

2. Feladatok

Készítse el Windows OS a saját gépen az alábbi feladatokat.

Minden egyes lekérdezés eredményét illessze be egy dokumentumba, írja le a parancs

funkcióját (1-1 mondat) a kép alá és mentse el.

1. Kérdezze le a PowerShellVerzió!

2. Kérdezze le a mai dátumot?

3. Kérdezze le a szolgáltatásokat

```

Windows PowerShell (x64)

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\TEMP.IIT.005> $PSVersionTable

Name                           Value
-----
BuildVersion                    5.1.18362.1171
Edition                         Desktop
OSCompatibleVersions            {1.0, 2.0, 3.0, 4.0...}
Platform                       0x-0x0205-1171
Version                         4.0.36319.42000
BuildNumber                     3
BuildVersion                    5.1
CompatibleVersion               1.1
SerializationVersion            1.1.0.1

PS C:\Users\TEMP.IIT.005> Get-Date

2022. february 28., nde46 17:07:46

PS C:\Users\TEMP.IIT.005> Get-Service

Status Name                               DisplayName
-----
Stopped AamSvc.11143b                     Agent Activation Runtime.11143b
Running AdobeAcrobatService           Adobe Acrobat Update Service
Stopped AHostSvc                       All-Down Router Service
Stopped ALG                           Application Layer gateway Service
Stopped AppIDSvc                      Application Identity
Stopped AppInfo                      Application Information
Stopped AppMgr                        Application Management
Running AppReadiness                App Readiness
Stopped AppServClient                Microsoft AppV Client
Running AppSvc                      App Deployment Service (AppXSVC)
Stopped asnet_state                  ASF.NET State Service
Stopped AssignModCrash...            Assignmodcrashmanager Service
Running AudioEndpointBuilder...      Windows Audio Endpoint Builder
Running AudioSvc                    Windows Audio
Stopped autotimesvc                  Cellular Time
Stopped AutoStartV                  Active Installer (AutoStartV)
Stopped BcastVUserSvc...              Game DVR and Broadcast User Service...
Running BDRVC                       BitLocker Drive Encryption Service
Running BFE                         Base Filtering Engine
Running BITS                        Background Intelligent Transfer Ser...
Stopped BluetoothUserSvc...          Bluetooth User Support Service.11143b
Running BrokerInfrastructure...       Background Tasks Infrastructure Ser...
Running Browser                     Computer Browser
Stopped BTAuthService                Bluetooth Audio Gateway Service
Stopped EthactVPCV                  AVTP Service
Stopped Etherv                       Bluetooth Support Service
Running CamSvc                      Camellity Access Manager Service
Stopped CaptureService...            CaptureService.11143b
Running ChmSvc.11143b               Clipboard User Service.11143b
Running CDPSvc                      Connected Devices Platform Service
Running CDPSvc_11143b               Connected Devices Platform User Ser...
Running CertPropSvc                 Certificate Propagation
Running ClipSvc                     Client License Service (ClipSvc)
Stopped COMSysApp                   COM System Application
Stopped ConsentUserSvc...            ConsentUX.11143b
Running ConWesMsg@...               ConWesMsg@...
Stopped CredentialEnroll...          CredentialEnrollmentManagerUserSvc...
Running CryptSvc                   Cryptographic Services
Stopped CscService                  Offline Files
Running DcomLaunch                  DCOM Server Process Launcher
Stopped defragsvc                   Optimize drives
Stopped DeviceAssociati...           DeviceAssociationBroker.11143b
Stopped DeviceAssociati...          Device Association Service
Stopped DeviceInstall               Device Install Service

```

5. Kérdezze a parancsok rövidített neveit? (alias)

```

C:\Windows\Powershell\B00>
Stopped Solisemave Xbox Live Game Save
Stopped XnoidpSvc Xbox Accessory Management Service
Stopped XnoidNetSvc Xbox Live Networking Service

PS C:\Users\TEMP-III-000> Get-Childitem -Path C:\Users\TEMP-III-000 -Get-Alias
CommandType Name Version Source
-----
Alias b -> ForEach-Object
Alias W -> Where-Object
Alias ac -> Add-Content
Alias avsc -> Add-PSConfig
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 clb -> Clear-Mailbox
Alias chv -> Clear-Variable
Alias cms -> Connect-PSession
Alias comsare -> Compare-Object
Alias copy -> Copy-Item
Alias cp -> Copy-Item
Alias cpi -> Copy-Item
Alias csp -> Copy-ItemProperty
Alias curl -> Invoke-WebRequest
Alias cpath -> Convert-Path
Alias dmp -> Disable-PSBreakpoint
Alias del -> Remove-Item
Alias dir -> Get-Childitem
Alias dir -> Get-Childitem
Alias dms -> Disconnect-PSession
Alias emp -> Enable-PSBreakpoint
Alias echo -> Write-Output
Alias epal -> Export-Alias
Alias exch -> Export-Csv
Alias epsn -> Export-PSession
Alias erase -> Remove-Item
Alias etss -> Enter-PSession
Alias exss -> Exit-PSession
Alias fc -> Format-Custom 3.1.0.0 Microsoft.PowerShell.Utility
Alias fhx -> Format-Hex
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 ghv -> Get-History
Alias gi -> Get-Item 3.1.0.0 Microsoft.PowerShell.Management
Alias gin -> Get-ComputerInfo
Alias gip -> Get-Item
Alias gl -> Get-Location
Alias gm -> Get-Member
Alias gmo -> Get-Module
Alias gp -> Get-ItemProperty
Alias gsv -> Get-Process
Alias gv -> Get-ItemPropertyValue
Alias group -> Group-Object
Alias gsn -> Get-PSSession

```

6. Készítsen egy „processz” nevű Alias, majd futtassa és kérdezze le?!

```
Windows PowerShell (5.0)

Alias
rm -> Remove-Item
rmdir -> Remove-Item
rmo -> Remove-Module
rni -> Rename-Item
rnp -> Rename-ItemProperty
rp -> Remove-ItemProperty
rps -> Remove-PSSession
rsp -> Remove-PSSnapin
rsh -> Remove-Job
rv -> Remove-Variable
rvsa -> Resolve-Path
rwt -> Remove-WebObject
sajb -> Start-Job
sal -> Set-Alias
saps -> Start-Process
sasp -> Start-Service
shp -> Set-PSBreakpoint
sc -> Get-Content
scb -> Set-Clipboard
select -> Select-Object
set -> Set-Variable
shc -> Show-Command
sl -> Set-Item
sl -> Get-Location
sleep -> Start-Sleep
sls -> Select-String
sort -> Sort-Object
sp -> Set-ItemProperty
spsh -> Stop-Job
stop -> Stop-Process
ssps -> Stop-Service
start -> Start-Process
stz -> Set-TimeZone
susp -> Suspend-Job
sv -> Set-Variable
swml -> Set-WebInstance
tee -> Tee-Object
trac -> Trace-Command
type -> Get-Content
wget -> Invoke-WebRequest
where -> Where-Object
wjb -> Wait-Job
write -> Write-Output

PS C:\Users\TEMP\IT\005> New-Alias -Name processz -Value Get-Process
cmdlet New-Alias at command pipeline position 1
Supply values for the following parameters:
Value:
PS C:\Users\TEMP\IT\005> Get-Alias "processz"
Get-Alias : This command cannot find a matching alias because an alias with the name "processz" does not exist.
At line 1 char 1:
+ Get-Alias "processz"
+ ~~~~~
    + CategoryInfo          : (ObjectNotFound: (processz:String) [Get-Alias], ItemNotFoundException)
    + FullyQualifiedPathId : ItemNotFound,Microsoft.PowerShell.Commands.GetAliasCommand

PS C:\Users\TEMP\IT\005> New-Alias -Name processz -Value Get-Process
cmdlet New-Alias at command pipeline position 1
Supply values for the following parameters:
Value: 5
PS C:\Users\TEMP\IT\005> Get-Alias "processz"

CommandType Name Version Source
-----
Alias processz -> 5

PS C:\Users\TEMP\IT\005>
```

```
Windows PowerShell (5.0)

Supply values for the following parameters:
Value:
PS C:\Users\TEMP\IT\005> Get-Alias "processz"
Get-Alias : This command cannot find a matching alias because an alias with the name "processz" does not exist.
At line 1 char 1:
+ Get-Alias "processz"
+ ~~~~~
    + CategoryInfo          : (ObjectNotFound: (processz:String) [Get-Alias], ItemNotFoundException)
    + FullyQualifiedPathId : ItemNotFound,Microsoft.PowerShell.Commands.GetAliasCommand

PS C:\Users\TEMP\IT\005> New-Alias -Name processz -Value Get-Process
cmdlet New-Alias at command pipeline position 1
Supply values for the following parameters:
Value: 5
PS C:\Users\TEMP\IT\005> Get-Alias "processz"

CommandType Name Version Source
-----
Alias processz -> 5

PS C:\Users\TEMP\IT\005> Get-Alias "processz" Get-Process
Get-Alias : A positional parameter cannot be found that accepts argument 'Get-Process'.
At line 1 char 1:
+ Get-Alias "processz" Get-Process
+ ~~~~~
    + CategoryInfo          : (ObjectNotFound: (Get-Process:String) [Get-Alias], ItemNotFoundException)
    + FullyQualifiedPathId : ItemNotFound,Microsoft.PowerShell.Commands.GetAliasCommand

PS C:\Users\TEMP\IT\005> processz
processz : The term 'processz' is not recognized as the name of a cmdlet, function, script file, or executable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line 1 char 1:
+ processz
+ ~~~~~
    + CategoryInfo          : (ObjectNotFound: (String) [Get-Alias], ItemNotFoundException)
    + FullyQualifiedPathId : CommandNotFound

PS C:\Users\TEMP\IT\005> New-Alias -Name processz -Value Get-Process
New-Alias : The alias is not allowed, because an alias with the name "processz" already exists.
At line 1 char 1:
+ New-Alias "processz" Get-Process
+ ~~~~~
    + CategoryInfo          : (AccessDenied: (processz:String) [New-Alias], SessionStateException)
    + FullyQualifiedPathId : AccessDenied,Microsoft.PowerShell.Commands.NewAliasCommand

PS C:\Users\TEMP\IT\005> processz
processz : The term 'processz' is not recognized as the name of a cmdlet, function, script file, or executable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line 1 char 1:
+ processz
+ ~~~~~
    + CategoryInfo          : (ObjectNotFound: (String) [Get-Alias], ItemNotFoundException)
    + FullyQualifiedPathId : CommandNotFound

PS C:\Users\TEMP\IT\005> Get-Alias processz

CommandType Name Version Source
-----
Alias processz -> 5

PS C:\Users\TEMP\IT\005>
```

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

```
Windows PowerShell (x64)
PS C:\Users\TNP.IT\AppData\Local\Microsoft\Windows\CurrentVersion\Run...
PS C:\Users> cd ..
PS C:\> cd Windows
PS C:\Windows> cd system32
PS C:\Windows\system32> Get-Service | ft -format:table, status

Status : Stopped
Status : Running
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Running
Status : Running
Status : Stopped
Status : Stopped
Status : Stopped
Status : Running
Status : Running
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Running
Status : Running
Status : Running
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Stopped
Status : Running
Status : Running
Status : Running
Status : Running
```

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

```
Windows PowerShell (x64)
PS C:\Windows\system32> Get-Service | Sort-Object Name

Status Name DisplayName
-----
Stopped AesSvc 11143b Agent Activation Runtime 11143b
Running AdobeAcrat Adobe Acrobat Update Service
Stopped AHostSvc AllJoyn Router Service
Stopped ALG Application Layer Gateway Service
Stopped AppIDSvc Application Identity
Stopped AppInfo Application Information
Stopped AppMgmt Application Management
Stopped AppReadiness App Readiness
Stopped AppXClient Microsoft App-V Client
Stopped AppXSvc AppX Deployment Service (AppXSVC)
Stopped asmpnet_state ASP.NET State Service
Stopped AssignedAccessManager AssignedAccessManager Service
Running AudioEndpointBu... Windows Audio Endpoint Builder
Running Audiosrv Windows Audio
Stopped autotimesvc Cellular Time
Stopped ActiveXInst ActiveX Installer (ActiveXInstV)
Stopped BcastDVRUserSer... Gamelock and Broadcast User Service...
Stopped BDESVC BitLocker Drive Encryption Service
Running BFE Base Filtering Engine
Running BITS Background Intelligent Transfer Ser...
Stopped BluetoothMgmt Bluetooth User Support Service 11143b
Running BrokerInfrastructure Background Tasks Infrastructure Ser...
Running Bross Computer Browser
Stopped BTAGService Bluetooth Audio Gateway Service
Stopped BthAdvSvc Bluetooth service
Stopped BthHciSvc Bluetooth Support Service
Stopped camsvc Capability Access Manager Service
Stopped CaptureService 11143b CaptureService 11143b
Running cbpsvc 11143b Clipboard User Service 11143b
Running CDPUserSvc Connected Device Platform User Ser...
Running CDPUserSvc 11143b Connected Device Platform User Ser...
Running CertPropSvc Certificate Propagation
Stopped CllpSvc Client license Service (CllpSvc)
Running CmsApp COM System Application
Stopped ConsentUserSvc 11143b ConsentU 11143b
Running CoreMessaging CoreMessaging
Stopped CredentialMan... CredentialManagerUsersSvc...
Running CryptSvc Cryptographic Services
Stopped CtsService Offline Files
Running DCOMLaunch OCOM Server Process Launcher
Stopped defragsvc Defragmentation
Stopped DeviceAssociation... DeviceAssociationBroker 11143b
Stopped DeviceAssociation... Device Association Service
Stopped DeviceInstall Device Install Service
Stopped DeviceLocker... DeviceLocker 11143b
Stopped DeviceFlow... DeviceFlow 11143b
Stopped DevQueryBroker DevQuery Background Discovery Broker
Running Dmcp Client
Stopped diagnosticshub... Microsoft (R) Diagnostics Hub Stand...
Stopped diagmgr Diagnostic Execution Service
Running DiagTrac Connected User Experiences and Tele...
Running DisplayUserDesk... Display Policy Service
Stopped DisplayEnhancem... Display Enhancement Service
Stopped DeviceManagement... Device Management Enrollment Service
Stopped DeviceManagement... Device Management Wireless Applicat...
Running DnsCache DNS Client
Running Dmcc Delivery Optimization
Stopped Dmcc Wireless AutoConfig
Running DPS Diagnostic Policy Service
Stopped DsmSvc Device Setup Manager
Running Dsmc Data Sharing Service
Running Dsmc Data Usage
Stopped EapHost Extensible Authentication Protocol
Stopped EFS Encrypting File System (EFS)
```

Kérdezze le azokat a neveket melynek első két betűje wi!

```

C:\Windows\system32>
Running Update Orchestrator Service
Running Update Vdo Vdo
Running VaultSvc Credential Manager
Running vbs Virtual Disk
Running vmtoolsdinterface Hyper-V Guest Service Interface
Stopped vmtoolsd Heartbeat
Stopped vmtoolsdexchange Hyper-V Data Exchange Service
Stopped vmtoolsd Hyper-V Remote Desktop Virtualization...
Stopped vmtoolsd Hyper-V Time Synchronization Service
Stopped vmtoolsd Hyper-V PowerShell Direct Service
Stopped vmtoolsd Hyper-V Volume Shadow Copy Replicator
Stopped vmtoolsd Hyper-V Guest Shutdown Service
Stopped VSS Volume Shadow Copy
Stopped VSSStandardCollector Visual Studio Standard Collector Se...
Running w3time Windows Time
Stopped waaanmedicSvc Windows Update Medic Service
Stopped wailletService MailletService
Stopped warzillSvc WarzillSvc
Stopped wbackupengine Block Level Backup Engine Service
Stopped wblgSvc Windows BitLocker Service
Running wcmSvc Windows Connection Manager
Stopped wcrsdc Windows Connect Now - Config Registrar
Running wdiServiceHost Diagnostic Service Host
Running wdiSystemHost Diagnostic System Host
Running WNFIDISVC Windows Defender Antivirus Network ...
Stopped wnfclient Wnfclient
Stopped wscnt Windows Event Collector
Stopped WSPMDSVC Windows Error Reporting Provider Host Se...
Running wscntsupport Windows Reports and Solutions Center...
Stopped wercsvc Windows Error Reporting Service
Running WUDFConfigSvc WUDF Direct Services Connection Man...
Stopped wuapi Still Image Acquisition Events
Running WinDefend Windows Defender Antivirus Service
Running WinMgmt WinMgmt Web Proxy Auto-Discovery Se...
Stopped WinRM Windows Remote Management (WS-Manag...
Stopped wlsvc Windows Insider Service
Stopped wlanSvc WLAN AutoConfig
Stopped wlmSvc Microsoft Account Sign-In Assistant
Stopped wlmSvc Local Profile Assistant Service
Stopped wlmSvc Windows Management Service
Stopped wlmSvc WMI Performance Adapter
Stopped WMPNetworkSvc Windows Media Player Network Sharin...
Stopped wsfoldersvc Work Folders
Stopped WscntHost Parental Controls
Running WinRMHost Portable Device Enumerator Service
Running WnSvc Windows Push Notifications System S...
Running WnSvc Windows Push Notifications User Ser...
Running wscnt Security Center
Running Wscnt Windows Search
Stopped wscnt Windows Update
Stopped wscnt WMI AutoConfig
Stopped WnSvc Xbox Live Auth Manager
Stopped WnSvc Xbox Live Game Save
Stopped WnSvc Xbox Accessories Management Service
Stopped WnSvc Xbox Live Networking Service

C:\Windows\system32>
C:\Windows\system32>Get-Service | Where-Object { $_.Name -like '*wscnt*' }
Status Name DisplayName
-----
Stopped wscnt Still Image Acquisition Events
Running WinDefend Windows Defender Antivirus Service
Running WinMgmt WinMgmt Web Proxy Auto-Discovery Se...
Running WinRM Windows Remote Management (WS-Manag...
Stopped WinRM Windows Insider Service

```

10. Csoportosítsa állapot szerint az objektumokat!

[illegible]

11. Számolja meg az objektumokat!

```
PS C:\Windows\system32> Get-Service | Measure-Object
```

```
Count      : 277
Average    :
Sum        :
Maximum    :
Minimum    :
Property   :
```

```
PS C:\Windows\system32> Get-Process | Measure-Object -Property id -Maximum -Minimum -Average -Sum
```

```
Count      : 143
Average    : 4362,88111888112
Sum        : 623892
Maximum    : 10564
Minimum    : 0
Property   : Id
```