Automating system administration tasks – Part1

michaelfirsov.wordpress.com/automating-system-administration-tasks-part1

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In 2013 I wrote the article The morning of a system administrator where I had formulated the main questions to which – in my humble opinion – a system administrator should have the answers at the very beginning of his/her work day:

1) Were there any unexpected server reboots?

2) Is there any server that lacks of a disk space?

3) What are the sizes of my MS SQL Server databases?

4) Were there any connectivity problems with our Internet connection?

5) Were there any Active Directory modifications?

6) Were there any password resets?

As the years past, I added more and more questions to the list above and one day I realized it would be pertinent to divide the questions into several categories: one for each of the “computer field” administrators usually deal with:

I Windows Server

II Audit

III SQL Server

IV Exchange Server

Considering I want to have these answers by the time I enter the office, the main means of getting the corresponding information must be the scripts that run according to to their schedule in the Task Scheduler and send me reports via an email. Alerts in the Performance Monitor can send notifications when a certain condition is met. In this four-part series I’d like to offer the methodology for the overall monitoring of the whole server infrastracture so that any administrator may get all necessary information as fast as possible – he/she would only need to read the reports sent as the email attachments by various scripts.

I Windows Server

The questions:

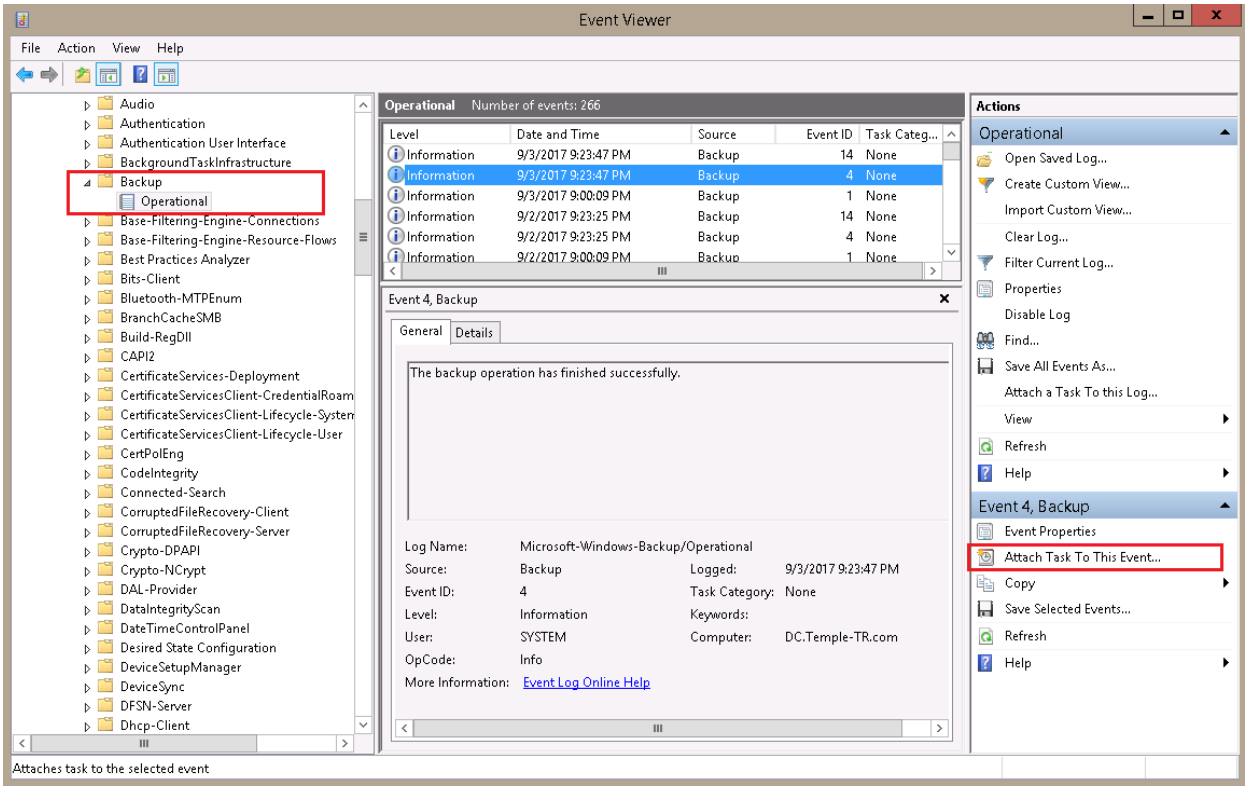
1. **Have nightly backup jobs completed successfully?**

2. ***Were there any connectivity problems with our Internet connection?***
3. ***Were there any unexpected server reboots?***
4. ***Is there any server that lacks of a disk space?*** **– the question from the old article now should read as follows:**
   Have any defined server alerts fired since yesterday?
5. **How well does the OS perform today (or did yesterday)?**

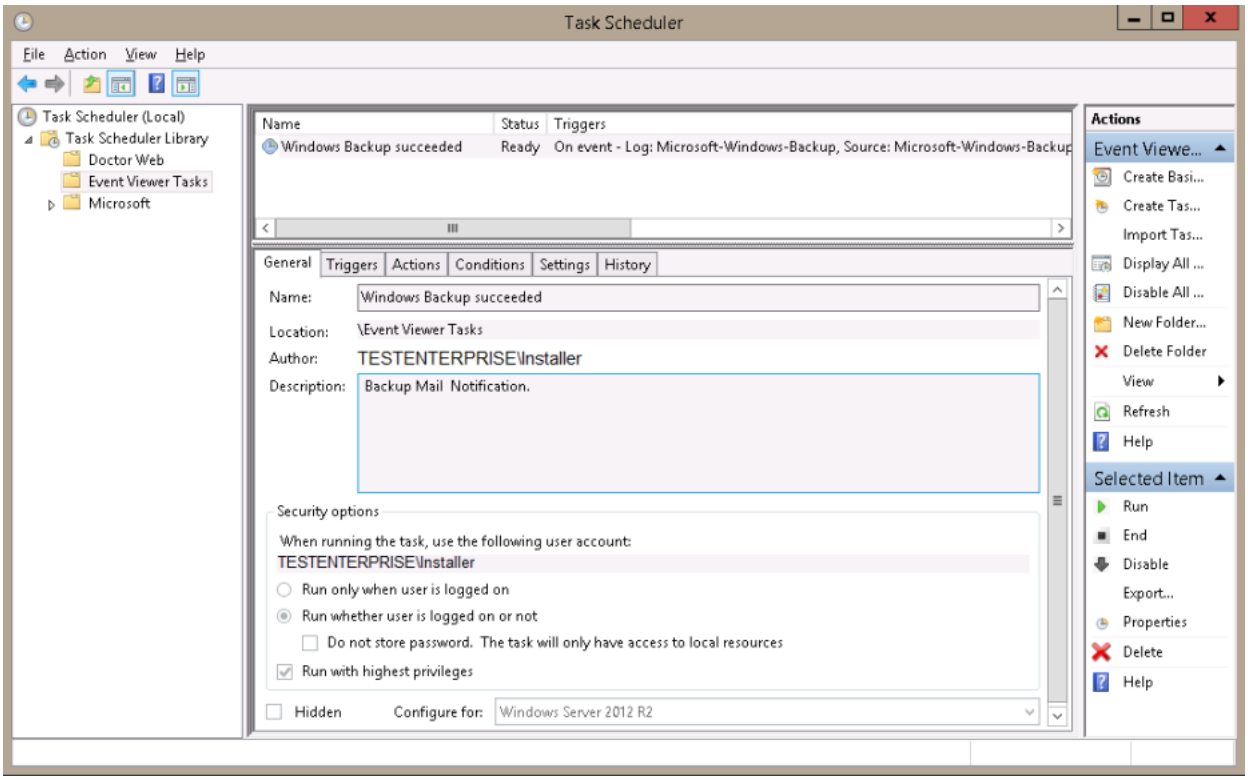
Throughout this four-part series I will post lots of *cmd, ps1* and *vbs* scripts saved as *docx* documents -wordpress.com would not allow to upload *txt/ps1/vbs* files – so please rename the docx files accordingly before use.
Some one-line *cmd* scripts are not published as the *docx* files because their content is fully visible as the screenshots.

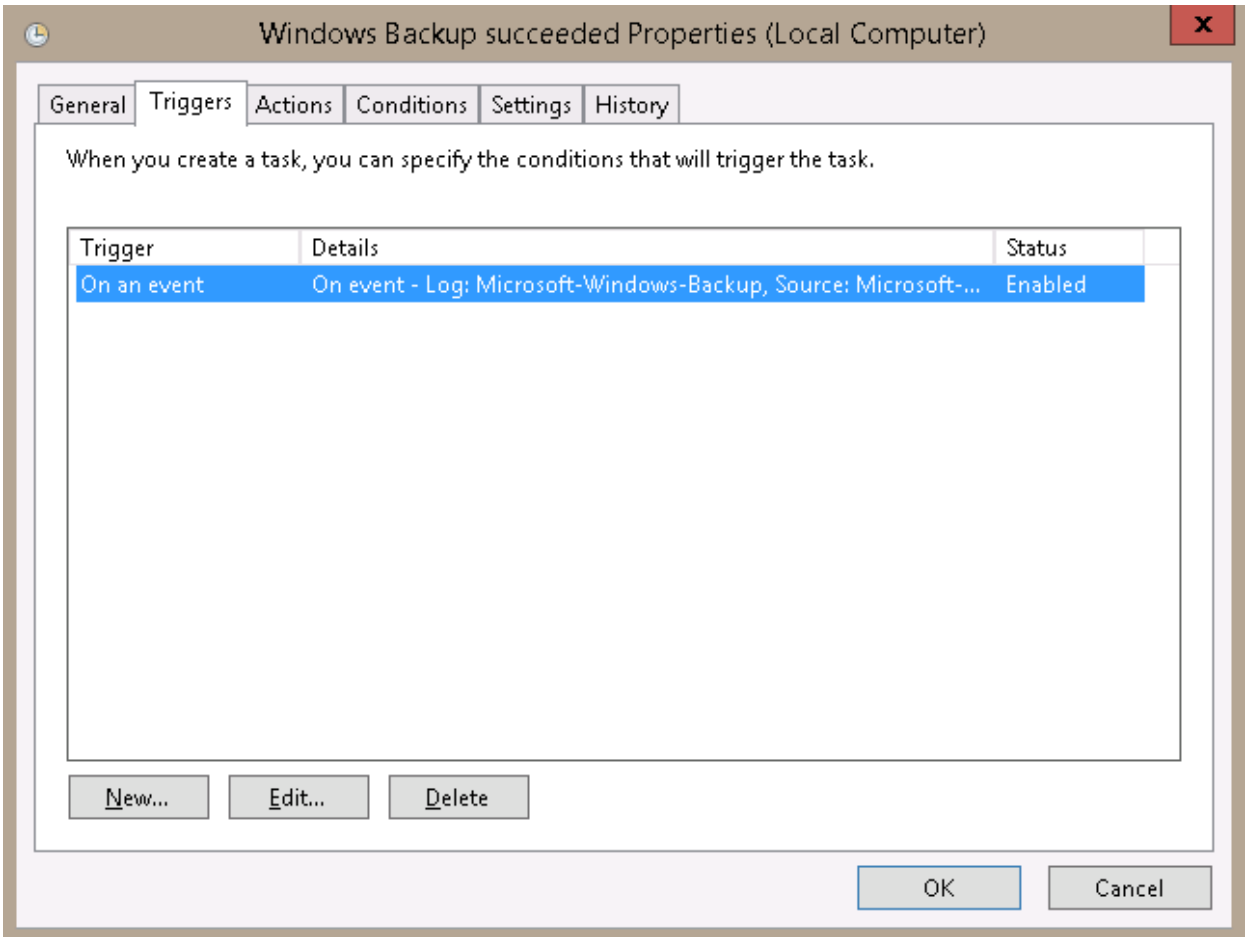
The answers:

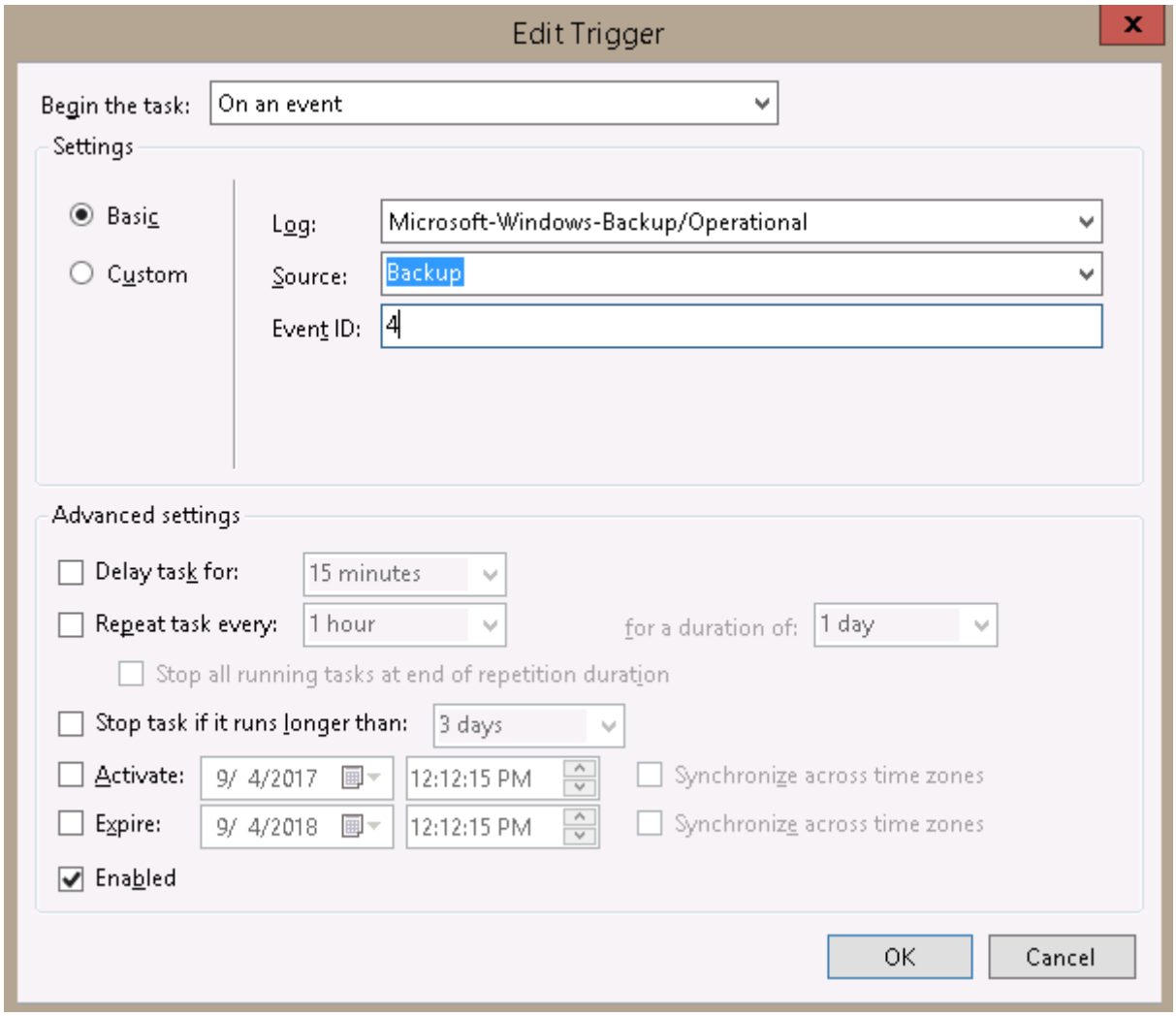
1) To get the email reports upon completion of the backup jobs I have attached the task **Windows Backup Succeeded** to the event **4** from the **Microsoft-Windows-Backup-Operational** log:

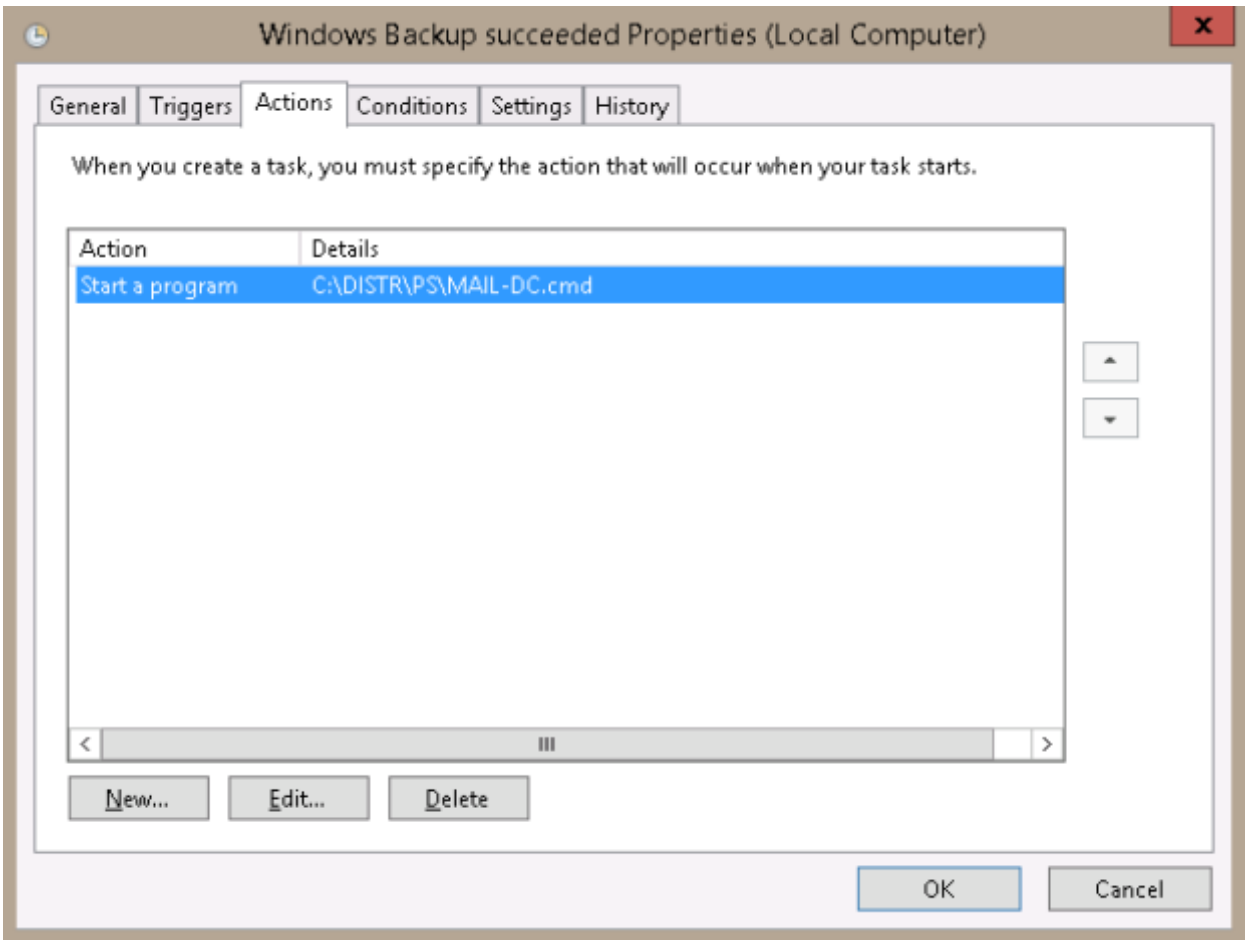


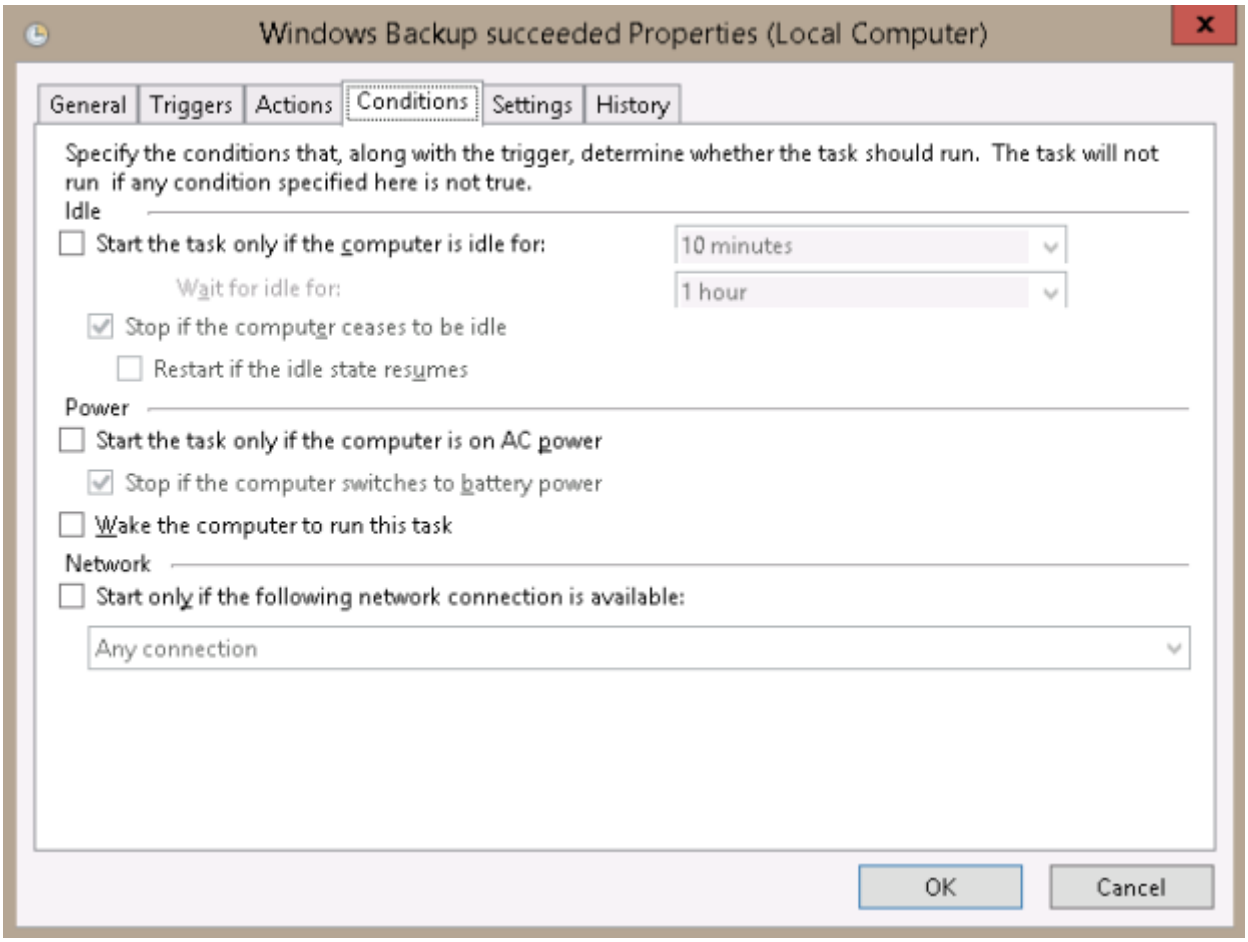
The task:

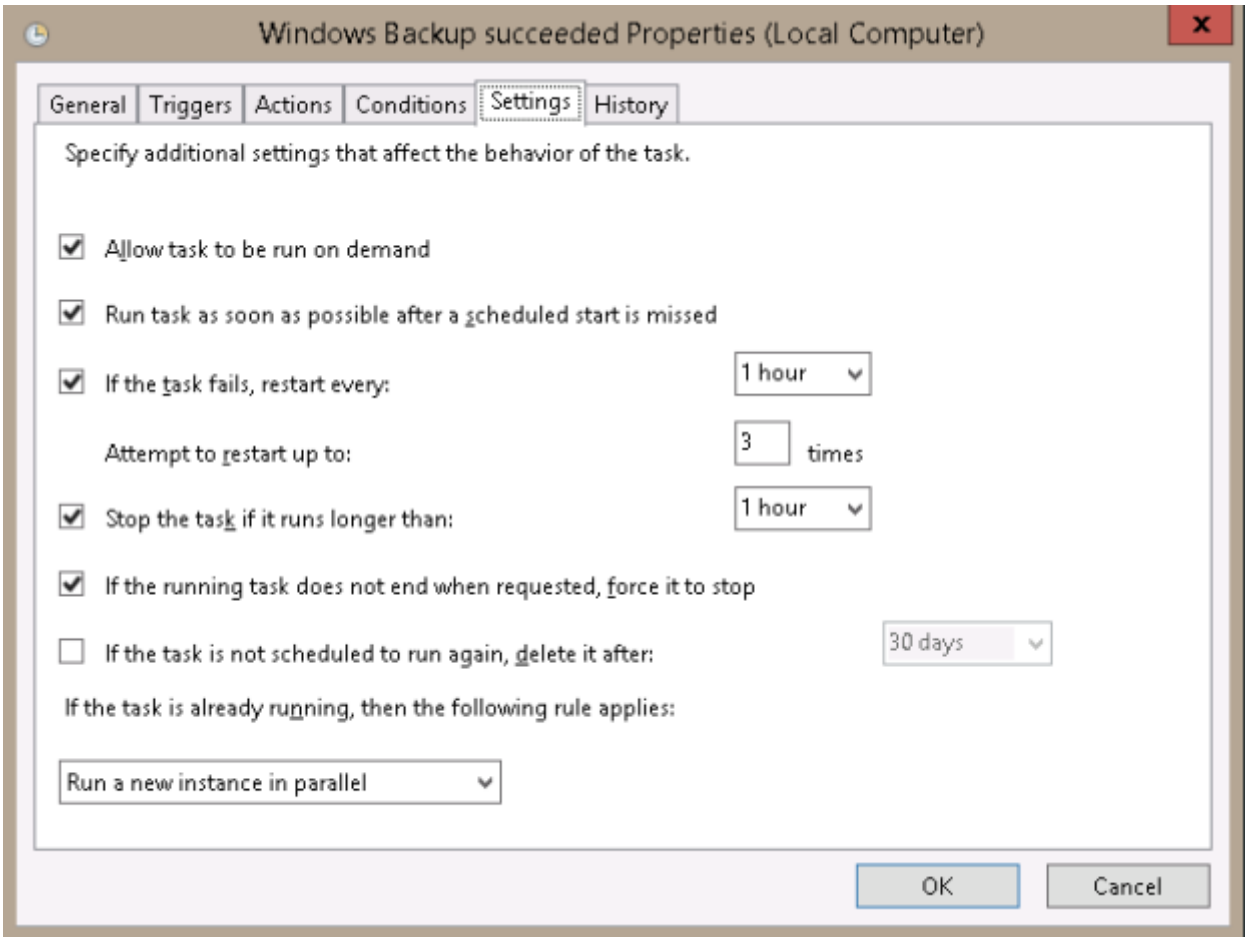

Task Scheduler
File Action View Help
Task Scheduler (Local)
Task Scheduler Library
Doctor Web
Event Viewer Tasks
Microsoft
Name Status Triggers
Windows Backup succeeded Ready On event - Log: Microsoft-Windows-Backup, Source: Microsoft-Windows-Backup
General Triggers Actions Conditions Settings History
Name: Windows Backup succeeded
Location: \Event Viewer Tasks
Author: TESTENTERPRISE\Installer
Description: Backup Mail Notification.
Security options
When running the task, use the following user account:
TESTENTERPRISE\Installer
Run only when user is logged on
Run whether user is logged on or not
Do not store password. The task will only have access to local resources
Run with highest privileges
Hidden
Configure for: Windows Server 2012 R2
Actions
Event Viewe...
Create Basi...
Create Tas...
Import Tas...
Display All ...
Disable All ...
New Folder...
Delete Folder
View
Refresh
Help
Selected Item
Run
End
Disable
Export...
Properties
Delete
Help

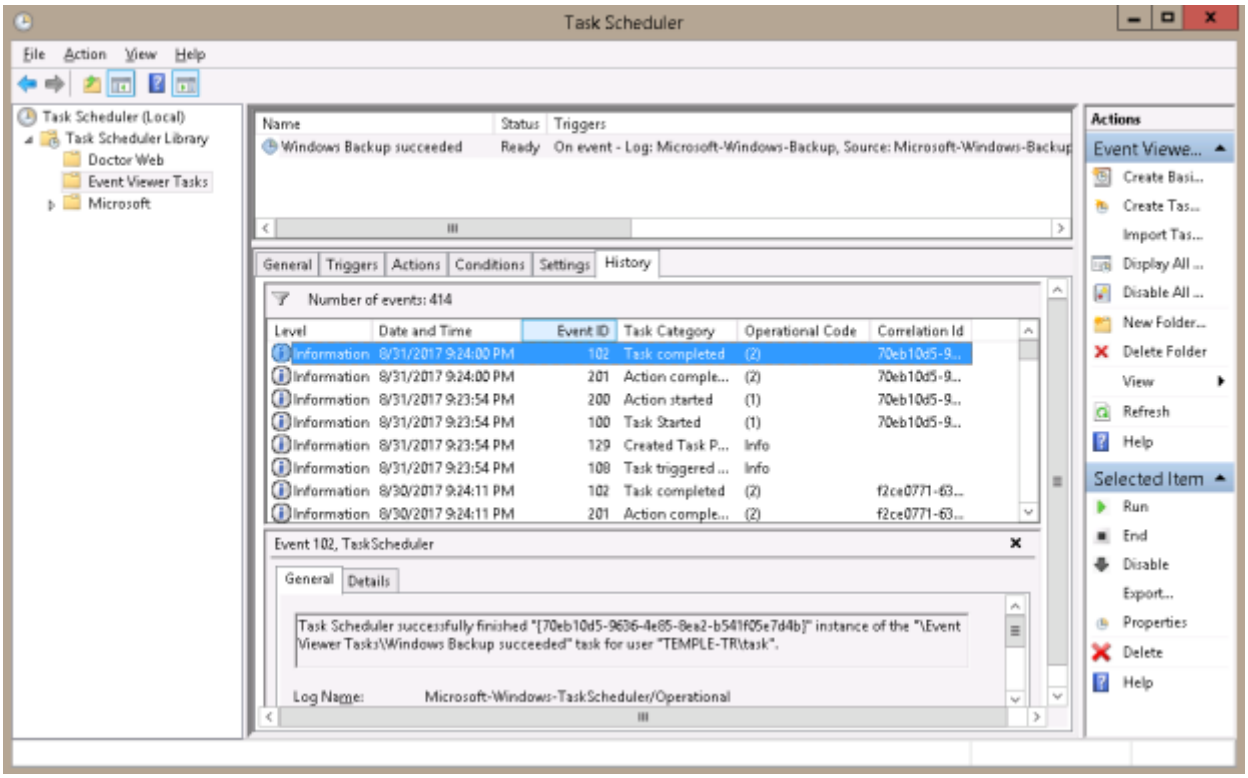

Windows Backup succeeded Properties (Local Computer)
General Triggers Actions Conditions Settings History
When you create a task, you can specify the conditions that will trigger the task.
Trigger Details Status
On an event On event - Log: Microsoft-Windows-Backup, Source: Microsoft-... Enabled
New... Edit... Delete
OK Cancel


Edit Trigger
Begin the task: On an event
Settings
Basic
Custom
Log: Microsoft-Windows-Backup/Operational
Source: Backup
Event ID: 4
Advanced settings
Delay task for: 15 minutes
Repeat task every: 1 hour
for a duration of: 1 day
Stop all running tasks at end of repetition duration
Stop task if it runs longer than: 3 days
Activate: 9/ 4/2017 12:12:15 PM
Synchronize across time zones
Expire: 9/ 4/2018 12:12:15 PM
Synchronize across time zones
Enabled
OK
Cancel


Windows Backup succeeded Properties (Local Computer)
General
Triggers
Actions
Conditions
Settings
History
When you create a task, you must specify the action that will occur when your task starts.
Action
Details
Start a program
C:\DISTR\PS\MAIL-DC.cmd
New...
Edit...
Delete
OK
Cancel


Windows Backup succeeded Properties (Local Computer)
General
Triggers
Actions
Conditions
Settings
History
Specify the conditions that, along with the trigger, determine whether the task should run. The task will not run if any condition specified here is not true.
Idle
Start the task only if the computer is idle for:
10 minutes
Wait for idle for:
1 hour
Stop if the computer ceases to be idle
Restart if the idle state resumes
Power
Start the task only if the computer is on AC power
Stop if the computer switches to battery power
Wake the computer to run this task
Network
Start only if the following network connection is available:
Any connection
OK
Cancel


Windows Backup succeeded Properties (Local Computer)
General
Triggers
Actions
Conditions
Settings
History
Specify additional settings that affect the behavior of the task.
Allow task to be run on demand
Run task as soon as possible after a scheduled start is missed
If the task fails, restart every:
1 hour
Attempt to restart up to:
3
times
Stop the task if it runs longer than:
1 hour
If the running task does not end when requested, force it to stop
If the task is not scheduled to run again, delete it after:
30 days
If the task is already running, then the following rule applies:
Run a new instance in parallel
OK
Cancel



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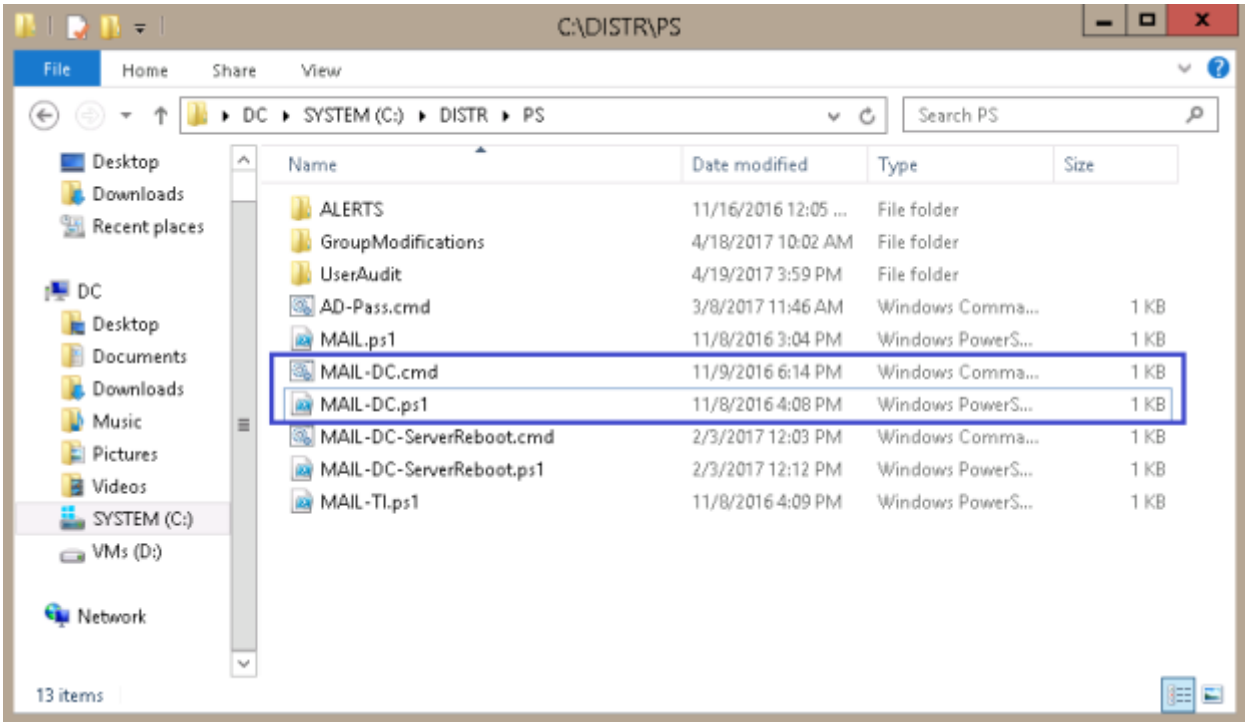
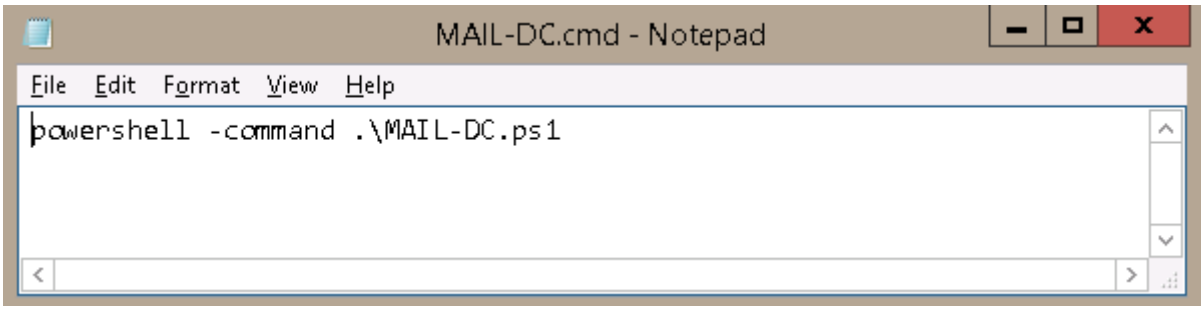
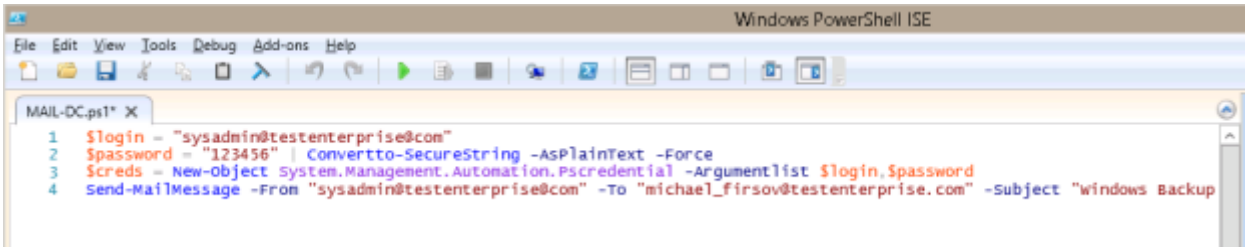
The scripts (I use *.cmd* script on the **Actions** tab of the task to run the corresponding same-titled *.ps1* script):



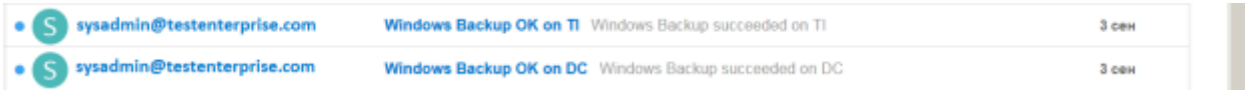


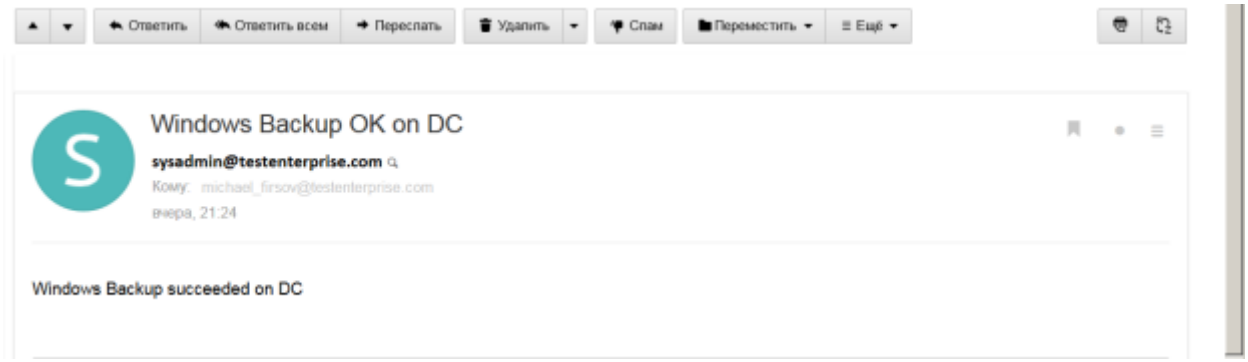


Mail-DC.ps1 – Mail-DC-ps1

$login = “sysadmin@testenterprise@com”
$password = “123456” | Convertto-SecureString -AsPlainText -Force
$creds = New-Object System.Management.Automation.Pscredential -Argumentlist $login,$password
Send-MailMessage -From “sysadmin@testenterprise@com” -To “michael_firsov@testenterprise.com” -Subject ” Windows Backup OK on DC” -Body “Windows Backup succeeded on DC” -SmtpServer mail.testenterprise.com -Port 25 -Credential $creds

The resulting email notification (each server will require its ownthe task/script, of course):





2) **Internet availability check**

Internet.vbs script checks whether the internet connection is available by continuously pinging the ip of our ISP’s gateway (it, of course, may be any other host you choose to monitor): in case one of the pings is lost it makes up to two additional checks and if all three consecutive ping attempts have been unsuccessful it will log the corresponding record to the *Internet.txt* file and send it to the email address defined in the script. This

Internet.txt file will also serve as the internet availability log since any interruptions in the internet availability will be recorded in this singe file and an administrator may easily know later when the internet channel was not functioning.

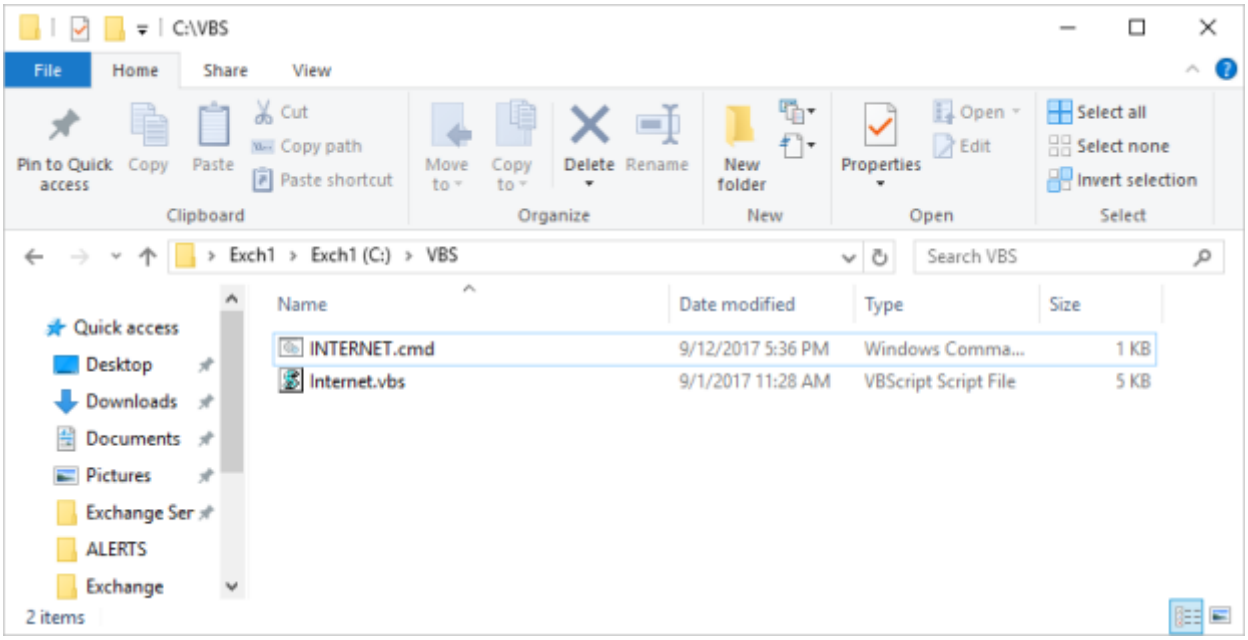
Internet.vbs – Internet-vbs

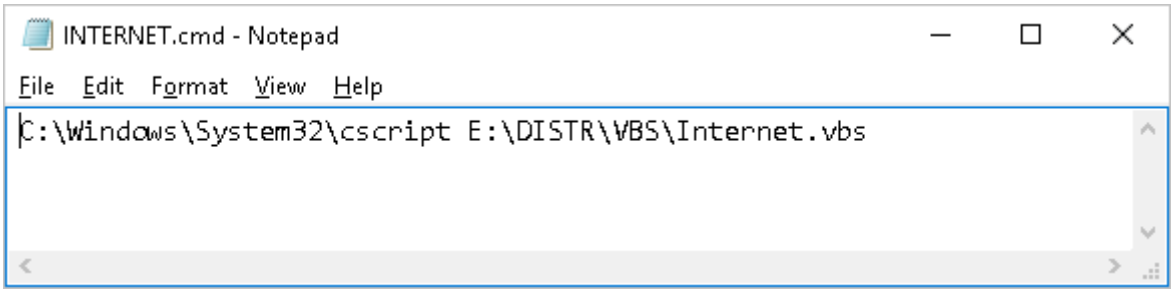
Please set the **StrTarget** field in the downloaded script to the ip of some host on Internet you'd like to serve as a monitor of the availability of your internet channel (instead of *a.b.c.d*) and the **strDirectory** field to the folder you'd like the Internet.txt file to be placed in. This script will be pinging this host each **120000** milliseconds by default (=120 seconds or 2 minutes) – the following parameter lets you configure it as you like:

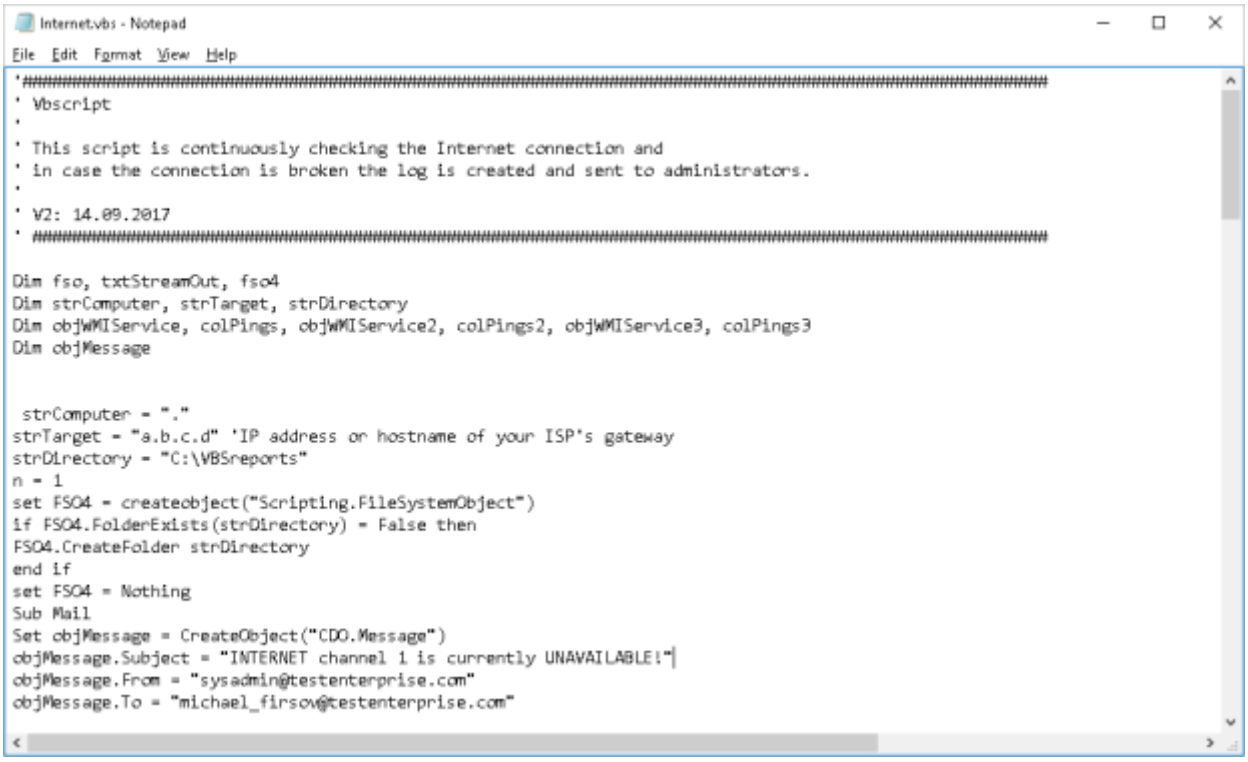
WScript.Sleep 120000 'Frequency of polling.

Once one of the ping attempts fails (no reply is received) the script tries to ping the monitored host for the second time after the 30 seconds delay by default, and after another 30 seconds it makes the third attempt – this total 60 seconds worth pause should help avoid the intermittent network failures. If all the three ping attempts fail then the script writes the line into INTERNET.txt file and sends it to the configured mail recepient (please configure all e-mail settings in the script according to your needs!).

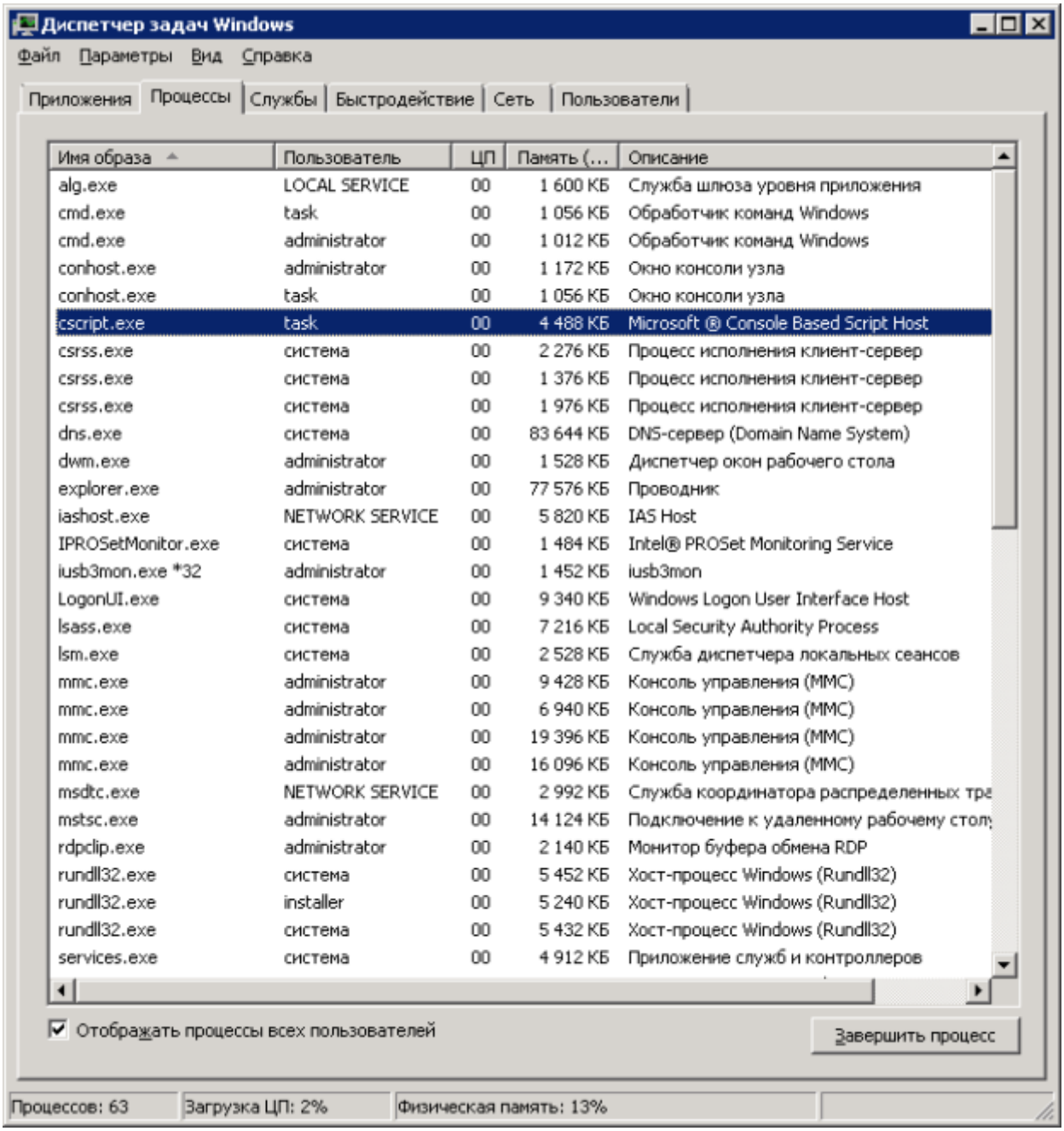
The script files:

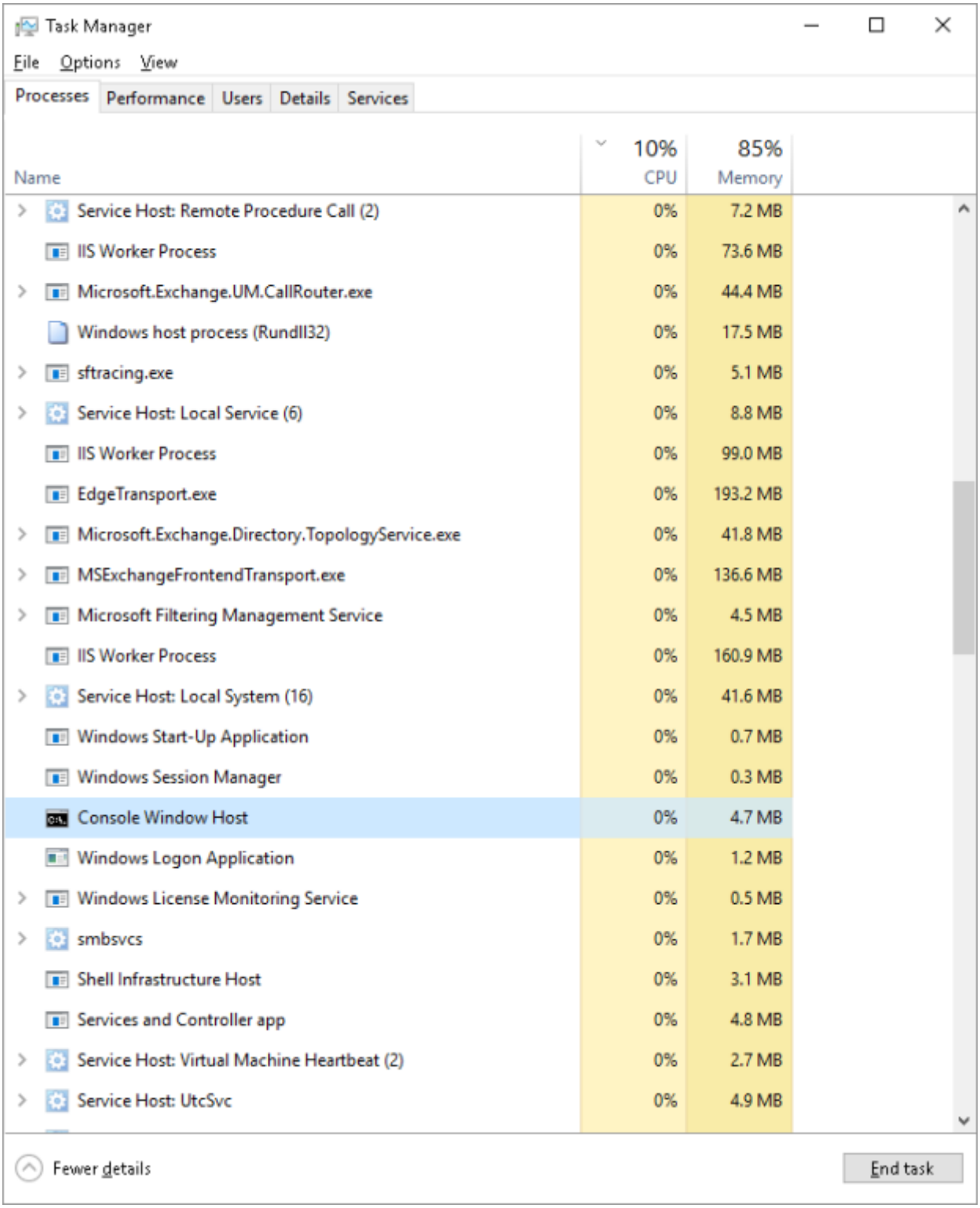




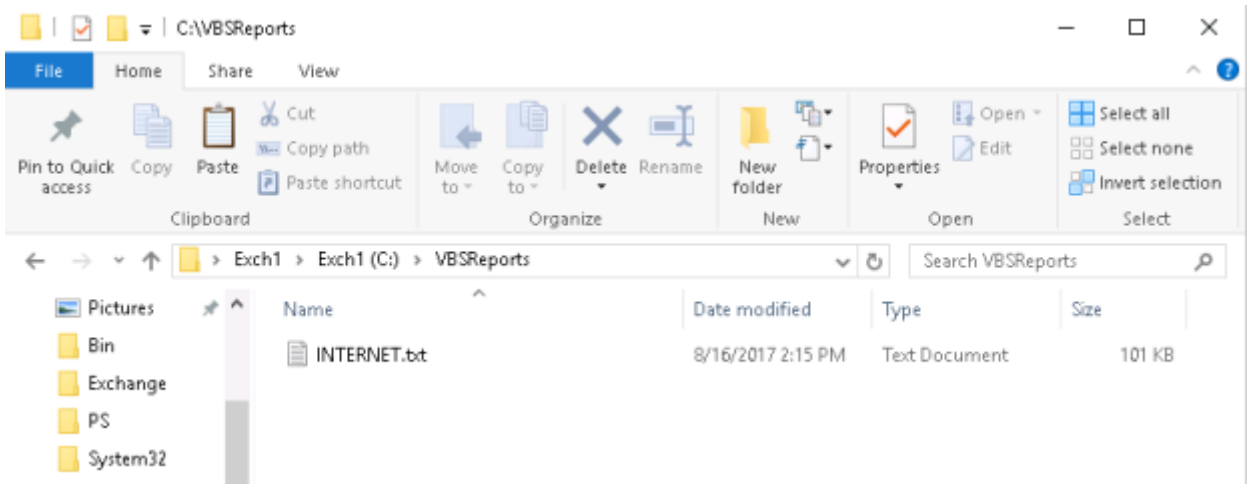


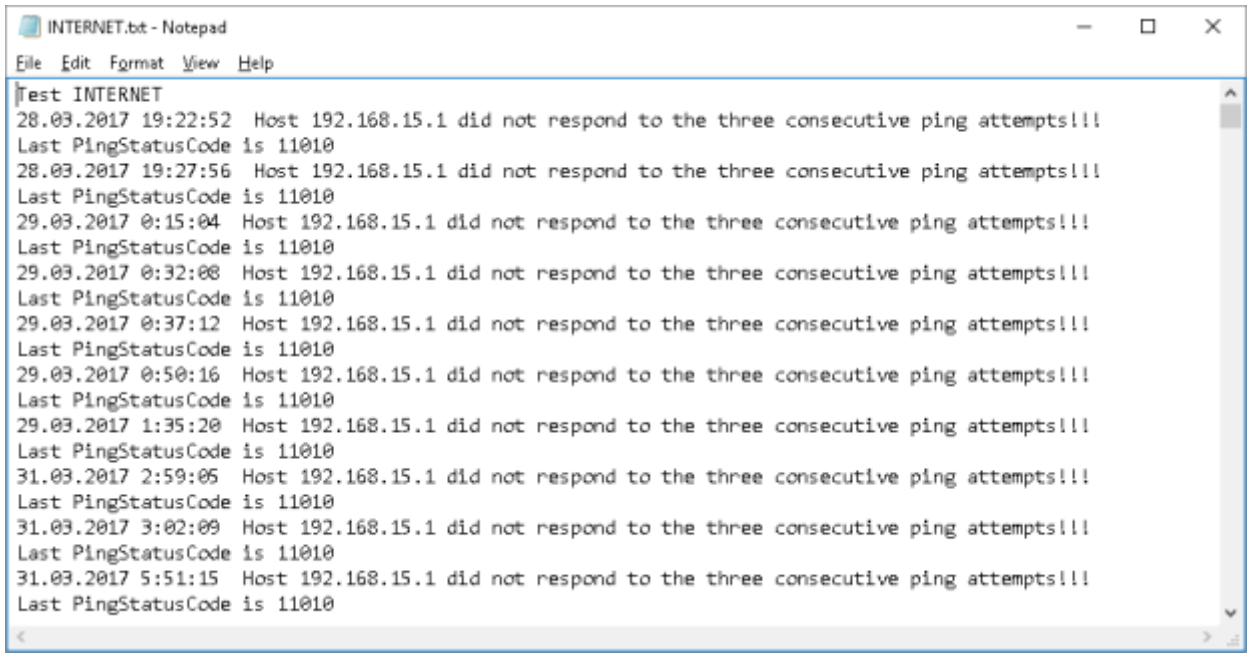
You can run any *.vbs* scripts from scheduled tasks directly – without a *.cmd* file with the **cscript** command-line program I'm currently using – I just prefer to start the *vbs* scripts that run continiously by means of the cscript command: in this case in order to stop the script in the **Task Manager** I should stop the cscript or Windows Console Host process:


Диспетчер задач Windows
Файл Параметры Вид Справка
Приложения Процессы Службы Быстродействие Сеть Пользователи
Имя образа Пользователь ЦП Память (... Описание
alg.exe LOCAL SERVICE 00 1 600 КБ Служба шлюза уровня приложения
cmd.exe task 00 1 056 КБ Обработчик команд Windows
cmd.exe administrator 00 1 012 КБ Обработчик команд Windows
conhost.exe administrator 00 1 172 КБ Окно консоли узла
conhost.exe task 00 1 056 КБ Окно консоли узла
cscript.exe task 00 4 488 КБ Microsoft ® Console Based Script Host
csrss.exe система 00 2 276 КБ Процесс исполнения клиент-сервер
csrss.exe система 00 1 376 КБ Процесс исполнения клиент-сервер
csrss.exe система 00 1 976 КБ Процесс исполнения клиент-сервер
dns.exe система 00 83 644 КБ DNS-сервер (Domain Name System)
dwm.exe administrator 00 1 528 КБ Диспетчер окон рабочего стола
explorer.exe administrator 00 77 576 КБ Проводник
iashost.exe NETWORK SERVICE 00 5 820 КБ IAS Host
IPROSetMonitor.exe система 00 1 484 КБ Intel® PROSet Monitoring Service
iusb3mon.exe *32 administrator 00 1 452 КБ iusb3mon
LogonUI.exe система 00 9 340 КБ Windows Logon User Interface Host
lsass.exe система 00 7 216 КБ Local Security Authority Process
lsm.exe система 00 2 528 КБ Служба диспетчера локальных сеансов
mmc.exe administrator 00 9 428 КБ Консоль управления (MMC)
mmc.exe administrator 00 6 940 КБ Консоль управления (MMC)
mmc.exe administrator 00 19 396 КБ Консоль управления (MMC)
mmc.exe administrator 00 16 096 КБ Консоль управления (MMC)
msdtc.exe NETWORK SERVICE 00 2 992 КБ Служба координатора распределенных тра
mstsc.exe administrator 00 14 124 КБ Подключение к удаленному рабочему столу
rdpclip.exe administrator 00 2 140 КБ Монитор буфера обмена RDP
rundll32.exe система 00 5 452 КБ Хост-процесс Windows (Rundll32)
rundll32.exe installer 00 5 240 КБ Хост-процесс Windows (Rundll32)
rundll32.exe система 00 5 432 КБ Хост-процесс Windows (Rundll32)
services.exe система 00 4 912 КБ Приложение служб и контроллеров
Отображать процессы всех пользователей
Завершить процесс
Процессов: 63
Загрузка ЦП: 2%
Физическая память: 13%

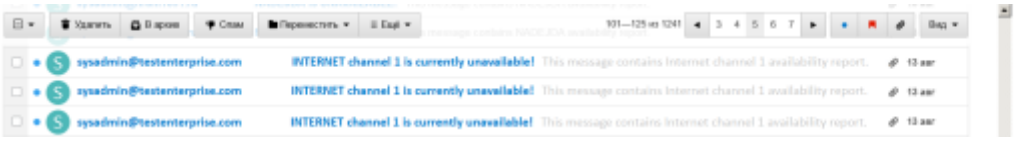


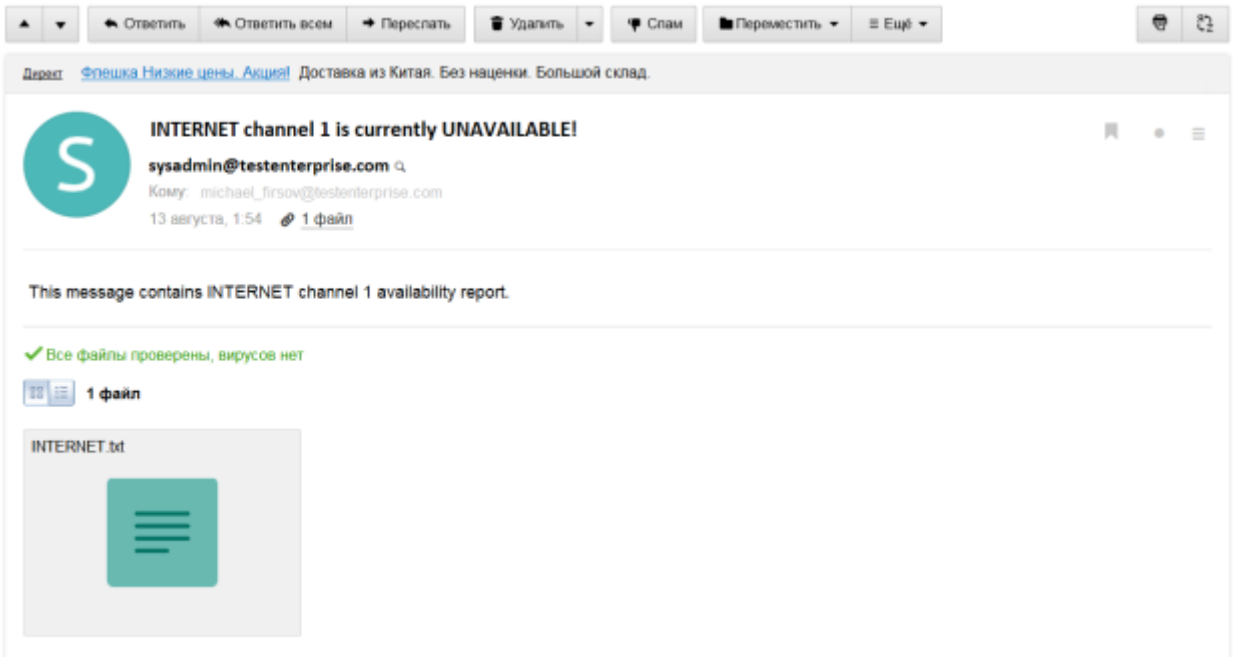
The report file:





This e-mail message gets sent to my mailbox in case internet channel 1 is not available:

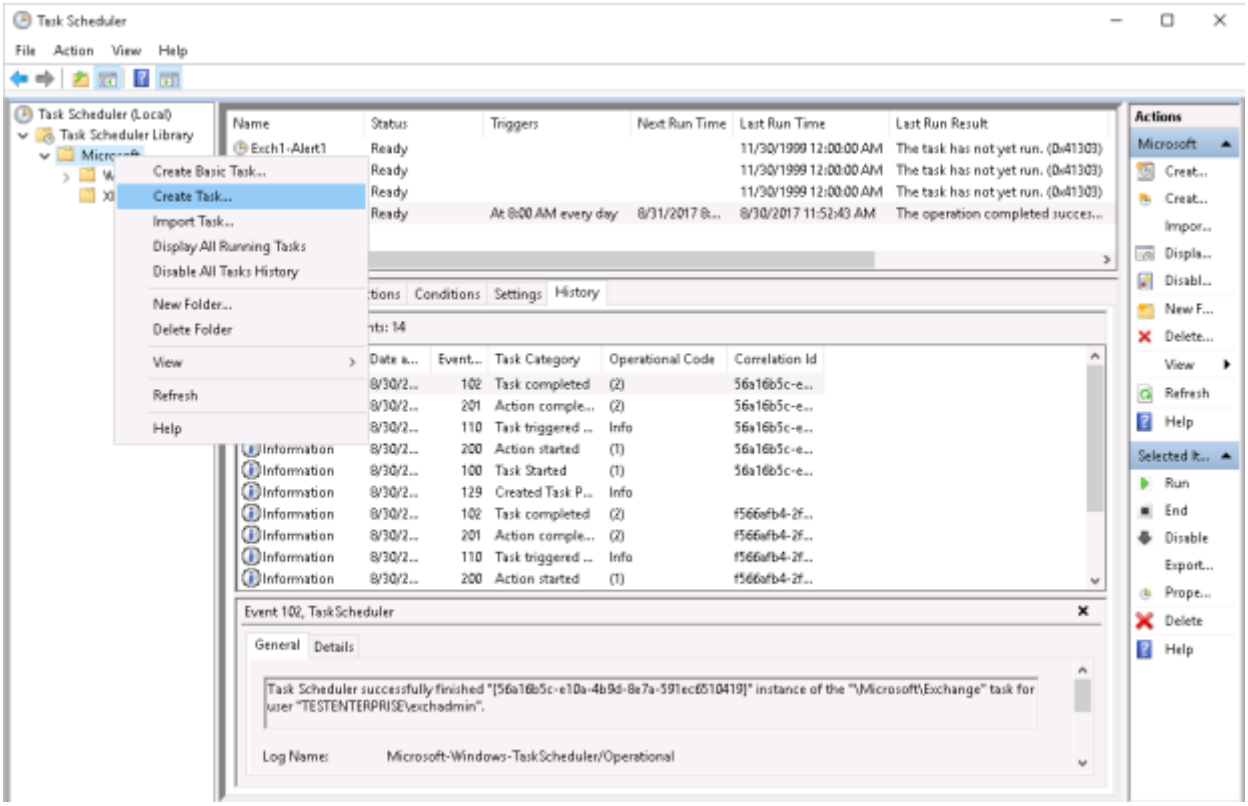


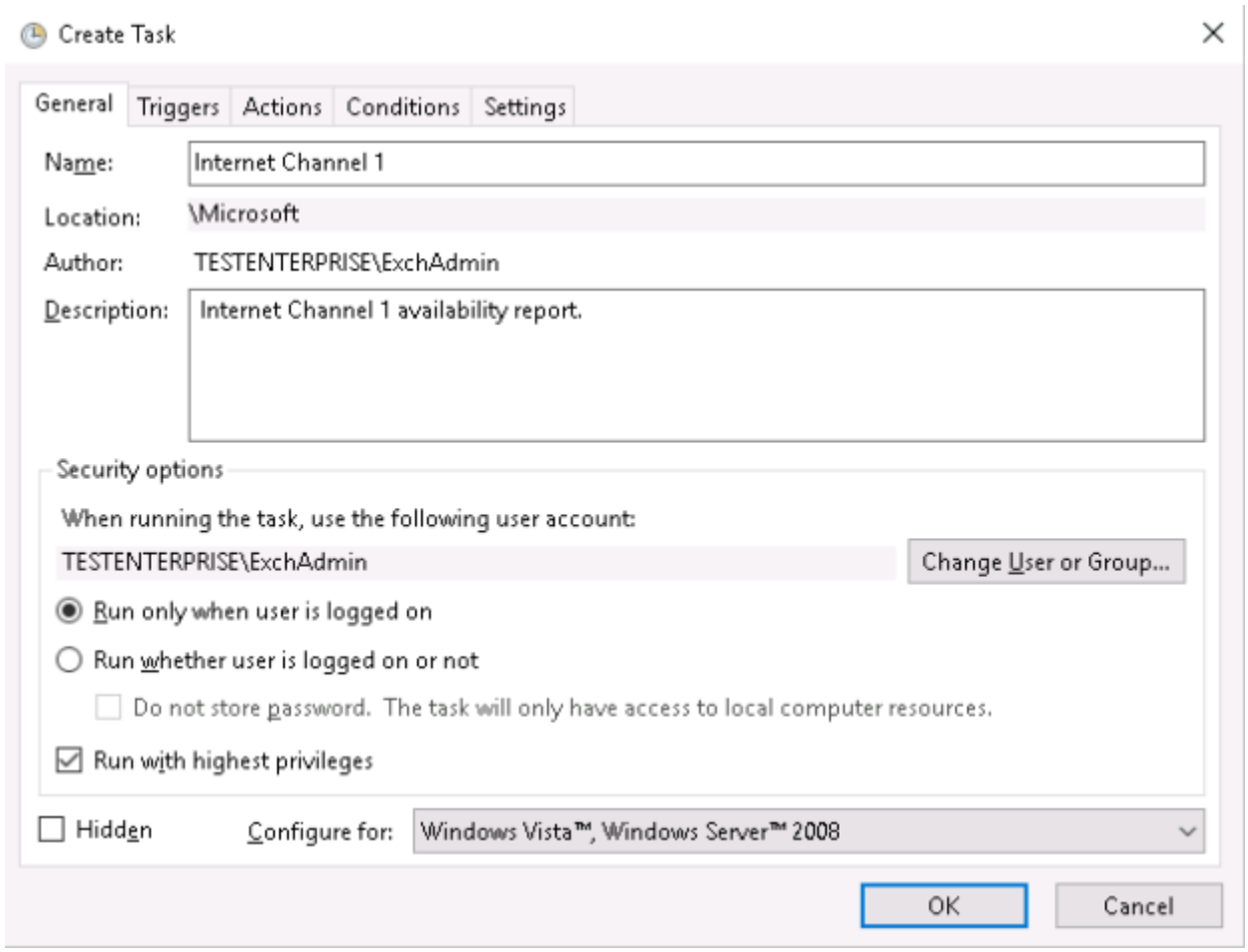


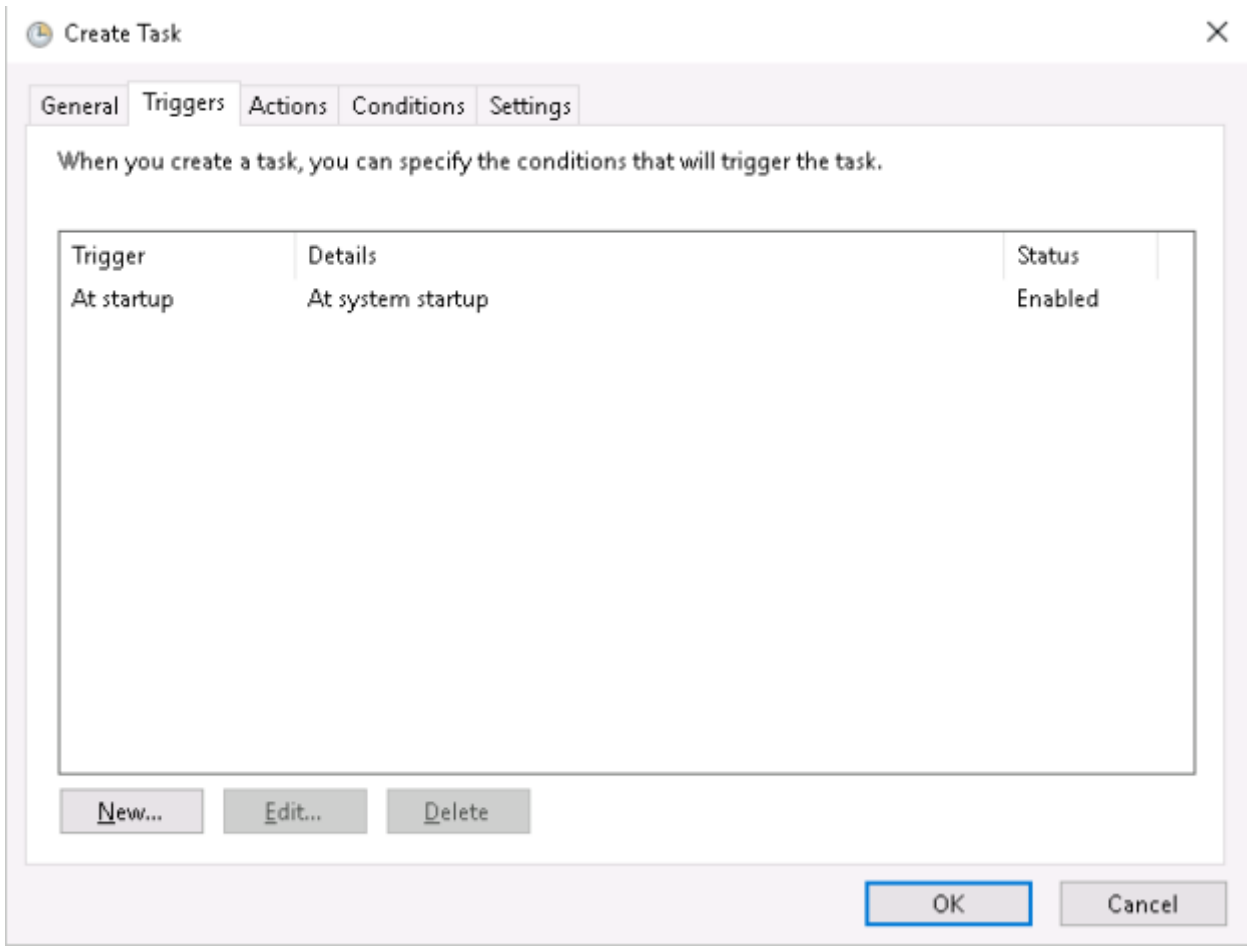
In fact the Internet.vbs script serves the two purposes:

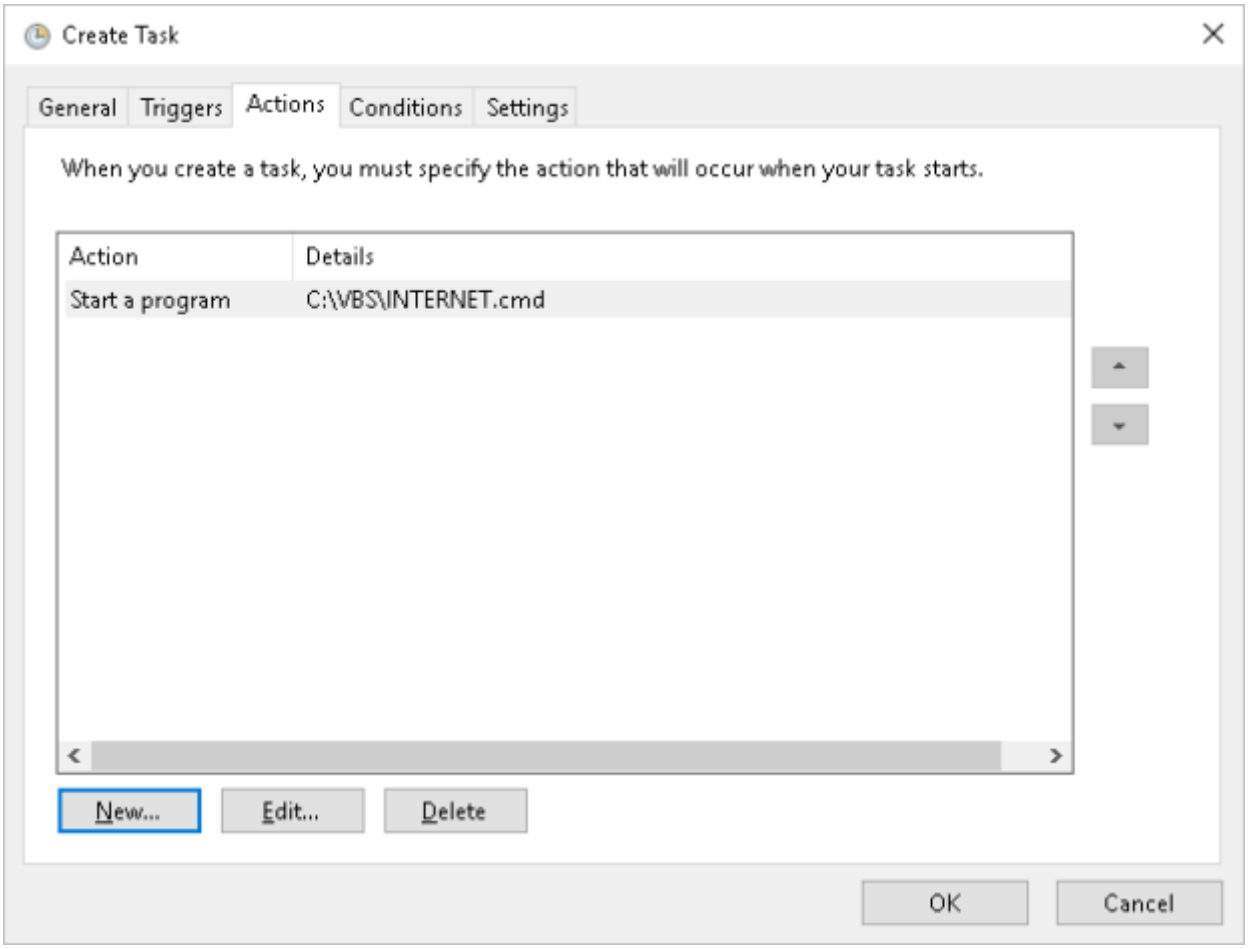
1. the email message in an administrator's inbox informs him/her about the missing internet connection at the current time and
2. the file attached will let an administrator know how long the connection was unavailable and how often such interuptions occur

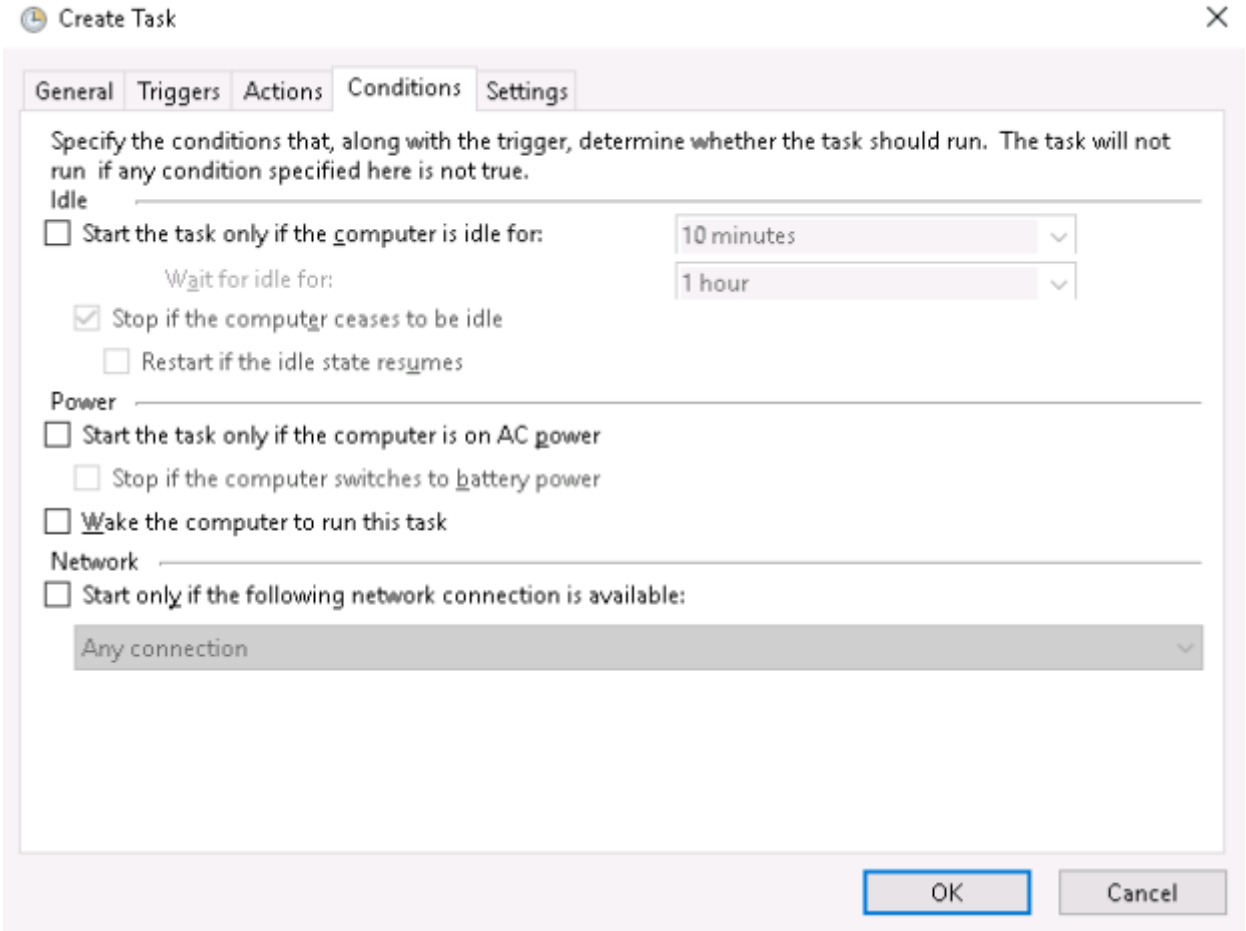
To be able to get the internet channel availability report any time during a day I create the corresponding **Internet Channel 1** scheduled task:

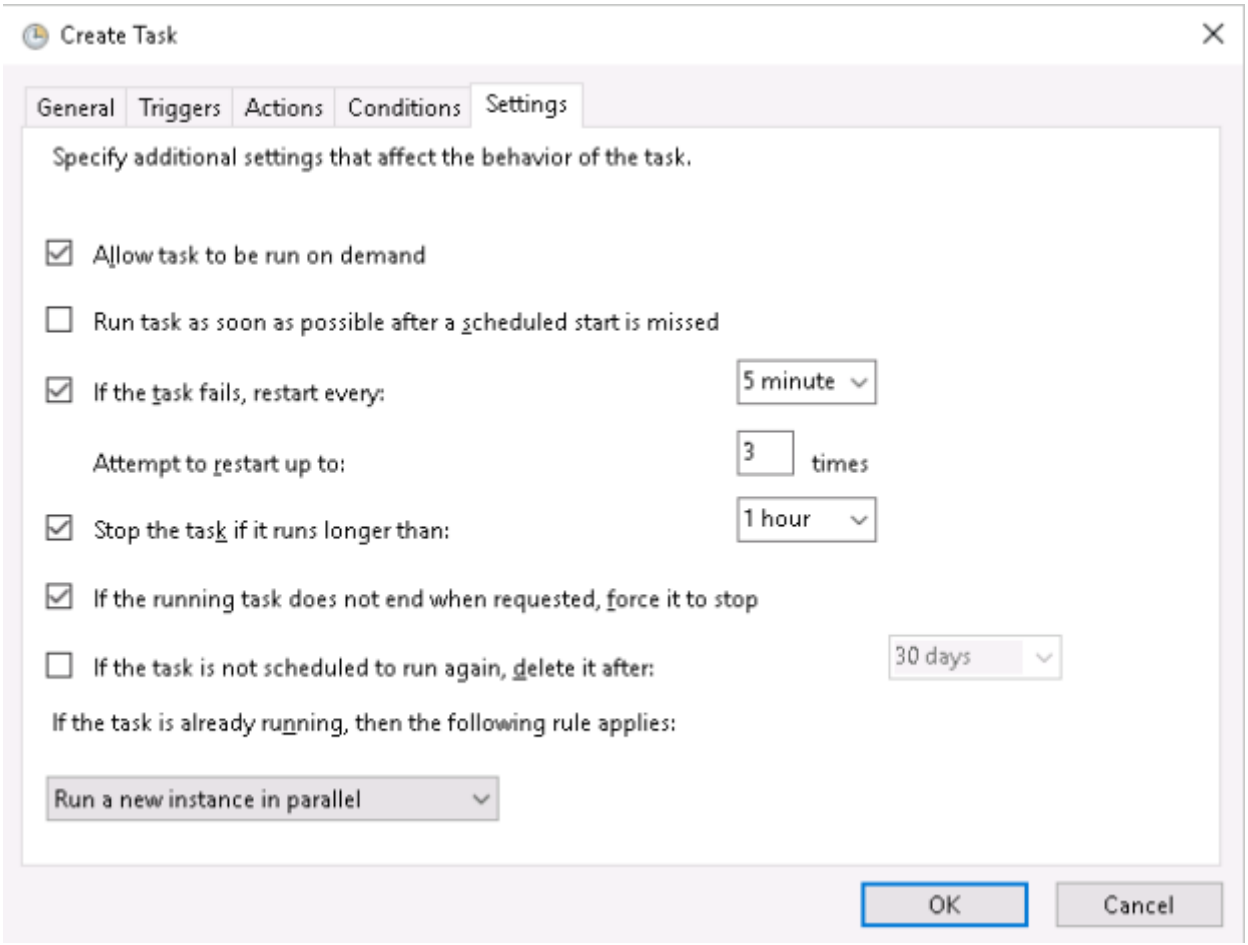


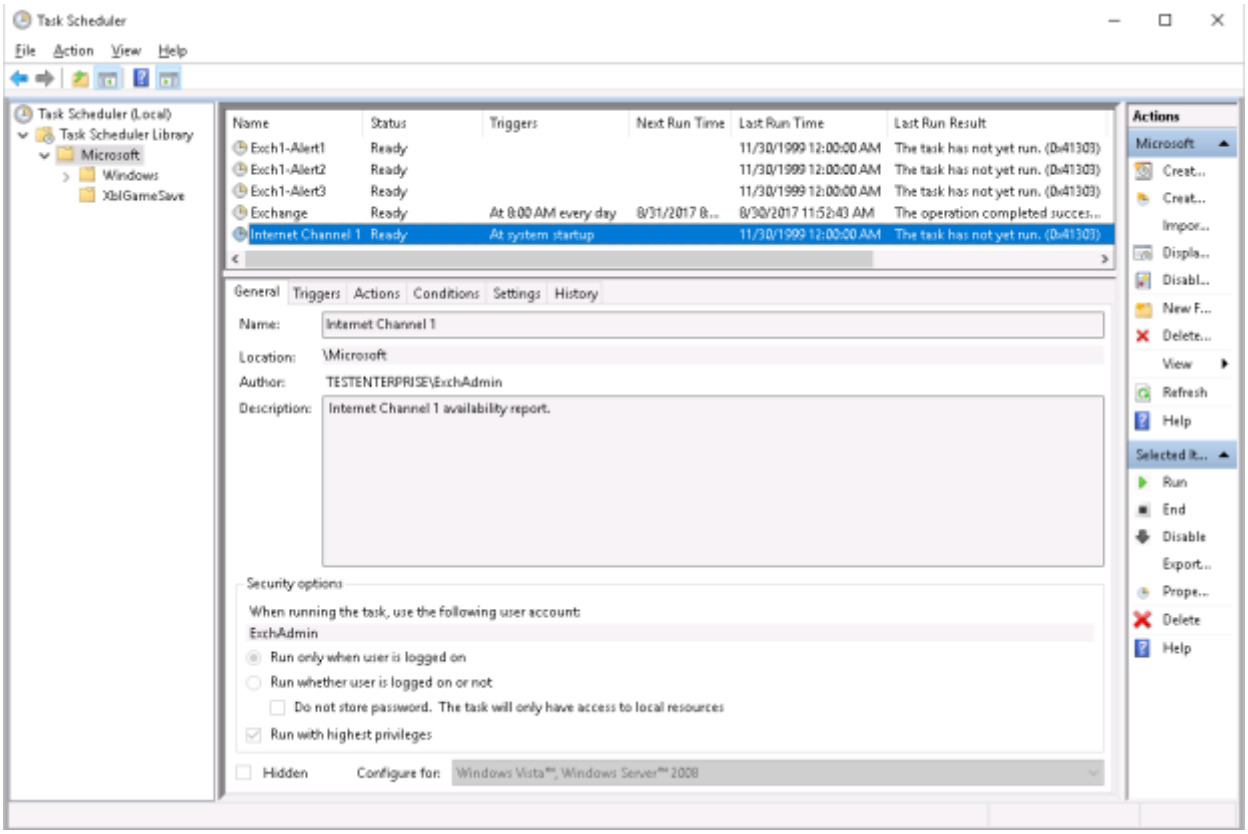

Create Task
General
Triggers
Actions
Conditions
Settings
Name:
Internet Channel 1
Location:
\Microsoft
Author:
TESTENTERPRISE\ExchAdmin
Description:
Internet Channel 1 availability report.
Security options
When running the task, use the following user account:
TESTENTERPRISE\ExchAdmin
Change User or Group...
Run only when user is logged on
Run whether user is logged on or not
Do not store password. The task will only have access to local computer resources.
Run with highest privileges
Hidden
Configure for:
Windows Vista™, Windows Server™ 2008
OK
Cancel


Create Task
General
Triggers
Actions
Conditions
Settings
When you create a task, you can specify the conditions that will trigger the task.
Trigger
Details
Status
At startup
At system startup
Enabled
New...
Edit...
Delete
OK
Cancel


Create Task
General
Triggers
Actions
Conditions
Settings
When you create a task, you must specify the action that will occur when your task starts.
Action
Details
Start a program
C:\VBS\INTERNET.cmd
New...
Edit...
Delete
OK
Cancel

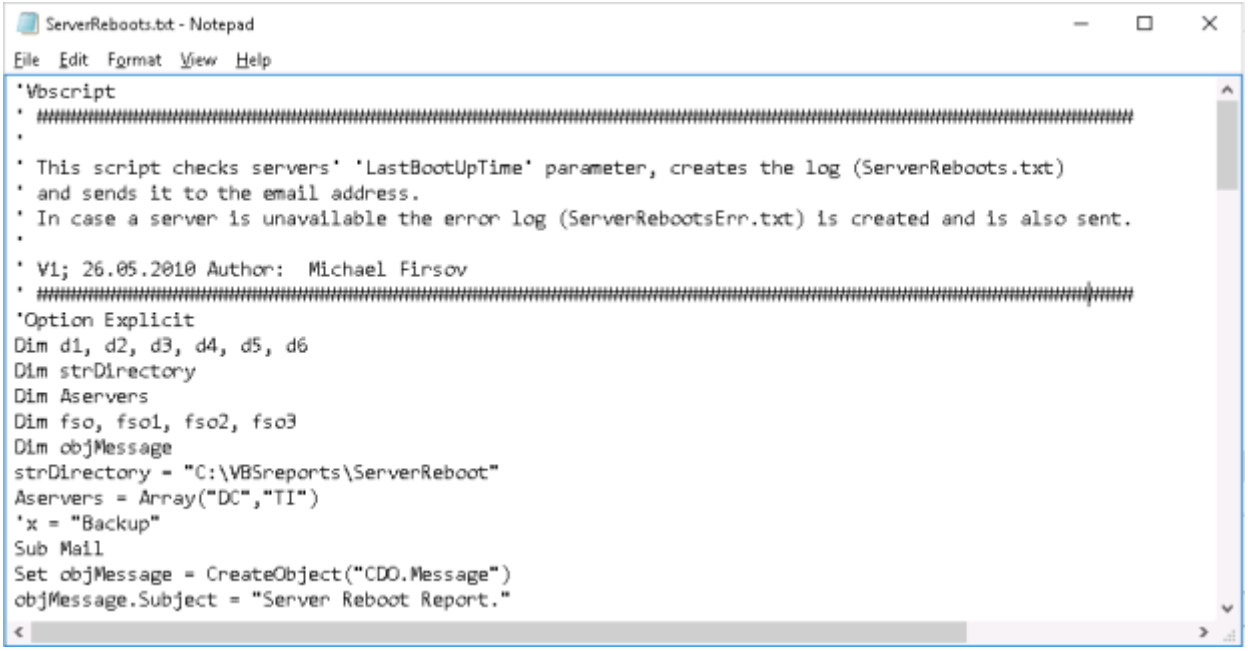

Create Task
General
Triggers
Actions
Conditions
Settings
Specify the conditions that, along with the trigger, determine whether the task should run. The task will not run if any condition specified here is not true.
Idle
Start the task only if the computer is idle for:
10 minutes
Wait for idle for:
1 hour
Stop if the computer ceases to be idle
Restart if the idle state resumes
Power
Start the task only if the computer is on AC power
Stop if the computer switches to battery power
Wake the computer to run this task
Network
Start only if the following network connection is available:
Any connection
OK
Cancel



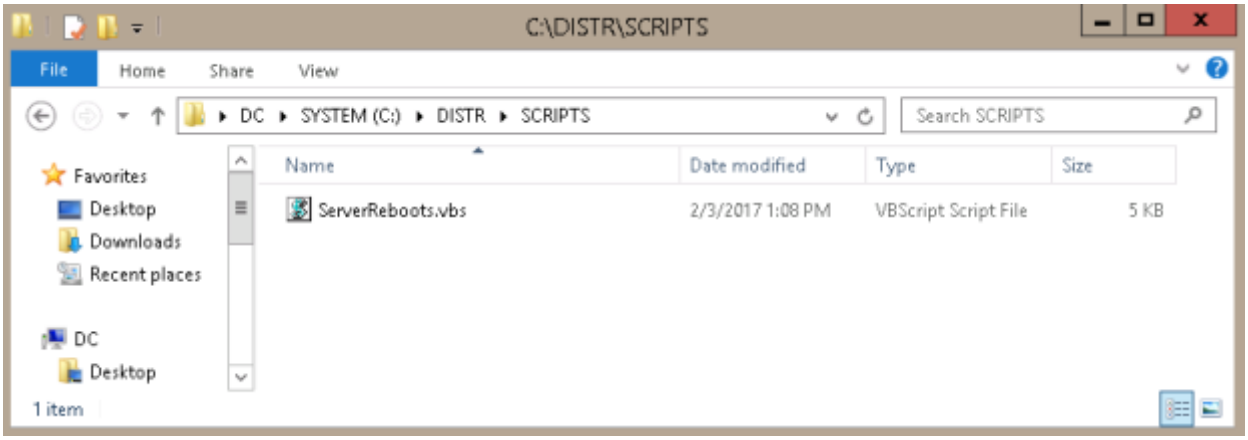


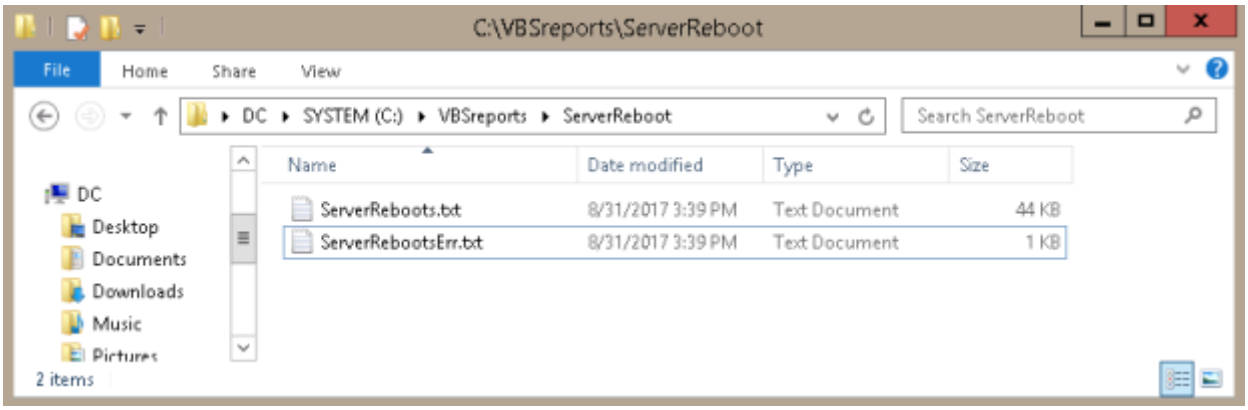
3) **ServerReboots – ServerReboots-vbs**

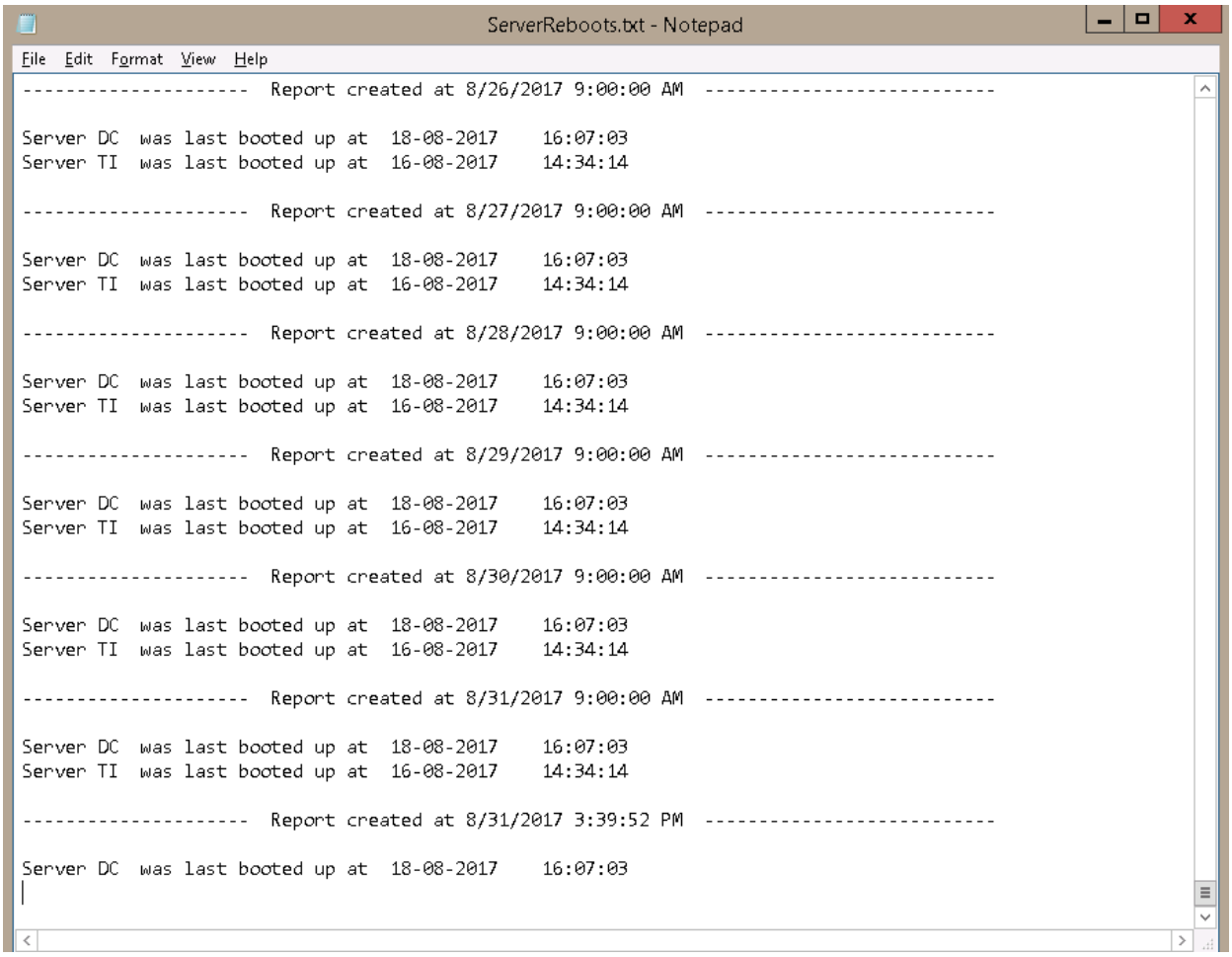
Please type in the names of your servers in the **Aservers** filed (*Aservers* = *Array("**DC**","**TI**")* by default).

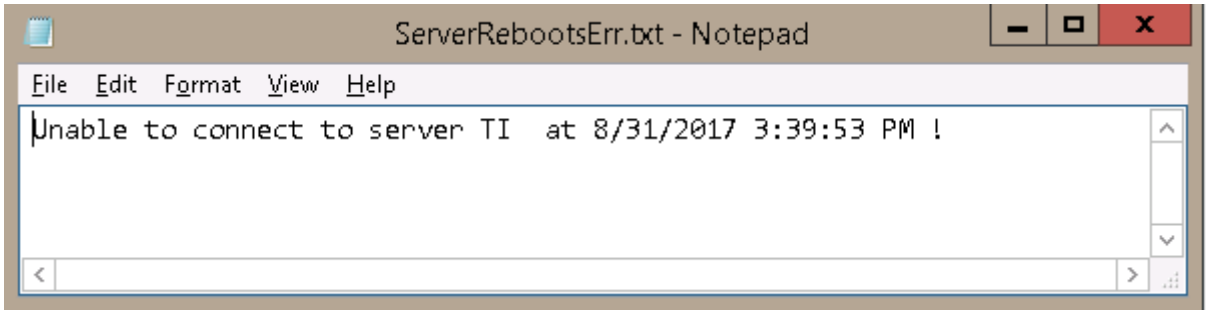


The script file:

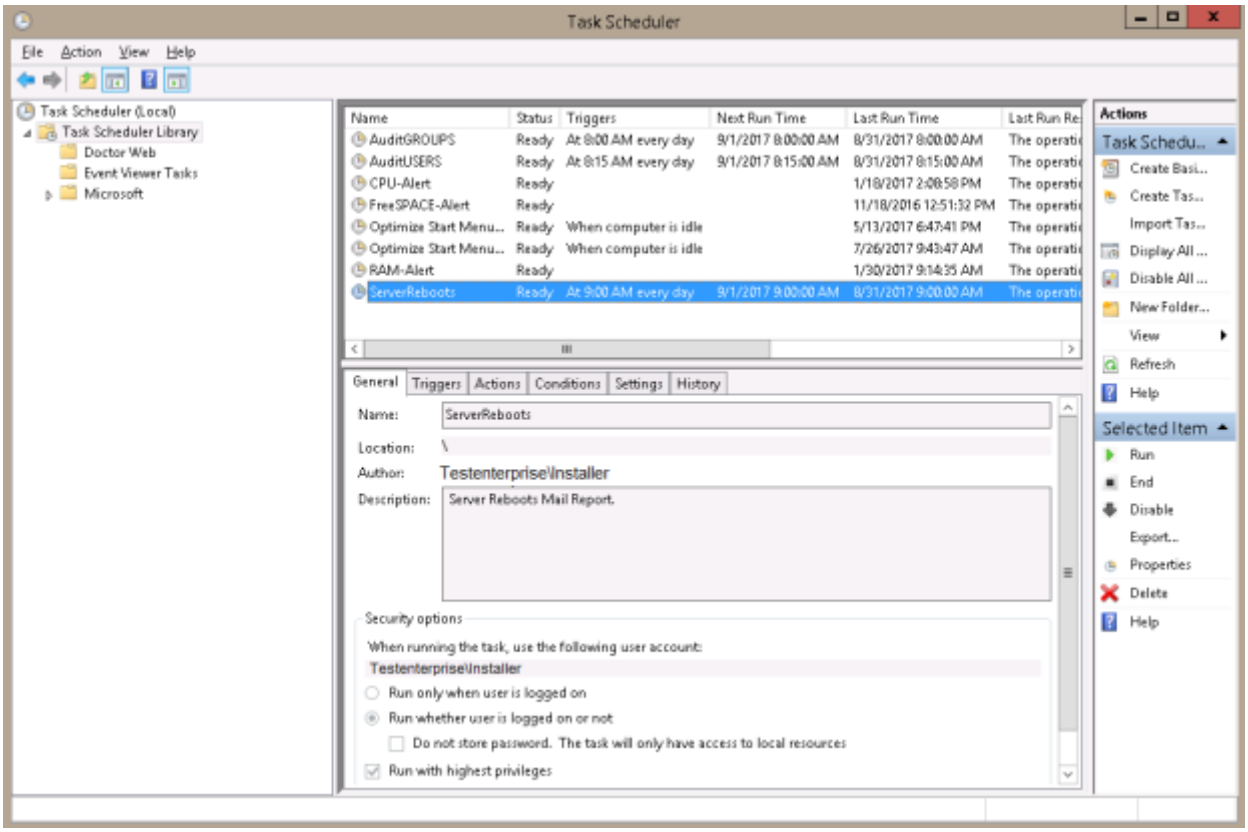


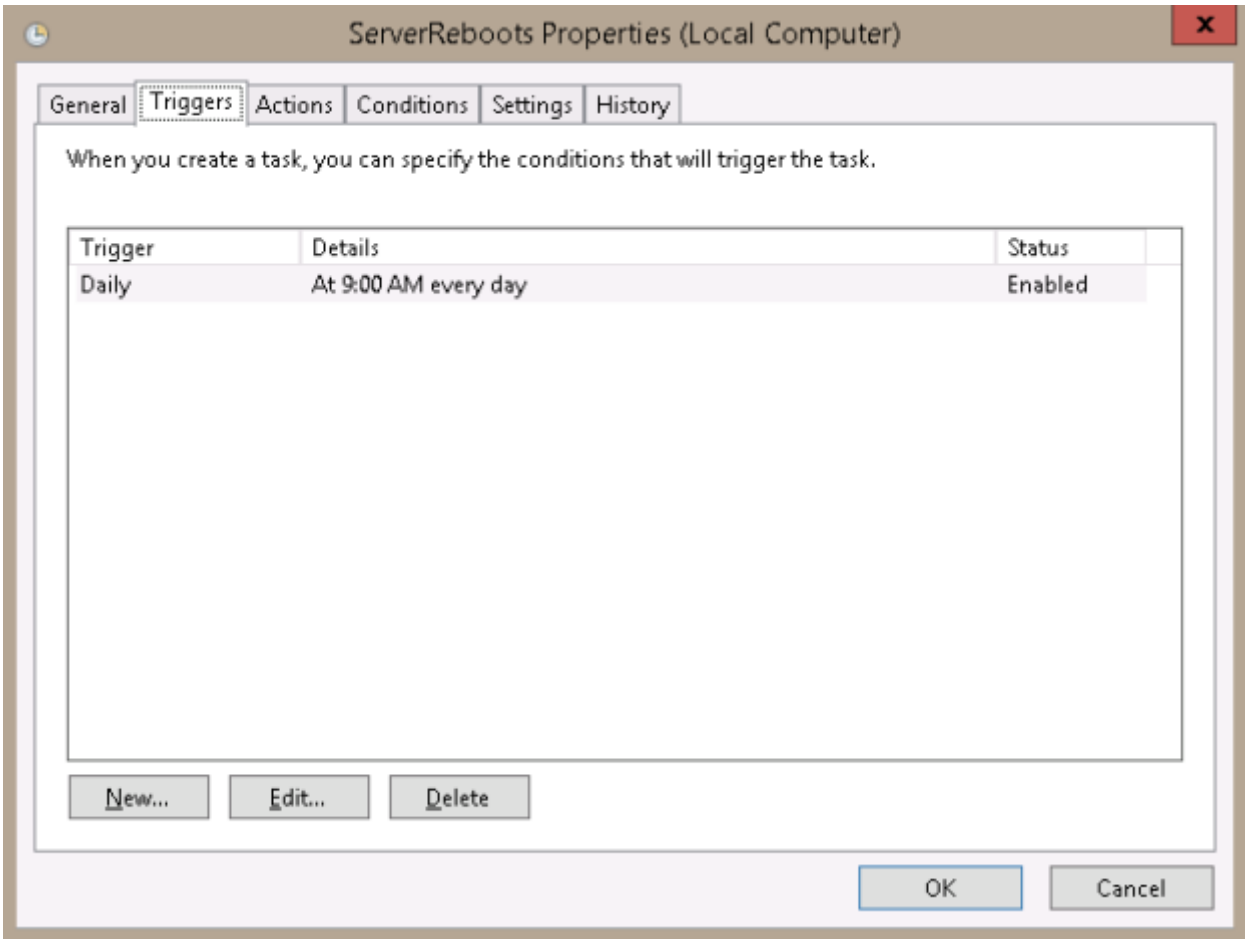


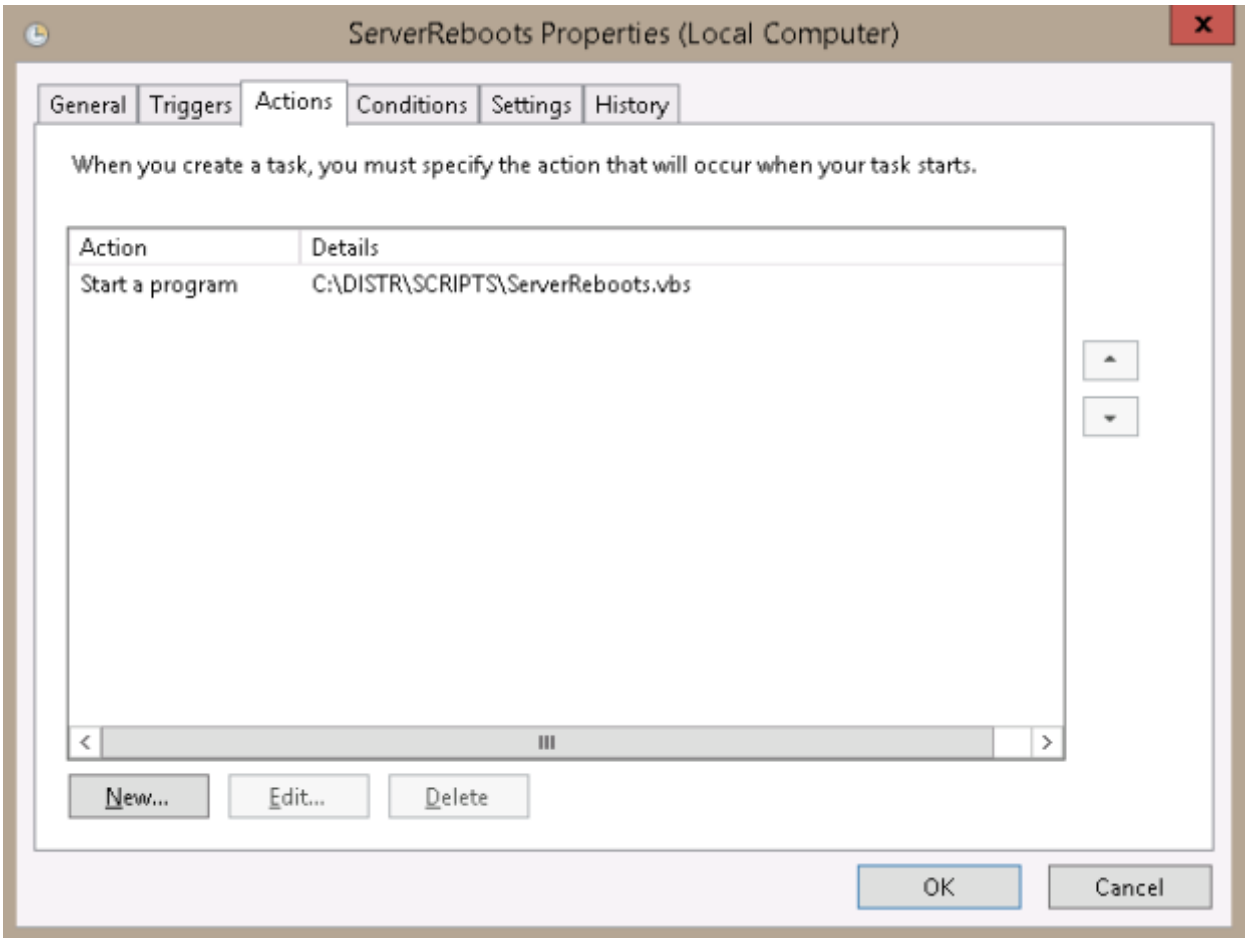




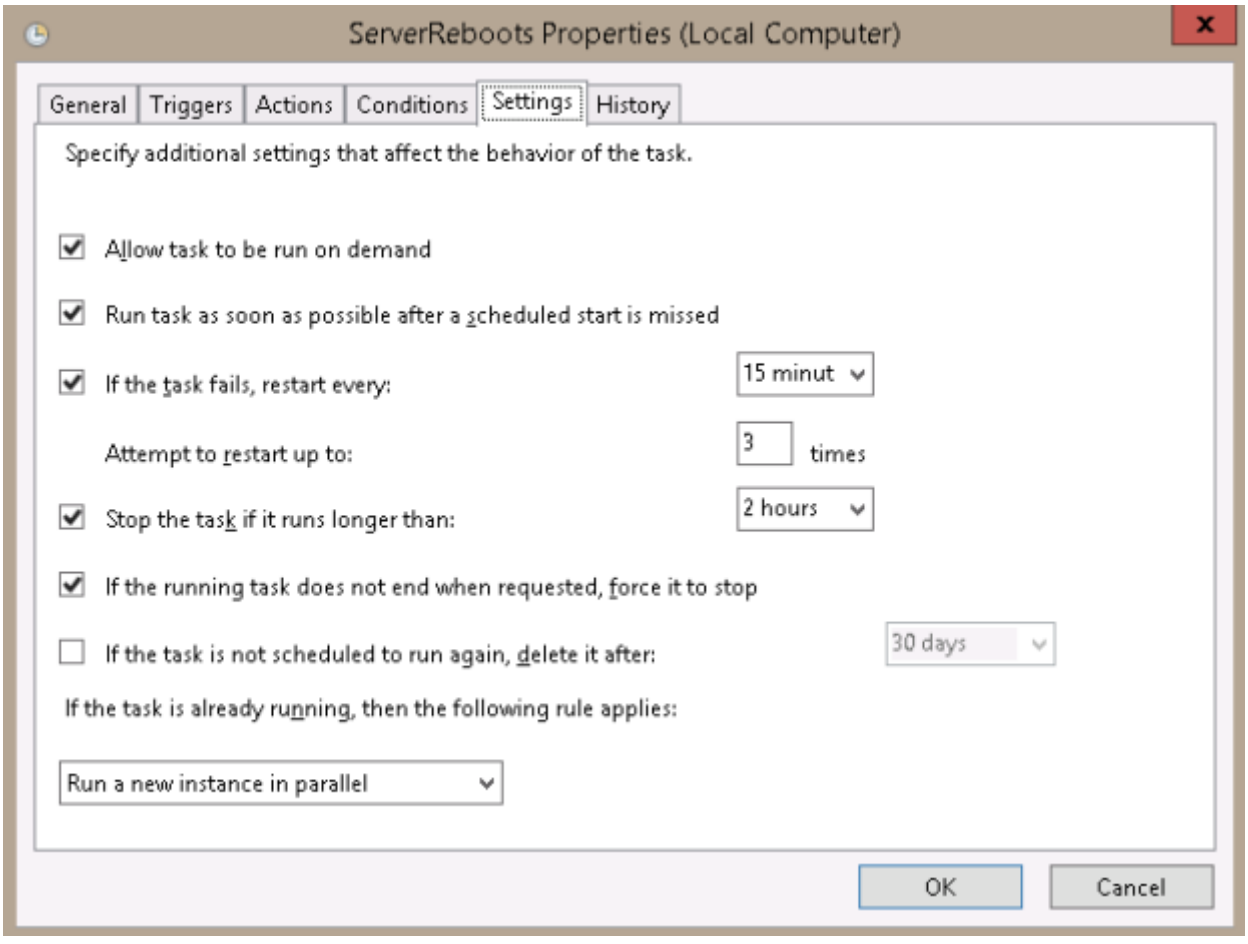
The task **ServerReboots**:

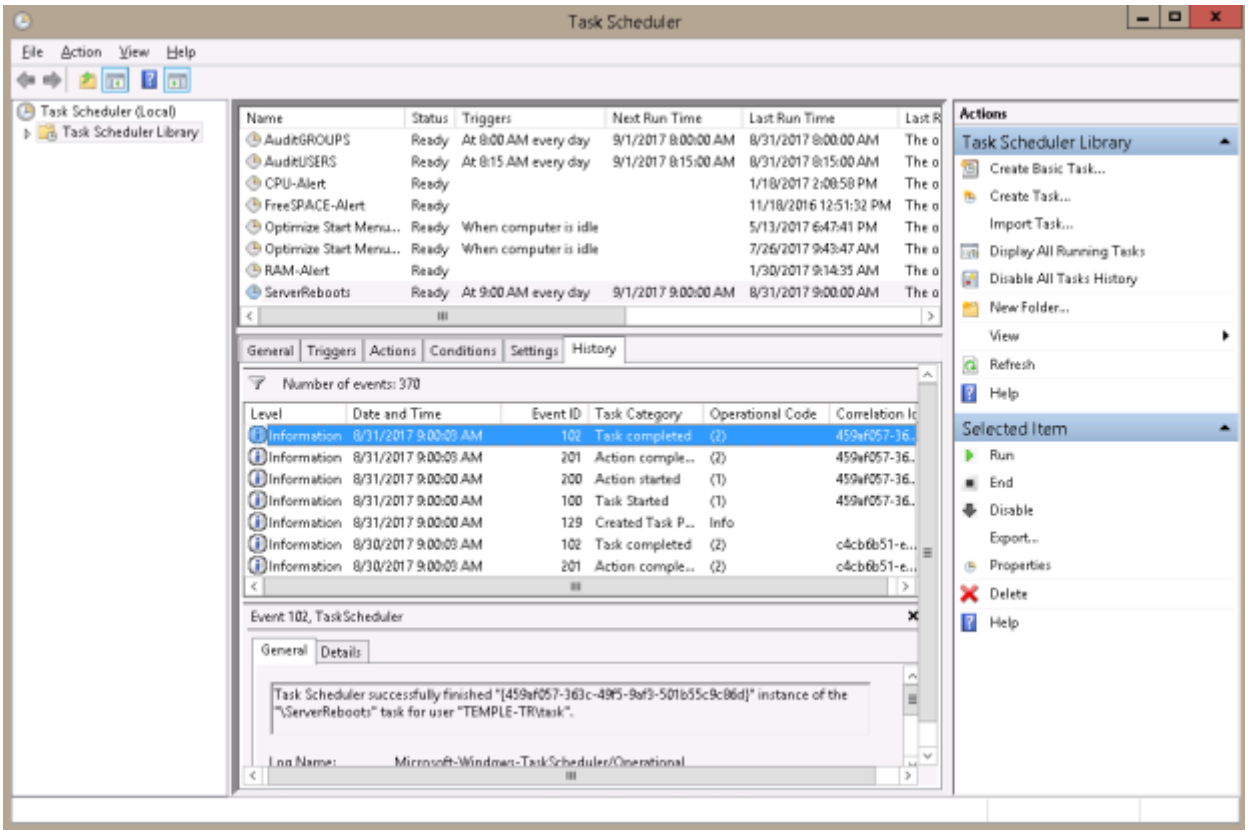

Task Scheduler
File Action View Help
Task Scheduler (Local)
Task Scheduler Library
Doctor Web
Event Viewer Tasks
Microsoft
Name Status Triggers Next Run Time Last Run Time
AuditGROUPS Ready At 8:00 AM every day 9/1/2017 8:00:00 AM 8/31/2017 8:00:00 AM
AuditUSERS Ready At 8:15 AM every day 9/1/2017 8:15:00 AM 8/31/2017 8:15:00 AM
CPU-Alert Ready 1/18/2017 2:08:58 PM
FreeSPACE-Alert Ready 11/18/2016 12:51:32 PM
Optimize Start Menu... Ready When computer is idle 5/13/2017 6:47:41 PM
Optimize Start Menu... Ready When computer is idle 7/26/2017 9:43:47 AM
RAM-Alert Ready 1/30/2017 9:14:35 AM
ServerReboots Ready At 9:00 AM every day 9/1/2017 9:00:00 AM 8/31/2017 9:00:00 AM
General Triggers Actions Conditions Settings History
Name: ServerReboots
Location: \
Author: Testenterprise\Installer
Description: Server Reboots Mail Report.
Security options
When running the task, use the following user account:
Testenterprise\Installer
Run only when user is logged on
Run whether user is logged on or not
Do not store password. The task will only have access to local resources
Run with highest privileges
Actions
Task Schedu...
Create Basi...
Create Tas...
Import Tas...
Display All ...
Disable All ...
New Folder...
View
Refresh
Help
Selected Item
Run
End
Disable
Export...
Properties
Delete
Help


ServerReboots Properties (Local Computer)
General Triggers Actions Conditions Settings History
When you create a task, you can specify the conditions that will trigger the task.
Trigger Details Status
Daily At 9:00 AM every day Enabled
New... Edit... Delete
OK Cancel



As **ServerReboots.vbs** is NOT going to be run continiously I start this script directly (withouth the corresponding *.cmd* file).

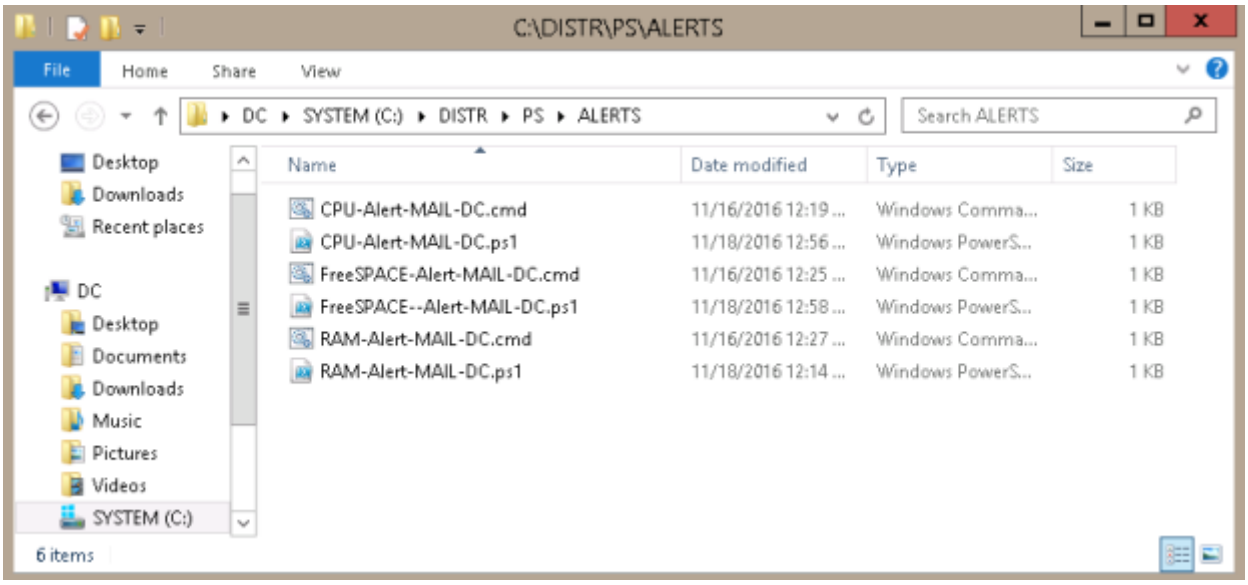




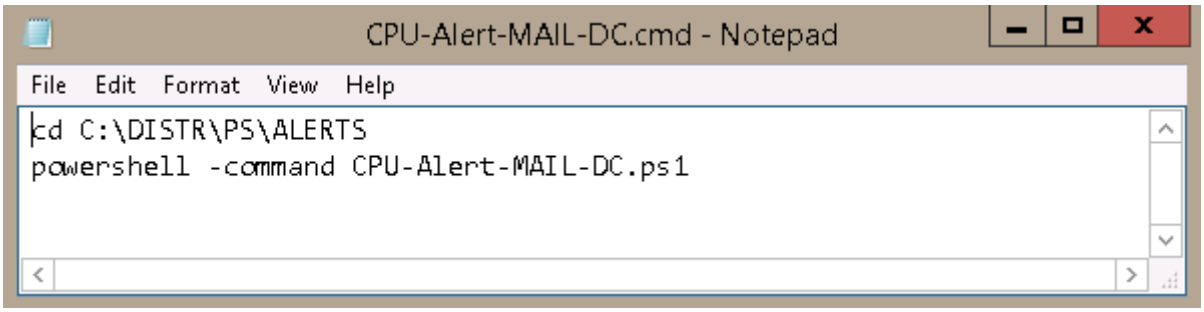
4. **Alerts**

The scripts:

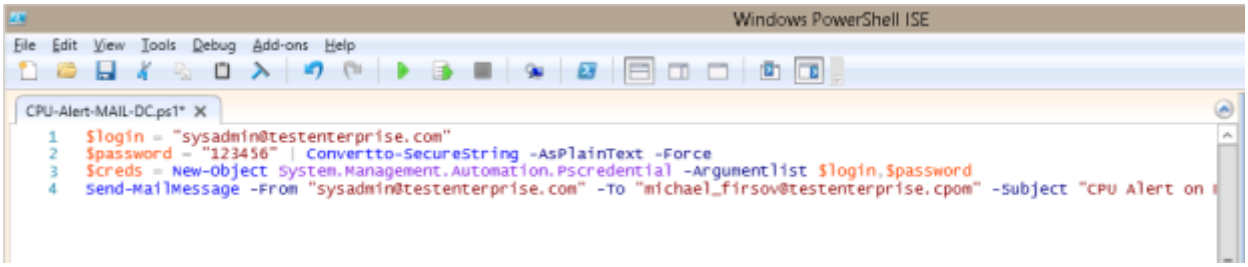
[CPU-Alert-MAIL-DC-cmd](#)
[CPU-Alert-MAIL-DC-ps1FreeSPACE-Alert-MAIL-DC-cmdRAM-Alert-MAIL-DC-cmdFreeSPACE-Alert-MAIL-DC-ps1RAM-Alert-MAIL-DC-ps1](#)



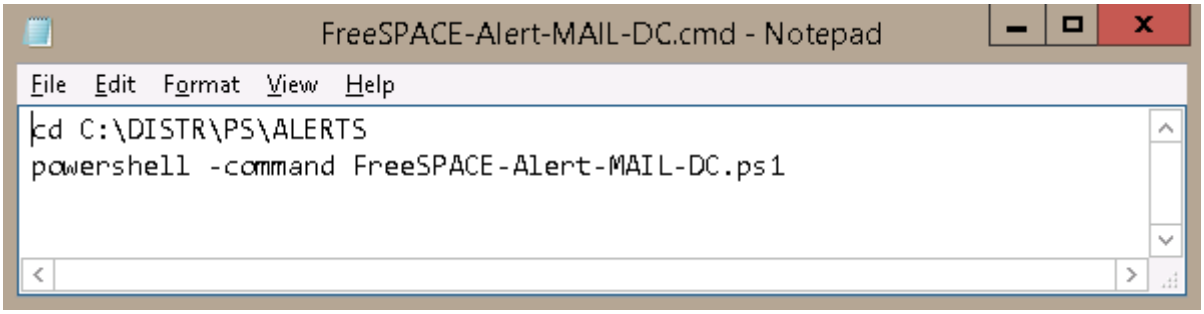
For example, *CPU-Alert-MAIL-DC.cmd* runs **CPU-Alert-MAIL-DC.ps1**



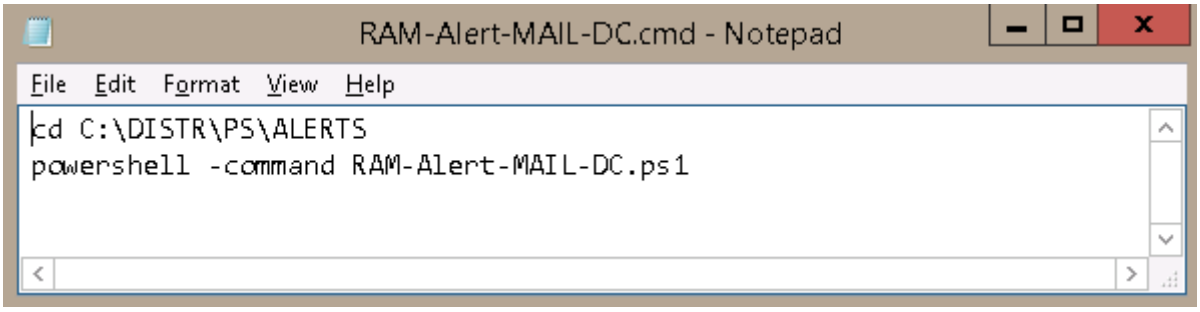
$login = “sysadmin@testenterprise.com”
$password = “123456” | Convertto-SecureString -AsPlainText -Force
$creds = New-Object System.Management.Automation.Pscredential -Argumentlist $login,$password
Send-MailMessage -From “sysadmin@testenterprise.com” -To “michael_firsov@testenterprise.cpom” -Subject “CPU Alert on DC !” -Body “CPU Alert on DC! – CPU > 70%” -SmtpServer mail.testenterprise.cpom -Port 25 -Credential $creds



The other scipts pairs differ only in the -Subject and -Body fields: you can type there any warning you like to inform yourself what exactly alert have fired:



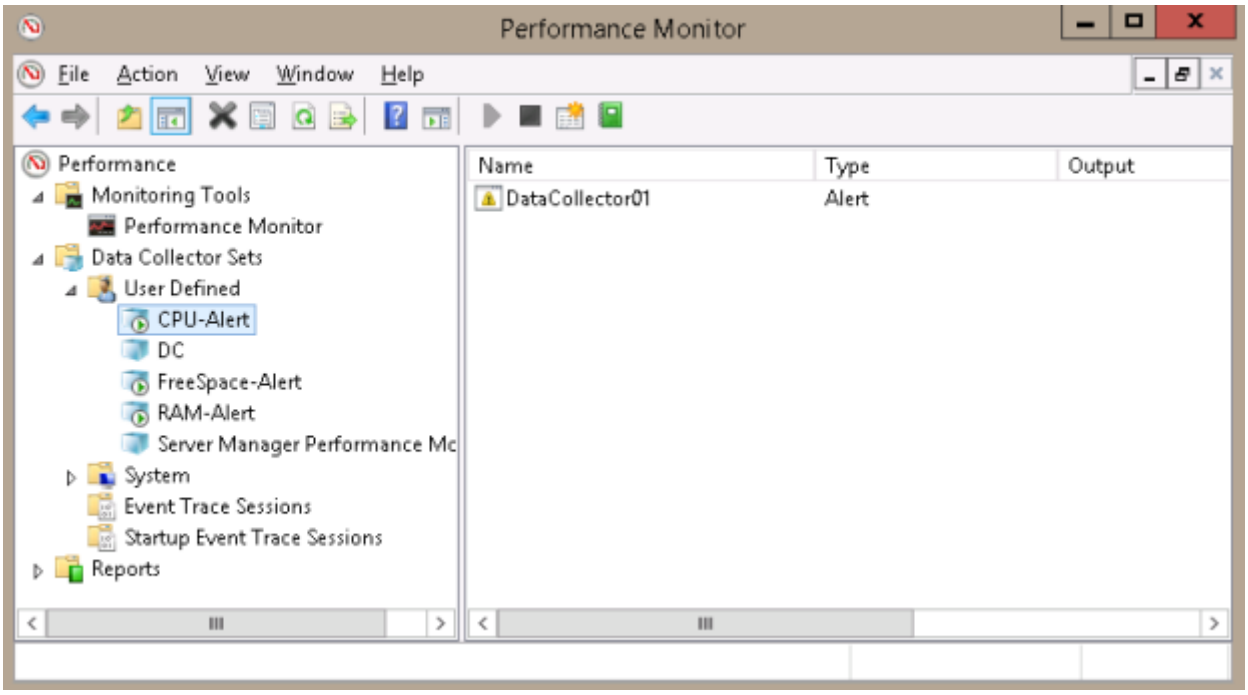
FreeSPACE–Alert-MAIL-DC.ps1
$login = “sysadmin@testenterprise.com”
$password = “123456” | Convertto-SecureString -AsPlainText -Force
$creds = New-Object System.Management.Automation.Pscredential -Argumentlist $login,$password
Send-MailMessage -From “sysadmin@testenterprise.com” -To “michael_firsov@testenterprise.cpom” -Subject “CPU Alert on DC !” -Body “CPU Alert on DC! – CPU > 70%” -SmtpServer mail.testenterprise.cpom -Port 25 -Credential $creds

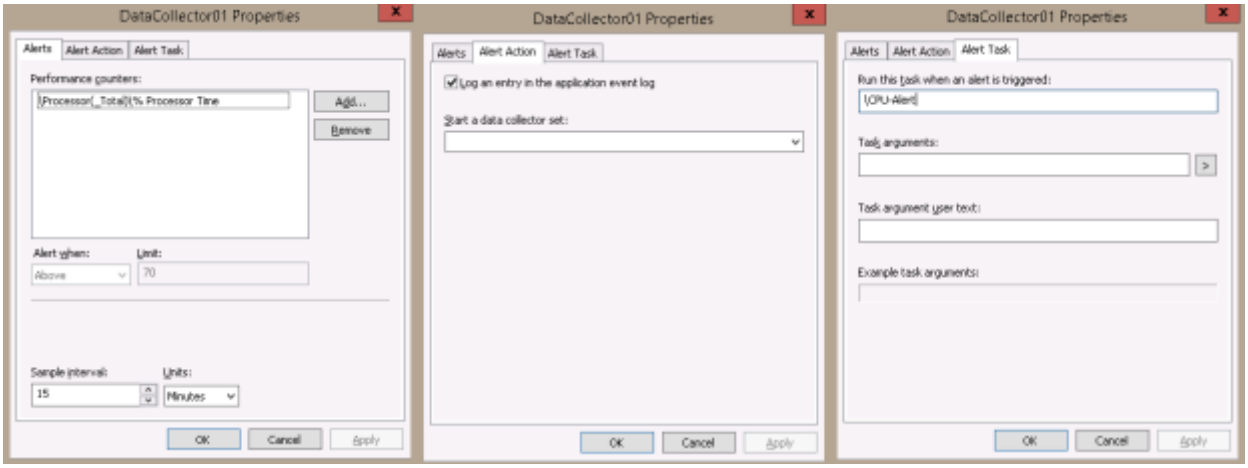


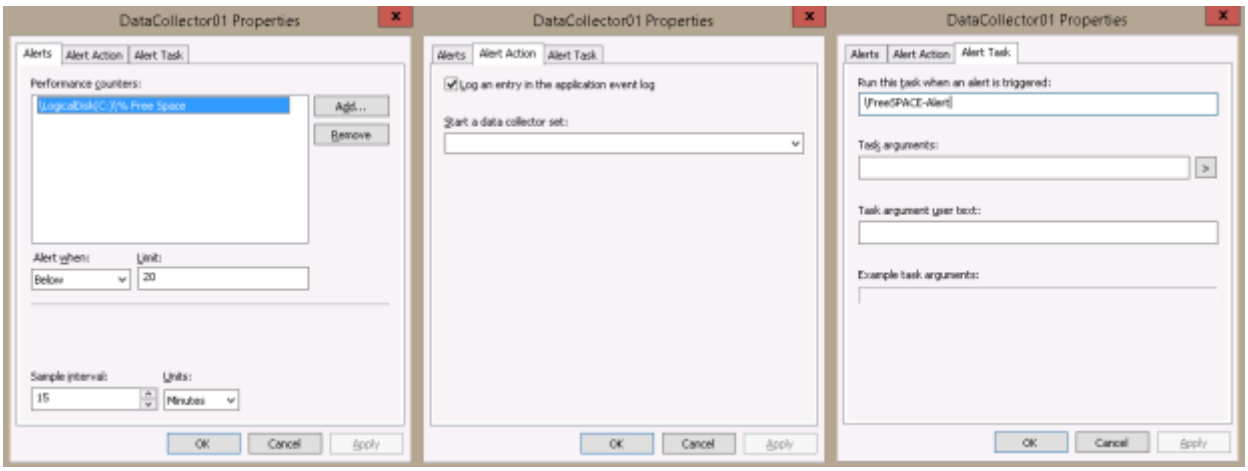
RAM-Alert-MAIL-DC.ps1
$login = “sysadmin@testenterprise.com”
$password = “123456” | Convertto-SecureString -AsPlainText -Force

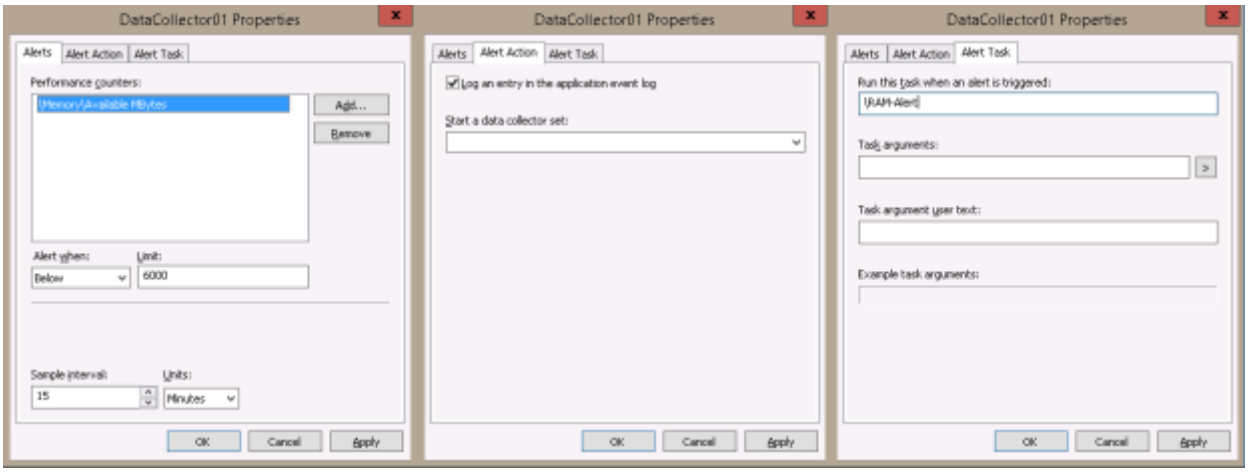
$creds = New-Object System.Management.Automation.Pscredential -Argumentlist $login,$password
Send-MailMessage -From “sysadmin@testenterprise.com” -To “michael_firsov@testenterprise.cpom” -Subject “RAM Alert on DC” -Body “RAM Alert on DC: RAM: Available bytes < 6 GB.” -SmtpServer mail.testenterprise.cpom -Port 25 -Credential $creds

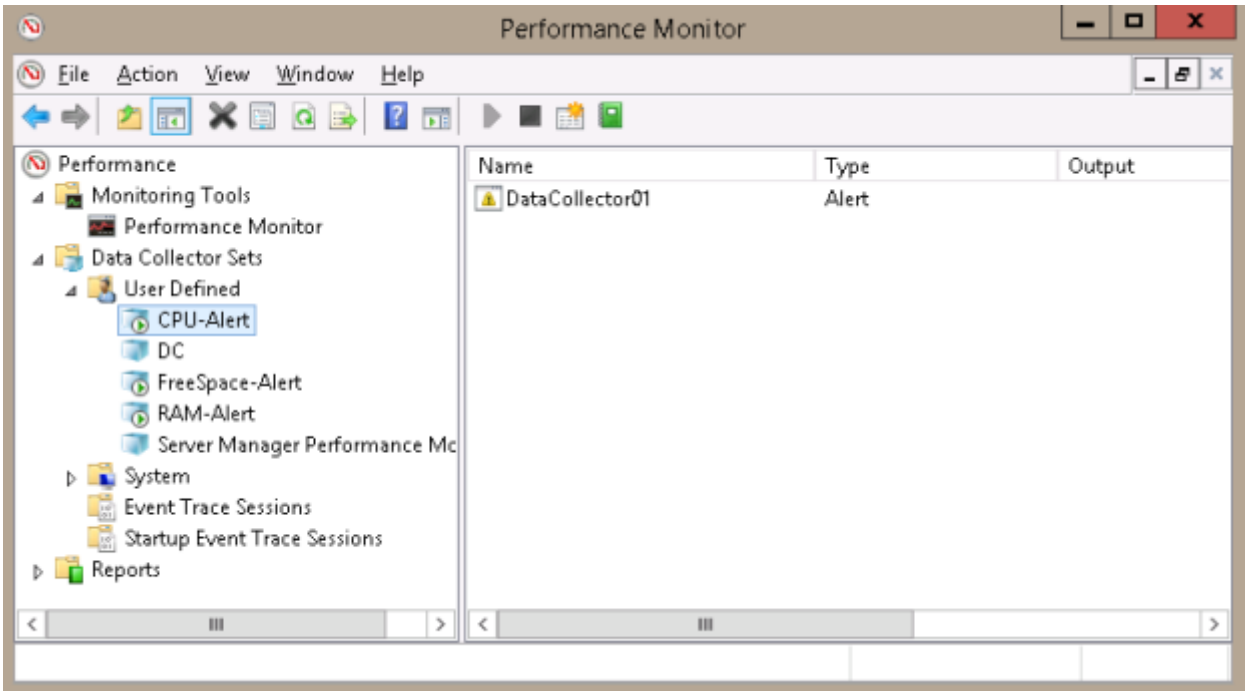
These scripts (***.cmd*** scripts (!), which in turn will run the *.ps1* scripts of the same name) will be run by the corresponding scheduled task.

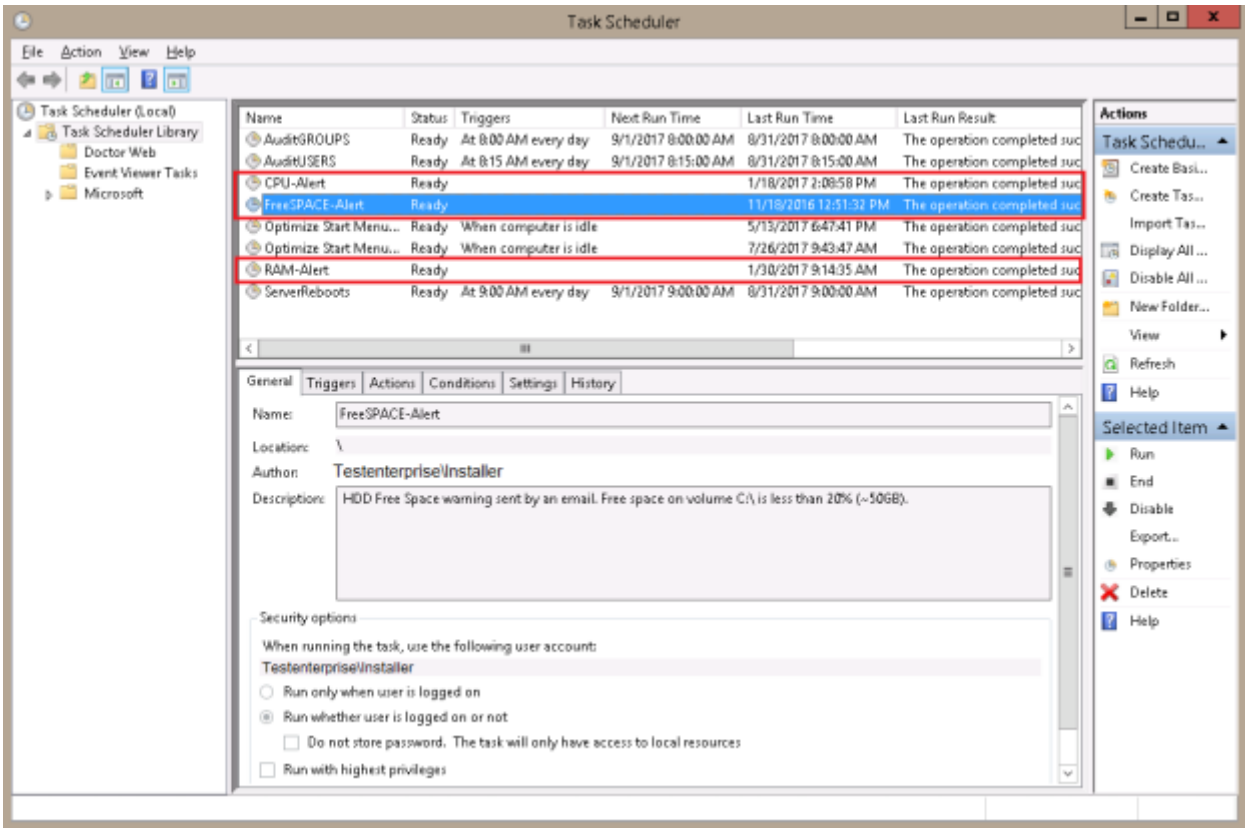


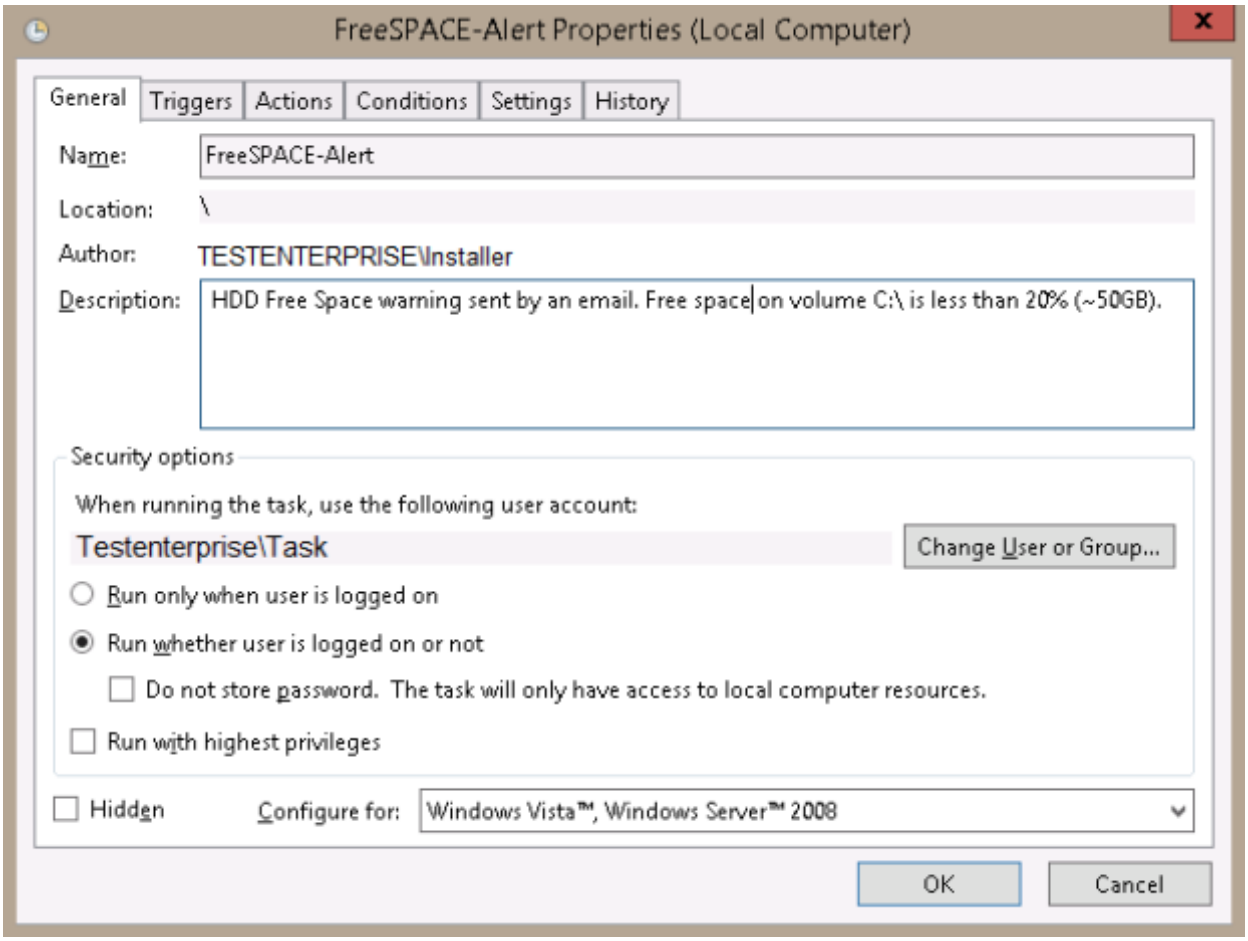


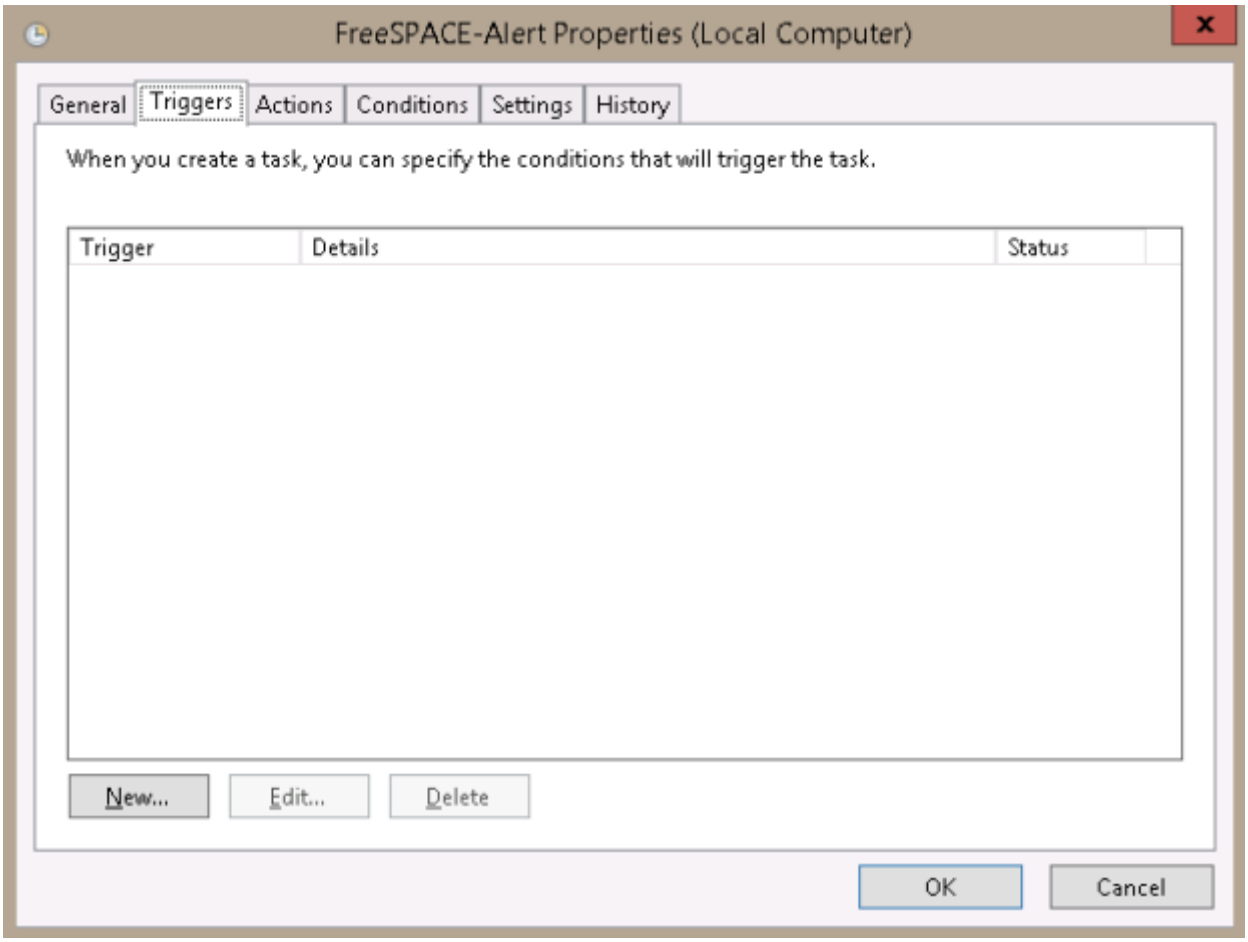



DataCollector01 Properties
Alerts
Alert Action
Alert Task
Performance counters:
\Memory\Available MBytes
Add...
Remove
Alert when:
Below
Limit:
6000
Sample interval:
15
Units:
Minutes
OK
Cancel
Apply
DataCollector01 Properties
Alerts
Alert Action
Alert Task
Log an entry in the application event log
Start a data collector set:
OK
Cancel
Apply
DataCollector01 Properties
Alerts
Alert Action
Alert Task
Run this task when an alert is triggered:
\RAM-Alert
Task arguments:
Task argument user text:
Example task arguments:
OK
Cancel
Apply

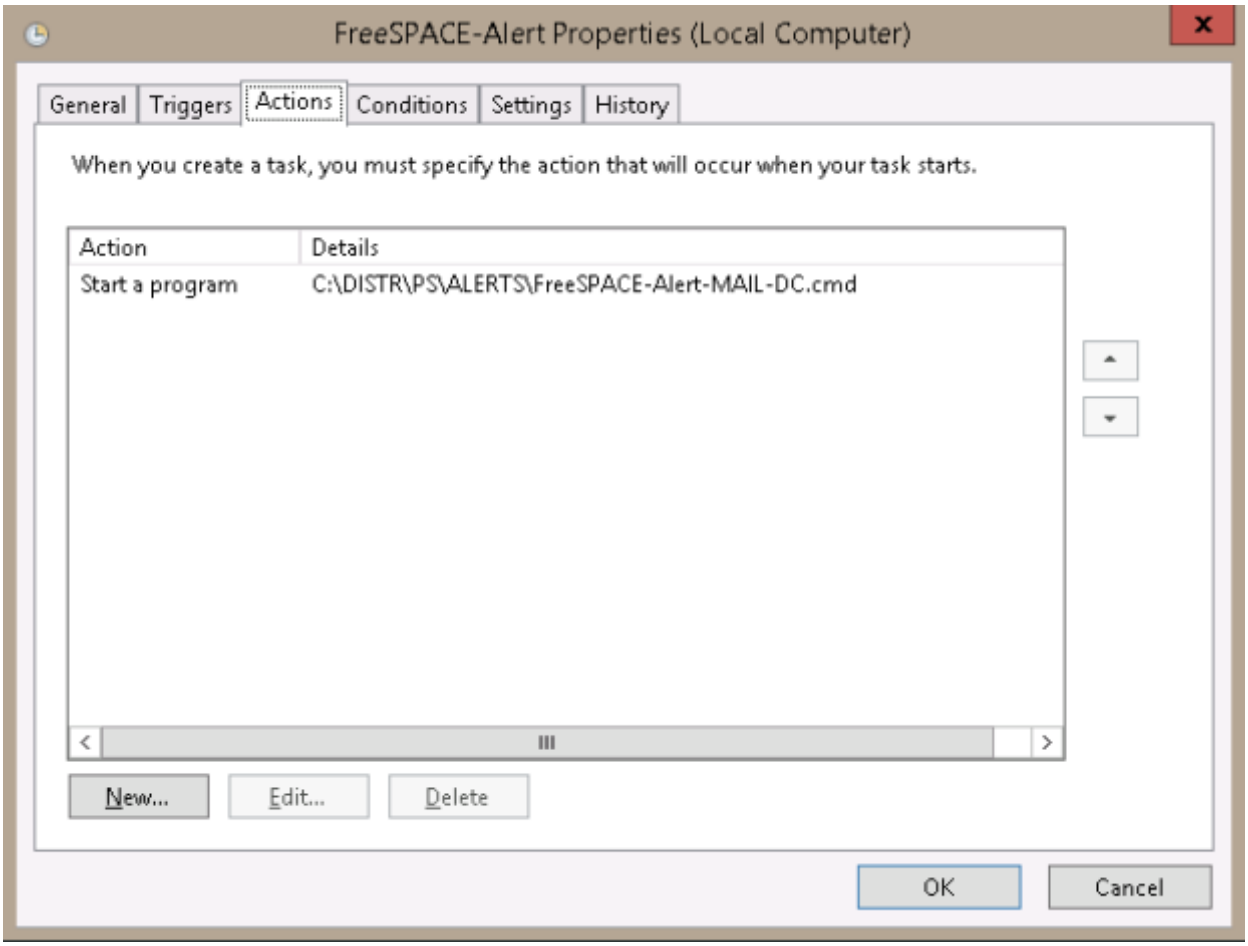

Performance Monitor
File
Action
View
Window
Help
Performance
Monitoring Tools
Performance Monitor
Data Collector Sets
User Defined
CPU-Alert
DC
FreeSpace-Alert
RAM-Alert
Server Manager Performance Mc
System
Event Trace Sessions
Startup Event Trace Sessions
Reports
Name
Type
Output
DataCollector01
Alert

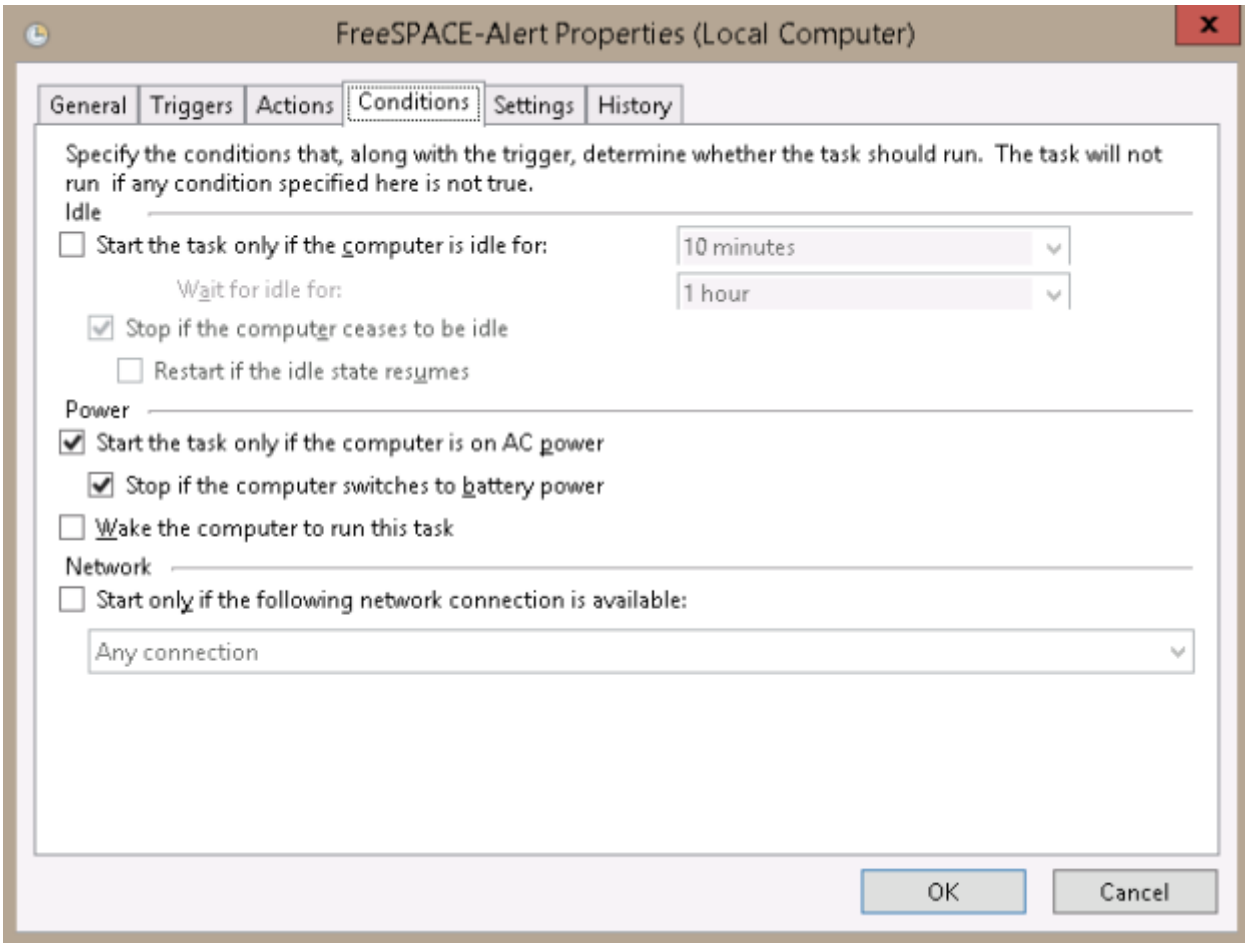

Task Scheduler
File Action View Help
Task Scheduler (Local)
Task Scheduler Library
Doctor Web
Event Viewer Tasks
Microsoft
Name Status Triggers Next Run Time Last Run Time Last Run Result
AuditGROUPS Ready At 8:00 AM every day 9/1/2017 8:00:00 AM 8/31/2017 8:00:00 AM The operation completed suc
AuditUSERS Ready At 8:15 AM every day 9/1/2017 8:15:00 AM 8/31/2017 8:15:00 AM The operation completed suc
CPU-Alert Ready 1/18/2017 2:08:58 PM The operation completed suc
FreeSPACE-Alert Ready 11/18/2016 12:51:32 PM The operation completed suc
Optimize Start Menu... Ready When computer is idle 5/15/2017 6:47:41 PM The operation completed suc
Optimize Start Menu... Ready When computer is idle 7/26/2017 9:43:47 AM The operation completed suc
RAM-Alert Ready 1/30/2017 9:14:35 AM The operation completed suc
ServerReboots Ready At 9:00 AM every day 9/1/2017 9:00:00 AM 8/31/2017 9:00:00 AM The operation completed suc
General Triggers Actions Conditions Settings History
Name: FreeSPACE-Alert
Location: \
Author: Testenterprise\Installer
Description: HDD Free Space warning sent by an email. Free space on volume C:\ is less than 20% (~50GB).
Security options
When running the task, use the following user account:
Testenterprise\Installer
Run only when user is logged on
Run whether user is logged on or not
Do not store password. The task will only have access to local resources
Run with highest privileges
Actions
Task Schedu...
Create Basi...
Create Tas...
Import Tas...
Display All ...
Disable All ...
New Folder...
View
Refresh
Help
Selected Item
Run
End
Disable
Export...
Properties
Delete
Help

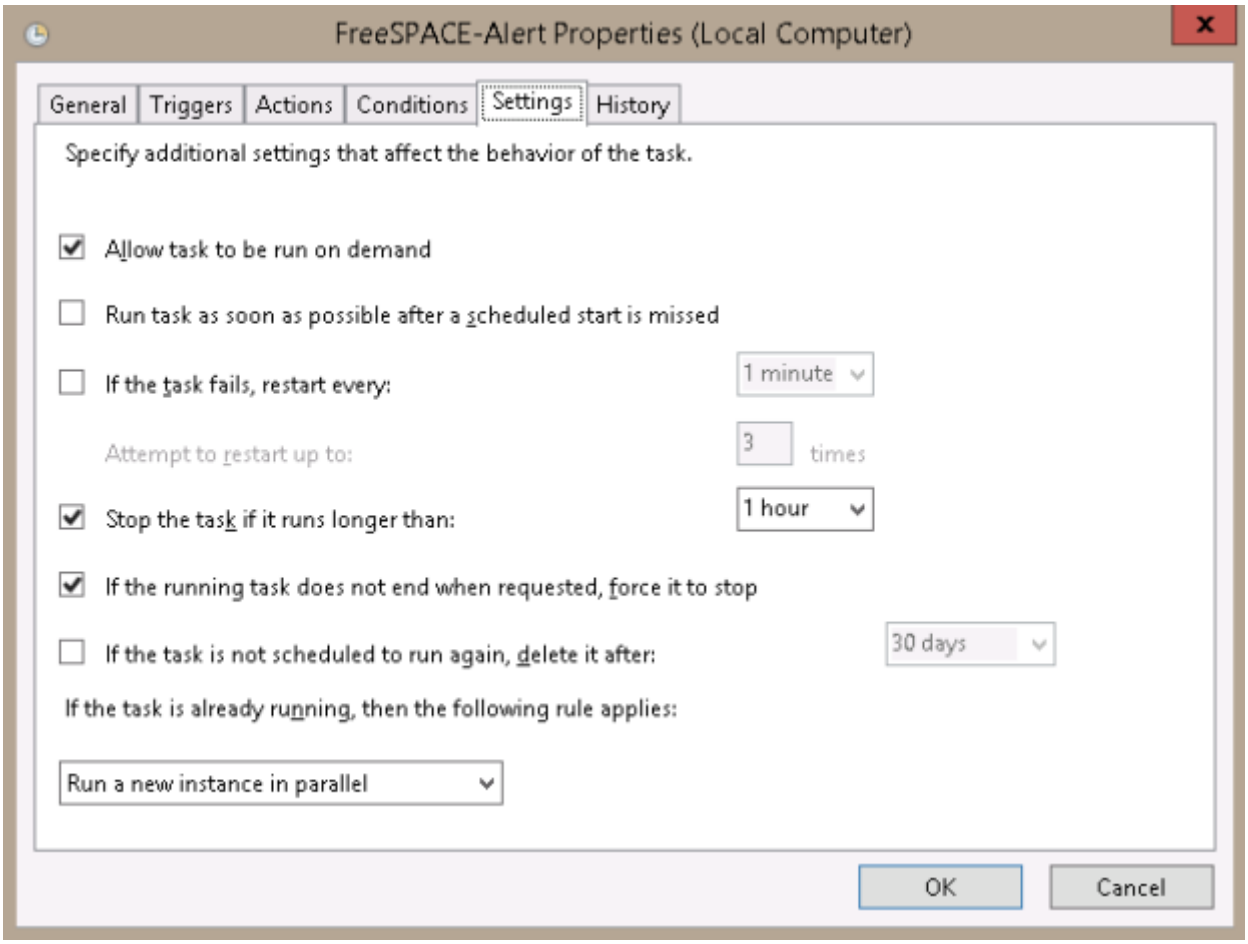

FreeSPACE-Alert Properties (Local Computer)
General Triggers Actions Conditions Settings History
Name: FreeSPACE-Alert
Location: \
Author: TESTENTERPRISE\Installer
Description: HDD Free Space warning sent by an email. Free space on volume C:\ is less than 20% (~50GB).
Security options
When running the task, use the following user account:
Testenterprise\Task
Change User or Group...
Run only when user is logged on
Run whether user is logged on or not
Do not store password. The task will only have access to local computer resources.
Run with highest privileges
Hidden
Configure for: Windows Vista™, Windows Server™ 2008
OK
Cancel



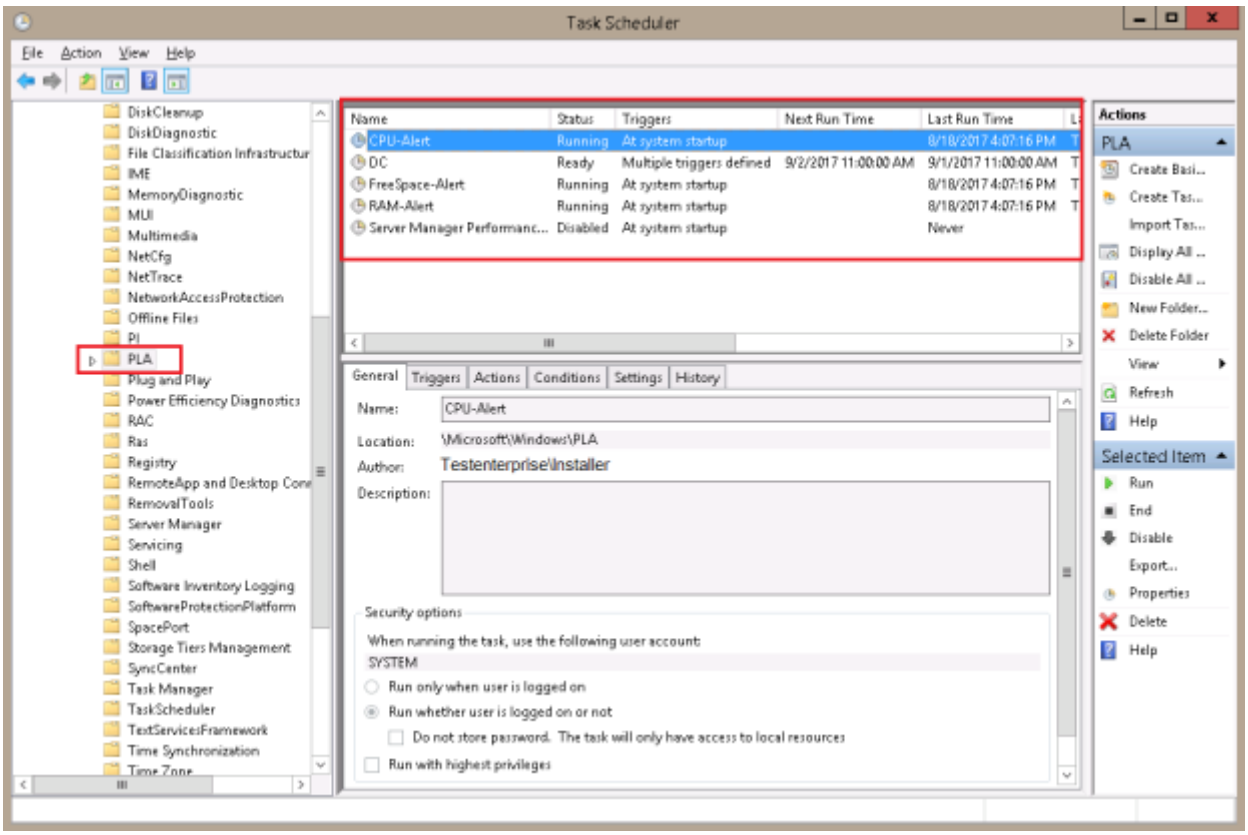
Please note that the **Triggers** tag of the task is empty – to make the alert run after server reboot I must configure the **Triggers** tab of another *FreeSpace-Alert* task which gets created automatically at **Microsoft\Windows\PLA** section of the **Task Scheduler** (I'll show it a bit later here).


FreeSPACE-Alert Properties (Local Computer)
General
Triggers
Actions
Conditions
Settings
History
When you create a task, you must specify the action that will occur when your task starts.
Action
Details
Start a program
C:\DISTR\PS\ALERTS\FreeSPACE-Alert-MAIL-DC.cmd
New...
Edit...
Delete
OK
Cancel


FreeSPACE-Alert Properties (Local Computer)
General
Triggers
Actions
Conditions
Settings
History
Specify the conditions that, along with the trigger, determine whether the task should run. The task will not run if any condition specified here is not true.
Idle
Start the task only if the computer is idle for:
10 minutes
Wait for idle for:
1 hour
Stop if the computer ceases to be idle
Restart if the idle state resumes
Power
Start the task only if the computer is on AC power
Stop if the computer switches to battery power
Wake the computer to run this task
Network
Start only if the following network connection is available:
Any connection
OK
Cancel

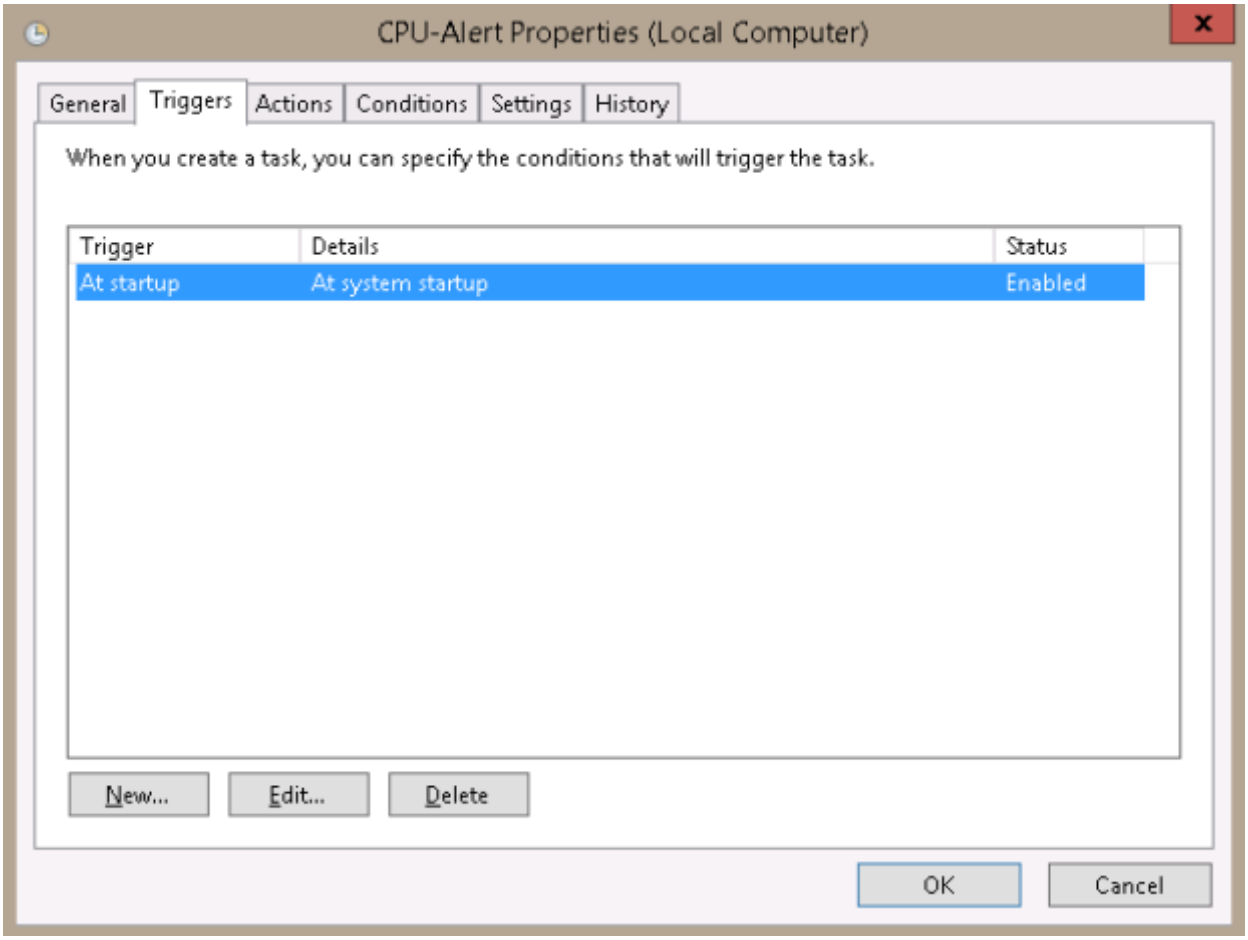


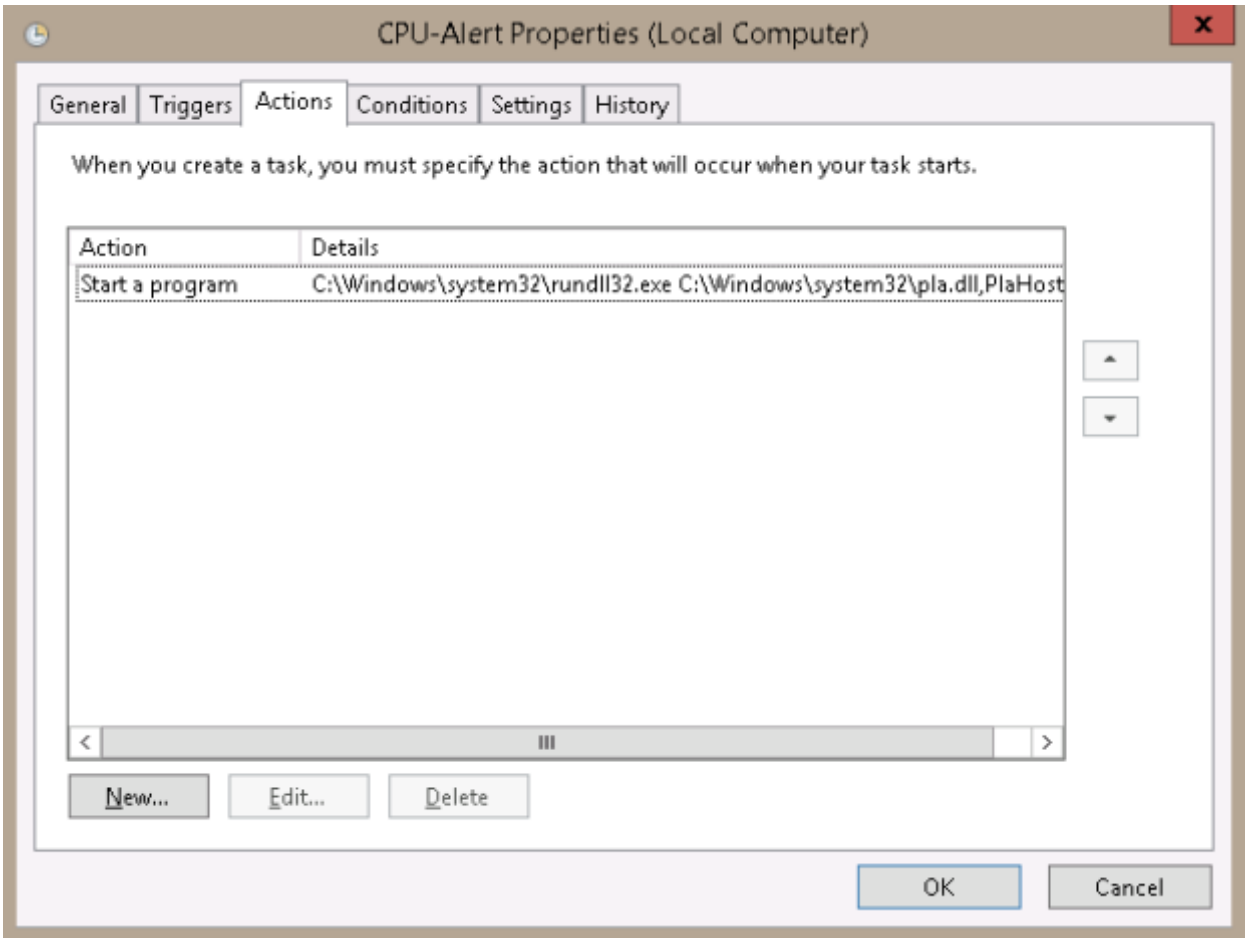
Here are the tasks that make alerts persist over server reboots: each task that have been created at the Task Scheduler\(Library) level has a corresponding same-titled task at Microsoft\PLA level:



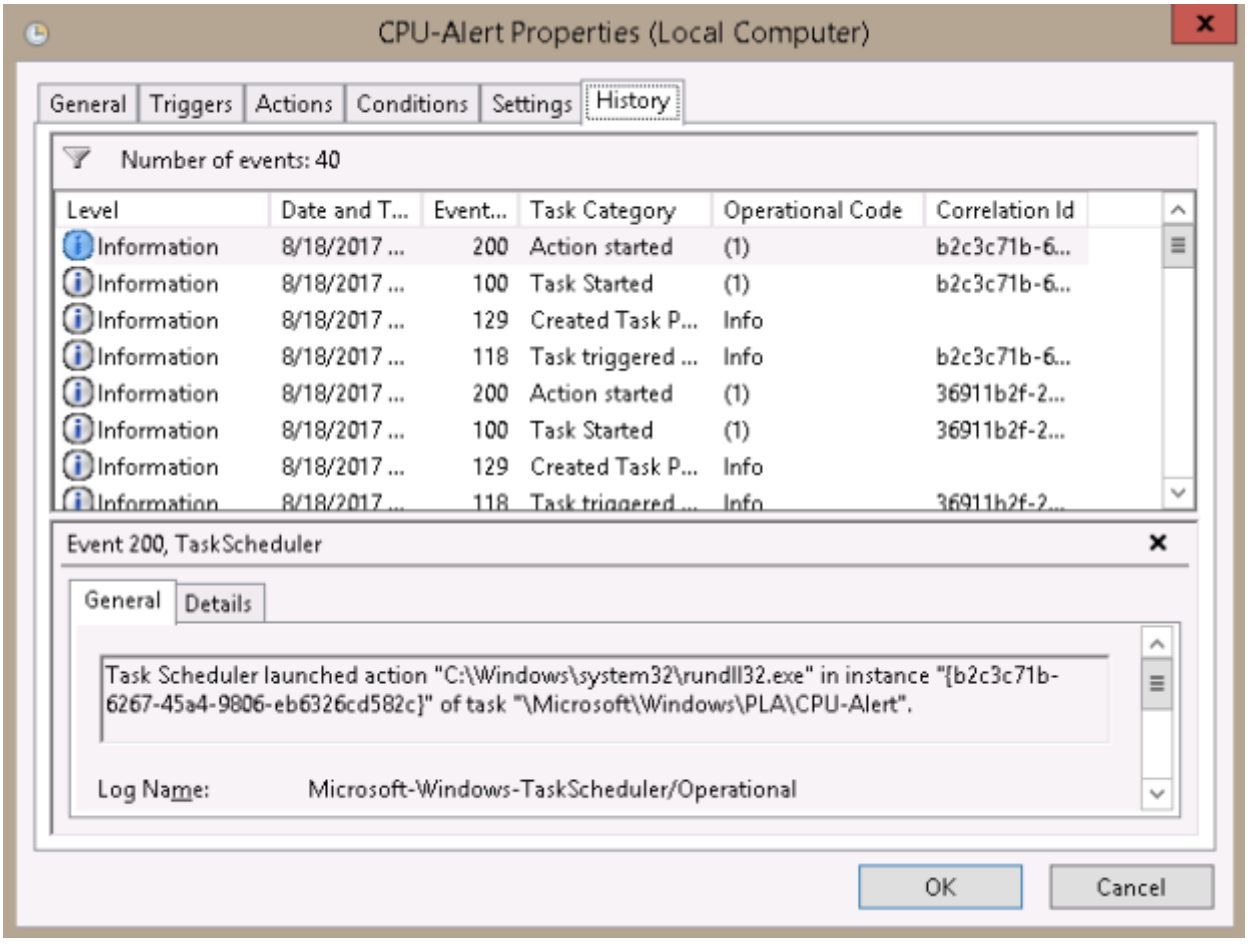
It’s also worth noting that alerts will run automatically upon a server restart only if they were running before this server restart!

So the last step in configuring alerts is to configure the **Triggers** tab of all alert tasks in the **PLA** section, for example:

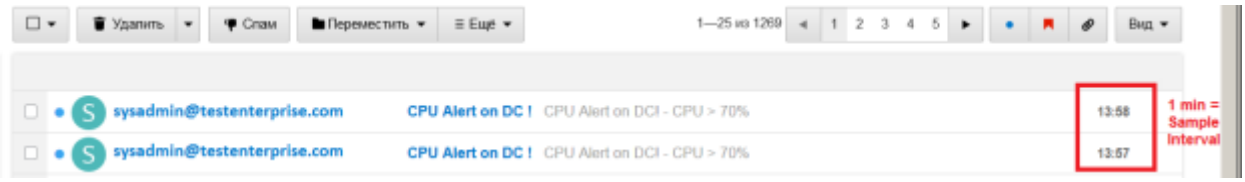




You shouldn't change anything on the **Actions** tab here – I just wanted to show how this tab look like at the PLA level.



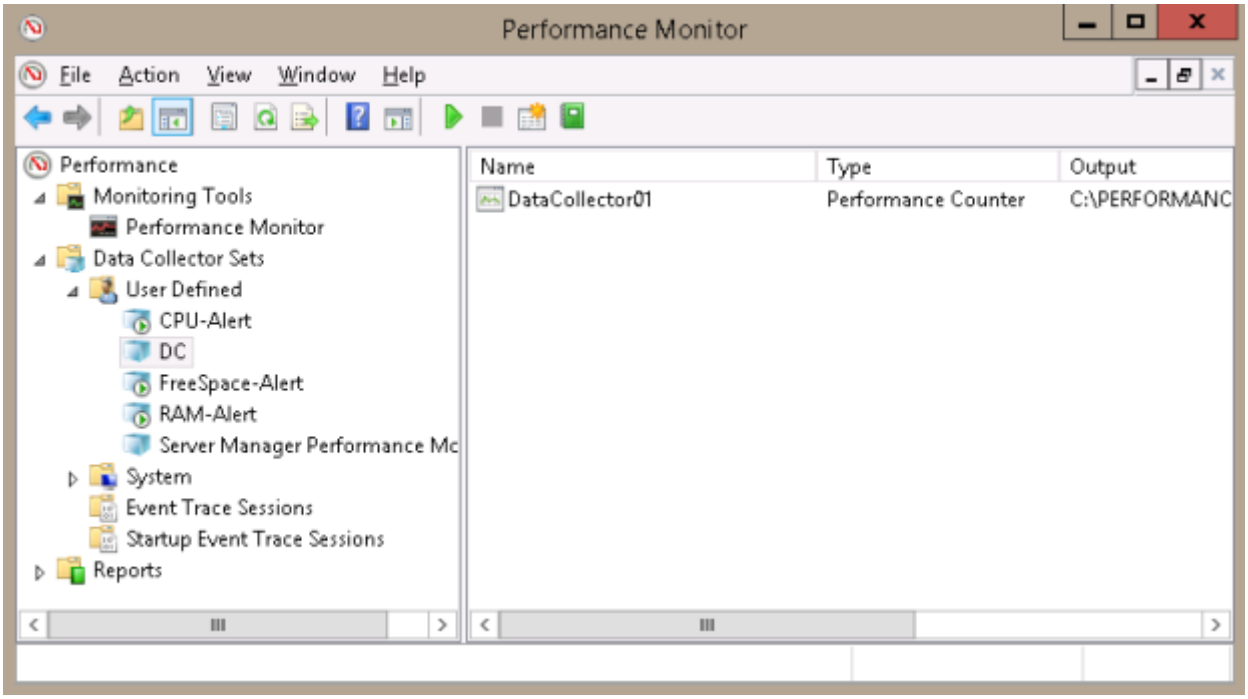
In case (for example) *Processor_Time* happens to exceed 70%, the following message – after the Sample interval has passed! – should arrive at michael_firsov@testenterprise.com (for this test I've change the *Sample Interval* from 15 min to **1**) and Performance Monitor will keep sending this message utlill Proceesor_Time falls under 70%.

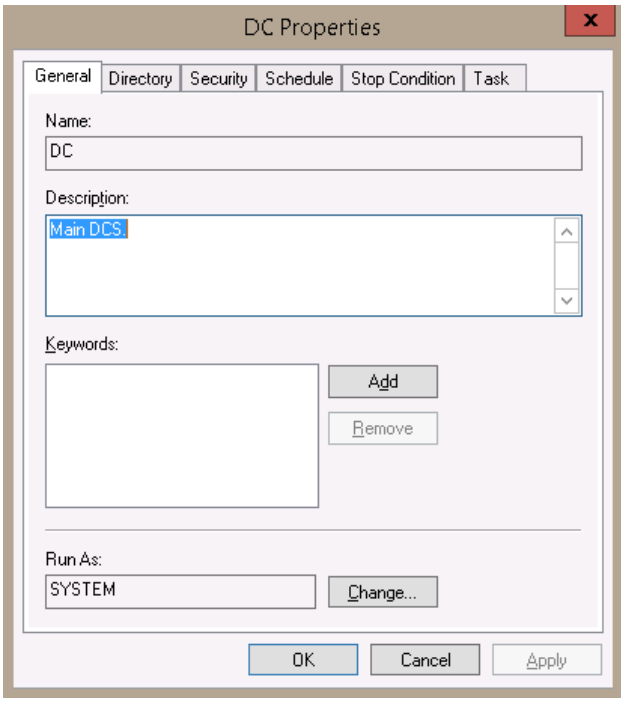


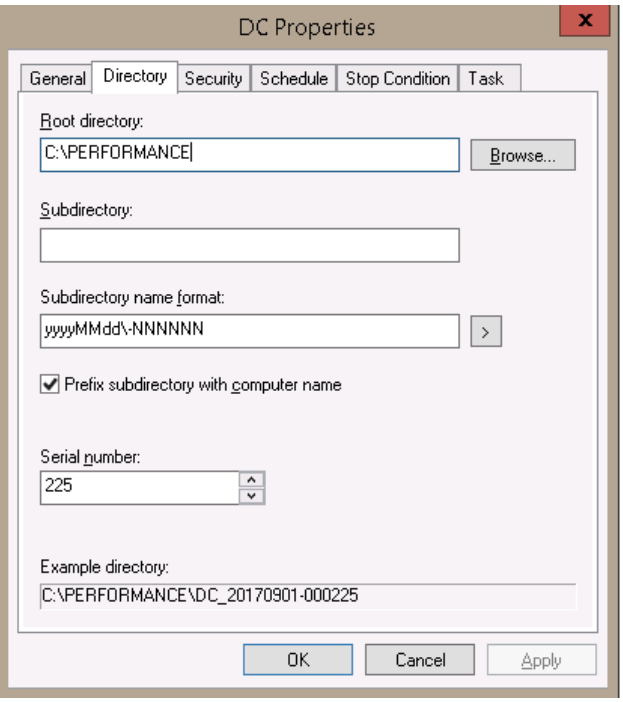
5. **Performance monitoring**

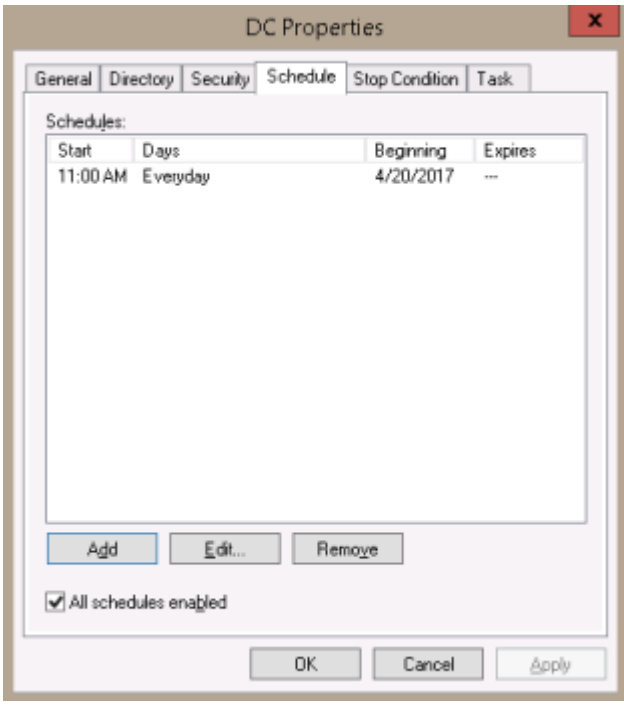
While creating alerts may help administrator know which OS parameters are in critical conditions, they can't be used for establishing the overall system health – for this purpose we should create certain data collector sets that will collect the current performance counters values (daily/weekly/monthly) so that we could analyze that data later – that's why it's very important to establish your system monitoring policy right after OS (or any other program, such as SQL Server or Exchange Server) installation – to understand the trends in system performance an administrator should have an "image" of a clean system, otherwise observing the current values of various performance counters may not be of much interest.

For example, on my domain controller I've created the **DC** data collector – DC-xml – which starts every day at 11:00AM and collects information for 5 minutes:

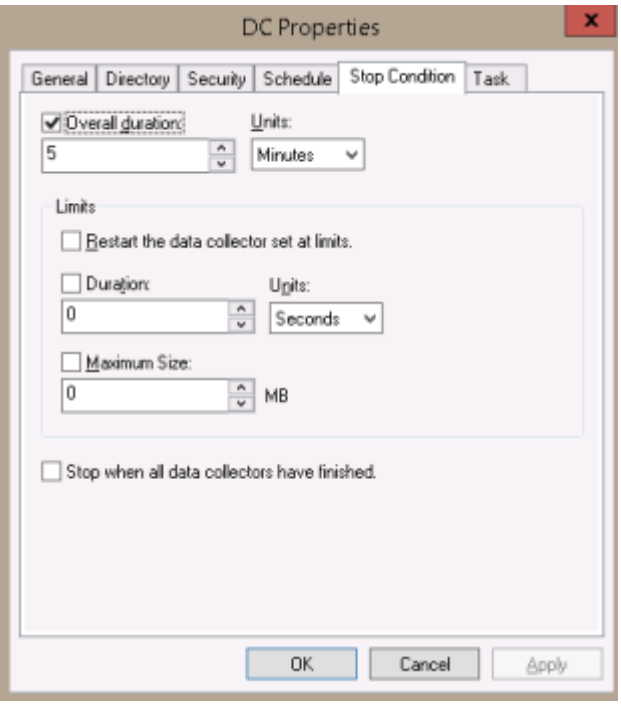


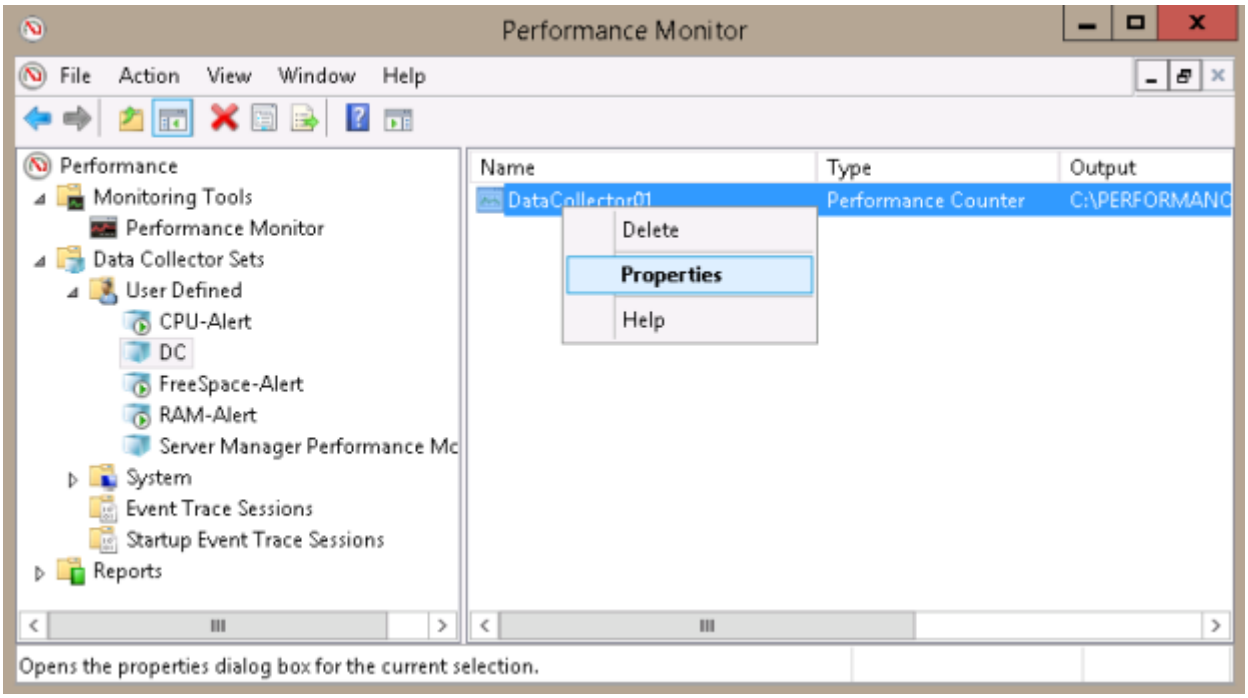

DC Properties
General
Directory
Security
Schedule
Stop Condition
Task
Name:
DC
Description:
Main DCS.
Keywords:
Add
Remove
Run As:
SYSTEM
Change...
OK
Cancel
Apply

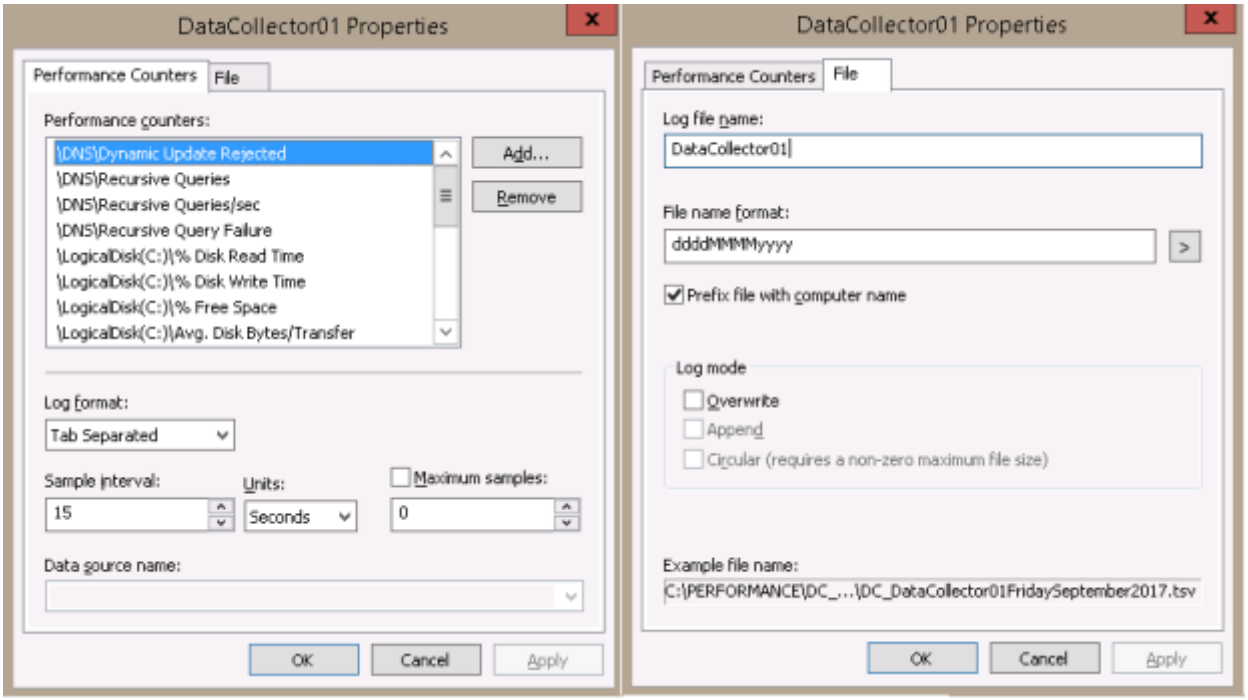

DC Properties
General
Directory
Security
Schedule
Stop Condition
Task
Root directory:
C:\PERFORMANCE
Browse...
Subdirectory:
Subdirectory name format:
yyyyMMdd\-NNNNNN
Prefix subdirectory with computer name
Serial number:
225
Example directory:
C:\PERFORMANCE\DC_20170901-000225
OK
Cancel
Apply


DC Properties
General
Directory
Security
Schedule
Stop Condition
Task
Schedules:
Start
Days
Beginning
Expires
11:00 AM
Everyday
4/20/2017

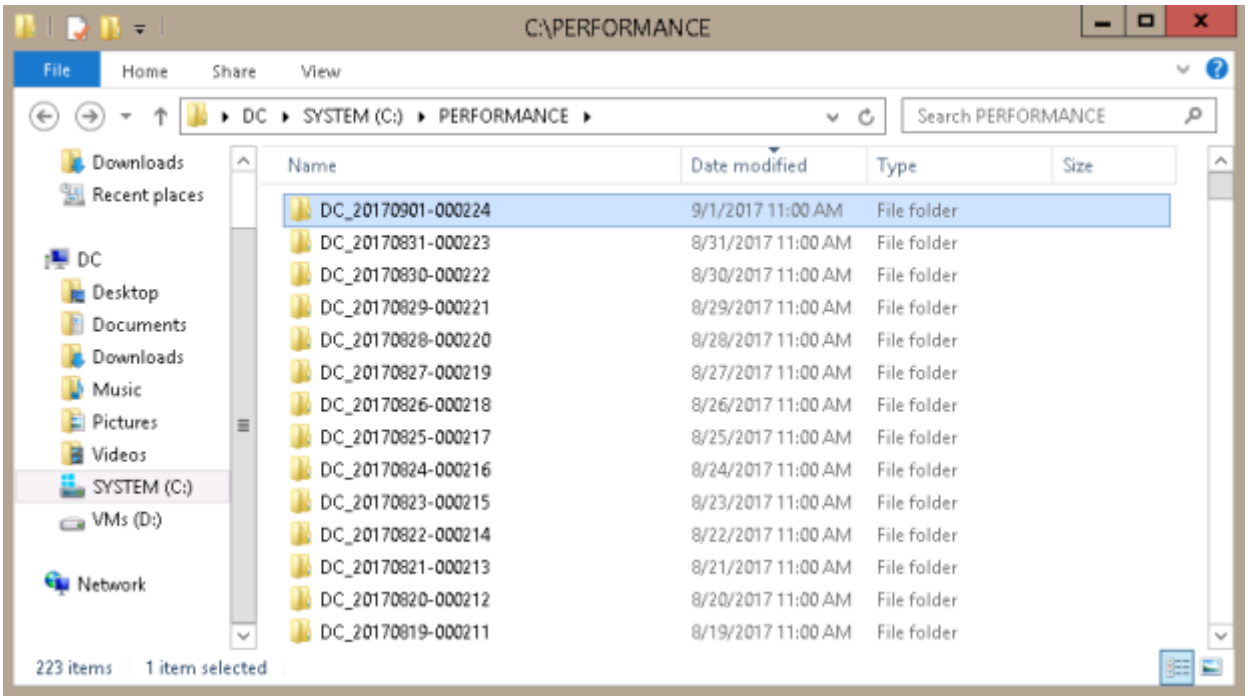
Add
Edit...
Remove
All schedules enabled
OK
Cancel
Apply

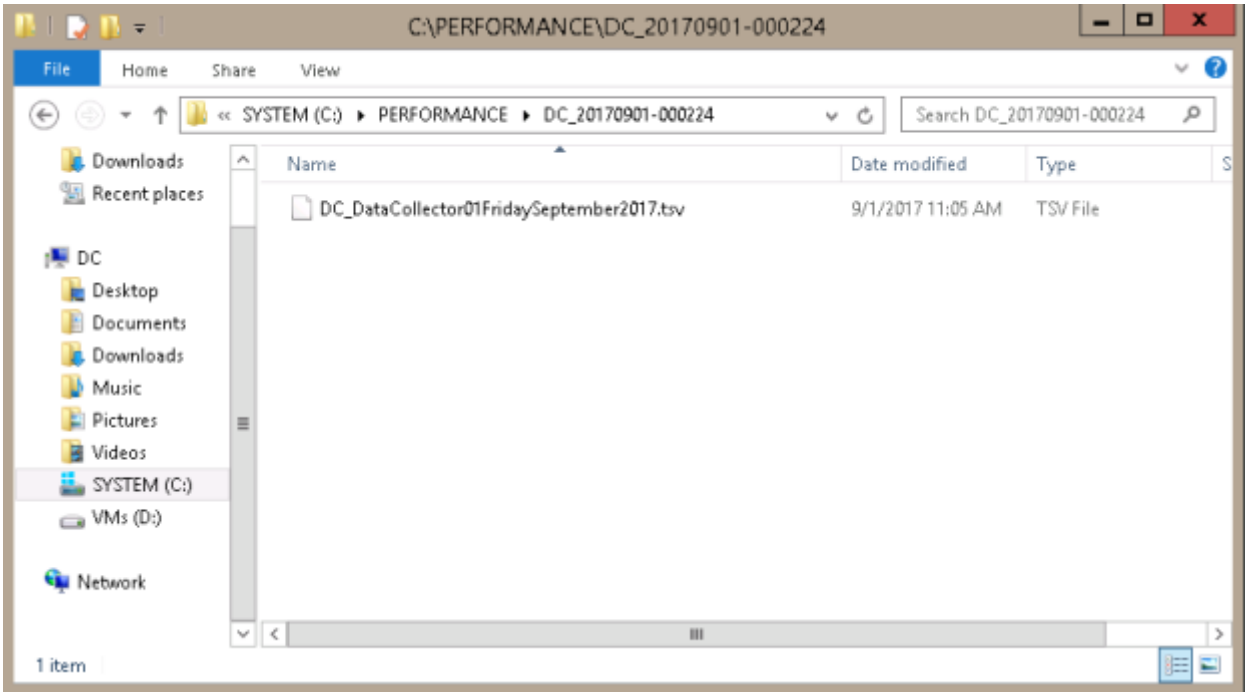

DC Properties
General
Directory
Security
Schedule
Stop Condition
Task
Overall duration:
Units:
5
Minutes
Limits
Restart the data collector set at limits.
Duration:
Units:
0
Seconds
Maximum Size:
0
MB
Stop when all data collectors have finished.
OK
Cancel
Apply



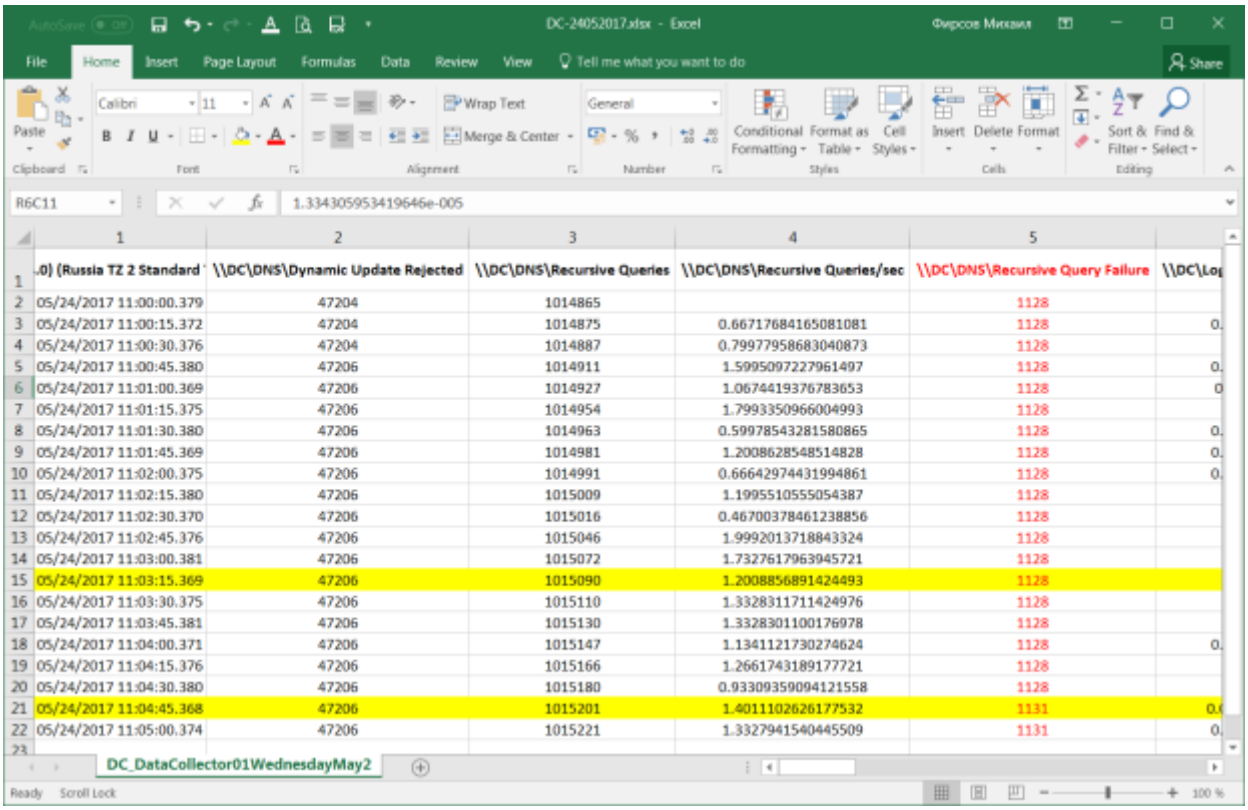


This data collector produces the following folders/files:





After importing the resulting *.tsv* files into – for example – MS Excel an administrator can later analyze data and correlate current values with any changes/procedures on the monitored server.



DC-24052017.xlsx - Excel

	1	2	3	4	5	
1	.0) (Russia TZ 2 Standard	\\DC\DNS\Dynamic Update Rejected	\\DC\DNS\Recursive Queries	\\DC\DNS\Recursive Queries/sec	\\DC\DNS\Recursive Query Failure	\\DC\Lo
2	05/24/2017 11:00:00.379	47204	1014865		1128	
3	05/24/2017 11:00:15.372	47204	1014875	0.6671768416508108	1128	0.
4	05/24/2017 11:00:30.376	47204	1014887	0.7997795868304087	1128	
5	05/24/2017 11:00:45.380	47206	1014911	1.5995097227961497	1128	0.
6	05/24/2017 11:01:00.369	47206	1014927	1.0674419376783653	1128	0
7	05/24/2017 11:01:15.375	47206	1014954	1.7993350966004993	1128	
8	05/24/2017 11:01:30.380	47206	1014963	0.5997854328158086 5	1128	0.
9	05/24/2017 11:01:45.369	47206	1014981	1.2008628548514828	1128	0.
10	05/24/2017 11:02:00.375	47206	1014991	0.66642974431994861	1128	0.
11	05/24/2017 11:02:15.380	47206	1015009	1.1995510555054387	1128	
12	05/24/2017 11:02:30.370	47206	1015016	0.46700378461238856	1128	
13	05/24/2017 11:02:45.376	47206	1015046	1.9992013718843324	1128	
14	05/24/2017 11:03:00.381	47206	1015072	1.7327617963945721	1128	
15	05/24/2017 11:03:15.369	47206	1015090	1.2008856891424493	1128	
16	05/24/2017 11:03:30.375	47206	1015110	1.3328311711424976	1128	
17	05/24/2017 11:03:45.381	47206	1015130	1.3328301100176978	1128	
18	05/24/2017 11:04:00.371	47206	1015147	1.1341121730274624	1128	0.
19	05/24/2017 11:04:15.376	47206	1015166	1.2661743189177721	1128	
20	05/24/2017 11:04:30.380	47206	1015180	0.93309359094121558	1128	
21	05/24/2017 11:04:45.368	47206	1015201	1.4011102626177532	1131	0.
22	05/24/2017 11:05:00.374	47206	1015221	1.3327941540445509	1131	0.
23						

DC_DataCollector01WednesdayMay2

Part2