



# POWERSHELL

## File and Directory Management

- Get-ChildItem** Lists files and directories in a path.
- Copy-Item** Copies files and directories.
- Move-Item** Moves files and directories.
- Remove-Item** Deletes files and directories.
- New-Item** Creates new files or directories.
- Rename-Item** Renames files and directories.
- Test-Path** Checks if a path exists.
- Set-Content** Writes content to a file.
- Get-Content** Reads content from a file.
- Get-ItemProperty** Retrieves file or directory properties.

## System Administration

- Get-Service** Lists system services.
- Start-Service** Starts a service.
- Stop-Service** Stops a service.
- Restart-Service** Restarts a service.
- Set-Service** Modifies service properties.
- Get-Process** Lists running processes.
- Stop-Process** Terminates a process.
- Get-EventLog** Retrieves event log entries.
- New-EventLog** Creates a new event log.
- Clear-EventLog** Clears event log entries.

## Persona Management

- Get-LocalUser** Lists local users.
- New-LocalUser** Creates a new local user.
- Remove-LocalUser** Removes a local user.
- Add-LocalGroupMember** Adds a user to a local group.
- Get-LocalGroupMember** Lists members of a local group.
- New-LocalGroup** Creates a new local group.
- Remove-LocalGroup** Removes a local group.
- Get-ADUser** Retrieves AD user information.
- New-ADUser** Creates a new AD user.
- Get-ADGroup** Lists Active Directory groups.

## Active Directory

- Get-ADComputer** Lists AD computers.
- New-ADComputer** Creates a new AD computer.
- Remove-ADComputer** Removes an AD computer.
- Enable-ADAccount** Enables an AD account.
- Disable-ADAccount** Disables an AD account.

## Environment and Variables

- Get-Variable** Lists variables.
- Set-Variable** Sets variable values.
- Remove-Variable** Removes variables.
- \$env** Accesses environment variables.
- Clear-Host** Clears the console.
- Clear-Variable** Clears variable values.

## Data Management

- Import-Csv** Imports data from a CSV file.
- Export-Csv** Exports data to a CSV file.

## Network and Connectivity

- Test-Connection** Tests network connectivity.
- Test-NetConnection** Tests connectivity to a specific port.
- Get-NetAdapter** Lists network adapters.
- New-NetIPAddress** Sets a new IP address.
- Remove-NetIPAddress** Removes an IP address.
- Add-Printer** Adds a printer.
- Remove-Printer** Removes a printer.
- Test-WSMan** Tests WS-Management connectivity.
- Invoke-RestMethod** Sends HTTP requests.

## Automation

- New-ScheduledTaskTrigger** Creates a scheduled task trigger.
- Register-ScheduledTask** Registers a new scheduled task.
- Start-ScheduledTask** Starts a scheduled task.
- Stop-ScheduledTask** Stops a scheduled task.
- Get-ScheduledTask** Lists scheduled tasks.
- Unregister-ScheduledTask** Removes a scheduled task.
- New-ScheduledTaskAction** Creates a scheduled task action.
- Enable-ScheduledTask** Enables a scheduled task.
- Disable-ScheduledTask** Disables a scheduled task.

## Security and Permissions

- Get-Acl** Retrieves ACL of a file or directory.
- Set-Acl** Sets the Access Control List.
- Get-NTFSAccess** Retrieves NTFS permissions.
- Grant-NTFSAccess** Grants NTFS permissions.
- Revoke-NTFSAccess** Revokes NTFS permissions.
- Get-ADPermission** Retrieves AD permissions.
- Set-ADPermission** Sets AD permissions.
- Get-EffectiveAccess** Checks effective permissions.

## Registry Configurations

- Get-Item** Retrieves registry keys and values.
- Set-Item** Sets registry keys and values.
- New-ItemProperty** Creates a new registry property.
- Get-ItemProperty** Retrieves registry properties.
- Get-ItemPropertyValue** Retrieves a registry property value.
- Set-ExecutionPolicy** Sets the script execution policy.
- Get-ExecutionPolicy** Retrieves the script execution policy.
- Get-WinEvent** Retrieves Windows event log data.
- Set-ItemProperty** Modifies registry properties.

## Scripting and Functions

- New-Module** Creates a new module.
- Import-Module** Imports a module.
- Remove-Module** Removes a module.
- New-ScriptBlock** Creates a script block.
- Invoke-Expression** Invokes a string as a command.
- Get-Command** Retrieves available commands.
- Get-Help** Provides help for cmdlets.
- Get-Module** Lists loaded modules.
- Measure-Command** Measures execution time of a script.

## Miscellaneous

- Read-Host** Reads input from the user.
- Write-Host** Writes output to the console.
- Out-File** Sends output to a file.
- Out-Null** Discards output.
- ConvertTo-Json** Converts objects to JSON format.
- ConvertFrom-Json** Converts JSON to objects.
- Test-Path** Checks if a path exists.
- Invoke-Command** Run commands remotely.