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# PnP PowerShell Admin Scripts

## Set Item Level Permission

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# Environment Configuration

- Open Windows PowerShell/Windows PowerShell ISE in order to verify that you are able to execute the PowerShell script on the machine.
- Execute below command to make sure that you can execute PowerShell scripts from your machine in the case that is disabled due to security reasons.
  - `Get-ExecutionPolicy`
    - If you get output of above command as `Restricted` in that case, you are not allowed to execute PowerShell scripts on your machine.
- To enable the execution of PowerShell scripts on your machine, execute the below command which will allow you to execute PowerShell scripts on your.
  - `Set-ExecutionPolicy RemoteSigned`

# Installation of PnP PowerShell Module

- What is PnP PowerShell?
  - SharePoint PnP (Patterns and Practices) PowerShell is the library of PowerShell command that allows you to perform complex provisioning and artefact management action towards SharePoint platform. The command will use CSOM and REST APIs call in backend of the PowerShell commands provided by the PnP PowerShell library. PnP PowerShell supports SharePoint Online as well as On Premise environment.
- Based on your target SharePoint version, you must install respective PowerShell module on machine from where you are going to execute the script.
- Please find following commands for different target environment.

SharePoint Environment	PnP Command
SharePoint 2013	<code>Install-Module SharePointPnPPowerShell2013</code>
SharePoint 2016	<code>Install-Module SharePointPnPPowerShell2016</code>
SharePoint 2019	<code>Install-Module SharePointPnPPowerShell2019</code>
SharePoint Online (Office 365)	<code>Install-Module SharePointPnPPowerShellOnline</code>

**Note:** *In order to install the PowerShell library on to your machine, it must be connected to the internet to get it installed.*

**If your machine is not connected to internet you can download offline installer package from [here](#).**

# Set Item Level Permission

- This script allows you to set item level permission for SharePoint list/libraries.
- In this package, you will get 2 files and its usage is as below:
  - PnP\_SetItemLevelPermission.ps1
    - You must update below mentioned 3 configuration parameters in the script file.
      - **\$SiteURL**: Specify the SharePoint Site URL where you would like to set the item level permission.
      - **\$PermissionDetails**: Specify the path of PermissionDetails file that contains the information for the script.
      - **\$LogPath**: Specify the path of the file where you would like to export the log of the script execution.

```
### START: Configuration Parameters ###
$SiteURL = "https://xxx.sharepoint.com"
$PermissionDetails = "D:\Scripts\ExportListData\PermissionDetails.csv"
$logPath = "D:\Scripts\ExportListData\Log.txt"
### END: Configuration Parameters ###
```

- PermissionDetails.csv
  - You must fill this CSV file in order to set item level permission on desired items in lists/libraries.

ListTitle	ItemId	ClearExisting	Role	UserEmail	Principal	Permission
Documents	189	Yes	Add	Team Site Members	SPGroup	Contribute
Documents	189	No	Add	user1@contoso.com	User	Read
Documents	189	No	Add	Team Site Owners	SPGroup	Full Control
Documents	189	No	Add	user2@contoso.com	User	Full Control

- **ListTitle**: Specify the list/library title in which you would like to set the item level permissions.
- **ItemId**: Specify the item id on which you would like to set the item level permission.
- **ClearExisting**: Specify the value as Yes, if you would like to break permission inheritance and clear existing permissions from the item.
- **Role**: This field expects value as either Add or Remove

- *Add*: Specify value as Add, if you would like to grant the permission.
- *Remove*: Specify value as Remove, if you would like to revoke the permission.
- **UserEmail**: Specify the user email address or SP Group name which you would like to add/remove permission from the item.
- **Principal**: It expects value as either User or SPGroup.
  - *User*: Specify value as User in case you mentioned user email address in UserEmail field.
  - *SPGroup*: Specify value as SPGroup in case you mentioned SharePoint group name in UserEmail field.
- **Permission**: Specify the Permission level which you would like to grant/revoke to the specified user.

# SUPPORT AND CONTACT INFORMATION

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