save-Module -Name AzureADPreview -Path <path>
```

Install

```
PS> Install-Module -Name AzureADPreview
```

Deploy



Deploy to Azure Automation



Connect to SharePoint Online



The SharePoint Online module is hosted on the Microsoft Download Center

<https://www.microsoft.com/en-ca/download/details.aspx?id=35588>

SharePoint Online Management Shell

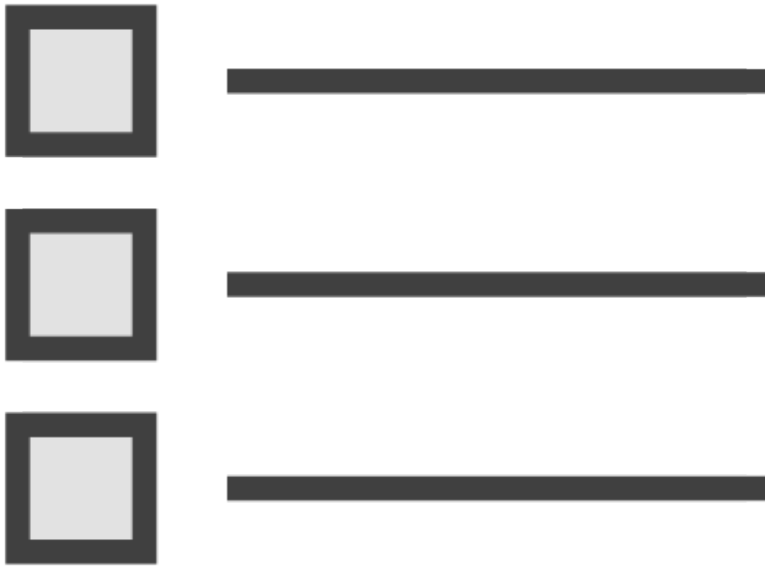
Select Language: ▼ [Download](#)

The SharePoint Online Management Shell is a tool that contains a Windows PowerShell Module to manage your SharePoint Online subscription in the Office 365.

- [+ Details](#)
- [+ System Requirements](#)
- [+ Install Instructions](#)



Requirements



SharePoint Online Administrator

URL of SharePoint Online Admin Center

- <https://<org name>-admin.sharepoint.com>



Connecting to SharePoint Online

```
#Get Connection Credential
```

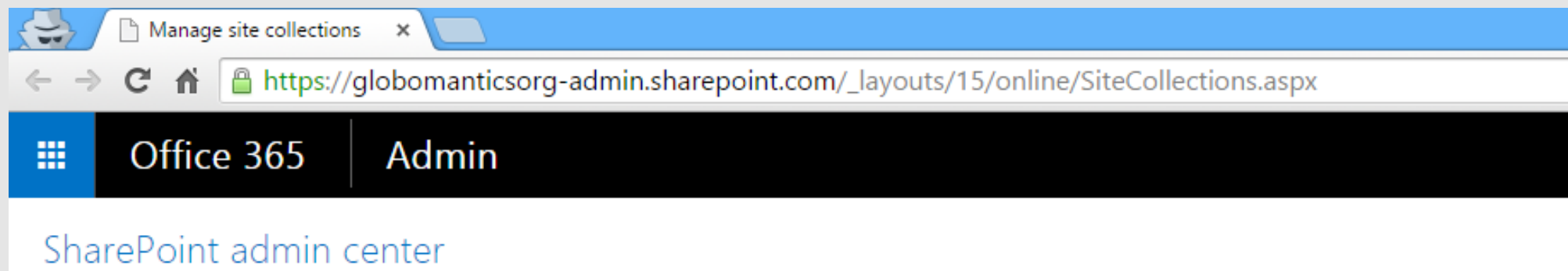
```
$cred = get-credential
```

```
#Establish Connection
```

```
Connect-SPService
```

```
-Url https://<SP Admin Center>.sharepoint.com
```

```
-credential $cred
```



Connecting to SharePoint Online with MFA

#Establish Connection

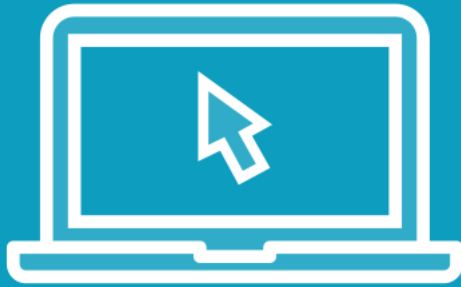
Connect-SPService

-Url https://<SP Admin Center>.sharepoint.com

#Follow the instructions in the Microsoft SharePoint Online Management Shell dialog box to provide the additional authentication information.



Demo



Getting the SharePoint Online PowerShell Module

Connecting to SharePoint Online with PowerShell

Connecting to SharePoint Online with PowerShell with MFA Enabled



Connecting to Office365 using SharePoint / Office 365 Dev PnP PowerShell Cmdlets





Open source initiative coordinated by
SharePoint engineering

Contains multiple best-practices samples

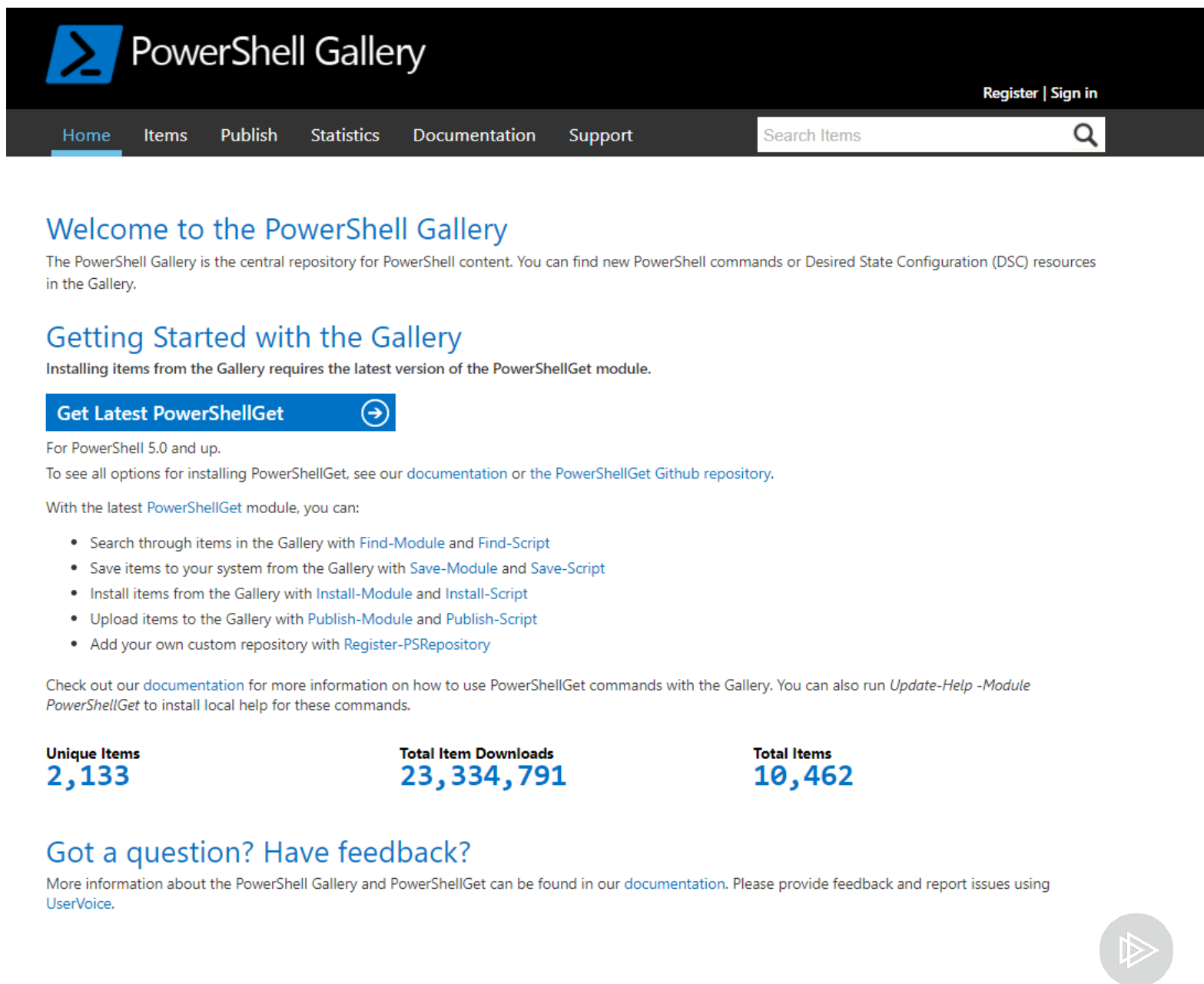
One of them is the SharePoint / Office 365
Dev PnP PowerShell Cmdlets

- Contains over 250 PowerShell cmdlets
- Can do a lot more than the SharePoint Online PowerShell Module



The SharePoint /
Office 365 Dev PnP
PowerShell module is
hosted on the
PowerShell Gallery

Same prerequisites as
the AzureAD
PowerShell module
seen earlier in this
module



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PowerShell Gallery

Register | Sign in

Home Items Publish Statistics Documentation Support Search Items

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Installing the Module

Install-Module -Name SharePointPnPPowerShellOnline



39,362

Downloads

1,282

Downloads of 2.23.1802.0

2018-02-03

Last published

[Project Site](#)

[Contact Owners](#)

[Report Abuse](#)

[How to Download](#)

[Module Statistics](#)



0



0



0

SharePoint Patterns and Practices PowerShell Cmdlets for SharePoint Online 2.23.1802.0

SharePoint Patterns and Practices PowerShell Cmdlets for SharePoint Online

Inspect

```
PS> Save-Module -Name SharePointPnPPowerShellOnline -Path <path>
```

Install

```
PS> Install-Module -Name SharePointPnPPowerShellOnline
```

Deploy



See [Documentation](#) for more details.

Owners



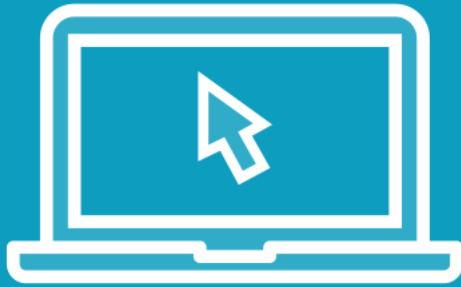
erwinvanhunen



sharepointpnp



Demo



Downloading the SharePoint / Office 365
Dev PnP PowerShell Module



Connecting to SharePoint Online using the PnP Module



SharePoint Online Admin

Site Collection Admin to only manage a select site collection

URL of a site collection in your tenant / SPO Admin Center



Connecting to SharePoint Online using the PnP Module

```
$cred = Get-Credential
```

```
Connect-PnPOnline
```

```
-Url https://yoursite.sharepoint.com
```

```
-Credentials $cred
```



Connecting to SharePoint Online using the PnP Module with MFA

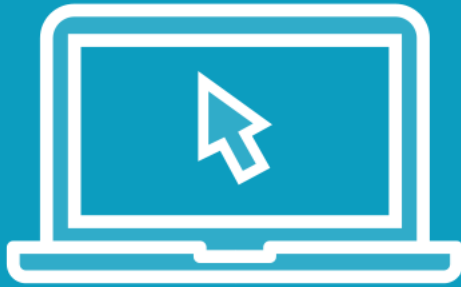
Connect-PnPOnline

-Url https://yoursite.sharepoint.com

-UseWebLogin



Demo



Connect to SharePoint Online using the
PnP



Connect to Exchange Online



Requirements



Exchange Online Admin



Connecting to Exchange Online

```
#Get Connection Credential
```

```
$cred = get-credential
```

```
#Establish Connection
```

```
$Session = New-PSSession
```

```
-ConfigurationName Microsoft.Exchange
```

```
-ConnectionUri https://outlook.office365.com/powershell-liveid/
```

```
-Credential $cred
```

```
-Authentication Basic
```

```
-AllowRedirection
```

```
#Add remote Session into current session
```

```
Import-PSSession $Session
```





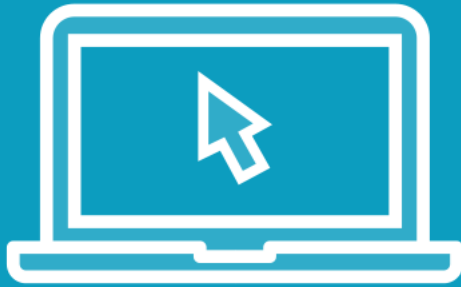
Office 365 operated by 21Vianet (China)

- ConnectionUri:
<https://partner.outlook.cn/PowerShell>

Office 365 Germany

- ConnectionUri
<https://outlook.office.de/powershell-liveid/>

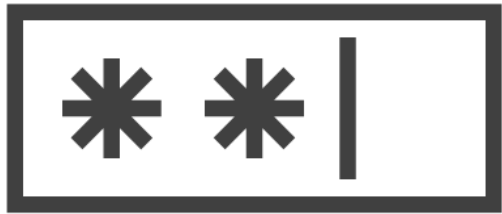
Demo



Connecting to Exchange Online with PowerShell



Connecting to Exchange Online with MFA



Different steps if you have Multi Factor Authentication (MFA) enabled



You need to download
the Exchange Online
PowerShell Module

The screenshot shows the Exchange admin center interface. At the top, there is a navigation bar with the Office 365 logo, the word 'Admin', and a user profile for 'Vlad Admin'. Below the navigation bar, the 'Exchange admin center' title is displayed. On the left side, there is a sidebar menu with various options: dashboard, recipients, permissions, compliance management, organization, protection, advanced threats, mail flow, mobile, public folders, unified messaging, and hybrid. The 'hybrid' option is currently selected and highlighted. The main content area shows the 'setup' page for Exchange hybrid deployment. It includes a description: 'An Exchange hybrid deployment allows you to connect and manage both your on-premises and Exchange Online organizations.' followed by a 'Learn more' link. Below this, there is a 'configure' button. A red rectangular box highlights a message that reads: 'The Exchange Online PowerShell Module supports multi-factor authentication. Download the module to manage Exchange Online more securely.' followed by another 'Learn more' link and a 'configure' button. At the bottom right of the interface, there are two buttons: 'Need help?' and 'Feedback'.

Office 365 | Admin

Vlad Admin

Exchange admin center

- dashboard
- recipients
- permissions
- compliance management
- organization
- protection
- advanced threats
- mail flow
- mobile
- public folders
- unified messaging
- hybrid**

setup

An Exchange hybrid deployment allows you to connect and manage both your on-premises and Exchange Online organizations. [Learn more](#)

[configure](#)

The Exchange Online PowerShell Module supports multi-factor authentication. Download the module to manage Exchange Online more securely. [Learn more](#)

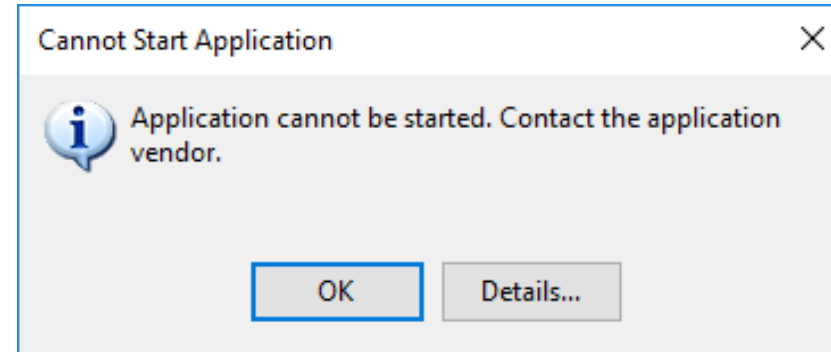
[configure](#)

[Need help?](#) [Feedback](#)



And you need to be
using Internet
Explorer

Chrome or other
browsers will throw
out an error



Connecting to Exchange Online with MFA

```
Connect-EXOPSSession -UserPrincipalName vlad@globomantics.org
```



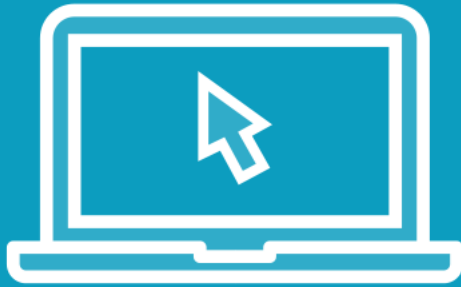
Connecting to Exchange Online **Germany** with MFA

Connect-EXOPSSession

- **UserPrincipalName** vlad@globomantics.org
- **ConnectionUri** <https://outlook.office.de/PowerShell-LiveID>
- **AzureADAuthorizationEndPointUri** <https://login.microsoftonline.de/common>



Demo



Connecting to Exchange Online with
PowerShell with MFA enabled



Connect to the Office 365 Security and Compliance Center



Requirements



Permissions to access the Office 365 Security & Compliance Center

- Global Admin
- Organization management role

Connecting to the Office 365 Security and Compliance Center

```
#Get Connection Credential
```

```
$cred = get-credential
```

```
#Establish Connection
```

```
$Session = New-PSSession
```

```
-ConfigurationName Microsoft.Exchange
```

```
-ConnectionUri https://ps.compliance.protection.outlook.com/powershell-liveid/
```

```
-Credential $cred
```

```
-Authentication Basic
```

```
-AllowRedirection
```

```
#Add remote Session into current session
```

```
Import-PSSession $Session
```

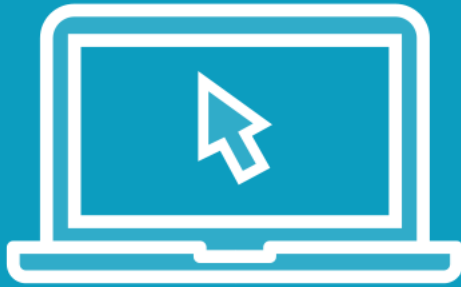




Office 365 Germany

- ConnectionUri
<https://ps.compliance.protection.outlook.de/powershell-liveid/>

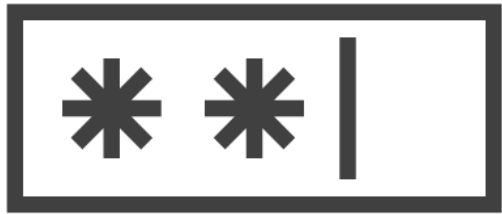
Demo



Connecting to the Office 365 Security and Compliance Center



Connecting to Office 365 Security and Compliance Center with MFA



Different steps if you have Multi Factor Authentication (MFA) enabled



Requires the same module as the Exchange Online with MFA

The screenshot displays the Exchange admin center interface. At the top, a dark navigation bar contains the Office 365 logo, the text 'Office 365 | Admin', and user information 'Vlad Admin' with a profile icon. Below this, the 'Exchange admin center' title is visible. A left-hand navigation pane lists various administrative areas: dashboard, recipients, permissions, compliance management, organization, protection, advanced threats, mail flow, mobile, public folders, unified messaging, and 'hybrid'. The 'hybrid' option is currently selected and highlighted. The main content area is titled 'setup' and contains a description of Exchange hybrid deployment. Below the description, there are two 'configure' buttons. The second 'configure' button is enclosed in a red rectangular box, highlighting it as the required step. At the bottom right of the interface, there are two buttons: 'Need help?' and 'Feedback'.

Office 365 | Admin

Vlad Admin

Exchange admin center

- dashboard
- recipients
- permissions
- compliance management
- organization
- protection
- advanced threats
- mail flow
- mobile
- public folders
- unified messaging
- hybrid**

setup

An Exchange hybrid deployment allows you to connect and manage both your on-premises and Exchange Online organizations. [Learn more](#)

configure

The Exchange Online PowerShell Module supports multi-factor authentication. Download the module to manage Exchange Online more securely. [Learn more](#)

configure

[Need help?](#) [Feedback](#)



Connecting to the Office 365 Security and Compliance Center with MFA

```
Connect-IPPSSession -UserPrincipalName vlad@globomantics.org
```



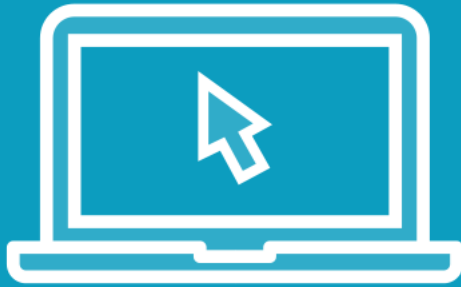
Connecting to the Office 365 Security and Compliance Center **Germany** with MFA

Connect-IPPSSession

```
-UserPrincipalName vlad@globomantics.org  
-ConnectionUri https://ps.compliance.protection.outlook.de/PowerShell-LiveID  
-AzureADAuthorizationEndPointUri https://login.microsoftonline.de/common
```



Demo



Connecting to the Office 365 Security
and Compliance Center with MFA



Connect to Skype for Business Online



The Skype for Business Online module is hosted on the Microsoft Download Center

<https://www.microsoft.com/en-us/download/details.aspx?id=39366>

Skype for Business Online, Windows PowerShell Module

Download

Module that allows use of Windows PowerShell to manage Skype for Business Online deployments

- + Details
- + System Requirements
- + Install Instructions



Requirements



Skype for Business Online Admin



Connecting to Skype For Business Online

```
#Get Connection Credential
```

```
$cred = get-credential
```

```
#Establish Connection
```

```
$Session = New-CsOnlineSession -Credential $cred
```

```
#Add remote Session into current session
```

```
Import-PSSession $Session
```

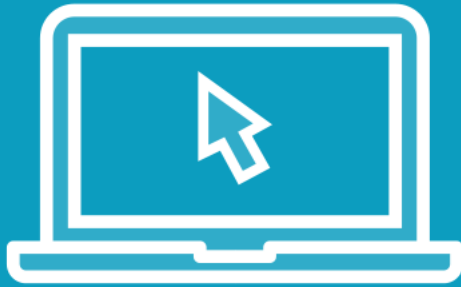


Connecting to Skype For Business Online With MFA Enabled

```
$Session = New-CsOnlineSession -UserName vlad@Globomantics.org  
Import-PSSession $Session
```



Demo



Installing the Skype for Business Online Module

Connecting to Skype for Business Online

Connecting to Skype for Business Online with MFA Enabled




Connect to Microsoft Teams



The Microsoft Teams
module is hosted on
the PowerShell
Gallery

Same Prerequisites as
the AzureAD
PowerShell module
seen earlier in this
module

 PowerShell Gallery

Register | Sign in

HomeItemsPublishStatisticsDocumentationSupport

Search Items

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- Upload items to the Gallery with [Publish-Module](#) and [Publish-Script](#)
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Unique Items
2,133

Total Item Downloads
23,334,791

Total Items
10,462

Got a question? Have feedback?

More information about the PowerShell Gallery and PowerShellGet can be found in our [documentation](#). Please provide feedback and report issues using [UserVoice](#).

Installing the Module

Install-Module -Name MicrosoftTeams

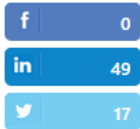


6,285
Downloads

3,259
Downloads of 0.9.1

2017-12-05
Last published

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[Report Abuse](#)
[How to Download](#)
[Module Statistics](#)



MicrosoftTeams 0.9.1

Teams provisioning cmdlets beta

Inspect

```
PS> Save-Module -Name MicrosoftTeams -Path <path>
```

Install

```
PS> Install-Module -Name MicrosoftTeams
```

Deploy



See [Documentation](#) for more details.

Release Notes

Added:
Create a team leveraging an existing group

Fixed:
New-Team and Get-Team sporadic errors

Owners



Authors
Microsoft Corporation



Connecting to Microsoft Teams

```
$cred = Get-Credential
```

```
Connect-MicrosoftTeams -Credential $cred
```

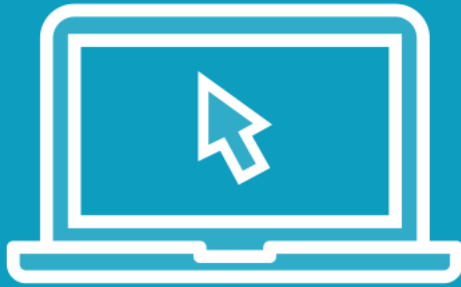


Connecting to Microsoft Teams with MFA enabled

Connect-MicrosoftTeams -AccountId vlad@globomantics.org



Demo



Getting the Microsoft Teams PowerShell Module

Connecting to Microsoft Teams

Connecting to Microsoft Teams with MFA Enabled



Conclusion



Connect to Azure Active Directory

Connect to SharePoint Online

Connect to Office 365 using SharePoint /
Office 365 Dev PnP PowerShell Cmdlets

Connect to Exchange Online

Connect to the Office 365 Compliance
Center

Connect to Skype for Business Online

Connect to Microsoft Teams

