

PowerShell Quick Reference for Microsoft Teams

[Ver. 1.0.4]

Install Module (PS 5+)

Install-Module MicrosoftTeams -Repository PSGallery

Load Teams PS Module

Import-Module MicrosoftTeams -MinimumVersion 1.0.4

Connect to Microsoft Teams with PowerShell

Connect-MicrosoftTeams

List all Commands for Teams

Get-Command | Where {\$_.Source -eq "MicrosoftTeams"}

List All Teams

Get-Team

Find Single Team

Get-Team | where {\$_.DisplayName -eq 'IT Department'}

Create Team

New-Team -MailNickName 'Marketing' -DisplayName 'Marketing' -Visibility 'Private'

Remove a Team

Remove-Team -GroupId '503b7c56-b15d-4b4c-8cca-09103984b2bb'

Modify a Team

Set-Team -GroupId '7a4fab2f-6a22-46d0-826b-a167fdc03892' -Visibility 'Public'

Complete Cmdlet List

Add-TeamUser
Connect-MicrosoftTeams
Disconnect-MicrosoftTeams
Get-CsPolicyPackage
Get-CsUserPolicyPackage
Get-
CsUserPolicyPackageRecommendation
Get-Team
Get-TeamChannel
Get-TeamHelp
Get-TeamsApp
Get-TeamUser
Grant-CsUserPolicyPackage
New-Team
New-TeamChannel
New-TeamsApp
Remove-Team
Remove-TeamChannel
Remove-TeamsApp
Remove-TeamUser
Set-Team
Set-TeamArchivedState
Set-TeamChannel
Set-TeamsApp

Get-Help

Get-Help <command>
Get-Help <command> -Examples
Get-Help <command> -Full

Examples

Get-Help New-Team
Get-Help New-Team -Examples
Get-Help New-Team -Full

Create New Microsoft Team

New-Team -DisplayName "Marketing Campaign – Big Corp, Inc."
New-Team -DisplayName "Project Rebuild" -Description "First project of 2020 (HR)"
New-Team -DisplayName "New Test Group" -ShowInTeamsSearchAndSuggestions \$False

Creating New TeamChannel (**)

New-TeamChannel -GroupId 933fe926-555a-4832-87d1-8f700736e003 -DisplayName "Campaign Channel"
New-TeamChannel -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -DisplayName "Internal Sales"
*** GroupId is from the ID of an existing Team. To see the ID's, run Get-Team*

PowerShell Gallery: <https://www.powershellgallery.com/packages/MicrosoftTeams/>

Documentation: <https://docs.microsoft.com/en-us/powershell/module/teams/>

Configuring Team Settings

Set-Team -GroupId d36f235f-d30e-4460-98a2-5728b906bfd -GiphyContentRating Strict -AllowStickersAndMemes \$False -AllowCustomMemes \$False
Set-Team -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -AllowCreateUpdateChannels \$True
Set-Team -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -AllowUserDeleteMessages \$False
Set-Team -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -ShowInTeamsSearchAndSuggestions \$False
Set-TeamChannel -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -CurrentDisplayName "Internal Sales" -Description "Sales Channel"

Verify Settings

Get-Team
Get-TeamChannel
Get-TeamsApp
Get-TeamUser

** Use '|ft' or '|fl' to format your results. **

Microsoft Teams Cleanup

Remove-Team -GroupId '933fe926-555a-4832-87d1-8f700736e003'
Remove-TeamChannel -GroupId cfd8a387-1319-4f6b-a883-8700046f07e7 -DisplayName "Internal Sales"
Remove-TeamUser -GroupId '933fe926-555a-4832-87d1-8f700736e003' -User <UPN>

Cmdlet Notes

Get-Team has no 'GroupId' parameter. In order to get an individual group, use something like this:

Get-Team | Where {\$_.GroupId -eq '933fe926-555a-4832-87d1-8f700736e003'}

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Simple Microsoft Teams Scenario

Connect to Teams PowerShell in your O365 tenant

```
Connect-MicrosoftTeams -AccountId Admin@ThisIsYourDomain.Com
```

Create new Microsoft Team

```
$Team = New-Team -MailNickName "ProjectX" -DisplayName "ProjectX" -Visibility "Private" -Description "Project X: Experimental Project"
```

Add Team Channels

```
New-TeamChannel -GroupId $Team.GroupId -DisplayName "Production"
```

Add Team members

```
Add-TeamUser -GroupId $Team.GroupId -User "JohnSmith@ThisIsYourDomain.Com"
```

Change the default fun settings for the team

```
Set-Team -GroupId $Team.GroupId -GiphyContentRating Strict -AllowStickersAndMemes $False -AllowCustomMemes $False
```

Set a Team, if private, is searchable

```
Set-TeamPicture -GroupId $Team.GroupId -ShowInTeamsSearchAndSuggestions $True
```

Complex Microsoft Teams Scenario

Connect to Teams PowerShell in your O365 tenant

```
Connect-MicrosoftTeams -AccountId Admin@ThisIsYourDomain.Com
```

Create new Microsoft Team

```
$Marketing = New-Team -MailNickName "ProjectCodeX" -DisplayName "ProjectCodeX" -AccessType "Public" -Description "Marketing Dept. Team"
```

```
$SalesTeam = New-Team -MailNickName "Sales" -DisplayName "Sales" -Visibility "Private" -Description "Sales Dept. Team"
```

```
$ITTeam = New-Team -MailNickName "ITDept" -DisplayName "IT Dept." -Visibility "Private" -Description "IT Dept. Collaboration"
```

```
$ManagementTeam = New-Team -MailNickName "Management" -DisplayName "Management" -Visibility "Private" -Description "Management Team"
```

Add Team Channels

```
New-TeamChannel -GroupId $Marketing.GroupId -DisplayName "2018 Campaign"
```

```
New-TeamChannel -GroupId $SalesTeam.GroupId -DisplayName "Midwest US Region"
```

```
New-TeamChannel -GroupId $SalesTeam.GroupId -DisplayName "West Coast US Region"
```

```
New-TeamChannel -GroupId $SalesTeam.GroupId -DisplayName "East US Region"
```

```
New-TeamChannel -GroupId $ITTeam.GroupId -DisplayName "End User Support"
```

```
New-TeamChannel -GroupId $ManagementTeam.GroupId -DisplayName "Annual Planning"
```

Add Team members

```
$MsolUsers = Get-MsolUser -all
```

```
Foreach ($MsolUser in $MsolUsers) {
```

```
    $Department = $MsolUser.Department
```

```
    $Email = $MsolUser.PrimarySMTPAddress
```

```
    If ($Department -eq 'Marketing') {Add-TeamUser -GroupId $MarketingTeam.GroupId -User $Email}
```

```
    If ($Department -eq 'Sales') {Add-TeamUser -GroupId $SalesTeam.GroupId -User $Email}
```

```
    If ($Department -eq 'IT') {Add-TeamUser -GroupId $ITTeam.GroupId -User $Email}
```

```
    If ($Department -eq 'Management') {Add-TeamUser -GroupId $ManagementTeam.GroupId -User $Email}
```

```
}
```

Change the default fun settings for the team

```
Set-Team -GroupId $MarketingTeam.GroupId -AllowStickersAndMemes $True -AllowCustomMemes $True
```

```
Set-Team -GroupId $SalesTeam.GroupId -AllowStickersAndMemes $True -AllowCustomMemes $True
```

```
Set-Team -GroupId $ITTeam.GroupId -GiphyContentRating Strict -AllowStickersAndMemes $False -AllowCustomMemes $False
```

```
Set-Team -GroupId $ManagementTeam.GroupId -GiphyContentRating Strict -AllowStickersAndMemes $False -AllowCustomMemes $False
```

Set a Team, if private, is searchable

```
Set-Team -GroupId d36f235f-d30e-4460-98a2-5728b906fbfd -ShowInTeamsSearchAndSuggestions $True
```

```
Set-Team -GroupId cfdba387-1319-4f6b-a883-8700046f07e7 -ShowInTeamsSearchAndSuggestions $False
```

```
Set-Team -GroupId a4d3425f-98b2-420d-a0a0-7c3eff32493f -ShowInTeamsSearchAndSuggestions $True
```

```
Set-Team -GroupId 933fe926-555a-4832-87d1-8f700736e003 -ShowInTeamsSearchAndSuggestions $False
```

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Helpful Tips

Use tab to autocomplete cmdlets

Tab through parameters to see all available

Check for latest module version

Read the latest Microsoft Docs for Teams

Read Teams MVP blogs for more tips



More On PowerShell

Windows PowerShell Blog

<https://devblogs.microsoft.com/scripting/>

Script Center

technet.microsoft.com/scriptcenter

PowerShell Tips of the Week

www.practicalpowershell.com/blog

PowerShell Team – GitHub

<https://github.com/powershell>