

Building PoshCAT Part 2 – Adding your own custom functions

Last week I [showed](#) how you can create different *Client Actions* lists for different support groups in your organization and in this post I will show how you can add/create your own custom functions for PoshCAT

So let's assume that you would like to query applied Computer Group Policy objects. If you want that your custom function returns some kind of information, then it must return PSObject.

Here is the function that I use in this example. This function queries only applied/enabled policies

```
1 Function Get-ComputerAppliedPolicies
2 {
3     $GPOPolicies = @()
4     $GPOQuery = Get-WmiObject -Namespace "ROOT\RSOP\Computer" -Class RSOP_GPLink -
Filter "AppliedOrder <> 0" | ForEach-Object {$_.GPO.ToString().Replace("RSOP_GPO.", "")}
5     foreach($GP in $GPOQuery){
6         $AppliedPolicy = Get-WmiObject -Namespace "ROOT\RSOP\Computer" -Class
RSOP_GPO -Filter $GP
7         $DObject = New-Object PSObject
8         $DObject | Add-Member -MemberType NoteProperty -Name "ComputerName"
-Value $env:ComputerName
9         $DObject | Add-Member -MemberType NoteProperty -Name "Name" -Value
$AppliedPolicy.Name
10        $DObject | Add-Member -MemberType NoteProperty -Name "GuidName" -
Value $AppliedPolicy.GuidName
11        $DObject | Add-Member -MemberType NoteProperty -Name "ID" -Value
$AppliedPolicy.ID
12        $GPOPolicies += $DObject
13    }
14    $GPOPolicies
15 }
```

This function creates the following output

ComputerName	Name	GuidName	ID
CM01	LAB settings	{A13819F6-3ED5-493A-9B19-C3124D09964F}	cn={A13819F6-3ED5-493A-9B19-C3124D09964F}.cn=po.
CM01	Default Domain Policy	{31B2F340-0160-11D2-945F-00C04FB984F9}	CN={31B2F340-0160-11D2-945F-00C04FB984F9}.CN=Po.
CM01	Local Group Policy	Local Group Policy	LocalGPO

To add this function to PoshCAT

1. Open **WorkerFunctions.ps1** file with PowerShell ISE and copy the **Get-ComputerAppliedPolicies** function to custom functions section

```
#####
|
#
# PLACE YOUR CUSTOM FUNCTION HERE
#
#####
```

2. Save the **WorkerFunctions.ps1** file

3. Open **Commands.XML** file and add the following line

```
<Add TASK="Get Computer Applied Group Policies" Component="My Custom Actions" ScriptBlock="Get-ComputerAppliedPolicies" Report="True"/>
```

4. Save the **Commands.XML** file

5. Start PoshCAT

If you have followed all the steps correctly you should see the command in PoshCAT

Client Actions:

- ▼ Client Schedule Actions
- ▼ Client Agent Actions
- ▼ Client Health Actions
- ▼ Software Updates and Endpoint Protection Actions
- ▼ Other Actions
- ▲ My Custom Actions
- Get Computer Applied Group Policies

This custom function creates following output

```
"ComputerName";"Name";"GuidName";"ID";"PSComputerName";"RunspaceId";"PSShowComputerName"
"CM01";"LAB settings";"{A13819F6-3ED5-493A-9B19-C3124D09964F}";"cn={A13819F6-3ED5-493A-9B19-C3124D09964F}";"CM01";"Default Domain Policy";"{31B2F340-016D-11D2-945F-00C04FB984F9}";"CN={31B2F340-016D-11D2-945F-00C04FB984F9}";"CM01";"Local Group Policy";"Local Group Policy";"LocalGPO";"CM01";"92337341-1aa5-4b20-9453-9785b411-000000000000";"DC01";"Default Domain Controllers Policy";"{6AC1786C-016F-11D2-945F-00C04FB984F9}";"CN={6AC1786C-016F-11D2-945F-00C04FB984F9}";"DC01";"LAB settings";"{A13819F6-3ED5-493A-9B19-C3124D09964F}";"cn={A13819F6-3ED5-493A-9B19-C3124D09964F}";"DC01";"Default Domain Policy";"{31B2F340-016D-11D2-945F-00C04FB984F9}";"CN={31B2F340-016D-11D2-945F-00C04FB984F9}";"DC01";"Local Group Policy";"Local Group Policy";"LocalGPO";"DC01";"b0d484c5-b41c-4e87-beee-90575411-000000000000";"PC0002";"LAB settings";"{A13819F6-3ED5-493A-9B19-C3124D09964F}";"cn={A13819F6-3ED5-493A-9B19-C3124D09964F}";"PC0002";"Default Domain Policy";"{31B2F340-016D-11D2-945F-00C04FB984F9}";"CN={31B2F340-016D-11D2-945F-00C04FB984F9}";"PC0002";"Local Group Policy";"Local Group Policy";"LocalGPO";"PC0002";"24cc950d-231a-49dc-b480-4e11-000000000000";
```

Enjoy!