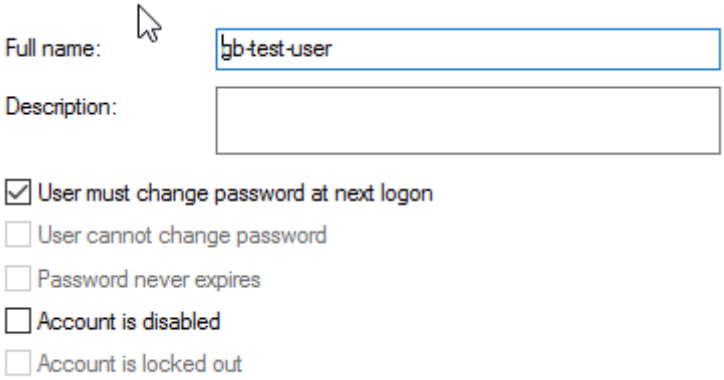
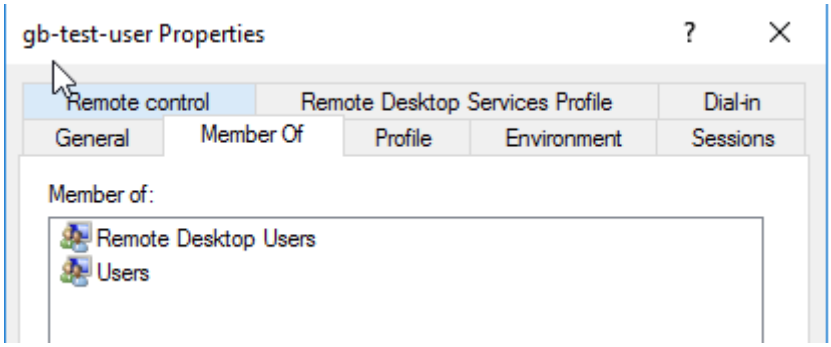
Windows Server, PowerShell и WMI

Урок 2. Установка и настройка Windows Server

Домашнее задание:

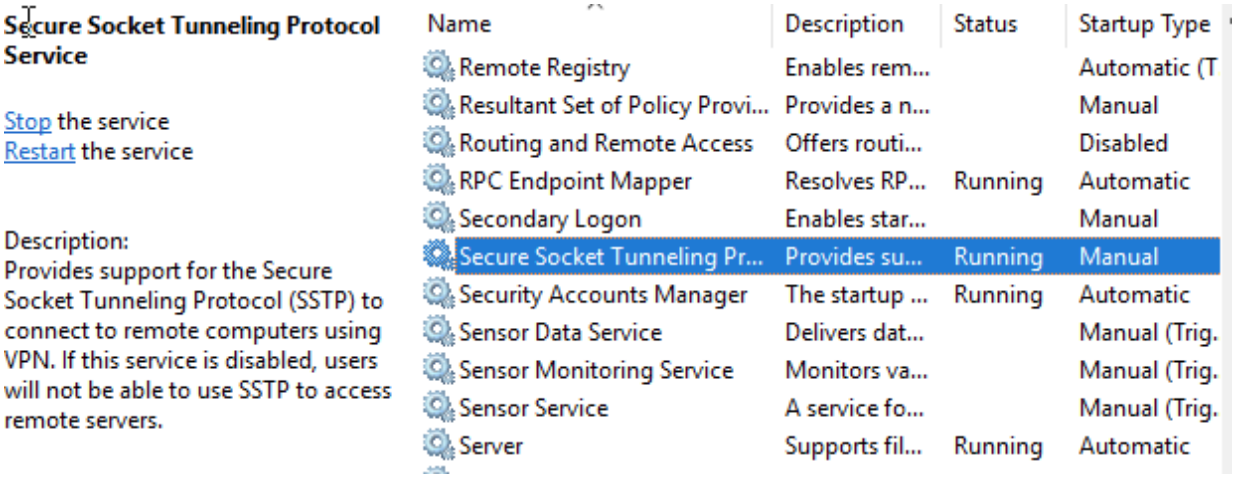
1. Создайте нового пользователя, с необходимость смены пароля при первом входе в систему и добавьте его в группу Пользователи удаленного рабочего стола

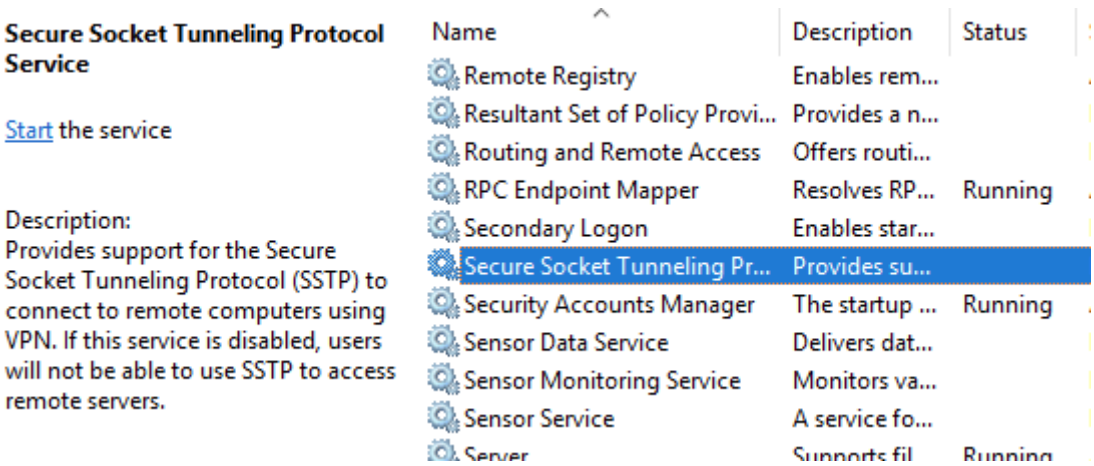




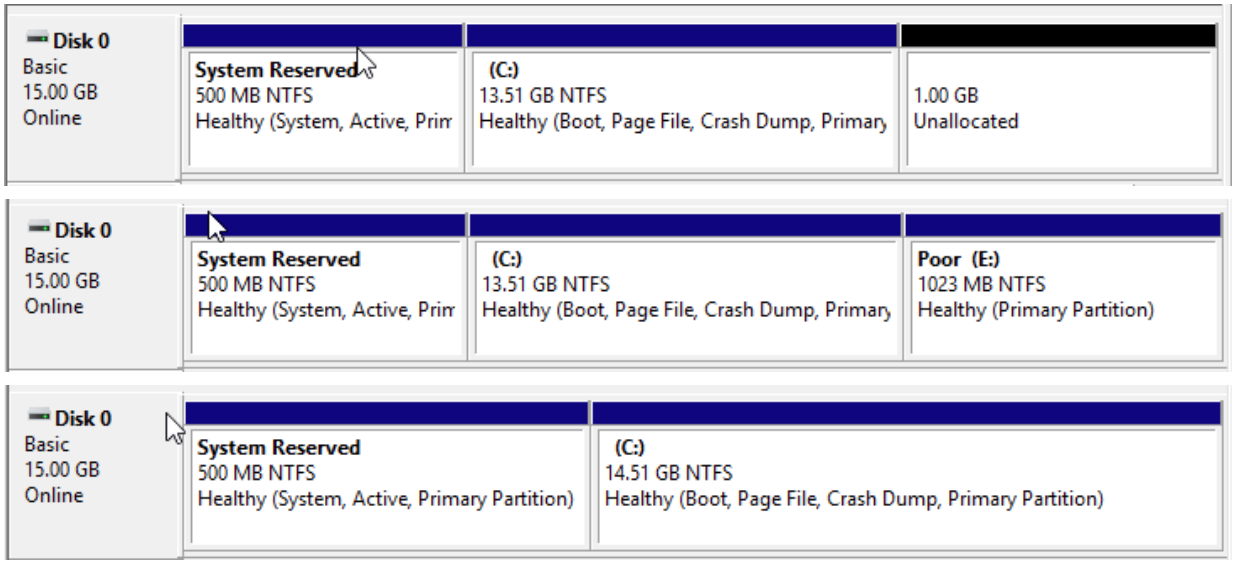
2. Остановите и запустите службу SSTP (SstpSvc) из графической оболочки и из коммандной строки

```
Get-Service -Name SstpSvc | Stop-Service
Get-Service -Name SstpSvc | Start-Service
```

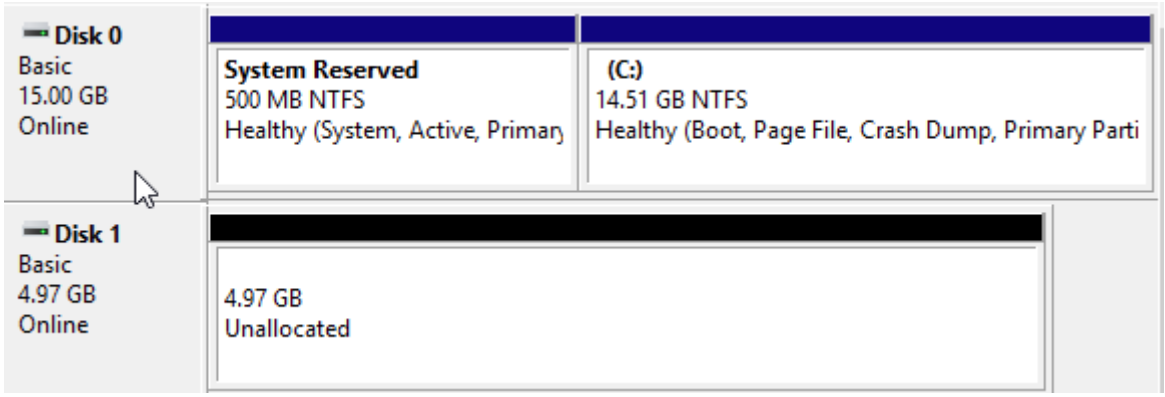




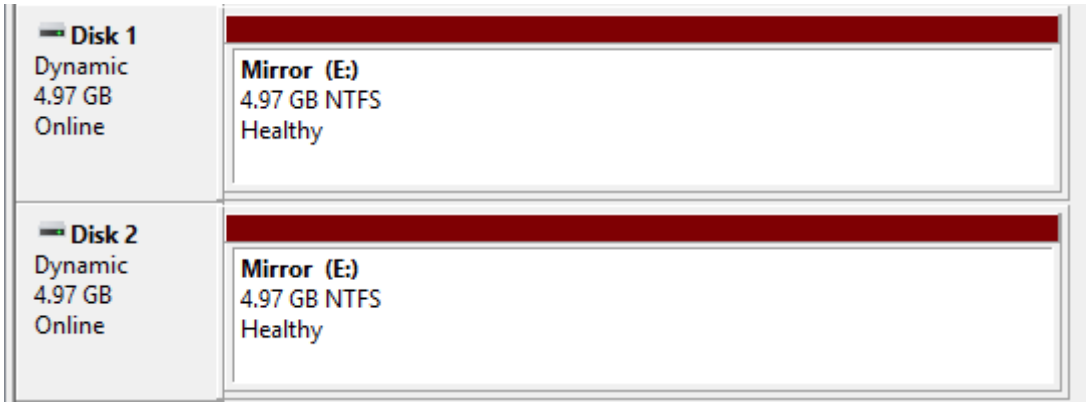
3. Сожмите том, создайте раздел, потом верните в исходное состояние



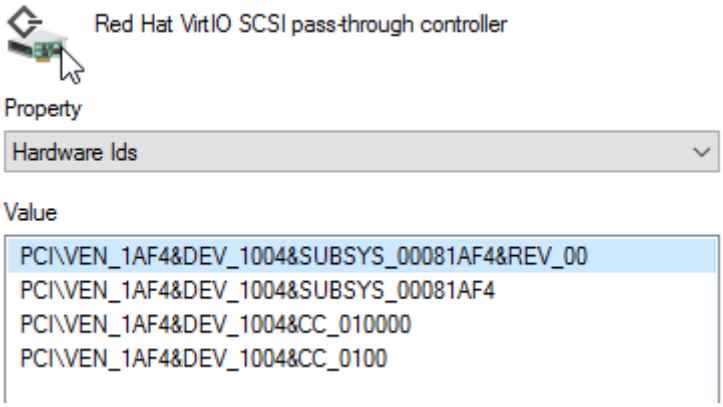
4. Подключите второй диск, преобразуйте его в GPT



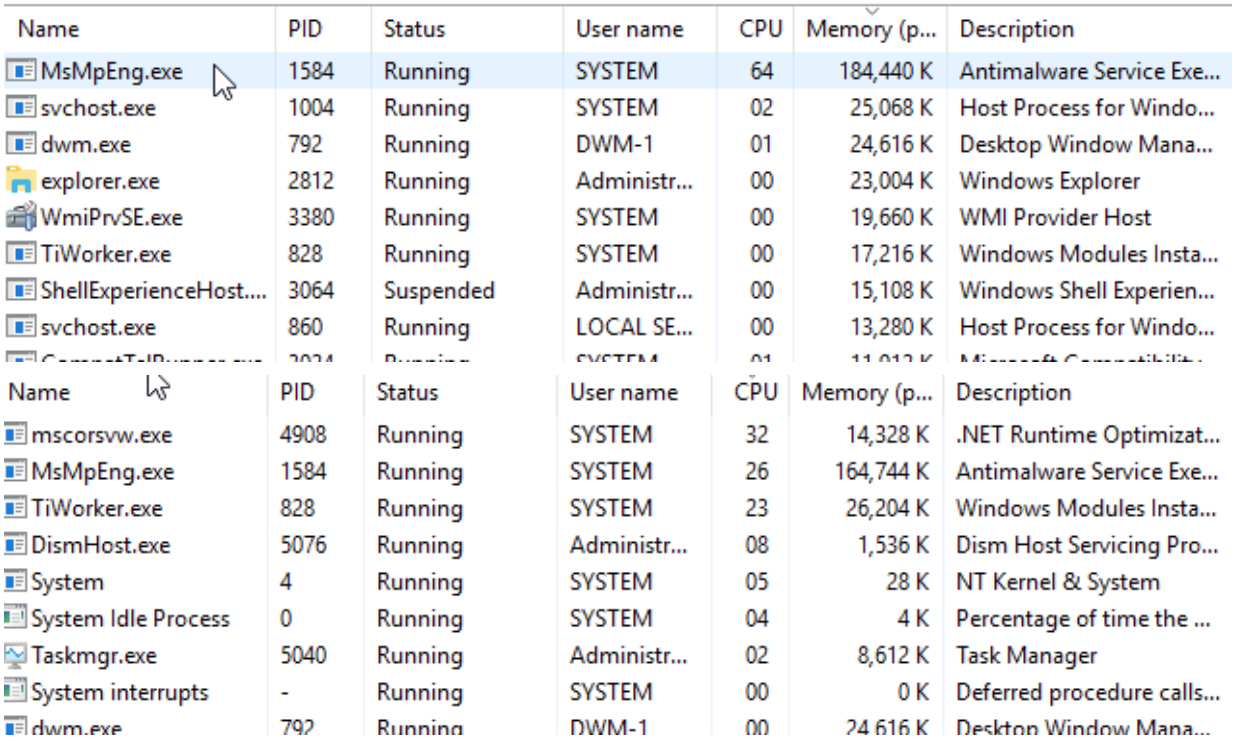
5. Добавьте третий диск, создайте из 2 и 3 диска зеркальный том



6. Найдите ИД оборудования (pci\ven например контроллер жесткого диска или видеокарта) и сайт в интернете, откуда можно скачать драйвера для этого устройства



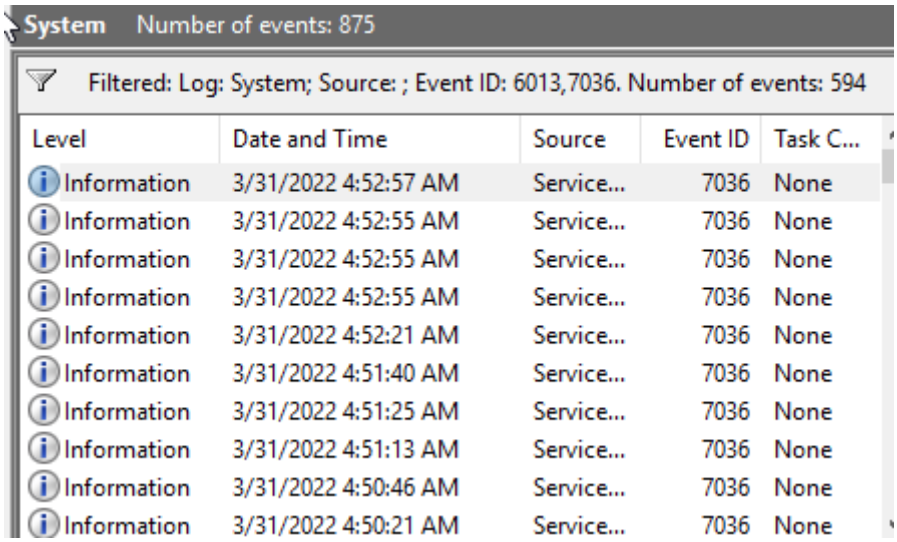
7. В диспетчере задач отфильтруйте приложения которые больше всего потребляют ресурсов процессора и оперативную память



Name	PID	Status	User name	CPU	Memory (p...	Description
MsMpEng.exe	1584	Running	SYSTEM	64	184,440 K	Antimalware Service Exe...
svchost.exe	1004	Running	SYSTEM	02	25,068 K	Host Process for Windo...
dwm.exe	792	Running	DWM-1	01	24,616 K	Desktop Window Mana...
explorer.exe	2812	Running	Administr...	00	23,004 K	Windows Explorer
WmiPrvSE.exe	3380	Running	SYSTEM	00	19,660 K	WMI Provider Host
TiWorker.exe	828	Running	SYSTEM	00	17,216 K	Windows Modules Insta...
ShellExperienceHost....	3064	Suspended	Administr...	00	15,108 K	Windows Shell Experien...
svchost.exe	860	Running	LOCAL SE...	00	13,280 K	Host Process for Windo...

Name	PID	Status	User name	CPU	Memory (p...	Description
mscorsvw.exe	4908	Running	SYSTEM	32	14,328 K	.NET Runtime Optimizat...
MsMpEng.exe	1584	Running	SYSTEM	26	164,744 K	Antimalware Service Exe...
TiWorker.exe	828	Running	SYSTEM	23	26,204 K	Windows Modules Insta...
DismHost.exe	5076	Running	Administr...	08	1,536 K	Dism Host Servicing Pro...
System	4	Running	SYSTEM	05	28 K	NT Kernel & System
System Idle Process	0	Running	SYSTEM	04	4 K	Percentage of time the ...
Taskmgr.exe	5040	Running	Administr...	02	8,612 K	Task Manager
System interrupts	-	Running	SYSTEM	00	0 K	Deferred procedure calls...
dwm.exe	792	Running	DWM-1	00	24,616 K	Desktop Window Mana...

8. Отфильтруйте системные события с кодом 6013 или 7036



System Number of events: 875

Filtered: Log: System; Source: ; Event ID: 6013,7036. Number of events: 594

Level	Date and Time	Source	Event ID	Task C...
Information	3/31/2022 4:52:57 AM	Service...	7036	None
Information	3/31/2022 4:52:55 AM	Service...	7036	None
Information	3/31/2022 4:52:55 AM	Service...	7036	None
Information	3/31/2022 4:52:55 AM	Service...	7036	None
Information	3/31/2022 4:52:21 AM	Service...	7036	None
Information	3/31/2022 4:51:40 AM	Service...	7036	None
Information	3/31/2022 4:51:25 AM	Service...	7036	None
Information	3/31/2022 4:51:13 AM	Service...	7036	None
Information	3/31/2022 4:50:46 AM	Service...	7036	None
Information	3/31/2022 4:50:21 AM	Service...	7036	None

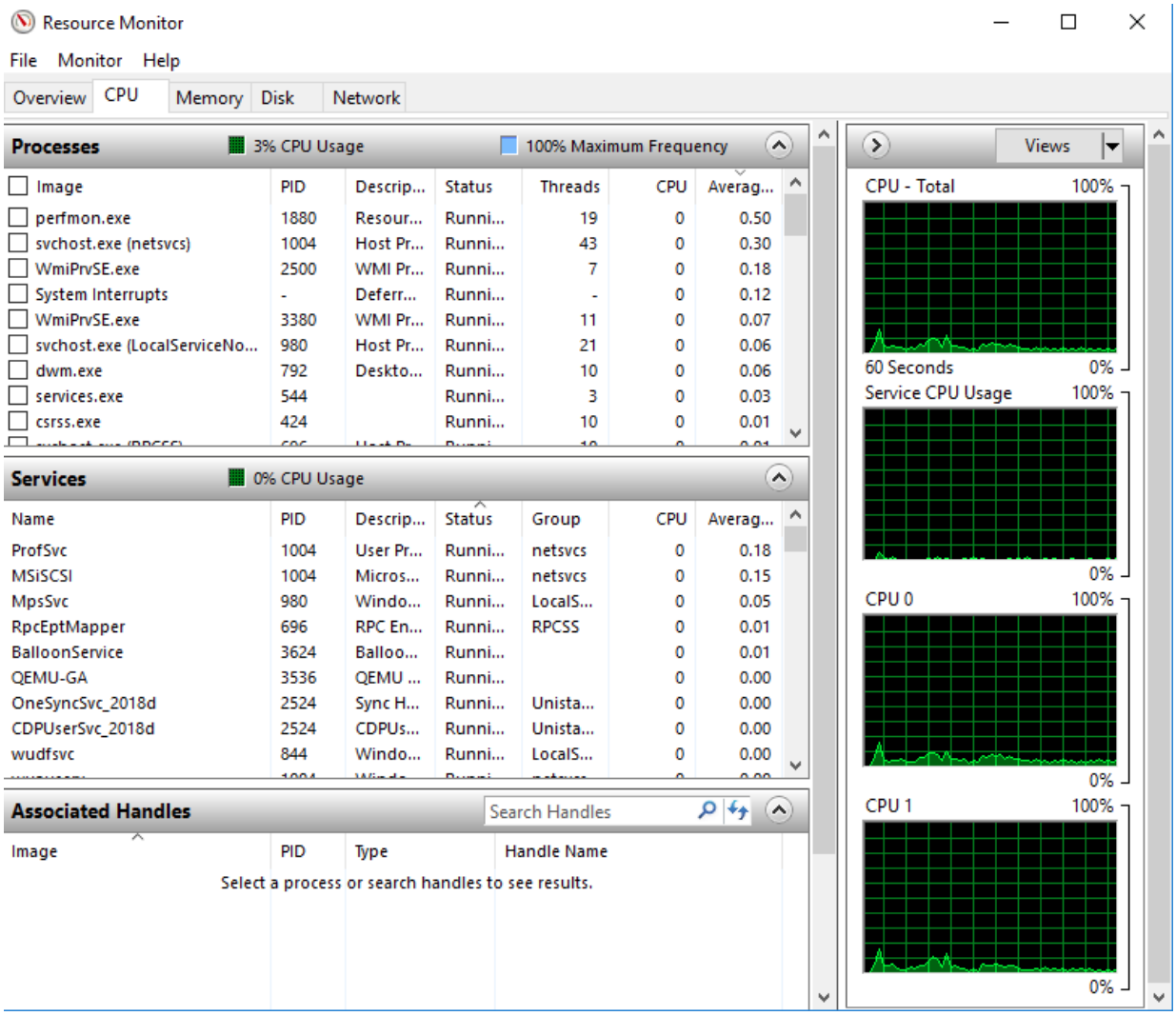
```
Get-EventLog -LogName System |?{$_.EventID -in 6013,7036}
```

9. Создайте задание, которое будет в 14.00 в рабочие дни запускать команду ping 8.8.8.8

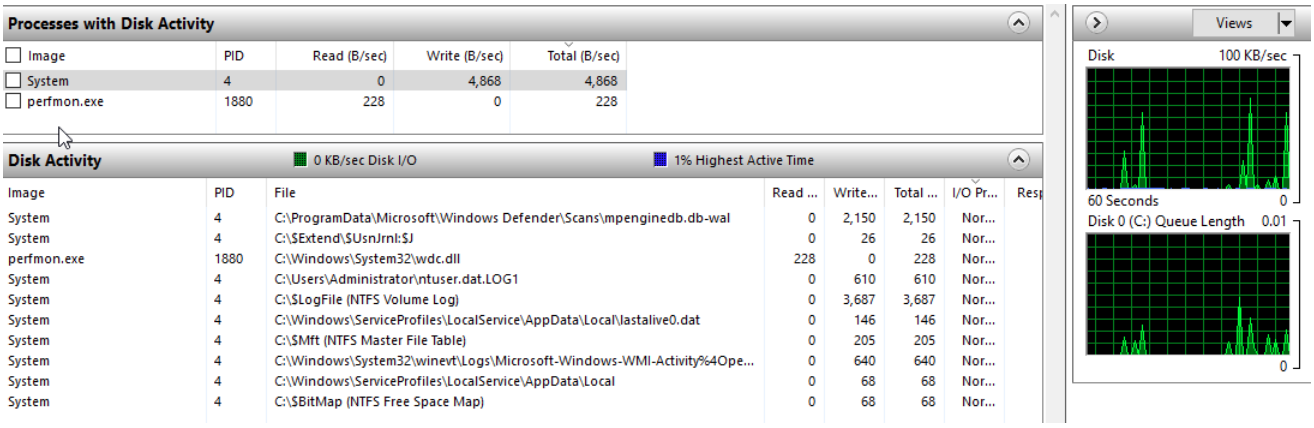
```
PS C:\Users\Administrator> Get-ScheduledTask -TaskName "PING 8.8.8.8" | Select * | FL


State                 : Ready
Actions               : {MSFT_TaskExecAction}
Author                : WIN-DCVFC0N41AU\Administrator
Date                  : 2022-03-31T04:58:48.5826026
Description           :
Documentation         :
Principal             : MSFT_TaskPrincipal2
SecurityDescriptor    :
Settings              : MSFT_TaskSettings3
Source                :
TaskName              : PING 8.8.8.8
TaskPath              : \
Triggers              : {MSFT_TaskWeeklyTrigger}
URI                   : \PING 8.8.8.8
Version               :
PSComputerName        :
CimClass              : Root/Microsoft/Windows/TaskScheduler:MSFT_ScheduledTask
CimInstanceProperties : {Actions, Author, Date, Description...}
CimSystemProperties   : Microsoft.Management.Infrastructure.CimSystemProperties
```

10. Промониторьте через Системный монтор загрузку процессора и пришлите лог



11. Через Монитор ресурсов просмотрите в разделе Диск–Процессы с дисковой активностью–System какие используются файлы


Processes with Disk Activity
Image
PID
Read (B/sec)
Write (B/sec)
Total (B/sec)
System
4
0
4,868
4,868
perfmon.exe
1880
228
0
228
Disk Activity
0 KB/sec Disk I/O
1% Highest Active Time
Image
PID
File
Read ...
Write...
Total ...
I/O Pr...
System
4
C:\ProgramData\Microsoft\Windows Defender\Scans\mpenginedb.db-wal
0
2,150
2,150
Nor...
System
4
C:\$Extend\$UsnJrnl:$J
0
26
26
Nor...
perfmon.exe
1880
C:\Windows\System32\wdc.dll
228
0
228
Nor...
System
4
C:\Users\Administrator\ntuser.dat.LOG1
0
610
610
Nor...
System
4
C:\$LogFile (NTFS Volume Log)
0
3,687
3,687
Nor...
System
4
C:\Windows\ServiceProfiles\LocalService\AppData\Local\lastalive0.dat
0
146
146
Nor...
System
4
C:\$Mft (NTFS Master File Table)
0
205
205
Nor...
System
4
C:\Windows\System32\winevt\Logs\Microsoft-Windows-WMI-Activity%4Ope...
0
640
640
Nor...
System
4
C:\Windows\ServiceProfiles\LocalService\AppData\Local
0
68
68
Nor...
System
4
C:\$BitMap (NTFS Free Space Map)
0
68
68
Nor...
Views
Disk
100 KB/sec
60 Seconds
0
Disk 0 (C:) Queue Length
0.01
0