

1.

```
PS C:\WINDOWS\system32> $PSVersionTable

Name                           Value
----                           -
PSVersion                      5.1.19041.610
PSEdition                     Desktop
PSCompatibleVersions           {1.0, 2.0, 3.0, 4.0...}
BuildVersion                   10.0.19041.610
CLRVersion                     4.0.30319.42000
WSManStackVersion              3.0
PSRemotingProtocolVersion      2.3
SerializationVersion           1.1.0.1
```

2.

```
PS C:\WINDOWS\system32> Get-Service | Get-Member

TypeName: System.ServiceProcess.ServiceController

Name      MemberType Definition
-----
Name      AliasProperty Name = ServiceName
RequiredServices AliasProperty RequiredServices = ServicesDependedOn
Disposed  Event         System.EventHandler Disposed(System.Object, System.EventArgs)
Close     Method        void Close()
Continue  Method        void Continue()
CreateObjRef Method      System.Runtime.Remoting.ObjRef CreateObjRef(type requestedType)
Dispose   Method        void Dispose(), void IDisposable.Dispose()
Equals    Method        bool Equals(System.Object obj)
ExecuteCommand Method      void ExecuteCommand(int command)
GetHashCode Method      int GetHashCode()
GetLifetimeService Method    System.Object GetLifetimeService()
GetType   Method        type GetType()
InitializeLifetimeService Method    System.Object InitializeLifetimeService()
Pause     Method        void Pause()
Refresh   Method        void Refresh()
Start     Method        void Start(), void Start(string[] args)
Stop      Method        void Stop()
WaitForStatus Method      void WaitForStatus(System.ServiceProcess.ServiceControllerStatus desiredStatus), void WaitForStatus(System.ServiceProcess.ServiceControllerStatus desiredStatus, timespan timeout)
CanPauseAndContinue Property    bool CanPauseAndContinue {get;}
CanShutdown Property    bool CanShutdown {get;}
CanStop   Property    bool CanStop {get;}
Container Property    System.ComponentModel.IContainer Container {get;}
DependentServices Property    System.ServiceProcess.ServiceController[] DependentServices {get;}
DisplayName Property    string DisplayName {get;set;}
MachineName Property    string MachineName {get;set;}
ServiceHandle Property    System.Runtime.InteropServices.SafeHandle ServiceHandle {get;}
ServiceName Property    string ServiceName {get;set;}
ServicesDependedOn Property    System.ServiceProcess.ServiceController[] ServicesDependedOn {get;}
ServiceType Property    System.ServiceProcess.ServiceType ServiceType {get;}
Site      Property    System.ComponentModel.ISite Site {get;set;}
StartType Property    System.ServiceProcess.ServiceStartMode StartType {get;}
Status    Property    System.ServiceProcess.ServiceControllerStatus Status {get;}
ToString  ScriptMethod System.Object ToString();
```

3.

```
PS C:\WINDOWS\system32> Get-Service
```

Status	Name	DisplayName
Stopped	AarSvc_43172	AarSvc_43172
Running	AdobeARMservice	Adobe Acrobat Update Service
Stopped	AJRouter	AllJoyn-útválasztó szolgáltatás
Stopped	ALG	Alkalmazási réteg átjárószolgáltatása
Running	AOCDTAOCGMenuSe...	AOC G-MenuAOC G-Menu Service by Por...
Stopped	AppIDSvc	Alkalmazásidentitás
Running	Appinfo	Alkalmazásinformációk
Stopped	AppMgmt	Alkalmazásvezérlés
Stopped	AppReadiness	Alkalmazás-előkészítő
Stopped	AppVClient	Microsoft App-V Client
Running	AppXSvc	AppX Deployment Service (AppXSVC)
Stopped	AssignedAccessM...	AssignedAccessManager szolgáltatás
Running	AudioEndpointBu...	Windows-hangvégpontépítő
Running	Audiosrv	Windows audió
Stopped	autotimesvc	Mobilhálózati idő
Stopped	AxInstSV	ActiveX Telepítő (AxInstSV)
Stopped	BcastDVRUserSer...	BcastDVRUserService_43172
Stopped	BDESVC	BitLocker meghajtótitkosítási szolg...
Stopped	BEService	BattlEye Service
Running	BFE	Alap szűrőprogram
Stopped	BITS	Háttérben futó intelligens átviteli...
Stopped	BluetoothUserSe...	BluetoothUserService_43172
Running	BrokerInfrastru...	Háttérfeladatok infrastruktúra-szol...
Stopped	BTAGService	Bluetooth-hangátjáró szolgáltatás
Stopped	BthAvctpSvc	AVCTP-szolgáltatás
Stopped	bthserv	Bluetooth-támogatási szolgáltatás
Running	camsvc	Képesség hozzáférés-kezelési szolgá...
Running	CaptureService_...	CaptureService_43172
Running	cbdhsvc_43172	cbdhsvc_43172
Running	CDPSvc	Csatlakoztatott eszközök platformja...
Running	CDPUserSvc_43172	CDPUserSvc_43172
Stopped	CertPropSvc	Tanúsítvány-terjesztés
Running	ClickToRunSvc	Microsoft Office Kattintásra szolgá...
Running	ClipSVC	Ügyfél-licenclési szolgáltatás (Cl...
Stopped	COMSysApp	COM+ System Application
Stopped	ConsentUxUserSv...	ConsentUxUserSvc_43172
Running	CoreMessagingRe...	CoreMessaging
Stopped	CredentialEnrol...	CredentialEnrollmentManagerUserSvc_...
Running	CryptSvc	Kriptográfiai szolgáltatások
Stopped	CscService	Offline fájlok
Running	DcomLaunch	DCOM-kiszolgáló folyamatindítója
Stopped	defragsvc	Meghajtók optimalizálása
Stopped	DeviceAssociati...	DeviceAssociationBrokerSvc_43172
Running	DeviceAssociati...	Eszköztársítási szolgáltatás
Stopped	DeviceInstall	Eszköztelepítő szolgáltatás
Stopped	DevicePickerUse...	DevicePickerUserSvc_43172
Stopped	DevicesFlowUser...	DevicesFlowUserSvc_43172
Running	DevQueryBroker	DevQuery - észlelési háttérfeladat ...
Running	Dhcp	DHCP-ügyfél
Stopped	diagnosticshub...	Microsoft (R) Diagnosztikai központ...
Stopped	diagsvc	Diagnostic Execution Service
Running	DiagTrack	Összekapcsolt felhasználói élmények...

4.

```
Administrator: Windows PowerShell (x86)
-a----      2009. 03. 16.      14:18      22360 X3DAudio1_6.dll
-a----      2010. 02. 04.      10:01      22360 X3DAudio1_7.dll
-a----      2006. 02. 03.       8:42     230096 xactengine2_0.dll
-a----      2006. 03. 31.     13:39     229584 xactengine2_1.dll
-a----      2007. 10. 22.       4:39     267272 xactengine2_10.dll
-a----      2006. 05. 31.       8:24     230168 xactengine2_2.dll
-a----      2006. 07. 28.     10:30     236824 xactengine2_3.dll
-a----      2006. 09. 28.     17:05     237848 xactengine2_4.dll
-a----      2006. 12. 08.     12:02     251672 xactengine2_5.dll
-a----      2007. 01. 24.     15:27     255848 xactengine2_6.dll
-a----      2007. 04. 04.     19:55     261480 xactengine2_7.dll
-a----      2007. 06. 20.     21:46     266088 xactengine2_8.dll
-a----      2007. 07. 20.       1:57     267112 xactengine2_9.dll
-a----      2008. 03. 05.     16:03     238088 xactengine3_0.dll
-a----      2008. 05. 30.     15:18     238088 xactengine3_1.dll
-a----      2008. 07. 31.     11:41     238088 xactengine3_2.dll
-a----      2008. 10. 27.     10:04     235856 xactengine3_3.dll
-a----      2009. 03. 16.     14:18     235352 xactengine3_4.dll
-a----      2009. 09. 04.     18:44     238936 xactengine3_5.dll
-a----      2010. 02. 04.     10:01     238936 xactengine3_6.dll
-a----      2010. 06. 02.       5:55     239960 xactengine3_7.dll
-a----      2008. 05. 30.     15:17      65032 XAPOFX1_0.dll
-a----      2008. 07. 31.     11:41      68616 XAPOFX1_1.dll
-a----      2008. 10. 27.     10:04      70992 XAPOFX1_2.dll
-a----      2009. 09. 04.     18:44      69464 XAPOFX1_3.dll
-a----      2010. 02. 04.     10:01      74072 XAPOFX1_4.dll
-a----      2010. 06. 02.       5:55      74072 XAPOFX1_5.dll
-a----      2008. 03. 05.     16:03     479752 XAudio2_0.dll
-a----      2008. 05. 30.     15:19     507400 XAudio2_1.dll
-a----      2008. 07. 31.     11:40     509448 XAudio2_2.dll
-a----      2008. 10. 27.     10:04     514384 XAudio2_3.dll
-a----      2009. 03. 16.     14:18     517448 XAudio2_4.dll
-a----      2009. 09. 04.     18:44     515416 XAudio2_5.dll
-a----      2010. 02. 04.     10:01     528216 XAudio2_6.dll
-a----      2010. 06. 02.       5:55     527192 XAudio2_7.dll
-a----      2019. 12. 07.     10:09       3072 XAudio2_8.dll
-a----      2020. 12. 06.     21:18     597504 XAudio2_9.dll
-a----      2021. 01. 13.     15:32     55296 XblAuthManagerProxy.dll
-a----      2021. 01. 13.     15:32     89088 XblAuthTokenBrokerExt.dll
-a----      2019. 12. 07.     10:09     20992 XblGameSaveProxy.dll
-a----      2019. 12. 07.     10:09     60416 xboxgipsynthetic.dll
-a----      2019. 12. 07.     10:09     43520 xcopy.exe
-a----      2006. 03. 31.     13:39     62672 xinput1_1.dll
-a----      2006. 07. 28.     10:30     62744 xinput1_2.dll
-a----      2007. 04. 04.     19:53     81768 xinput1_3.dll
-a----      2019. 12. 07.     10:09     36864 XInput1_4.dll
-a----      2019. 12. 07.     10:09      9216 XInput9_1_0.dll
-a----      2021. 01. 13.     15:32     38400 XInputUap.dll
-a----      2021. 01. 13.     15:32     52224 xmlfilter.dll
-a----      2002. 12. 18.     23:20     26096 xmlinst.exe
-a----      2020. 12. 06.     21:18     171440 xml-lite.dll
-a----      2002. 12. 18.     10:23     36864 xmlparse.dll
-a----      2021. 01. 13.     15:32     17920 xmlprovi.dll
-a----      2002. 12. 18.     10:23     69632 xmltok.dll
-a----      2019. 12. 07.     10:09     50176 xolehlp.dll
-a----      2021. 01. 13.     15:32     252928 XpsDocumentTargetPrint.dll
-a----      2019. 12. 07.     10:09     324608 XpsGdiConverter.dll
-a----      2020. 12. 09.     14:48     1029632 XpsPrint.dll
-a----      2019. 12. 07.     10:09     474624 XpsRasterService.dll
-a----      2020. 12. 09.     14:48     1831424 xpsservices.dll
-a----      2019. 12. 07.     10:10      4014 xwizard.dtd
-a----      2019. 12. 07.     10:10     55808 xwizard.exe
-a----      2021. 01. 13.     15:33     376320 xwizards.dll
-a----      2021. 01. 13.     15:33     98816 xwreg.dll
-a----      2021. 01. 13.     15:33     206336 xwtpdwi.dll
-a----      2021. 01. 13.     15:33     119808 xwtpw32.dll
-a----      2019. 12. 07.     10:09     67584 zipcontainer.dll
-a----      2021. 02. 11.       9:51     225792 zipfldr.dll
-a----      2019. 12. 07.     10:09     25600 ztrace_maps.dll
```

5.

```
PS C:\WINDOWS\system32> Get-Alias
```

CommandType	Name	Version	Source
Alias	% -> ForEach-Object		
Alias	? -> Where-Object		
Alias	ac -> Add-Content		
Alias	asnp -> Add-PSSnapin		
Alias	cat -> Get-Content		
Alias	cd -> Set-Location		
Alias	CFS -> ConvertFrom-String	3.1.0.0	Microsoft.PowerShell.Utility
Alias	chdir -> Set-Location		
Alias	clc -> Clear-Content		
Alias	clear -> Clear-Host		
Alias	clhy -> Clear-History		
Alias	cli -> Clear-Item		
Alias	clp -> Clear-ItemProperty		
Alias	cls -> Clear-Host		
Alias	clv -> Clear-Variable		
Alias	cnsn -> Connect-PSSession		
Alias	compare -> Compare-Object		
Alias	copy -> Copy-Item		
Alias	cp -> Copy-Item		
Alias	cpi -> Copy-Item		
Alias	cpp -> Copy-ItemProperty		
Alias	curl -> Invoke-WebRequest		
Alias	cvpa -> Convert-Path		
Alias	dbp -> Disable-PSBreakpoint		
Alias	del -> Remove-Item		
Alias	diff -> Compare-Object		
Alias	dir -> Get-ChildItem		
Alias	dnsn -> Disconnect-PSSession		
Alias	ebp -> Enable-PSBreakpoint		
Alias	echo -> Write-Output		
Alias	epal -> Export-Alias		
Alias	epcsv -> Export-Csv		
Alias	epsn -> Export-PSSession		
Alias	erase -> Remove-Item		
Alias	etsn -> Enter-PSSession		
Alias	exsn -> Exit-PSSession		
Alias	fc -> Format-Custom		
Alias	fhx -> Format-Hex	3.1.0.0	Microsoft.PowerShell.Utility
Alias	fl -> Format-List		
Alias	foreach -> ForEach-Object		
Alias	ft -> Format-Table		
Alias	fw -> Format-Wide		
Alias	gal -> Get-Alias		
Alias	gbp -> Get-PSBreakpoint		
Alias	gc -> Get-Content		
Alias	gcb -> Get-Clipboard	3.1.0.0	Microsoft.PowerShell.Management
Alias	gci -> Get-ChildItem		
Alias	gcm -> Get-Command		
Alias	gcs -> Get-PSCallStack		
Alias	gdr -> Get-PSDrive		
Alias	ghy -> Get-History		
Alias	gi -> Get-Item		
Alias	gin -> Get-ComputerInfo	3.1.0.0	Microsoft.PowerShell.Management
Alias	gjb -> Get-Job		
Alias	gl -> Get-Location		
Alias	gm -> Get-Member		
Alias	gmo -> Get-Module		
Alias	gp -> Get-ItemProperty		
Alias	gps -> Get-Process		
Alias	gpv -> Get-ItemPropertyValue		
Alias	group -> Group-Object		
Alias	gsn -> Get-PSSession		
Alias	gsnp -> Get-PSSnapin		
Alias	gsv -> Get-Service		
Alias	gtz -> Get-TimeZone	3.1.0.0	Microsoft.PowerShell.Management
Alias	gu -> Get-Unique		
Alias	gv -> Get-Variable		
Alias	gwmi -> Get-WmiObject		

6.

```
PS C:\WINDOWS\system32> New-Alias "processz" Get-Process
PS C:\WINDOWS\system32> processz
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
-----	-----	-----	-----	-----	--	--	-----
469	55	97396	117908	2,97	6068	1	AcroRd32
583	25	34220	50460	0,50	8908	1	AcroRd32
558	32	24576	38180	0,38	1452	1	ApplicationFrameHost
123	8	1548	5928	0,03	4656	0	armsvc
245	16	4232	17292	0,06	7624	1	backgroundTaskHost
592	31	73128	2068	0,55	14888	1	Calculator
659	39	36808	39452	0,81	4892	1	CefSharp.BrowserSubprocess
451	46	75984	97400	5,16	14200	1	CefSharp.BrowserSubprocess
140	7	1404	8448	0,13	16152	1	CompPkgSrv
100	7	6308	5940	0,14	10292	1	conhost
266	14	7404	19152	7,41	13212	1	conhost
467	17	5256	20572	1,50	10732	1	ctfmon
762	23	1836	5408	1,72	592	0	csrss
807	39	3000	5676	5,91	704	1	csrss
413	19	4252	12204	0,14	3112	0	dasHost
89	6	1064	4860	0,00	4688	0	DisplayTuneService
263	31	7624	16528	0,36	8020	1	dllhost
188	16	3080	10160	0,05	10000	0	dllhost
233	17	3828	12608	0,13	10328	1	dllhost
1302	72	132884	79352	42,52	1520	1	dwm
2858	317	127748	150556	23,30	7372	1	explorer
39	9	4456	9468	0,25	836	1	fontdrvhost
32	5	1480	3364	0,05	924	0	fontdrvhost
708	34	65212	6236	0,38	15372	1	GameBar
289	12	2804	13924	0,11	7396	1	GameBarFTServer
875	64	64044	82468	20,53	5176	0	GameManagerService
171	11	1748	1708	0,03	4584	0	GoogleCrashHandler
154	9	1684	1304	0,02	12128	0	GoogleCrashHandler64
233	14	2728	11588	0,09	4804	0	hamachi-2
216	12	3044	9728	22,02	4844	0	HuaweiHiSuiteService64
0	0	60	8		0	0	Idle
136	8	1292	6068	0,02	5568	0	jhi_service
311	21	9312	10904	0,45	5000	0	lghub_updater
167	9	1728	7784	0,03	5008	0	LMIGuardianSvc
1664	28	8848	21776	5,55	772	0	lsass
0	0	448	91320	5,27	2128	0	Memory Compression
954	53	102672	8676	2,14	2188	1	Microsoft.Photos
405	20	37716	50948	1,80	9512	0	MoUsoCoreWorker
323	23	82948	127844	8,42	376	1	msedge
346	25	110188	152600	10,73	1616	1	msedge
354	29	110188	159332	11,61	1908	1	msedge
400	27	76944	58472	4,20	3300	1	msedge
329	22	83872	128888	8,47	5680	1	msedge
296	20	41336	25692	1,23	6812	1	msedge
329	19	45288	82924	2,91	7268	1	msedge
489	40	186900	225772	27,19	8448	1	msedge
244	17	46116	80592	8,75	8452	1	msedge
429	28	83468	127520	3,47	8608	1	msedge
332	25	106704	151616	10,16	11320	1	msedge

```
PS C:\WINDOWS\system32> Get-Alias processz
```

CommandType	Name	Version	Source
-----	----	-----	-----
Alias	processz -> Get-Process		

7.

```
PS C:\WINDOWS\system32> Get-Service | fl name, status
```

```
Name   : AarSvc_43172  
Status : Stopped
```

```
Name   : AdobeARMservice  
Status : Running
```

```
Name   : AJRouter  
Status : Stopped
```

```
Name   : ALG  
Status : Stopped
```

```
Name   : AOCDTAOCGMenuService  
Status : Running
```

```
Name   : AppIDSvc  
Status : Stopped
```

```
Name   : Appinfo  
Status : Running
```

```
Name   : AppMgmt  
Status : Stopped
```

```
Name   : AppReadiness  
Status : Stopped
```

```
Name   : AppVClient  
Status : Stopped
```

```
Name   : AppXSvc  
Status : Running
```

```
Name   : AssignedAccessManagerSvc  
Status : Stopped
```

```
Name   : AudioEndpointBuilder  
Status : Running
```

```
Name   : Audiosrv  
Status : Running
```

```
Name   : autotimesvc  
Status : Stopped
```

```
Name   : AxInstSV  
Status : Stopped
```

```
Name   : BcastDVRUserService_43172  
Status : Stopped
```

```
Name   : BDESVC  
Status : Stopped
```



```
PS C:\WINDOWS\system32> Get-Service | ft name, status
```

Name	Status
----	-----
AarSvc_43172	Stopped
AdobeARMservice	Running
AJRouter	Stopped
ALG	Stopped
AOCDTAOCGMenuService	Running
AppIDSvc	Stopped
AppInfo	Running
AppMgmt	Stopped
AppReadiness	Stopped
AppVClient	Stopped
AppXSvc	Running
AssignedAccessManagerSvc	Stopped
AudioEndpointBuilder	Running
Audiosrv	Running
autotimesvc	Stopped
AxInstSV	Stopped
BcastDVRUserService_43172	Stopped
BDESCV	Stopped
BEService	Stopped
BFE	Running
BITS	Running
BluetoothUserService_43172	Stopped
BrokerInfrastructure	Running
BTAGService	Stopped
BthAvctpSvc	Stopped
bthserv	Stopped
camsvc	Running
CaptureService_43172	Running
cbdhsvc_43172	Running
CDPSvc	Running
CDPUserService_43172	Running
CertPropSvc	Stopped
ClickToRunSvc	Running
ClipSVC	Running
COMSysApp	Stopped
ConsentUxUserSvc_43172	Stopped
CoreMessagingRegistrar	Running
CredentialEnrollmentManagerUserSvc_43172	Stopped
CryptSvc	Running
CscService	Stopped
DcomLaunch	Running
defragsvc	Stopped
DeviceAssociationBrokerSvc_43172	Stopped
DeviceAssociationService	Running
DeviceInstall	Stopped
DevicePickerUserSvc_43172	Stopped
DevicesFlowUserSvc_43172	Stopped
DevQueryBroker	Running
Dhcp	Running
diagnosticshub.standardcollector.service	Stopped
diagsvc	Stopped
DiagTrack	Running
DispBrokerDesktopSvc	Running
DisplayEnhancementService	Stopped

```
PS C:\WINDOWS\system32> Get-Service | ft name, status -AutoSize
```

Name	Status
----	-----
AarSvc_43172	Stopped
AdobeARMservice	Running
AJRouter	Stopped
ALG	Stopped
AOCDTAOCGMenuService	Running
AppIDSvc	Stopped
Appinfo	Running
AppMgmt	Stopped
AppReadiness	Stopped
AppVClient	Stopped
AppXSvc	Running
AssignedAccessManagerSvc	Stopped
AudioEndpointBuilder	Running
Audiosrv	Running
autotimesvc	Stopped
AxInstSV	Stopped
BcastDVRUserService_43172	Stopped
BDESVC	Stopped
BEService	Stopped
BFE	Running
BITS	Running
BluetoothUserService_43172	Stopped
BrokerInfrastructure	Running
BTAGService	Stopped
BthAvctpSvc	Stopped
bthserv	Stopped
camsvc	Stopped
CaptureService_43172	Running
cbdhsvc_43172	Running
CDPSvc	Running
CDPUserService_43172	Running
CertPropSvc	Stopped
ClickToRunSvc	Running
ClipSVC	Running
COMSysApp	Stopped
ConsentUxUserSvc_43172	Stopped
CoreMessagingRegistrar	Running
CredentialEnrollmentManagerUserSvc_43172	Stopped
CryptSvc	Running
CscService	Stopped
DcomLaunch	Running
defragsvc	Stopped
DeviceAssociationBrokerSvc_43172	Stopped
DeviceAssociationService	Running
DeviceInstall	Stopped
DevicePickerUserSvc_43172	Stopped
DevicesFlowUserSvc_43172	Stopped
DevQueryBroker	Running
Dhcp	Running
diagnosticshub.standardcollector.service	Stopped
diagsvc	Stopped
DiagTrack	Running
DispBrokerDesktopSvc	Running
DisplayEnhancementService	Stopped

8.

```
PS C:\WINDOWS\system32> Get-Process | Sort-Object name
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
583	25	34220	50460	0,58	8908	1	AcroRd32
482	54	92016	112664	8,28	6068	1	AcroRd32
558	31	24516	35892	0,39	1452	1	ApplicationFrameHost
123	8	1548	5912	0,03	4656	0	armsvc
592	31	73128	1968	0,55	14888	1	Calculator
451	46	75984	59980	5,17	14200	1	CefSharp.BrowserSubprocess
659	39	36808	37152	0,81	4892	1	CefSharp.BrowserSubprocess
140	7	1404	8448	0,13	16152	1	CompPkgSrv
268	14	6888	19212	12,05	13212	1	conhost
100	7	6308	5952	0,16	10292	1	conhost
465	17	6588	21920	3,27	10732	1	ctfmon
799	39	3000	5636	9,20	704	1	csrss
761	23	1836	5396	1,73	592	0	csrss
411	19	4276	12128	0,14	3112	0	dasHost
89	6	1064	4860	0,00	4688	0	DisplayTuneService
245	22	5020	13748	0,19	10328	1	dllhost
188	16	3024	10124	0,05	10000	0	dllhost
263	31	7528	16444	0,39	8020	1	dllhost
1319	74	135808	81860	73,45	1520	1	dwm
2917	330	127916	150000	26,88	7372	1	explorer
32	5	1480	3364	0,05	924	0	fontdrvhost
39	9	4456	8936	0,39	836	1	fontdrvhost
708	34	65212	2740	0,38	15372	1	GameBar
289	12	2804	13924	0,11	7396	1	GameBarFTServer
872	64	64032	73204	20,77	5176	0	GameManagerService
171	11	1748	1576	0,03	4584	0	GoogleCrashHandler
154	9	1684	1092	0,02	12128	0	GoogleCrashHandler64
233	14	2728	11508	0,09	4804	0	hamachi-2
216	12	3044	9676	23,06	4844	0	HuaweiHiSuiteService64
0	0	60	8		0	0	Idle
136	8	1292	6056	0,02	5568	0	jhi_service
311	21	9312	10792	0,45	5000	0	lghub_updater
167	9	1728	7744	0,03	5008	0	LMIGuardianSvc
1664	28	8864	21656	5,78	772	0	lsass
0	0	672	214348	7,95	2128	0	Memory Compression
954	53	102672	4544	2,14	2188	1	Microsoft.Photos
400	20	37668	42016	1,80	9512	0	MoUsoCoreWorker
306	9	1756	6708	0,03	13064	1	msedge
328	23	82344	127216	7,88	13192	1	msedge
780	49	228168	112656	20,59	13352	1	msedge
603	30	119436	163192	26,66	13016	1	msedge
343	22	82408	125660	7,72	12924	1	msedge
331	22	84716	129928	9,08	12960	1	msedge
309	22	81304	126764	7,75	12980	1	msedge
221	14	10952	24576	0,13	14052	1	msedge
312	21	41740	24440	0,78	15644	1	msedge
373	24	61744	47776	3,02	16156	1	msedge
247	17	29288	57024	0,80	13792	1	msedge
478	25	20540	44484	34,42	13360	1	msedge
239	13	7568	17336	1,06	13460	1	msedge
325	22	80296	124616	7,81	13556	1	msedge
2444	97	98496	167948	59,06	12876	1	msedge
329	22	83332	127640	8,83	5680	1	msedge
296	20	41328	25744	1,23	6812	1	msedge
329	19	45288	82420	2,91	7268	1	msedge
402	27	76972	60172	4,28	3300	1	msedge
324	23	83764	128016	8,77	376	1	msedge
327	24	105328	149364	11,36	1616	1	msedge
358	29	110676	160232	11,88	1908	1	msedge
292	17	6512	20484	0,19	11736	1	msedge
490	41	191804	229152	33,70	12056	1	msedge
317	23	87516	132020	8,47	12160	1	msedge
326	25	105300	152092	10,27	11320	1	msedge
498	41	186820	225112	27,45	8448	1	msedge

PS C:\WINDOWS\system32> Get-Process | Sort-Object name -Descending

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
518	40	72268	3648	0,56	9456	1	YourPhone
246	11	1840	5360	0,16	964	0	WUDFHost
324	14	7536	14600	3,84	16328	0	WmiPrvSE
1698	79	178940	162044	54,30	15440	1	WINWORD
1100	75	106680	3268	1,88	13024	1	WinStore.App
271	12	2844	9636	0,19	452	1	winlogon
165	12	1380	6624	0,08	688	0	wininit
739	39	68616	2024	0,38	4904	1	Video.UI
131	10	1960	8976	0,05	14428	1	UserOOBEBroker
167	9	2000	8040	0,11	5340	0	THXService
208	12	2272	9928	0,09	11476	1	THXHelper22AD
213	12	2316	9980	0,06	11532	1	THXHelper0520
626	26	62024	48396	0,84	11008	1	TextInputHost
194	14	2124	8540	0,34	4668	1	taskhostw
303	15	3548	13792	0,56	10748	1	TabTip
5440	0	200	144	263,25	4	0	System
249	10	2456	7816	0,98	2268	0	svchost
202	12	2420	10184	0,20	2204	0	svchost
187	10	2000	7080	0,94	2452	0	svchost
156	9	1724	7372	0,13	2284	0	svchost
171	11	1784	7288	0,06	2180	0	svchost
167	9	2004	7296	0,05	2036	0	svchost
314	10	2692	9560	0,94	1956	0	svchost
121	8	1456	6312	0,02	2172	0	svchost
444	12	2852	8556	3,28	2140	0	svchost
158	8	1672	6376	0,08	2844	0	svchost
267	16	2968	8752	0,09	2776	0	svchost
199	11	1976	7536	0,06	3184	0	svchost
250	14	2872	11708	0,13	2976	1	svchost
473	18	13408	22736	12,97	2668	0	svchost
359	19	5552	21848	0,59	2552	0	svchost
198	11	2144	8336	0,05	2504	0	svchost
290	14	3068	7708	1,58	2652	0	svchost
137	9	1576	6308	0,05	2620	0	svchost
395	15	4104	10168	1,67	1876	0	svchost
213	12	2192	8872	0,08	1204	0	svchost
108	7	1332	4844	0,03	1156	0	svchost
149	9	2072	11160	0,05	1220	0	svchost
195	11	2004	6680	0,11	1212	0	svchost
239	7	1296	5580	0,08	1140	0	svchost
1395	20	9120	16304	16,86	760	0	svchost
227	12	2684	13416	16,27	680	0	svchost
315	11	2732	7916	1,28	1060	0	svchost
1288	31	12416	29292	7,66	900	0	svchost
152	10	1712	7356	0,13	1764	0	svchost
408	18	6780	15132	2,08	1716	0	svchost
180	7	1584	5752	0,13	1812	0	svchost
245	13	3628	12840	0,39	1776	0	svchost
231	10	2320	6976	0,56	1684	0	svchost
176	9	1768	7496	0,06	1348	0	svchost
161	18	1880	5948	0,02	1316	0	svchost
154	30	5504	7160	0,27	1596	0	svchost
433	14	14580	15548	11,13	1364	0	svchost
445	14	4056	17676	1,30	3580	0	svchost
543	29	10316	23384	0,19	8588	0	svchost
119	8	1440	6176	0,02	8060	0	svchost
290	15	3884	15396	0,30	9156	0	svchost
125	8	3172	8432	0,06	8740	0	svchost
390	18	9200	29436	0,72	7744	1	svchost
368	18	4128	18860	0,19	5496	0	svchost
209	12	2364	8628	0,38	5404	0	svchost
384	20	4844	16236	0,13	7588	0	svchost
217	11	2700	11228	3,53	7160	0	svchost
224	12	2612	9752	0,31	13264	0	svchost

9.

```
PS C:\WINDOWS\system32> Get-Service | Where-Object { $_.name -eq "w32time" }

Status      Name             DisplayName
-----
Stopped     W32Time           Windows Time
```

10.

```
PS C:\WINDOWS\system32> Get-Service | Where-Object { $_.name -like "wi*" }

Status      Name             DisplayName
-----
Stopped     WiaRpc            Állókép-beviteli események
Running     WinDefend         Microsoft Defender víruskereső szol...
Running     WinHttpAutoProx... WinHTTP automatikus webproxy-kereső...
Running     Winmgmt           Windows Management Instrumentation
Stopped     WinRM             Rendszerfelügyeleti webszolgáltatások
Stopped     wisvc             Windows Insider szolgáltatás
```

11.

```
PS C:\WINDOWS\system32> Get-Service | Group-Object status

Count Name             Group
-----
182 Stopped          {AarSvc_43172, AJRouter, ALG, AppIDSvc...}
110 Running          {AdobeARMservice, AOCDTAOCGMenuService, Appinfo, AppXSvc...}
```

```
PS C:\WINDOWS\system32> processz | ForEach-Object { $_.id*2 }
12136
17816
2904
9312
2488
29776
9784
28400
32304
20584
26424
21464
1184
1408
6224
9376
16040
20000
20656
3040
14744
1672
1848
30744
14792
10352
9168
24256
9608
9688
0
11136
```

12.

```
PS C:\WINDOWS\system32> processz | Measure-Object

Count      : 222
Average    :
Sum        :
Maximum    :
Minimum    :
Property   :
```

13.

```
PS C:\WINDOWS\system32> processz | Measure-Object -Property id -Maximum -Minimum -Average -Sum

Count      : 223
Average    : 6742,31390134529
Sum        : 1503536
Maximum    : 16376
Minimum    : 0
Property   : Id
```

14.

```
PS C:\WINDOWS\system32> (Get-Service).count
292
PS C:\WINDOWS\system32> $x = (Get-Service)
PS C:\WINDOWS\system32> $x.count
292
```

15.

```
PS C:\WINDOWS\system32> $x = 5
PS C:\WINDOWS\system32> $x | Get-Member

TypeName: System.Int32

Name      MemberType Definition
-----
CompareTo Method      int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(System.Object obj), int IComparable[int].CompareTo(int other)
Equals    Method      bool Equals(System.Object obj), bool Equals(int obj), bool IEquatable[int].Equals(int other)
GetHashCode Method    int GetHashCode()
GetType   Method      type GetType()
GetTypeCode Method    System.TypeCode GetTypeCode(), System.TypeCode IConvertible.GetTypeCode()
ToBoolean Method      bool IConvertible.ToBoolean(System.IFormatProvider provider)
ToByte    Method      byte IConvertible.ToByte(System.IFormatProvider provider)
ToChar    Method      char IConvertible.ToChar(System.IFormatProvider provider)
ToDateTime Method    datetime IConvertible.ToDateTime(System.IFormatProvider provider)
ToDecimal Method      decimal IConvertible.ToDecimal(System.IFormatProvider provider)
ToDouble  Method      double IConvertible.ToDouble(System.IFormatProvider provider)
ToInt16   Method      int16 IConvertible.ToInt16(System.IFormatProvider provider)
ToInt32   Method      int IConvertible.ToInt32(System.IFormatProvider provider)
ToInt64   Method      long IConvertible.ToInt64(System.IFormatProvider provider)
ToSByte   Method      sbyte IConvertible.ToSByte(System.IFormatProvider provider)
ToSingle  Method      float IConvertible.ToSingle(System.IFormatProvider provider)
ToString  Method      string ToString(), string ToString(string format), string ToString(System.IFormatProvider provider), string ToString(string format, System.IFormatProvider provider), string IFormattable.ToString(string format, System.IFormatProvider formatProvi...
ToType    Method      System.Object IConvertible.ToType(type conversionType, System.IFormatProvider provider)
ToUInt16  Method      ushort IConvertible.ToUInt16(System.IFormatProvider provider)
ToUInt32  Method      uint IConvertible.ToUInt32(System.IFormatProvider provider)
ToUInt64  Method      ulong IConvertible.ToUInt64(System.IFormatProvider provider)
```

15.(Feladatsor szerint 2db 15. feladat van)

```
PS C:\WINDOWS\system32> $szoveg = "Miskolc"
PS C:\WINDOWS\system32> "$szoveg-on élek."
Miskolc-on élek.
PS C:\WINDOWS\system32> '$szoveg-on élek.'
$szoveg-on élek.
```

16.

```
PS C:\WINDOWS\system32> $szoveg = "Miskolc"
PS C:\WINDOWS\system32> "$szoveg-on élek."
Miskolc-on élek.
PS C:\WINDOWS\system32> '$szoveg-on élek.'
$szoveg-on élek.
PS C:\WINDOWS\system32> $szoveg.Length
7
PS C:\WINDOWS\system32> $szoveg.Toupper()
MISKOLC
PS C:\WINDOWS\system32> $szoveg.Replace("kolc","ka")
Miska
PS C:\WINDOWS\system32> $szoveg.Split("s")
Mi
kolc
```

Get-Service Out-GridView			
Filter			
+ Add criteria ▼			
Status	Name	DisplayName	
Stopped	AarSvc_43172	AarSvc_43172	
Running	AdobeARMservice	Adobe Acrobat Update Service	
Stopped	AJRouter	AllJoyn-útválasztó szolgáltatás	
Stopped	ALG	Alkalmazási réteg átjárószolgáltatása	
Running	AOCDTAOCGMenuService	AOC G-MenuAOC G-Menu Service by Portrait Displays	
Stopped	AppIDSvc	Alkalmazásidentitás	
Running	Appinfo	Alkalmazásinformációk	
Stopped	AppMgmt	Alkalmazásvezérlés	
Stopped	AppReadiness	Alkalmazás-előkészítő	
Stopped	AppVClient	Microsoft App-V Client	
Running	AppXSvc	AppX Deployment Service (AppXSVC)	
Stopped	AssignedAccessManagerSvc	AssignedAccessManager szolgáltatás	
Running	AudioEndpointBuilder	Windows-hangvégpontépítő	
Running	Audiosrv	Windows audió	
Stopped	autotimesvc	Mobilhálózati idő	
Stopped	AxInstSV	ActiveX Telepítő (AxInstSV)	
Stopped	BcastDVRUserService_43172	BcastDVRUserService_43172	
Stopped	BDESVC	BitLocker meghajtótitkosítási szolgáltatás	
Stopped	BEService	BattlEye Service	
Running	BFE	Alap szűrőprogram	
Running	BITS	Háttérben futó intelligens átviteli szolgáltatás	
Stopped	BluetoothUserService_43172	BluetoothUserService_43172	
Running	BrokerInfrastructure	Háttérfeladatok infrastruktúra-szolgáltatása	
Stopped	BTAGService	Bluetooth-hangátjáró szolgáltatás	
Stopped	BthAvctpSvc	AVCTP-szolgáltatás	
Stopped	bthserv	Bluetooth-támogatási szolgáltatás	
Stopped	camsvc	Képesség hozzáférés-kezelési szolgáltatása	
Running	CaptureService_43172	CaptureService_43172	
Running	cbdhsvc_43172	cbdhsvc_43172	
Running	CDPSvc	Csatlakoztatott eszközök platformja (CDP) szolgáltatás	
Running	CDPIUserSvc_43172	CDPIUserSvc_43172	

18.

```
PS C:\WINDOWS\system32> $n= "C:\neptunkod.txt"
PS C:\WINDOWS\system32> $neptunkod = Get-Content $n
PS C:\WINDOWS\system32> $neptunkod
Bettes Benj min L szl  
PS C:\WINDOWS\system32> $neptunkod.Count
1
PS C:\WINDOWS\system32> Get-Item $n

    Directory: C:\

Mode                LastWriteTime         Length Name
----                -
-a-----         2021. 03. 05.         17:59             25 neptunkod.txt
```