

Windows PowerShell

a

Get-Ad Get permission settings for a file or registry key
Set-Ad Set permissions
Get-Alias gal Return alias names for Cmdlets
Import-Alias ipal Import an alias list from a file
New-Alias nal Create a new alias.
Set-Alias sal Create or change an alias
Get-AuthenticodeSignature Get the signature object associated with a file
Set-AuthenticodeSignature Place a signature in a .ps1 script or other file

c

Set-Location cd/chdir/sl Set the current working location
Get-ChildItem dir/ls/gci Get child items (contents of a folder or registry key)
Get-Command gcm Retrieve basic information about a command
Measure-Command Measure running time
Trace-Command Trace an expression or command
Add-Content ac Add to the content of the item
Get-Content cat/type/gc Get content from item (specific location)
Set-Content sc Set content in the item (specific location)
Clear-Content clc Remove content from a file/item
ConvertTo-Html Convert the input into an HTML table
ConvertFrom-SecureString Convert a secure string into an encrypted standard string
ConvertTo-SecureString Convert an encrypted standard string into a secure string
Clear-Host clear/ds Clear the screen
Clear-Item di Remove content from a variable or an alias
Copy-Item copy/cp/cpi Copy an item from a namespace location
Get-Credential Get a security credential (username/password)
Get-Culture Get region information (language and keyboard layout)

d

Get-ChildItem dir/ls/gci Get child items (contents of a folder or registry key)
Get-Date Get current date and time
Set-Date Set system time on the host system
Remove-Item del/erase/rm/rmdir Remove an item
Do Loop while a condition is True
Get-PSDrive gdr Get drive information (DriveInfo)
New-PSDrive mount/ndr Install a new drive on the machine
Remove-PSDrive rdr Remove a provider/drive from its location

e

Get-Eventlog Get eventlog data
Get-ExecutionPolicy Get the execution policy for the shell
Set-ExecutionPolicy Change the execution policy (user preference)
Export-Alias epal Export an alias list to a file
Export-Clixml Produce a clixml representation of powershell objects
Export-Console Export console configuration to a file
Export-Csv epscv Export to Comma Separated Values (spreadsheet)
Invoke-Expression Run a PowerShell expression
Exit Exit Powershell (or exit a script)

f

ForEach-Object foreach Loop for each object in the pipeline
ForEach Loop through values in the pipeline
For Loop through items that match a condition
Format-Custom fc Format output using a customized view

Format-List fi Format output as a list of properties, each on a new line
Format-Table ft Format output as a table
Format-Wide fw Format output as a table listing one property only

g

Get-Item gi Get a file/registry object (or any other namespace object)
Get-ChildItem dir/ls/gci Get child items (contents of a folder or registry key)

h

Get-Help help Open the help file
Add-History Add entries to the session history
Get-History history/h/ghy Get a listing of the session history
Invoke-History r/hy Invoke a previously executed Cmdlet
Get-Host Get host information
Clear-Host clear/cds Clear the screen
Read-Host Read a line of input from the host console
Write-Host Display objects through the host user interface

i

if Conditionally perform a command
Import-Clixml Import a clixml file and rebuild the PS object
Import-Csv ipcsv Take values from a CSV list and send objects down the pipeline.
Get-Item gi Get a file object or get a registry (or other namespace) object
Invoke-Item ii Invoke an executable or open a file (START)
New-Item ni Create a new item in a namespace
Remove-Item rm/del/erase/rd/ri/rmdir Remove an item
Set-Item si Change the value of an item
Clear-ItemProperty Delete the value of a property
Copy-ItemProperty Copy a property along with its value
Get-ItemProperty Retrieve the properties of an object
Move-ItemProperty Move a property from one location to another
New-ItemProperty Set a new property of an item at a location
Remove-ItemProperty Delete the property and its value from an item
Rename-ItemProperty Rename a property of an item
Set-ItemProperty Set the value of a property

k

Stop-Process kill/spps Stop a running process

l

Get-Location pwd/gl Get and display the current location
Pop-Location popd Set the current working location from the stack
Push-Location pushd Push a location to the stack
Set-Location cd/chdir/sl Set the current working location

m

Add-Member Add a member to an instance of a PowerShell object
Get-Member gm Enumerate the properties of an object
Move-Item move/mv/mi Move an item from one location to another

o

Compare-Object Compare the properties of objects
Group-Object group Group the objects that contain the same value for a common property
Measure-Object Measure the properties of an object
New-Object Create a new .Net object
Select-Object select Select properties of objects
Sort-Object sort Sort objects by property value
Where-Object Filter the objects passed along the command pipeline.
Out-Default Send output to default
Out-File Send command output to a file
Out-Host oh Send the pipelined output to the host
Out-Null Send output to null

Out-Printer lp Send the output to a printer
Out-String Send objects to the host as strings

p

Powershell Launch a powershell session
Convert-Path cvpa Convert a ps path to a provider path
Join-Path Combine a path and child-path
Resolve-Path rpa Resolves the wildcards in a path
Split-Path Return part of a path
Test-Path Return true if the path exists, otherwise return false
Get-Pfxcertificate Get pfx certificate information
Pop-Location popd Set the current working location from the stack
Push-Location pushd Push a location to the stack
Get-Process ps/gps Get a list of processes on a machine
Stop-Process kill/spps Stop a running process
Clear-ItemProperty cdp Remove the property value from a property
Copy-ItemProperty cpp Copy a property along with it's value
Get-ItemProperty gp Retrieve the properties of an object
Move-ItemProperty mp Move a property from one location to another
New-ItemProperty Set a new property
Remove-ItemProperty rp Remove a property and its value
Rename-ItemProperty mp Renames a property at its location
Set-ItemProperty sp Set a property at the specified location to a specified value
Get-PsProvider Get information for the specified provider
Set-PSdebug Turn script debugging on or off
Add-PsSnapIn Add snap-ins to the console
Get-PsSnapin List PowerShell snap-ins on this computer
Remove-PSSnapin Remove PowerShell snap-ins from the console

q

Quest AD cmdlets Read and write to Active Directory

r

Read-Host Read a line of input from the host console
Remove-Item rm/del/erase/rd/ri/rmdir Remove an item
Rename-Item ren/mi Change the name of an existing item
Rename-ItemProperty Rename a property of an item
Run/Call & Run a command (call operator)

s

Select-Object select Select properties of objects
Get-Service gsv Get a list of services
New-Service Create a new service
Restart-Service Stop and then restart a service
Resume-Service Resume a suspended service
Set-Service Change the start mode/properties of a service
Sort-Object sort Sort objects by property value
Start-Service sasv Start a stopped service
Stop-Service spsv Stop a running service
Suspend-Service Suspend a running service
Start-Sleep sleep Suspend shell, script, or runspace activity
Switch Multiple if statements
Select-String Search through strings or files for patterns

t

Tee-Object Send input objects to two places
New-Timespan Create a timespan object
Trace-Command Trace an expression or command
Get-Tracesource Get components that are instrumented for tracing.
Set-Tracesource Trace a PowerShell component

Start-Transcript Start a transcript of a command shell session
Stop-Transcript Stop the transcription process

U

Get-Uiculture Get the ui culture information
Get-Unique gu Get the unique items in a collection
Update-Formatdata Update and append format data files
Update-Typedata Update the current extended type configuration

V

Clear-Variable clv Remove the value from a variable
Get-Variable gv Get a powershell variable
New-Variable nv Create a new variable
Remove-Variable rv Remove a variable and its value
Set-Variable set/sv Set a variable and a value

W

Where-Object where Filter input from the pipeline
While Loop while a condition is True
Get-WMIobject gwmi Get WMI class information
Write-Debug Write a debug message to the host display
Write-Error Write an object to the error pipeline.
Write-Output echo Write an object to the pipeline
Write-Progress Display a progress bar
Write-Verbose Write a string to the host's verbose display
Write-Warning Write a warning message
Comment/Remark
\$variable = "value" Define a variable also: \${varlab#e} = "value"
@(..) Force an expression to be evaluated as a List