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script for administrator

Powershell **script** to monitor windows servers and populate it into a sharepoint list

LalithGallage, 29 Jul 2015

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This powershell **script** is you to monitor windows servers' free hard disk and populate it to sharepoint custom list.

Introduction

I am sure monitoring windows servers in a regular interval is a painstaking and boring task for **administrator**s. To minimize this tedious task, this **script** will be helping you to ease your life. In this **script** I used Microsoft.SharePoint.PowerShell and Windows Management Instrumentation (WMI) classes.

Background

As a SharePoint **administrator** I had to monitor 5 servers only within the sharepoint farm. In order to check free hard disk space either it is needed to logging to the each server or it is needed to have a 3rd party tool for monitor all the servers remotely. So that with the use of this **script** it is lot easier to monitor all the servers with single SharePoint list.

Using the code

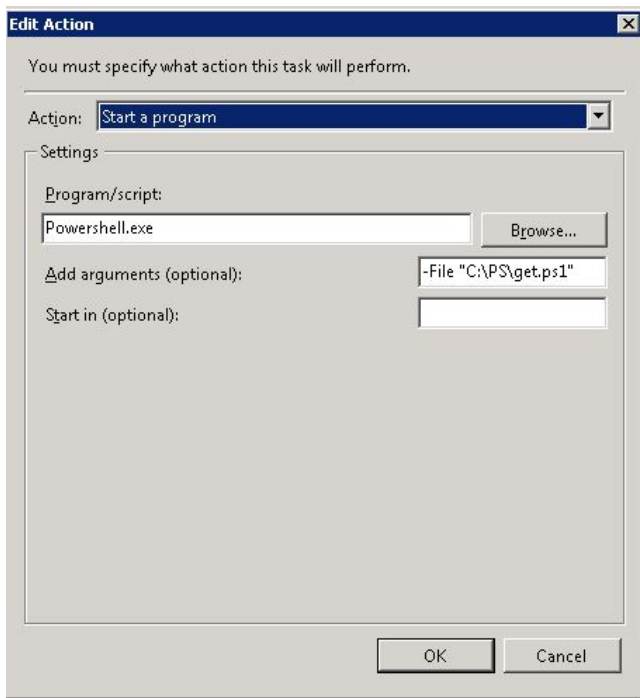Before using this code you must check following factors:

- Since we are using Microsoft.SharePoint.PowerShell module you must run this on a server which have install SharePoint foundation or SharePoint server better you run this on SharePoint server.
- Make sure all the servers firewall allow the traffic about WMI

further, you have to create a sharepoint list as follows.

Column (click to edit)	Type
IP	Single line of text
ServerName	Single line of text
FreeSpace-OS	Number
FreeSpace-Other	Number
Health	Single line of text
Remarks	Single line of text
DateObserve	Date and Time
Created By	Person or Group
Modified By	Person or Group

IP	ServerName	FreeSpace-OS	FreeSpace-Other	Health	Remarks	DateObserve
172.2!	hq-n	146		OK		7/24/2015
	hq-m	110		OK		7/24/2015
172.25.	l ql01	30	621	OK		7/24/2015
17	1oss01	33		OK		7/24/2015
172.25.	L ql01	34	683	OK		7/24/2015

and in order to run this **script** after perticuler time period you can schedule it

```
Edit Action                                                    [X]

You must specify what action this task will perform.

Action:  [Start a program                              ▼]  [▼]

┌ Settings ─────────────────────────────────────────────┐
│                                                        │
│  Program/script:                                       │
│  [Powershell.exe                    ]    [Browse...]   │
│                                                        │
│  Add arguments (optional):         [-File "C:\PS\get.ps1"]│
│                                                        │
│  Start in (optional):              [                  ]│
│                                                        │
│                                                        │
│                                                        │
│                                                        │
│                                                        │
│                                                        │
│                                                        │
│                 [    OK    ]   [   Cancel   ]          │
└────────────────────────────────────────────────────────┘
```

Hide Shrink ▲ Copy Code

```powershell
#Powershell script to server monitoring remotly
#written by Lalith Gallage 07/21/2015
$ServerName = Get-Content "C:\PS\Computers.txt"
$ConvertToGB = (1024 * 1024 * 1024)
#$BeginDate=[System.Management.ManagementDateTimeConverter]::ToDMTFDateTime((get-date).AddDays(-1))
#$filter = "LogFile='application' OR LogFile='system' AND EventType=1 AND TimeWritten>'$BeginDate'"
$spWeb = Get-SPWeb http://sharepointsite/xxx/xxx/
$spList = $spWeb.Lists["listname"]
foreach ($Server in $ServerName) {
    $newItem = $splist.Items.Add()
    $option = $Server -split " "
    $disk = Get-WmiObject Win32_LogicalDisk -ComputerName $option[1] -Filter $option[2] | Select-Object Size,FreeSpace
    $option[1] + "," + [math]::Round($disk.Size / $ConvertToGB) + "," + [math]::Round($disk.FreeSpace / $ConvertToGB)
    if($option[3] -eq $null) {} else {
    $disk2 = Get-WmiObject Win32_LogicalDisk -ComputerName $option[1] -Filter $option[3] | Select-Object Size,FreeSpace
    $option[1] + "," +  [math]::Round($disk2.Size / $ConvertToGB) + "," + [math]::Round($disk2.FreeSpace / $ConvertToGB)
    $newItem["FreeSpace-Other"] = [math]::Round($disk2.FreeSpace / $ConvertToGB)
    }
$PSSnapin = Remove-PSSnapin Microsoft.SharePoint.PowerShell -ErrorAction SilentlyContinue | Out-Null
$PSSnapin = Add-PsSnapin Microsoft.SharePoint.PowerShell -ErrorAction SilentlyContinue |    Out-Null
$newItem["Title"] = $option[1]
$newItem["ServerName"] = $option[0]
$newItem["FreeSpace-OS"] = [math]::Round($disk.FreeSpace / $ConvertToGB)
$newItem.Update()
}
```

and text file should like following

Hide Copy Code

```
machinename ip DeviceID='C:'
machinename ipaddress DeviceID='C:' DeviceID='E:'
```

Points of Interest

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```
$disk = Get-WmiObject Win32_LogicalDisk -ComputerName $option[1] -Filter $option[2] | Select-Object Size,FreeSpace
```

History

Initial version 7-29-2015

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This member doesn't quite have enough reputation to be able to display their biography and homepage.

Sri Lanka 🇱🇰

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