# **Automating system administration tasks – Part5**

michaelfirsov.wordpress.com/automating-system-administration-tasks-part-5

April 9, 2019

## Part4

## **V VPN Server**

What I want to know about remote connections to my network:

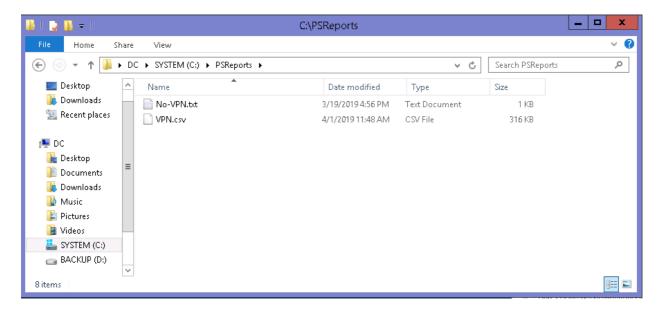
- 1) Which users connected to our company network over past few days?
- 2) What was the duration of each remote user session?
- 3) Which ip address has been assisgned to a remote user? (optional)

## 1-2)

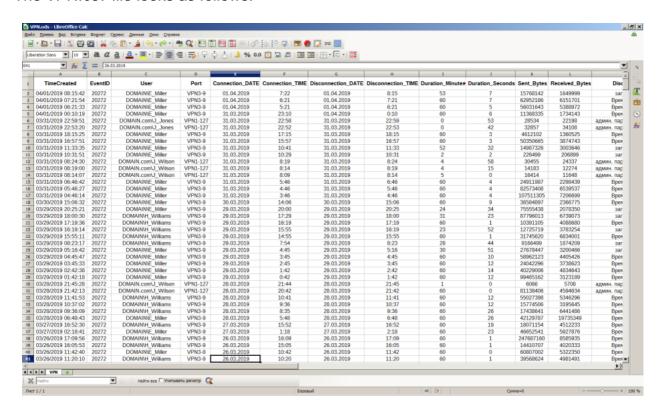
The script: VPN

(please rename the script from .docx into .ps1 and create any needed changes before use)

This script creates either *vpn.csv* or *no-vpn.txt* file (in case there were no vpn connections) in the **C:\PSReports\** folder and sends it to *michael\_firsov@testenterprise.com*:



The VPN.csv file looks as follows:



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It also contains the Sent/Received bytes, Disconnection\_Reason (why the session has ened) and the Tunnel\_TYPE (IKEv2, PPTP and etc) columns.

**3)** To find out which ip address was assigned to a particular user the following script – <u>VPN1</u> – can be used:

```
Administrator. Windows PowerShell ISE

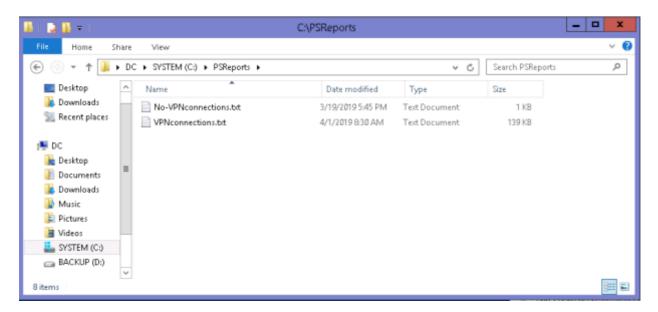
File Edit View Tools Debug Add-ons Help

VPN.ps1 VPN1.ps1* X

1 # PS script
2 # V 1 14.03.2019
3
4 Sf1="E:\PSReports"
5 If ((Test-Path -Path "C:\PSReports"))
6 E{
7 New-Item -ItemType Directory -Path Sf1 > null
8 | }
9
10 Try
11 E{
12 Sevents = Get-WinEvent -FilterHashTable @{Logname='System'; ID=20274} -ErrorAction Stop
13 14 |
15 Catch
16 E{
17 Write-Output "No any event 20274 exists!" > Sf1\No-VPNconnections.txt
18
19 Slogin = "sysadmin8hren1891.ru"
20 Spassword = "Ps1H7Nd@iw" | Convertto-SecureString -AsPlainText -Force

PS C:\Windows\system32>
```

The script creates either *VPNconnections.txt* or No-*VPNconnections.txt* file (in case there were no vpn connections) in the **C:\PSReports\** folder and sends it to *michael\_firsov@testenterprise.com*:

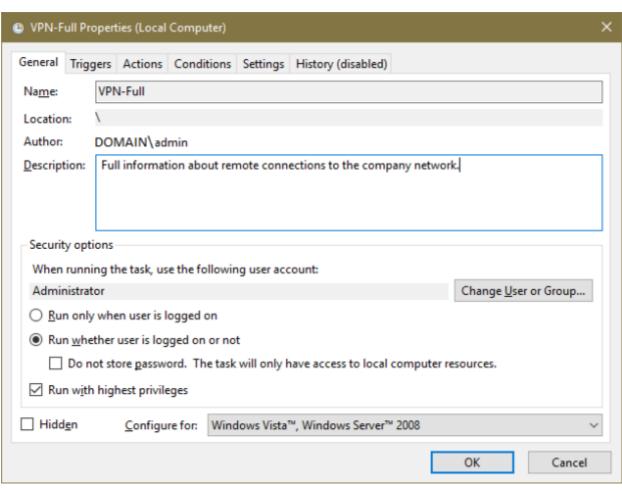


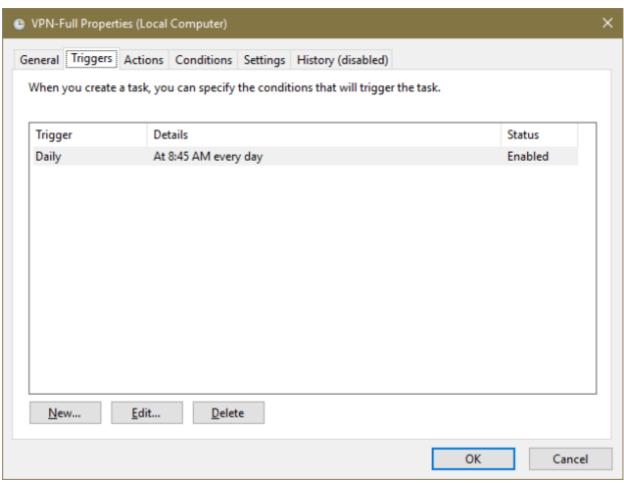
The report (a bit formated):

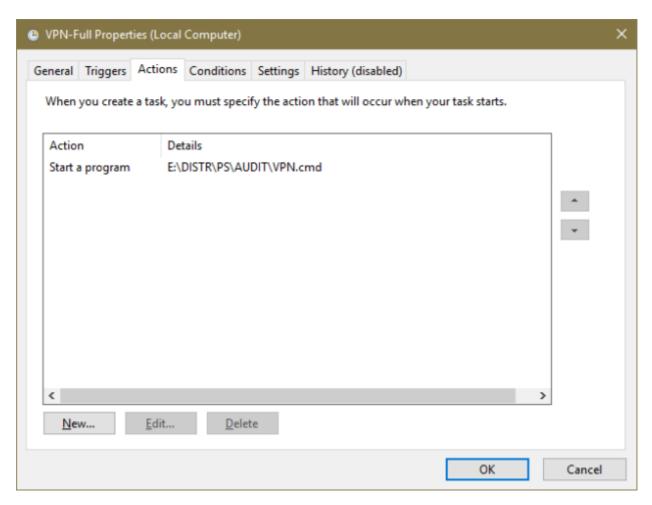
```
_ 0
                                      VPNconnections.txt - Notepad
File Edit Format View Help
TimeCreated,
                     EventID, User,
                                                  Port,
                                                           IPaddressAssigned
04/01/2019 07:22:35, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.236
04/01/2019 06:21:46, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.235
04/01/2019 05:21:27, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.234
03/31/2019 23:10:12, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.233
03/31/2019 22:58:58, 20274, DOMAIN.com\J_Jones, VPN1-127, 10.10.10.232
03/31/2019 22:52:38, 20274, DOMAIN.com\J_Jones, VPN1-127, 10.10.10.240
03/31/2019 17:15:22, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.239
03/31/2019 15:57:47, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.237
03/31/2019 10:41:03, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.238
03/31/2019 10:29:48, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.236
03/31/2019 08:19:32, 20274, DOMAIN.com\H_Williams, VPN1-127, 10.10.10.235
03/31/2019 08:14:44, 20274, DOMAIN.com\H_Wiliams, VPN1-127, 10.10.10.234
03/31/2019 08:09:07, 20274, DOMAIN.com\H_Williams, VPN1-127, 10.10.10.233
03/31/2019 05:46:37, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.232
03/31/2019 04:46:23, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.240
03/31/2019 03:46:10, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.239
03/30/2019 14:06:22, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.237
03/29/2019 20:00:46, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.238
03/29/2019 17:29:06, 20274, DOMAIN\J_Wilson, VPN3-9, 10.10.10.236
03/29/2019 16:19:35, 20274, DOMAIN\J_Wilson, VPN3-9, 10.10.10.235
03/29/2019 15:55:22, 20274, DOMAIN\J_Wilson, VPN3-9, 10.10.10.234
03/29/2019 14:55:10, 20274, DOMAIN\J_Wilson, VPN3-9, 10.10.10.233
03/29/2019 07:54:33, 20274, DOMAIN\J_Wilson, VPN3-9, 10.10.10.232
03/29/2019 04:45:50, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.240 03/29/2019 03:45:37, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.239 03/29/2019 02:45:20, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.237
03/29/2019 01:42:23, 20274, DOMAIN\E_Miller, VPN3-9, 10.10.10.238
```

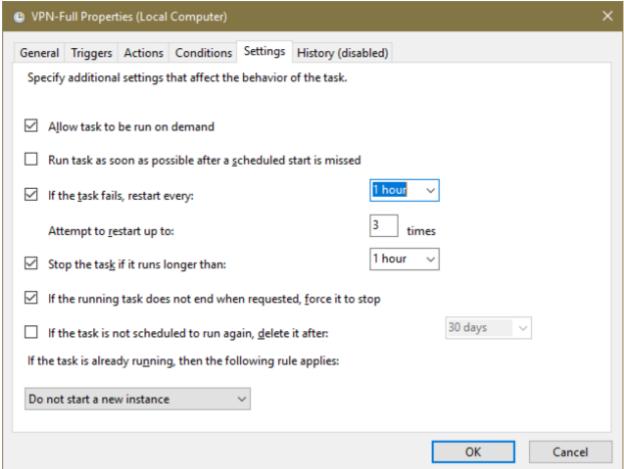
To have these reports at hand each morning the following scheduled tasks can be created:

## **VPN-Full**

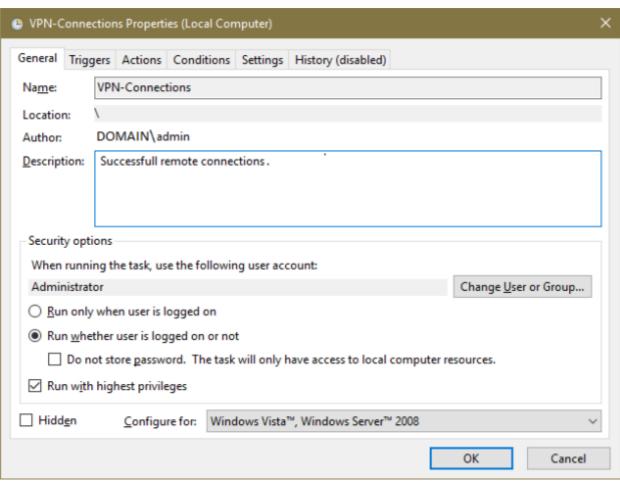


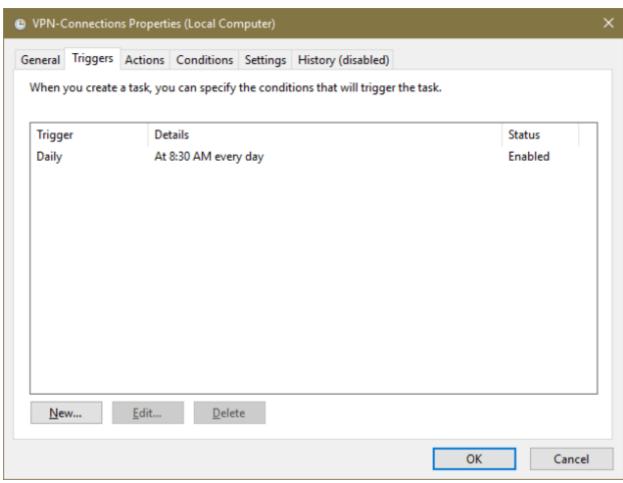


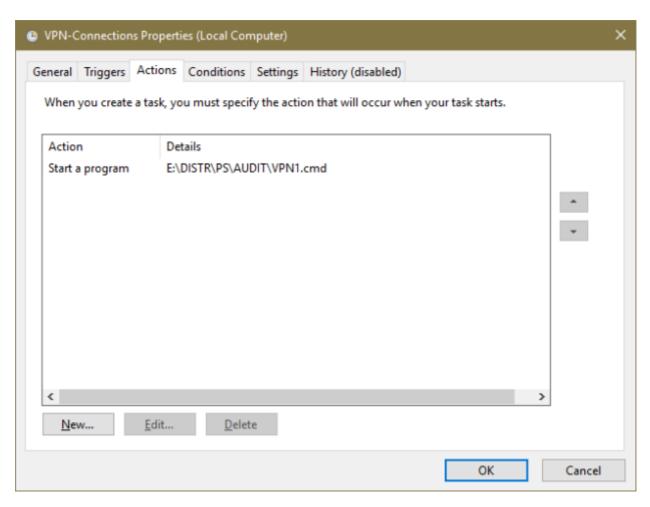


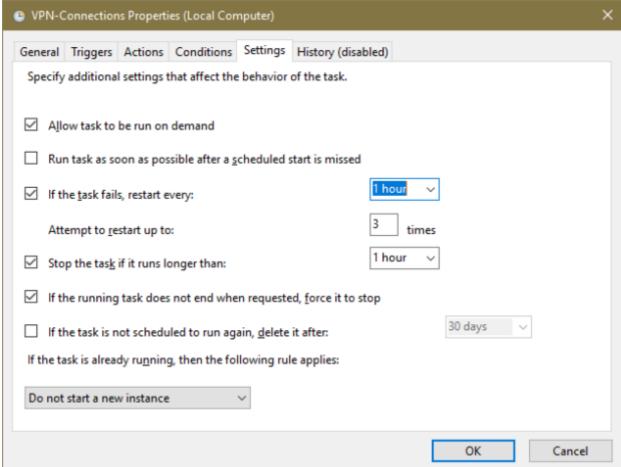


**VPN-Connections** 





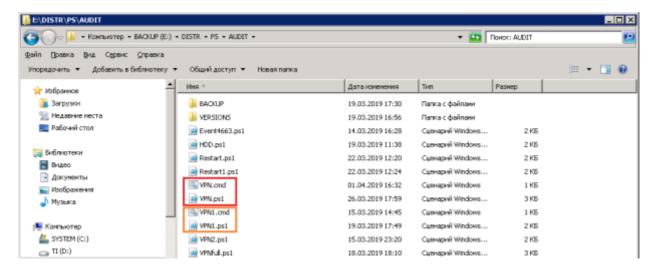




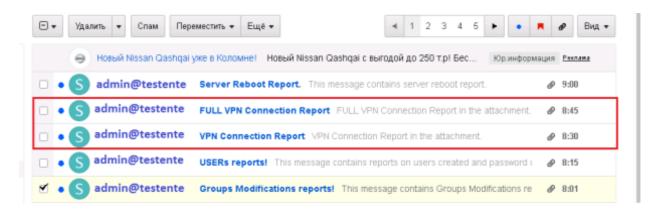
In both scheduled tasks the role of .cmd files is just to start a corresponding .ps1 file:

vpn.cmd powershell -command .\VPN.ps1

vpn1.cmd powershell -command .\VPN1.ps1



#### The result:



This part concludes the series on automating system administration tasks. I hope the information in these articles may help administrators collect the nesessary information about their server infrastractures a bit more easily.