Jegyzőkönyv Operációs rendszerek

4. gyakorlat

Version -----5.1.19041.1320

1. Kérdezze le a PowerShellVerzió!

PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228> date

28 February 2022 17:32:34

2. Kérdezze le a mai dátumot?

```
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228> Get-Service
```

```
Status
                                                        Name
                                                                                                                                                                               DisplayName
                                                   AarSvc_13d0cc8
AdobeARMservice
AGMService
AGMService
AGSService
AJRouter
AJJOyn Router Service
AJJOyn Router Service
Application Layer Gateway Service
Application Information
AppReadiness
AppXSvc
Application Information
AppReadiness
AppXSvc
Application Information
App Readiness
AppXSvc
Application Information
App Readiness
AppXSvc
AudioEndpointBu
Windows Audio Endpoint Builder
Audiosrv
Audiosrv
Audiosrv
AvinstSV
ActiveX Installer (AxInstSV)
BcastDVRUserSer
BESVC
BitLocker Drive Encryption Service
BFE
BIS
Background Intelligent Transfer Ser
BrokerInfrastru
BrakGService
BthvctpSvc
Bluetooth Audio Gateway Service
Buetooth Support Service
Bluetooth Support Service
Bluetooth Support Service
Bluetooth Support Service
 Stopped AarSvc_13d0cc8
Running AdobeARMservice
Running AGMService
 Running
Running
  Running
Stopped
Stopped
   Stopped
  Running
Stopped
   Stopped
  Running
Running
Stopped
  Stopped
Stopped
Stopped
  Running
  Running
Stopped
 Running
Stopped
Running
Stopped
                                                  BrokerInfrastru... Background Tasks Infrastructure Ser...
BTAGService Bluetooth Audio Gateway Service
BthAvctpSvc AVCTP service
bthserv Bluetooth Support Service
camsvc CaptureService_13d0cc8
cbdhsvc_13d0cc8 CaptureService_13d0cc8
CDPSvc CaptureService_13d0cc8
CDPSvc Connected Devices Platform Service
CPUSerSvc_13d0cc8 Csatlakoztatott eszközök platformja...
CertPropSvc Certificate Propagation
ClipSVC Client License Service (ClipSVC)
COMSysApp COM+ System Application
ConsentUXUserSv... ConsentUX_13d0cc8
CoreMessagingRe... CoreMessaging
cphs Intel(R) Content Protection HECI Se...
cplspcon CredentialEnrol. CredentialEnrollmentManagerUserSvc_...
CryptSvc Cryptographic Services
DcomLaunch defragsvc Optimise drives
DeviceAssociati... DeviceAssociation Service
DeviceInstall Device Install Service
DeviceFickerUse... DeviceAssociation Service
DeviceFickerUse... DevicePicker_13d0cc8
DeviceSFlowUser... DeviceFlow_13d0cc8
DevQueryBroker Dhcp DHCP Client
diagnosticshub... Microsoft (R) Diagnostics Hub Stand...
Diagnostic Execution Service
  Running
Stopped
  Running
 Running
Running
Stopped
   Stopped
  Stopped
Stopped
  Running
Stopped
  Running
Stopped
Running
  Running
Stopped
Stopped
  Running
Stopped
    Stopped
   Stopped
  Stopped
Running
Stopped
                                                    Dhcp DHCP Client
diagnosticshub... Microsoft (R) Diagnostics Hub Stand...
diagsvc Diagnostic Execution Service
DiagTrack Connected User Experiences and Tele...
DispBrokerDeskt... Display Policy Service
DisplayEnhancem... Display Enhancement Service
DmEnrollmentSvc Device Management Enrollment Service
dmwappushservice Device Management Wireless Applicat...
DNS Client
DoSvc Delivery Optimization
Wired AutoConfig
DPS Diagnostic Policy Service
Intel(R) Driver & Support Assistant
DSAUIndateService
  Stopped
Running
  Running
  Running
Stopped
   Stopped
  Running
  Running
Stopped
   Running
   Running
```

3. Kérdezze le a szolgáltatásokat?

4. Kérdezze le a C:\ meghajtó lévő könyvtárakat ill. fájlokat? Directory: C:\ LastWriteTime Length Na Mode 02/08/2021 20/02/2022 30/01/2022 22/03/2021 07/12/2019 23/02/2022 20/02/2022 20/07/2021 16/03/2021 22/03/2021 13/02/2022 18:49 Fr G/ In Li Pr Pr SV Us 13:16 17:02 14:15 10:14 20:25 d---d-r---13:08 20:51 16:27 d---d-r---14:05 00:14 PS C:\> PS C:\> >> Get-Alias CommandType Version Source % -> ForEach-Object ? -> Where-Object ac -> Add-Content asnp -> Add-PSSnapin cat -> Get-Content cd -> Set-Location CFS -> ConvertFrom-String chdir -> Set-Location clc -> Clear-Host clear -> Clear-Host cly -> Clear-Host clv -> Clear-Host copy -> Copy-Item cp -> Forbable-PSBreakpoint del -> Remove-Item diff -> Compare-Object dir -> Get-ChildItem dnsn -> Disconnect-PSSession ebp -> Enable-PSBreakpoint echo -> Write-Output epal -> Export-Alias epcsv -> Export-Csv epsn -> Export-Csv epsn -> Export-PSSession erase -> Remove-Item etsn -> Enter-PSSession fc -> Format-List foreach -> Format-Hex fl -> Format-Hex fl -> Format-Hist foreach -> Format-Hop etsn -> Format-Wide gal -> Get-Alias gbp -> Get-PSDrive gbp -> Get-Content gcb -> Get-Content gcb -> Get-Content gcb -> Get-ComputerInfo gib -> Get-ComputerInfo gib -> Get-Item gin -> Get-ComputerInfo gib -> Get-Item gin -> Get-ComputerInfo gib -> Get-Item gin -> Get-Item gin -> Get-Item gm -> Get-It Allias 3.1.0.0 Microsoft.PowerShell.Utility 5. Kérdezze a parancsok rövidített neveit? (alias) 3.1.0.0 Microsoft.PowerShell.Utility 3.1.0.0 Microsoft.PowerShell.Management 3.1.0.0 Microsoft.PowerShell.Management

PS C:\> Get-ChildItem

```
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228> Set-Alias -Name processz
cmdlet Set-Alias at command pipeline position 1
Supply values for the following parameters:
Value: process
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228> processz
                                                                                                                                                                                                                    6. Készítsen egy "processz" nevű
                                                                                                                                                                                                                    Alias, majd futtassa és kérdezze
Handles NPM(K)
                                                    PM(K)
                                                                                   WS(K)
                                                                                                                CPU(s)
                                                                                                                                               Id SI ProcessName
                                                                                                                                                            0 AGMService
0 AGSService
2 ApplicationFrameHost
0 armsvc
           365
228
335
136
                                                        5156
                                                                                    14420
                                                                                                                                          3208
                                                                                11328
27688
5536
241180
45780
7480
                                    13
20
                                                        3176
8504
                                                                                                                                      3200
8720
3152
2256
2388
2392
2836
6600
7692
8180
8428
9124
10440
10468
                                                                                                                     0.19
                                                1264
159932
16872
1984
77724
7888
                                                                                                                  56.19
0.23
0.05
8.86
0.27
5.28
13.92
0.13
0.92
0.47
0.77
0.20
10.73
3.27
1.41
0.86
        2396
                                                                                                                                                             2 chrome
           354
211
                                    128652
18020
37276
145228
15988
54552
48484
48272
51260
42576
152272
77292
56588
57884
                                                 15268
119940
6800
          645
179
232
234
231
                                                     20664
18512
19632
                                                                                                                                      10476
10540
10548
           267
226
236
                                                     17160
                                                 116104
                                                     43452
23356
21204
                                                                                                                                      10596
10688
10820
           241
           242
250
                                                                                                                      1.03
1.77
0.31
0.28
                                                                                    48052
54752
47768
                                                                                                                                      10888
10896
10960
                                                     20520
27620
18696
                                                                                                                                       11024
                                                                                    93584
                                                                                                                                                                                                                    st.exe -k Local ServiceNetworkRestricted -p

st.exe -k Local ServiceNetworkRestricted -p

st.exe -k exercs -p

st.exe -k AppReadines -p

st.exe -k AppReadines -p

st.exe -k Local SystemRetworkRestricted -p

st.exe -k Local SystemRetworkRestricted -p

st.exe -k Local ServiceNetworkRestricted -p
                                                       AllJoyn Router Service
Application Layer Gateway Service
Application Identity
Application Information
Ann Readiness
                                                                       ment Service (AppXSVC)
io Endpoint Builder
                                                               is Audio
ar Time
X Installer (AxInstSV)
ker Drive Encryption Service
Filtering Engine
ound Intelligent Transfer Service
ound Tasks Infrastructure Service
ound Audio Gateway Service

 Listázza ki az adott meghajtón lévő szolgálatásokat -

                                                                   vice
Support Service
y Access Manager Service
| Devices Platform Service
                                                                                                                                formázott lista/tábla?
                                                                        rropagation
se Service (ClipSVC)
Application
       sApp
essagingRegistrar
                                                                     nng
ontent Protection HECI Service
ontent Protection HDCP Service
                                                                           ervices
cess Launcher
                                                                        of Experiences and Telemetry
y Service
y Service
sensent Service
sent Ernollenet Service
ment Wireless Application Protocol (WAP) Push message Routing Service
ment Wireless Application Protocol (WAP) Push message Routing Servi
PS G:\EGYETEM\2021-22-2\OS\HZS05VOsGyak> Get-ChildItem | Sort-Object
          Directory: G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak
                                                                                                                                                                            8. Rendezze sorba név szerint
                                                                                                                                                                            (növekvő/csökkenő) az objektumokat!
Mode
                                                           LastWriteTime
                                                                                                                        Length Name
                                      08/02/2022
21/02/2022
24/02/2022
28/02/2022
08/02/2022
                                                                                18:21
16:58
21:08
17:24
17:00
                                                                                                                                            HZS05V_02(
HZS05V_0214
HZS05V_0221
HZS05V_0228
 d----
                                                                                                                                    55 README.md
PS G:\EGYETEM\2021-22-2\05\HZS05V0sGyak> Get-Wmi0bject win32_service | select Name, DisplayName | Where-Object Name
                                            DisplayName
  inDefend Still Image Acquisition Events
inDefend Microsoft Defender Antivirus Service
inHttpAutoProxySvc WinHTTP Web Proxy Auto-Discovery Service
inRM Windows Management Instrumentation
inRM Windows Remote Management (WS-Management)
isvc Windows Insider Service
                                                                                                                                                          9. Kérdezze le azokat a neveket melynek
                                                                                                                                                          első két betűje wi!
 S G:\EGYETEM\2021-22-2\OS\HZ505V0sGyak> Get-Wmi0bject win32_service | select Name, DisplayName, State, PathName | Group-Object state
                                                                                                                                                                                               10. Csoportosítsa állapot szerint az
                                          {@{Name=AdobeARMservice; DisplayName=Adobe Acrobat Update Service; State=Running; PathName="C:\Program Fi
{@{Name=AJRouter; DisplayName=AllJoyn Router Service; State=Stopped; PathName=C:\Windows\system32\sychost
                                                                                                                                                                                               objektumokat!
PS G:\EGYETEM\2021-22-2\OS\HZSO5VOsGyak> (Get-Service).Count
275
```

11. Számolja meg az objektumokat!

```
PS G:\EGYETEM\2021-22-2\0S\HZ505V0sGyak> 2,1,3 | Measure-Object -Maximum -Average -Sum -Minimum
 Count : 3
Average : 2
Sum : 6
Maximum : 3
Minimum : 1
                                                                                                                                                                                 12. Számolj meg az objektumok: max, min,
Average
Sum
                                                                                                                                                                                 avg, sum szerint!
  roperty
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak> get-date
                                                                                                                                                                                      13. Kérdezze le a Windows időt!
05 March 2022 22:18:38
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak> Set-Variable -Name "szoveg" -Value
                                                                                                                                                                                                                                                                                                        14. Hozzon létre egy
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak> $szoveg.Length
                                                                                                                                                                                                                                                                                                        szoveg nevű változót,
 ,
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak> $szoveg.ToUpper()
MISKOLC
                                                                                                                                                                                                                                                                                                        melynek értéke: Miskolc
MISKULC
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak> $szoveg.Replace('l', 'g')
Miskogc
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak> $szoveg.Contains('mi')
False
PS G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak> $szoveg.Split("o")
                                                                                                                                                                                                                                          15. Végezze el a következő műveleteket
                                                                                                                                                                                                                                          ((length, ToUpper, Replace, Contains,
                                                                                                                                                                                                                                          Split) a $szoveg változó értékeivel
   -
S G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228> Get-Content .\hzs05v.txt
rs d: \text{\text{\text{Content}} \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\t
  ines Words Characters Property
 PS G:\EGYETEM\2021-22-2\0S\HZ505V0sGyak\HZ505V_0228> Get-Item -Path .\hzs05v.txt -Stream *
 PSPath : Microsoft.PowerShell.Core\FileSystem::G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228\hzs05v.txt::$DATA
PSParentPath : Microsoft.PowerShell.Core\FileSystem::G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228
PSDrive : G
PSProvider : Microsoft.PowerShell.Core\FileSystem
PSIsContainer : False
FileName : G:\EGYETEM\2021-22-2\0S\HZS05V0sGyak\HZS05V_0228\hzs05v.txt

Stream : :SDATA
Length : 14
```

16. Készítsen a C:\ meghajtóra egy neptunkod.txt fájl, melynek tartalma a teljes neve. Végezze el a következő feladatokat!