```
PS C:\WINDOWS\svstem32> Get-Alias
CommandType
                                                                     Version
                                                                                 Source
                Name
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
```

```
PS C:\WINDOWS\svstem32> "$string-on élek."
Miskolc-on élek.
PS C:\WINDOWS\svstem32> '$string-on élek.'
$string-on élek.
```

PS C:\WINDOWS\system32> \$string = "Miskolc"

```
PS C:\WINDOWS\system32> (processz).count_
241
PS C:\WINDOWS\svstem32> $services =(processz)
PS C:\WINDOWS\system32> $services.count_
240
```

```
PS C:\WINDOWS\system32> $n = "C:\OYFTRO.txt"
PS C:\WINDOWS\svstem32> $neptunkod = Get-Content $n
PS C:\WINDOWS\system32> $neptunkod
Ivacs DĂ vid
PS C:\WINDOWS\system32> $neptunkod.Count
PS C:\WINDOWS\system32> Get-Item $n
    Directory: C:\
Mode
                     LastWriteTime
                                           Length Name
                3/9/2021 9:56 AM
                                               12 OYFTRO.txt
```

```
PS C:\WINDOWS\system32> processz | ForEach-Object { $_.id * 2 }
4568
17472
60736
9632
47000
9816
35432
53832
35616
55800
49856
1608
51688
8888
7152
10072
26632
35200
40752
57144
59528
6808
13456
60504
50232
9736
60272
61312
2120
18176
31816
13664
13680
10704
7032
33976
21736
0
20128
2016
9624
```

```
PS C:\WINDOWS\system32> $x = 5
PS C:\WINDOWS\system32> $x | Get-Member
  TypeName: System.Int32
           MemberType Definition
Name
                       int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(System.Object obj), int IComparable[int].CompareT...
CompareTo
           Method
Equals
           Method
                       bool Equals(System.Object obj), bool Equals(int obj), bool IEquatable[int].Equals(int other)
GetHashCode Method
                       int GetHashCode()
GetTvpe
                       type GetType()
           Method
GetTypeCode Method
                       System.TypeCode GetTypeCode(), System.TypeCode IConvertible.GetTypeCode()
                       bool IConvertible.ToBoolean(System.IFormatProvider provider)
ToBoolean
           Method
ToByte
           Method
                       byte IConvertible.ToByte(System.IFormatProvider provider)
                       char IConvertible.ToChar(System.IFormatProvider provider)
ToChar
           Method
ToDateTime
           Method
                       datetime IConvertible.ToDateTime(System.IFormatProvider provider)
ToDecimal
                       decimal IConvertible.ToDecimal(System.IFormatProvider provider)
           Method
                       double IConvertible.ToDouble(System.IFormatProvider provider)
ToDouble
           Method
ToInt16
                       int16 IConvertible.ToInt16(System.IFormatProvider provider)
           Method
                       int IConvertible.ToInt32(System.IFormatProvider provider)
ToInt32
           Method
ToInt64
                       long IConvertible.ToInt64(System.IFormatProvider provider)
           Method
                       sbyte IConvertible.ToSByte(System.IFormatProvider provider)
ToSByte
           Method
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, Syste...
                       System.Object IConvertible.ToType(type conversionType, System.IFormatProvider provider)
ToType
            Method
                       uint16 IConvertible.ToUInt16(System.IFormatProvider provider)
ToUInt16
           Method
                       uint32 IConvertible.ToUInt32(System.IFormatProvider provider)
ToUInt32
           Method
                       uint64 IConvertible.ToUInt64(System.IFormatProvider provider)
ToUInt64
           Method
```

💹 Get-Se	ervice  Out-GridView		- 🗆 X			
Filter			₽ ⊗			
+ Add crit	eria 🕶					
Status	Name	DisplayName	^			
Stopped	AarSvc_6aee8b69	Agent Activation Runtime_6aee8b69				
Running	AdobeARMservice	Adobe Acrobat Update Service				
Stopped	AdobeFlashPlayerUpdateSvc	Adobe Flash Player Update Service				
Stopped	AdobeUpdateService	AdobeUpdateService				
Stopped	AJRouter	AllJoyn Router Service				
Stopped	ALG	Application Layer Gateway Service				
Running	AMD Crash Defender Service	AMD Crash Defender Service				
Stopped	AMD External Events Utility	AMD External Events Utility				
Stopped	AppIDSvc	Application Identity				
Running	Appinfo	Application Information				
Running	Apple Mobile Device Service	Apple Mobile Device Service				
Running	AppMgmt	Application Management				
Stopped	AppReadiness	App Readiness				
Stopped	AppVClient	Microsoft App-V Client				
Running	AppXSvc	AppX Deployment Service (AppXSVC)				
Stopped	Assigned Access Manager Svc	AssignedAccessManager Service				
Running	AudioEndpointBuilder	Windows Audio Endpoint Builder				
Running	Audiosrv	Windows Audio				
Stopped	autotimesvc	Cellular Time				
Stopped	AxInstSV	ActiveX Installer (AxInstSV)				
Stopped	BcastDVRUserService_6aee8b69	GameDVR and Broadcast User Service_6aee8b69				
Stopped	BDESVC	BitLocker Drive Encryption Service				
Stopped	BEService	BattlEye Service				
Running	BFE	Base Filtering Engine				
Running	BITS	Background Intelligent Transfer Service				
Stopped	BluetoothUserService_6aee8b69	Bluetooth User Support Service_6aee8b69				
Running	Bonjour Service	Bonjour Service				
Running	BrokerInfrastructure	Background Tasks Infrastructure Service				
Stopped	BTAGService	Bluetooth Audio Gateway Service				
Running	BthAvctpSvc	AVCTP service				
Stonned	hthsen	Rhietooth Support Service	V			

```
PS C:\WINDOWS\system32> processz | Measure-Object -Property id -Maximum -Minimum -Average -Sum
Count
        : 240
Average : 11290.0166666667
Sum
       : 2709604
Maximum : 30656
Minimum : 0
Property : Id
```

```
PS C:\WINDOWS\system32> processz | Measure-Object
Count : 240
Average :
Sum
Maximum :
Minimum :
Property :
```

```
PS C:\WINDOWS\system32> $string.Length
PS C:\WINDOWS\system32> $string.Toupper()
MISKOLC
PS C:\WINDOWS\system32> $string.Replace("kolc", "ka")
Miska
PS C:\WINDOWS\system32> $string.Split("s")
Μi
ko1c
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id		ProcessName
166	12	3848	11804	0.69	2284		amdfendrsr
153	11	2200	1608	0.02	8736	10	amdow
5827	38	185320	187264	1.61	30368	10	AMDRSServ
227	19	3384	13156	6.13			AppleMobileDeviceService
520	27	23844	37748	1.45	23500	10	ApplicationFrameHost
123	8	1592	20352	0.25	4908	0	armsvc
262	21	10784	18068	35.53	17716	0	audiodg
241	16	4228	20500	0.13	26916	10	backgroundTaskHost
97	7	6344	11276	0.02	17808	10	conhost
265	14	5784	17976	2.92	27900	10	conhost
400	21	6872	19020	0.31	24928	10	CptHost
819	25	1984	11568	8.73	804	0	csrss
884	38	11524	7008	36.06	25844	10	csrss
521	17	10324	27252	5.61	4044	10	ctfmon
513	21	14860	17244	7.13	3576	0	dasHost
767	46	35548	69900	7.22	5036	10	Discord
720	35	147964	160652	12.02	13316	10	Discord
302	20	12712	58744	0.13	17600	10	Discord
213	15	11104	24084	0.02	20376	10	Discord
1162	128	206908	240160	72.34	28572	10	Discord
415	22	16988	42288	2.14	29764	10	Discord
269	24	6644	14548	0.23	3404	10	dllhost
203	16	3460	24660	0.50	6728	0	dllhost
170	9	2332	13808	0.03	30252	10	dllhost
1555	64	174400	75424	113.14	25116	10	dwm
129	8	1884	15340	0.19	4868	0	esif_uf
3285	130	99332	169528	80.75	30136	10	explorer
483	37	17812	43588	1.83	30656	10	filezilla
32	6	1680	4888	0.41	1060	0	fontdrvhost
39	9	5072	12024	0.78	9088	10	fontdrvhost
178	11	1844	8584	0.06		10	fzsftp
517	22	8664	63608	68.80	6832		GamingServices
131	8	1516	12028	10.53			GamingServicesNet
278	18	5040	42236	5.67			hamachi-2
51	5	668	5356	0.06	3516		HP3DDGService
1045	51	45412	2712	1.25	16988		HxOutlook

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

```
PS C:\WINDOWS\system32> Get-Service
Status
        Name
                            DisplayName
Stopped
        AarSvc_6aee8b69
                            Agent Activation Runtime_6aee8b69
Running
        AdobeARMservice
                            Adobe Acrobat Update Service
Stopped
        AdobeFlashPlaye... Adobe Flash Player Update Service
Stopped
        AdobeUpdateService AdobeUpdateService
Stopped
        AJRouter
                            AllJoyn Router Service
Stopped
        ALG
                            Application Laver Gateway Service
Running
        AMD Crash Defen... AMD Crash Defender Service
Stopped
       AMD External Ev... AMD External Events Utility
       AppIDSvc
Stopped
                            Application Identity
                            Application Information
Running Appinfo
        Apple Mobile De... Apple Mobile Device Service
Running
Running
        AppMgmt
                            Application Management
Stopped
        AppReadiness
                            App Readiness
Stopped
                            Microsoft App-V Client
        AppVClient
Running
        AppXSvc
                            AppX Deployment Service (AppXSVC)
Stopped
        AssignedAccessM... AssignedAccessManager Service
Running
        AudioEndpointBu... Windows Audio Endpoint Builder
Running
        Audiosrv
                            Windows Audio
Stopped
       autotimesvc
                            Cellular Time
Stopped AxInstSV
                            ActiveX Installer (AxInstSV)
Stopped BcastDVRUserSer... GameDVR and Broadcast User Service_...
Stopped BDESVC
                            BitLocker Drive Encryption Service
Stopped
        BEService
                            BattlEye Service
                            Base Filtering Engine
Running
        BFE
                            Background Intelligent Transfer Ser...
Running
       BITS
Stopped BluetoothUserSe... Bluetooth User Support Service_6aee...
Running Bonjour Service
                            Bonjour Service
Running BrokerInfrastru... Background Tasks Infrastructure Ser...
Stopped BTAGService
                            Bluetooth Audio Gateway Service
Running BthAvctpSvc
                            AVCTP service
Stopped
                            Bluetooth Support Service
        bthserv
                            Capability Access Manager Service
Running
        camsvc
Running
        CaptureService_... CaptureService_6aee8b69
                            Clipboard User Service_6aee8b69
Running
        cbdhsvc_6aee8b69
Running
                            Connected Devices Platform Service
        CDPSvc
       CDPUserSvc_6aee... Connected Devices Platform User Ser...
Running
Running CertPropSvc
                            Certificate Propagation
Running
       ClickToRunSvc
                            Microsoft Office Kattintásra szolgá...
       ClipSVC
                            Client License Service (ClipSVC)
Running
```

COM+ System Application

Cryptographic Services

CredentialEnrol... CredentialEnrollmentManagerUserSvc\_...

Stopped

Stopped

Running

COMSysApp

CryptSvc

Stopped ConsentUxUserSv... ConsentUX\_6aee8b69 Running CoreMessagingRe... CoreMessaging

PS C:\WINDOWS\system32> Get-Service	ft name, status -Auto	Size
Name	Status	
AarSvc_6aee8b69	Stopped	
AdobeARMservice	Running	
AdobeFlashPlayerUpdateSvc	Stopped	
AdobeUpdateService	Stopped	
AJRouter	Stopped	
ALG	Stopped	
AMD Crash Defender Service	Running	
AMD External Events Utility	Stopped	
AppIDSvc	Stopped	
Appinfo	Running	
Apple Mobile Device Service	Running	
AppMgmt	Running	
AppReadiness	Stopped	
AppVClient	Stopped	
AppXSvc	Running	
AssignedAccessManagerSvc	Stopped	
AudioEndpointBuilder	Running	
Audiosrv	Running	
autotimesvc	Stopped	
AxInstSV	Stopped	
BcastDVRUserService_6aee8b69	Stopped	
BDESVC	Stopped	
BEService	Stopped	
BFE	Running	
BITS	Running	
BluetoothUserService_6aee8b69	Stopped	
Bonjour Service	Running	
BrokerInfrastructure	Running	
BTAGService	Stopped	
BthAvctpSvc	Running	
bthserv	Stopped	
camsvc	Running	
CaptureService_6aee8b69	Running	
cbdhsvc_6aee8b69	Running	
CDPSvc	Running	
CDPUserSvc_6aee8b69	Running	
CertPropSvc	Running	
ClickToRunSvc	Running	
ClipSVC	Stopped	
COMSysApp	Stopped	
ConsentUxUserSvc_6aee8b69	Stopped	

PS C:\WINDOWS\system32> Get-Service	ft name, status
Name	Status
AarSvc_6aee8b69	Stopped
AdobeARMservice	Running
AdobeFlashPlayerUpdateSvc	Stopped
AdobeUpdateService	Stopped
AJRouter	Stopped
ALG	Stopped
AMD Crash Defender Service	Running
AMD External Events Utility	Stopped
AppIDSvc	Stopped
Appinfo	Running
Apple Mobile Device Service	Running
AppMgmt	Running
AppReadiness	Stopped
AppVClient	Stopped
AppXSvc	Running
AssignedAccessManagerSvc	Stopped
AudioEndpointBuilder	Running
Audiosrv	Running
autotimesvc	Stopped
AxInstSV	Stopped
BcastDVRUserService_6aee8b69	Stopped
BDESVC	Stopped
BEService	Stopped
BFE	Running
BITS	Running
BluetoothUserService_6aee8b69	Stopped
Bonjour Service	Running
BrokerInfrastructure	Running
BTAGService	Stopped
BthAvctpSvc	Running
bthserv	Stopped
camsvc	Running
CaptureService_6aee8b69 cbdhsvc_6aee8b69	Running Running
CDPSvc	Running
CDPUserSvc_6aee8b69	Running
CertPropSvc	Running
ClickToRunSvc	Running
ClipSVC	Running
COMSysApp	Stopped
ConsentUxUserSvc_6aee8b69	Stopped

```
TypeName: System.ServiceProcess.ServiceController
                          MemberType
                                        Definition
Name
Name
                          AliasProperty Name = ServiceName
RequiredServices
                          AliasProperty RequiredServices = ServicesDependedOn
Disposed
                                         System.EventHandler Disposed(System.Object, System.EventArgs)
                          Event
                                        void Close()
Close
                          Method
Continue
                          Method
                                        void Continue()
CreateObiRef
                                         System.Runtime.Remoting.ObjRef CreateObjRef(type requestedType)
                          Method
                                        void Dispose(), void IDisposable.Dispose()
Dispose
                          Method
                                        bool Equals(System.Object obj)
Equals
                          Method
                                        void ExecuteCommand(int command)
ExecuteCommand
                          Method
                                         int GetHashCode()
GetHashCode
                          Method
GetLifetimeService
                          Method
                                         System.Object GetLifetimeService()
GetType
                          Method
                                        type GetType()
InitializeLifetimeService Method
                                         System.Object InitializeLifetimeService()
Pause
                          Method
                                        void Pause()
                          Method
                                        void Refresh()
Refresh
Start
                          Method
                                         void Start(), void Start(string[] args)
```

bool CanPauseAndContinue {get;}

string DisplayName {get;set;}

string MachineName {get;set;}

string ServiceName {get;set;}

System.Object ToString();

System.ComponentModel.IContainer Container {get;}

System.ServiceProcess.ServiceType ServiceType {get;}

System.ServiceProcess.ServiceStartMode StartType {get;}

System.ServiceProcess.ServiceControllerStatus Status {get;}

System.ComponentModel.ISite Site {get;set;}

bool CanShutdown {get;}

bool CanStop {get;}

void WaitForStatus(System.ServiceProcess.ServiceControllerStatus desiredStat...

System.ServiceProcess.ServiceController[] DependentServices {get;}

System.ServiceProcess.ServiceController[] ServicesDependedOn {get;}

System.Runtime.InteropServices.SafeHandle ServiceHandle {get;}

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

Method

Method

Property

ScriptMethod

void Stop()

Stop

WaitForStatus CanPauseAndContinue

DependentServices

ServicesDependedOn

CanShutdown CanStop

DisplayName

MachineName

ServiceName

ServiceType

StartType

ToString

Site

Status

ServiceHandle

Container

```
PS C:\WINDOWS\system32> Get-Service | fl name, status
Name : AarSvc 6aee8b69
Status : Stopped
Name : AdobeARMservice
Status : Running
Name : AdobeFlashPlaverUpdateSvc
Status : Stopped
Name : AdobeUpdateService
Status : Stopped
Name : AJRouter
Status : Stopped
Name : ALG
Status : Stopped
Name : AMD Crash Defender Service
Status : Running
Name : AMD External Events Utility
Status : Stopped
Name : AppIDSvc
Status : Stopped
Name : Appinfo
Status : Running
Name : Apple Mobile Device Service
Status : Running
Name : AppMgmt
Status : Running
Name : AppReadiness
Status : Stopped
Name : AppVClient
```

Status : Stopped

PS C:\WI	NDOWS\sy	stem32>	Get-Process	Sort-Obje	ct name		
Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
166	12	3848		0.69		- a	amdfendrsr
153	11	2164			8736		amdow
5823	37	185284			30368		AMDRSServ
227	19	3384					AppleMobileDeviceService
548	28	23892					ApplicationFrameHost
123	8	1592			4908		
262	21	10784					audiodg
246	16	4300					backgroundTaskHost
267	14	5852					conhost
97	7	6344			17808		conhost
402	21	6996		0.31			CptHost
884	38	11528			25844		csrss
817	25	2036					csrss
521	17	10736			4044		ctfmon
509	20	14800					dasHost
213	15	11104					Discord
1162	128	202780	215032		28572	10	Discord
411	22	16988			29764		Discord
767	46	35564	62116	7.22	5036	10	Discord
720	35	147964	152816	12.02	13316	10	Discord
302	20	12712	58744	0.13	17600	10	Discord
167	9	2220	9668	0.03	30252		dllhost
203	16	3460		0.50	6728	0	dllhost dllhost
264	17	4540	13576	0.23	3404	10	dllhost
1474	64	134616		128.45	25116	10	dwm
129	8	1884		0.19	4868	0	esif_uf
3320	130	98440					explorer
483	37	17812			30656		filezilla
39	9	5072		0.78	9088	10	fontdrvhost fontdrvhost
32	6	1680					
178	11	1844			15908		fzsftp
517	22	8664		68.80	6832	0	GamingServices
131	8	1516		10.53	6840	0	GamingServicesNet
278	18	5040		5.67	5352	0	hamachi-2
51	5	668					HP3DDGService
1045	51	45412					HxOutlook
752	31	17976		1.30			HxTsr
0	0	60			0		Idle
553	30	15344			10064		LockApp
1949	54	12828			1008		lsass
172	14	2040	14908	1.25	4812	0	mDNSResponder

PS C:\WI	NDOWS\sy:	stem32> <mark>Ge</mark>	t-Process	Sort-Obje	ct name	-De	escending
Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
1365	175	234064	198844	69.34	780	10	Zoom
689	52	44052	50564	1.39	6508		Zoom
752	50	27216	54852	0.59			YourPhone
239	11	2176	15052	1.48			WUDFHost
169	11	3820	11052				WmiPrvSE
84	8	1736	11344				WireHelperSvc
283	12	2644	11040	0.16			winlogon
184	12	1768	15080	0.25			wininit
382	33	63440	35732	40.80			wallpaper32
135	9	1964	9660	0.02			User00BEBroker
574	25	16104	41464	1.31	19408		TextInputHost
336	20	11724	65460		13000	10	Teams
304	22	23276	74784		16136		Teams
803	35	193272	133444	1.77	2364		Teams
478	165	350468	418012	18.70	8520		Teams
297	52	66944	123660	2.45		10	Teams
1078	56	115456	163840				Teams
323	26	28120	62112	0.13	30348	10	Teams
436	21	19540	47364	3.09			Teams
1108	66	165588	214600	16.22	24240	10	Teams
325	41	9704	20940	0.53		10	taskhostw
235	13	4536	17228	0.17		10	SystemSettingsBroker
719	36	21592	2444				SystemSettings
7058	0	196	32	40,740.03			System
254	16	150720		10,519.44			svchost
418	16	8128	19416	47.02	3064		svchost
269	7	1328	11504	2.77		0	svchost
348	10	3124	16968	11.81	3200		svchost
231	14	2264	12028	0.33	3136	0	svchost
339	15	4112	16364				svchost
466	12	3728	16908	25.50	2732	0	svchost
152	10	1788	15960	1.48	2636	0	svchost
125	8	1656	13532	0.13	2888	0	svchost
213	12	2340	14892	0.42	2960	0	svchost
185	10	2156	14472	18.19	2936	0	svchost
186	11	2308	16796	5.47	3220	0	svchost
131	10	1708	12364	3.72	4140	0	svchost
678	15	8040	20352	918.86	4072	0	svchost
362	14	2628	17044	1.11	4148	0	svchost
747	84	157840	29408	177.83	4316	0	svchost
246	15	2936	18372	1.94	4188		svchost
318	18	3504	16632	8.75	3684	0	svchost
391	12	11880	28660	7,504.61	3524	0	svchost
144	9	1704	16608	0.13	3460	0	svchost

PS C:\WINDOWS\svstem32> Get-Service | Where-Object { \$ .name -eq "w32time" } Status DisplayName Name Stopped W32Time Windows Time