**Create Multiple Security Groups (with owners and members) in Microsoft Entra ID via PowerShell**

# First, create Security Groups With The Desired Name And Description

1. Create a file that contains all the names of the security groups and store them in an array, like the below example.

Example

$groupNames = @("Group ",

"Group 2",

“Group 3”,)

1. After creating the group names file in the above format create a hash map for the description of every group, as shown in the below example.

Example

groupDesc = @{

"Group 1” = "This is group 1"

"Group 2" = "This is group 2"

“Group 3” = “This is group 3”

This will map each description for each group.

1. Now open Azure PowerShell and run the command “Connect-AzureAD”.
2. Then copy and paste the array ( containing the name of the group as shown in step 1)
3. Then copy and paste the hash map ( containing the names and their desired descriptions as shown in step 2)
4. After this run the script below to create the Security Groups

**Script**

foreach ($name in $groupNames){

$desc = $groupDesc[$name]

New-AzureADGroup -DisplayName $name -Description $desc -MailEnabled $false -SecurityEnabled $true -MailNickname "notSet"

}

**Note: you will see the output as each group is created so if you want you can check if the number of groups created is correct**

# Second, Add As Many Owners As You Want In All The Security Groups ( As Required )

1. To add owners in all the groups you must create a text file that contains the UPN ( User Principal Name ) of the owner in one variable and the group names must be stored in a variable where that owner wants to be added . Example given below

**File content**

$userUPN = ‘testuser@domain.com'

$groupNames = “Group 1”,

“Group 2”,

“Group 3”

**Note: you will have to do this for every different owner you want to add so use this method if the owner must be added to many groups, and if there are many owners being added in many groups then repeat the step above for every owner you want to add to the Security Groups.**

1. Open Azure PowerShell and run the command “Connect-AzureAD”.
2. Copy and paste the file content where you have written the owner UPN and the groups he wants to be added to in a variable (format shown in step 1)
3. Now run the script below to add the owner in the groups you wanted.

**Script**

# Get Object ID for owner

$ownerId = (Get-AzureADUser -ObjectId $ownerUPN).ObjectId

# Loop through group names and add owner

foreach ($groupName in $groupNames){

# Get group ID

$groupId = (Get-AzureADGroup -SearchString $groupName).ObjectId

# Add owner

Add-AzureADGroupOwner -ObjectId $groupId -RefObjectId $ownerId

# Print confirmation

Write-Host "Added $ownerUPN as owner to group: $groupName"

}

**Note: you’ll see the output as soon as the owners gets add into a group**

# Third, Add Members, Which Can Include Normal Users And Groups Too

1. Create a normal text file that includes the group name and the desired members you want to add in the group, the format should be as shown below.

**Example**

$groupUsers = @{

"Group 1" = @("Test User 1 ", "Test User 2")

"Group 2" = @("Group 1", "Group 2", "Group 3", "Test User 1")

}

**Note: You can add as many groups and members in as many security groups you want**

1. Now open Azure PowerShell and run the command “Connect-AzureAD”
2. Now run the script below to add the members in the groups

**Script**

foreach ($groupName in $groupUsers.Keys){

$groupId = (Get-AzureADGroup -Filter "DisplayName eq '$groupName'").ObjectId

$members = $groupUsers[$groupName]

foreach ($member in $members){

if (Get-AzureADGroup -Filter "DisplayName eq '$member'") {

# Member is a group

$memberObjectId = (Get-AzureADGroup -Filter "DisplayName eq '$member'").ObjectId

}

else {

# Member is a user

$memberObjectId = (Get-AzureADUser -Filter "DisplayName eq '$member'").ObjectId

}

Write-Output "Adding $member to group $groupName"

Add-AzureADGroupMember -ObjectId $groupId -RefObjectId $memberObjectId

Write-Output "Added $member to group $groupName successfully"

}

}

**Note: You will see the output for each member being added to each group**