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# PnP PowerShell Admin Scripts Generate Site Collection Permission Report

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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](#).**

# Generate Site Collection Permission Report

- This script allows you to generate a site collection permissions report for all the sites, subsites, lists, libraries including item level permissions.
- It will also allow you the flexibility to choose scan and prepare the permission report in recursive, item level and including items inheriting permissions from it's parent in the exported report file.
- In this package, you will get 1 file:
  - PnP\_GetSiteCollectionPermissionReport.ps1
    - You must update 2 configuration parameters in this file. They are listed as below:
      - **SiteURL:** Specify the site collection URL which permission you would like to scan and export.
      - **ReportFile:** Specify the path where site collection permission will be exported.

```
### START: Configuration Parameters ###
$SiteURL="https://cirrussoft.sharepoint.com"
$ReportFile="D:\Scripts\GenerateSiteCollectionPermissionReport\SitePermissionReport.csv"
### END: Configuration Parameters ###
```

- There are 2 different commands you can use to generate the permission report for site collection. They are listed as below:

```
#Call the function to generate permission report
#Generate-PnPSitePermissionReport -SiteURL $SiteURL -ReportFile $ReportFile -Recursive
Generate-PnPSitePermissionReport -SiteURL $SiteURL -ReportFile $ReportFile -Recursive -ScanItemLevel -IncludeInheritedPermissions
```

- `Generate-PnPSitePermissionReport -SiteURL $SiteURL -ReportFile $ReportFile -Recursive`
  - Above command will generate the site collection permission report recursively for all subsites, lists and libraries. It won't scan and export item/document level unique permissions and site/lists/libraries which are inheriting permissions from it's parents.
- `Generate-PnPSitePermissionReport -SiteURL $SiteURL -ReportFile $ReportFile -Recursive -ScanItemLevel -IncludeInheritedPermissions`
  - Above command will generate the site collection permission report recursively for all subsites, lists and libraries including item level permissions as well due to -

ScanItemLevel switch. It will also include the sites/lists/libraries/items which is inheriting permissions from their parent objects as well.

# SUPPORT AND CONTACT INFORMATION

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