2. Windows Commands

CMD Commands

Navigation

- cd -> Shows the current directory or changes to the specified directory.
- dir -> Lists the contents of the directory.
- cd .. -> Moves up one level in the directory.
- tree -> Shows the directory structure as a tree.
- where archivo.txt -> Searches for files or directories in the PATH.

Directory Management

- mkdir nombre -> Creates a new directory.
- rmdir nombre -> Removes an empty directory.
- rmdir /s nombre -> Removes a directory and its contents.

File Management

- type archivo.txt -> Displays the contents of a file.
- copy origen destino -> Copies a file.
- move origen destino -> Moves or renames a file.
- del archivo.txt -> Deletes a file.
- echo texto > archivo.txt -> Creates a file with the specified text.
- ren archivo1 archivo2 -> Renames a file.

User Management

- net user -> Lists system users.
- net user nombre /add -> Adds a new user.
- net user nombre /delete -> Deletes a user.
- net user nombre contraseña -> Changes a user's password.

Group Management

- net localgroup -> Lists local groups.
- net localgroup grupo /add -> Creates a new group.
- net localgroup grupo /delete -> Deletes a group.

- **net localgroup grupo usuario /add** -> Adds a user to a group.
- **net localgroup grupo usuario /delete** -> Removes a user from a group.

Network Management

- **ipconfig** -> Displays network configuration.
- **ipconfig /all** -> Displays detailed network information.
- **ping ip/url** -> Verifies connectivity with a host.
- **tracert ip/url** -> Shows the route that packets take to reach a destination.
- **netstat** -> Displays active network connections.
- **arp -a** -> Displays the ARP table.

Process Management

- **tasklist** -> Displays running processes.
- **taskkill /PID número /F** -> Terminates a process by its ID.
- **taskkill /IM nombre.exe /F** -> Terminates a process by its name.

System Information

- **systeminfo** -> Displays detailed system information.
- **hostname** -> Displays the computer name.
- **echo %username%** -> Displays the current user.
- **ver** -> Displays the operating system version.

Additional Commands

- **cls** -> Clears the console screen.
- **shutdown /s /t 0** -> Shuts down the system.
- **shutdown /r /t 0** -> Restarts the system.
- **echo %errorlevel%** -> Displays the exit code of the last command.
- **assoc** -> Displays file associations.
- **fc archivo1 archivo2** -> Compares the contents of two files.
- **find "texto" archivo.txt** -> Searches for text within a file.

PowerShell Commands

Navigation

- **Get-Location** -> Shows the current directory.
- **Set-Location** -> Changes to the specified directory.

- **Get-ChildItem** -> Lists the contents of the directory.
- **Resolve-Path archivo.txt** -> Shows the absolute path of a file.

Directory Management

- **New-Item -ItemType Directory -Path nombre** -> Creates a new directory.
- **Remove-Item nombre** -> Removes a directory.
- **Remove-Item -Recurse nombre** -> Removes a directory and its contents.

File Management

- **Get-Content archivo.txt** -> Displays the contents of a file.
- **Copy-Item origen destino** -> Copies a file.
- **Move-Item origen destino** -> Moves or renames a file.
- **Remove-Item archivo.txt** -> Deletes a file.
- **Set-Content archivo.txt "texto"** -> Creates a file with the specified text.
- **Rename-Item archivo1 archivo2** -> Renames a file.

User Management

- **Get-LocalUser** -> Lists system users.
- **New-LocalUser -Name "nombre" -Password (ConvertTo-SecureString "contraseña" -AsPlainText -Force)** -> Adds a new user.
- **Remove-LocalUser -Name "nombre"** -> Deletes a user.
- **Set-LocalUser -Name "nombre" -Password (ConvertTo-SecureString "contraseña" -AsPlainText -Force)** -> Changes a user's password.

Group Management

- **Get-LocalGroup** -> Lists local groups.
- **New-LocalGroup -Name "grupo"** -> Creates a new group.
- **Remove-LocalGroup -Name "grupo"** -> Deletes a group.
- **Add-LocalGroupMember -Group "grupo" -Member "usuario"** -> Adds a user to a group.
- **Remove-LocalGroupMember -Group "grupo" -Member "usuario"** -> Removes a user from a group.

Network Management

- **Get-NetIPAddress** -> Displays network configuration.
- **Test-Connection ip/url** -> Verifies connectivity with a host.
- **Test-NetConnection ip/url** -> Displays connectivity information.

- **Get-NetTCPConnection** -> Displays active TCP connections.
- **Get-NetNeighbor** -> Displays the ARP table.

Process Management

- **Get-Process** -> Displays running processes.
- **Stop-Process -Id número** -> Terminates a process by its ID.
- **Stop-Process -Name "nombre"** -> Terminates a process by its name.

System Information

- **Get-ComputerInfo** -> Displays detailed system information.
- **$env:COMPUTERNAME** -> Displays the computer name.
- **$env:USERNAME** -> Displays the current user.
- **[System.Environment]::OSVersion** -> Displays the operating system version.

Additional Commands

- **Clear-Host** -> Clears the console screen.
- **Stop-Computer** -> Shuts down the system.
- **Restart-Computer** -> Restarts the system.
- **$LASTEXITCODE** -> Displays the exit code of the last command.
- **Get-Command** -> Displays available commands.
- **Select-String -Path archivo.txt -Pattern "texto"** -> Searches for text within a file.