# Operációs rendszerek BSc

4. Gyak.

2022. 03. 02.

# Készítette:

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Miskolc, 2022

# I.feladatok

#### II.feladatok

## 1.powershell verzió

#### 2. Kérdezze le a dátumot

```
PS C:\Users\irobo\OSGyak\F5HV4GOsGyak\F5HV4G_0302> get-date

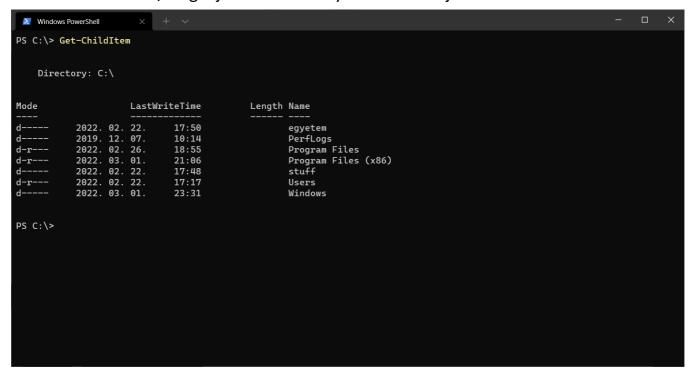
2022. március 2., szerda 12:27:17

PS C:\Users\irobo\OSGyak\F5HV4GOsGyak\F5HV4G_0302> |
```

#### 3. Kérdezze le a szolgáltatásokat

```
Windows PowerShell
PS C:\Users\irobo\OSGyak\F5HV4GOsGyak\F5HV4G_0302> Get-Service | Get-Member
   TypeName: System.ServiceProcess.ServiceController
Name
                             MemberType
                                            Definition
Name
                             AliasProperty Name = ServiceName
RequiredServices
                             AliasProperty RequiredServices = ServicesDependedOn
                                            System.EventHandler Disposed(System.Object, System.EventArgs)
Disposed
                             Event
                                            void Close()
Close
                             Method
Continue
                                            void Continue()
                             Method
                                            Void Continue()
System.Runtime.Remoting.ObjRef CreateObjRef(type requestedType)
void Dispose(), void IDisposable.Dispose()
bool Equals(System.Object obj)
CreateObjRef
                             Method
Dispose
                             Method
Equals
                             Method
ExecuteCommand
                                             void ExecuteCommand(int command)
                             Method
GetHashCode
                             Method
                                             int GetHashCode()
GetLifetimeService
                             Method
                                             System.Object GetLifetimeService()
                             Method
                                            type GetType()
InitializeLifetimeService Method
                                            System.Object InitializeLifetimeService()
                                            void Pause()
void Refresh()
Pause
                             Method
Refresh
                             Method
                                            void Start(), void Start(string[] args)
void Stop()
Start
                             Method
Stop
                             Method
WaitForStatus
                             Method
                                            void WaitForStatus(System.ServiceProcess.ServiceControllerStatus desiredStat...
CanPauseAndContinue
                             Property
                                            bool CanPauseAndContinue {get;}
CanShutdown
                             Property
                                            bool CanShutdown {get;}
CanStop
                                            bool CanStop {get;}
                             Property
Container
                             Property
                                            System.ComponentModel.IContainer Container {get;}
```

4. Kérdezze le a C:\ Meghajtóban lévő könyvtárakat ill. fájlokat

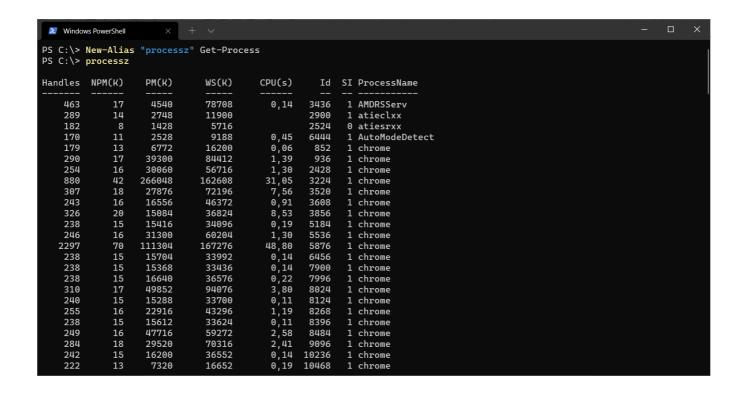


5. Kérdezze a parancsok rövidített neveit? (alias)

```
    Windows PowerShell
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 PS C:\> Get-Alias
 CommandType
                                                                                                                                                                                                                                                                                                                        Version
                                                                         % -> ForEach-Object
? -> Where-Object
ac -> Add-Content
 Alias
Alias
Alias
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
Alias
Alias
Alias
                                                                         cli -> Clear-Item
clp -> Clear-ItemProperty
cls -> Clear-Host
clv -> Clear-Variable
 Alias
                                                                          cnsn -> Connect-PSSession
 Alias
                                                                          compare -> Compare-Object
copy -> Copy-Item
cp -> Copy-Item
 Alias
 Alias
                                                                          cpi -> Copy-Item
cpp -> Copy-ItemProperty
 Alias
 Alias
                                                                           curl -> Invoke-WebRequest
 Alias
                                                                            cvpa -> Convert-Path
 Alias
Alias
Alias
                                                                           dbp -> Disable-PSBreakpoint
                                                                           del -> Remove-Item
                                                                           diff -> Compare-Object
 Alias
```

6. Készítsen egy "processz" nevű Alias, majd futtassa és kérdezze le



7. Listázza ki az adott meghajtón lévő szolgálatásokat - formázott lista/tábla?

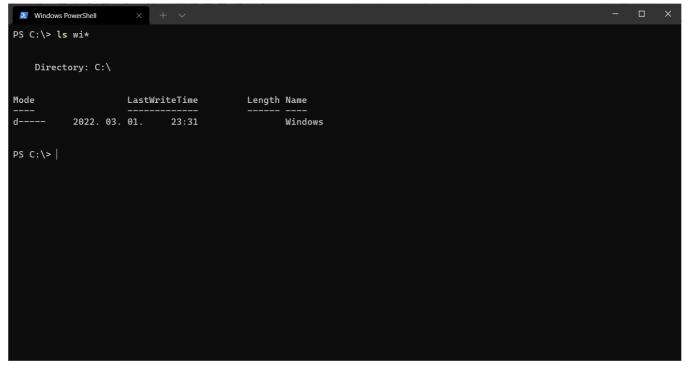
```
Windows PowerShell
PS C:\> Get-Service | fl name, status
Name
      : AarSvc_702b9
Status : Stopped
Name : AJRouter
Status : Stopped
Name : ALG
Status : Stopped
      : AMD External Events Utility
Status : Running
      : AppIDSvc
Name
Status : Stopped
      : Appinfo
Name
Status : Running
     : AppMgmt
Status : Stopped
Name
      : AppReadiness
Status : Stopped
Name : AppVClient
Status : Stopped
```

```
Windows PowerShell
PS C:\> Get-Service | ft name, status
Name
                                            Status
AarSvc_702b9
                                           Stopped
AJRouter
                                           Stopped
ALG
                                           Stopped
AMD External Events Utility
                                           Running
AppIDSvc
                                           Stopped
Appinfo
                                           Running
AppMgmt
                                           Stopped
AppReadiness
                                           Stopped
AppVClient
                                           Stopped
AppXSvc
                                           Running
AssignedAccessManagerSvc
                                           Stopped
AudioEndpointBuilder
                                           Running
Audiosrv
                                           Running
autotimesvo
                                           Stopped
AxInstSV
                                           Stopped
BcastDVRUserService_702b9
                                           Stopped
BDESVC
                                           Stopped
                                           Running
                                           Running
                                           Running
BluetoothUserService_702b9
BrokerInfrastructure
                                           Running
BTAGService
                                           Running
BthAvctpSvc
                                           Running
bthserv
                                           Running
                                           Running
camsvc
CaptureService_702b9
                                           Running
```

# 8. Rendezze sorba név szerint (növekvő/csökkenő) az objektumokat!

```
Windows PowerShell
                                 Windows Error Reporting Service
Wi-Fi Direct Services Connection Ma...
Stopped
          WerSvc
Stopped
          WFDSConMgrSvc
                                 Still Image Acquisition Events
Microsoft Defender Antivirus Service
Stopped
          WiaRpc
          .
WinDefend
Running
                                 WinHTTP Web Proxy Auto-Discovery Se...
Windows Management Instrumentation
          WinHttpAutoProx...
Running
Running
Stopped
          WinRM
                                 Windows Remote Management (WS-Manag...
Stopped
          wisvc
                                 Windows Insider Service
Running
          WlanSvc
                                 WLAN AutoConfig
Running
                                 Microsoft Account Sign-in Assistant
Local Profile Assistant Service
          wlidsvc
Stopped
          wlpasvc
                                 Windows Management Service
WMI Performance Adapter
Stopped
          WManSvc
Stopped
          wmiApSrv
Stopped
          WMPNetworkSvc
                                 Windows Media Player Network Sharin...
Stopped
                                 Work Folders
          workfolderssvc
                                 Parental Controls
Stopped
          WpcMonSvc
          .
WPDBusEnum
                                 Portable Device Enumerator Service
Stopped
          WpnService
                                 Windows Push Notifications System S...
Running
Running
          WpnUserService_...
                                 Windows Push Notifications User Ser...
Running
          WSCSVC
                                 Security Center
Running
                                 Windows Search
          WSearch
                                 Windows Update
Stopped
          wuauserv
Stopped
          WwanSvc
                                 WWAN AutoConfig
                                 Xbox Live Auth Manager
Xbox Live Game Save
Xbox Accessory Management Service
          XblAuthManager
Stopped
          XblGameSave 
Stopped
Stopped
          XboxGipSvc
          XboxNetApiSvc
Stopped
                                 Xbox Live Networking Service
PS C:\>
```

9. Kérdezze le azokat a neveket melynek első két betűje wi!



# 10. Csoportosítsa állapot szerint az objektumokat!

```
Windows PowerShell
PS C:\> Get-Service | Sort-Object status
Status
                              DisplayName
         Name
                               Smart Card Device Enumeration Service
Stopped
         ScDeviceEnum
          SCardSvr
Stopped
Stopped
         RpcLocator
                               Remote Procedure Call (RPC) Locator
                              Secondary Logon
Windows Backup
Stopped
          seclogon
Stopped
         SDRSVC
         SCPolicySvc
Stopped
                              Smart Card Removal Policy
                              Retail Demo Service
         RetailDemo
Stopped
                              Quality Windows Audio Video Experience
Windows PushToInstall Service
Stopped
         OWAVE
         PushToInstall
Stopped
         PrintWorkflowUs... PrintWorkflow_702b9
Stopped
Stopped
         RemoteRegistry
                              Remote Registry
Routing and Remote Access
Stopped
         RemoteAccess
Stopped
                               Remote Access Auto Connection Manager
Stopped
          SNMPTRAP
                               SNMP Trap
                              Microsoft Windows SMS Router Service.
Microsoft Storage Spaces SMP
Stopped
         SmsRouter
Stopped
          smphost
Stopped
         ssh-agent
                              OpenSSH Authentication Agent
Stopped
         sppsvc
                              Software Protection
                              Windows Perception Service
Shared PC Account Manager
Stopped
         spectrum
Stopped
         shpamsvc
                               Sensor Service
Stopped
          SensorService
Stopped
          SensorDataService Sensor Data Service
                              Windows Defender Advanced Threat Pr...
Stopped
          Sense
Stopped
          SharedRealitySvc
                               Spatial Data Service
          SessionEnv
                               .
Remote Desktop Configuration
Stopped
Stopped SensrSvc
                              Sensor Monitoring Service
```

11. Számolja meg az objektumokat!

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

Count Name Group
-----
273 AarSvc_702b9 {AarSvc_702b9, AJRouter, ALG, AMD External Events Utility...}
```

12. Számolj meg az objektumok: max, min, avg, sum szerint!

```
Windows PowerShell X + V - U X

PS C:\Windows\System32> Get-Process | Measure-Object -Property id -Maximum -Minimum -Average -Sum

Count : 215
Average : 5953, 33953488372
Sum : 1279968
Maximum : 14260
Minimum : 0
Property : Id

PS C:\Windows\System32>
```

#### 13. Kérdezze le a Windows időt!

```
PS C:\> Get-Date -format "yyyy,HH:mm" 2022,13:03
```

14. Hozzon létre egy szöveg változót, melynek értéke: Miskolc

```
PS C:\> $szoveg = "Miskolc"
```

15. Végezze el a következő műveleteket:

```
PS C:\> $szoveg.length
7
PS C:\> $szoveg.ToUpper()
MISKOLC
PS C:\> $szoveg.Replace("kolc", "ka")
Miska
PS C:\> $szoveg.Split("s")
Mi
kolc
PS C:\>
```

## 16. Fájlkezelés