

# An A-Z Index of Windows PowerShell commands

%		Alias for <code>ForEach-Object</code>
?		Alias for <code>Where-Object</code>
a		
Get-Acl		Get permission settings for a file or register.
Set-Acl		Set permissions.
Active Directory		Account, Computer, Group and User cmdlets.
Get-Alias	gal	Return alias names for Cmdlets.
Export-Alias	epal	Export currently defined aliases to a file.
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-AppvClientPackage		Return App-V Client Packages.
Get-AppXPackage		List the app packages installed in a user pro
Remove-AppxPackage		Remove an app package from a user account.
Add-AppxProvisionedPackage		
Compress-Archive		Create a new archive/zipped file. [PS 5+]
Expand-Archive		Extract files from an archive (zipped) file [
Get-AuthenticodeSignature		Get the signature object associated with a fi
Set-AuthenticodeSignature		Place a signature in a .psl script or other f
b		
Backup-GPO		Backup group policy objects. (GPOS)
Begin		Function BEGIN block.
BITS		Background Intelligent Transfer Service cmdle
Enable-BitLocker		Enable encryption for a BitLocker volume.
Enable-BitLockerAutoUnlock		Enable automatic unlocking for a BitLocker vo
Resume-BitLocker		Resume Bitlocker encryption for the specified
Suspend-BitLocker		Suspend Bitlocker encryption for the specificie
Add-BitLockerKeyProtector		Add a key protector for a BitLocker volume
Remove-BitLockerKeyProtector		Remove a key protector from a BitLocker vo
Get-BitLockerVolume		Get information about volumes BitLocker can p
Break		Exit a program loop.
c		
Catch		Handle a terminating error within a scriptblo
Export-Certificate		Export a certificate from a certificate store
Get-Certificate		Submit/retrieve a certificate request to an e
Import-Certificate		Import one or more certificates into a certif
Set-Location	cd/chdir/sl	Set the current working location.
Get-ChildItem	dir/ls/gci	Get child items (contents of a folder or regi
Clear-Host	clear/cls	Clear the screen.
Clear-Item	cli	Remove content from a variable or an alias.
Get-CimAssociatedInstance		Retrieve CIM instance by an association.
Get-CimClass	gcls	Get a list of CIM classes in a specific names
Register-CimIndicationEvent		Subscribe to indications using a filter or qu
New-CimInstance	ncim	Create a new instance of a class.
Get-CimInstance	gcim	Get a managed resource (storage, network, sof
Remove-CimInstance	rcim	Remove a CIM instance from a computer.
Set-CimInstance	scim	Modify a CIM instance on a CIM server.
Invoke-CimMethod	icim	Invoke a method of a CIM class or CIM instanc
Get-CimSession	gcms	Get current CIM session objects.
New-CimSession	ncms	Create a CIM session.
New-CimSessionOption		Advanced options for New-CimSession.
Remove-CimSession	rcms	Remove one or more CIM session objects.
Get-Clipboard		Get the current Windows clipboard entry.
Set-Clipboard		Set the current Windows clipboard entry.
Get-Command	gcm	Retrieve basic information about a command.
Invoke-Command	icm	Run command.
Show-Command	shcm	Create PowerShell commands in a graphical com

Measure-Command		Measure running time.
Trace-Command		Trace an expression or command.
Add-Computer		Add a computer to the domain.
Checkpoint-Computer		Create a system restore point (XP)
Remove-Computer		Remove the local computer from a workgroup or
Rename-Computer		Rename a computer.
Restart-Computer		Restart the operating system on a computer.
Restore-Computer		Restore the computer to a previous state.
Stop-Computer		Stop (shut down) a computer.
Get-ComputerInfo		Get system and operating system properties.
Reset-ComputerMachinePassword		Reset the machine account password for the co
Test-ComputerSecureChannel		Test and repair the secure channel to the dom
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.
Continue		Skip just this iteration of a loop.
Enable-ComputerRestore		Enable System Restore on a drive.
Disable-ComputerRestore		Disable System Restore on a drive.
Get-ComputerRestorePoint		Get the restore points on the local computer.
Test-Connection		Ping one or more computers.
ConvertFrom-Csv		Convert object properties (in CSV format) int
ConvertTo-Csv		Convert .NET Framework objects into CSV varia
ConvertFrom-Json		Convert a JSON-formatted string to a custom o
ConvertTo-Json		Convert an object to a JSON-formatted string.
ConvertTo-Html		Convert the input into an HTML table.
ConvertTo-Xml		Convert the input into XML.
ConvertFrom-String	cfs	Extract and parse structured properties from
ConvertFrom-StringData		Convert a string containing key and value pai
ConvertFrom-SecureString		Convert a secure string into an encrypted sta
ConvertTo-SecureString		Convert an encrypted standard string into a s
Copy-Item	copy/cp/ci	Copy an item from a namespace location.
Export-Counter		Export Performance Counter data to log files.
Get-Counter		Get performance counter data.
Import-Counter		Import performance counter log files.
Get-Credential		Get a security credential (username/password)
Get-Culture		Get region information (language and keyboard
Set-Culture		Set the user culture for the current user acc
d		
Get-ChildItem	Dir/ls/gci	Get child items (contents of a folder or regi
Get-Date		Get current date and time.
Set-Date		Set system time on the host system.
Clear-Disk		Remove all partition information and un-initi
Get-Disk		Get one or more disks visible to the OS.
Set-Disk		Set attributes and update a physical disk.
Initialize-Disk		Initialize a RAW disk for first use, this ena
Mount-DiskImage		Mount a previously created disk image (virtua
Remove-Item	Del/erase/rd/rm/rmdir	Delete an item.
Compare-Object	diff/compare	Compare the properties of objects.
Get-DnsClientCache		Retrieve the content of the local DNS client
Clear-DnsClientCache		Clear the content of the DNS client cache.
Get-DnsClientServerAddress		Get a DNS server IP address from the interfa
Set-DnsClientServerAddress		Set a DNS server IP address on the interface
Resolve-DnsName		Perform a DNS name query resolution for a spe
Do		Loop while a condition is True.
Get-DscConfiguration		Get the current config. of a node.
Get-DscLocalConfigurationManager		Get Local Config Manager settings.
Get-DscResource		Get Desired State Config. resources from a co
New-DSCChecksum		Create checksum files for DSC docs/resources.

	<b>Start-DscConfiguration</b>		Apply Desired State config to nodes.	
e	<b>Write-Output</b> <b>End</b> <b>Get-Event</b> <b>New-Event</b> <b>Remove-Event</b> <b>Unregister-Event</b> <b>Wait-Event</b> <b>Clear-EventLog</b> <b>Get-Eventlog</b> <b>Limit-EventLog</b> <b>New-Eventlog</b> <b>Remove-EventLog</b> <b>Show-EventLog</b> <b>Write-EventLog</b> <b>Get-WinEvent</b> <b>Get-EventSubscriber</b> <b>Register-EngineEvent</b> <b>Register-ObjectEvent</b> <b>Register-WmiEvent</b> <b>Get-ExecutionPolicy</b> <b>Set-ExecutionPolicy</b> <b>Export-Alias</b> <b>Export-Clixml</b> <b>Export-Console</b> <b>Export-Csv</b> <b>Exit-PSSession</b>	<b>echo</b> <b>Function END block.</b> Get events in the PowerShell event queue. Create a new event. Delete events from the event queue. Cancel an event subscription. Wait until a particular event is raised. Delete all entries from an event log. Get event log data (2003). Limit the size of the event log. Create a new event log and a new event source Delete an event log. Display an event log. Write an event to an event log. Get event log data (Vista+). Get event subscribers. Subscribe to PowerShell events. Subscribe to .NET events. Subscribe to a WMI event. Get the execution policy for the shell. Change the execution policy (user preference)	Write an object to the pipeline. Function END block. Get events in the PowerShell event queue. Create a new event. Delete events from the event queue. Cancel an event subscription. Wait until a particular event is raised. Delete all entries from an event log. Get event log data (2003). Limit the size of the event log. Create a new event log and a new event source Delete an event log. Display an event log. Write an event to an event log. Get event log data (Vista+). Get event subscribers. Subscribe to PowerShell events. Subscribe to .NET events. Subscribe to a WMI event. Get the execution policy for the shell. Change the execution policy (user preference)	
f	<b>-F operator</b> <b>Unblock-File</b> <b>Get-FileHash</b> <b>ForEach-Object</b> <b>ForEach</b> <b>ForEach method</b> <b>For</b> <b>Format-Custom</b> <b>Format-Hex</b> <b>Format-List</b> <b>Format-Table</b> <b>Format-Wide</b> <b>Export-FormatData</b> <b>Get-FormatData</b>	<b>epal</b> <b>epcsv</b> <b>Exit</b>	<b>Format operator.</b> Unblock files downloaded from the Internet. Compute the hash value for a file. <b>foreach</b> Loop through each item in the pipeline ( % ). Loop through each item in a collection. Loop through each item in a collection. Loop through items that match a condition. <b>fc</b> <b>fhx</b> <b>fl</b> <b>ft</b> <b>fw</b> <b>fc</b> <b>fhx</b> <b>fl</b> <b>ft</b> <b>fw</b> <b>gi</b> <b>dir/ls/gci</b> <b>group</b>	Format operator. Unblock files downloaded from the Internet. Compute the hash value for a file. Loop through each item in the pipeline ( % ). Loop through each item in a collection. Loop through each item in a collection. Loop through items that match a condition. Format output using a customized view. Display a file or other input as hexadecimal. Format output as a list of properties, each o Format output as a table. Format output as a table listing one property Save formatting data from the current session Get the formatting data in the current sessio Get a file/registry object (or any other name Get child items (contents of a folder or regi Backup group policy objects (GPOs). Restore one or all GPOs from a GPO backup. Import Group Policy settings into a specified Group objects that contain the same value. Create a GUID.
g	<b>Get-Item</b> <b>Get-ChildItem</b> <b>Backup-GPO</b> <b>Restore-GPO</b> <b>Import-GPO</b> <b>Group-Object</b> <b>New-Guid</b>			
h	<b>Get-Help</b> <b>Update-Help</b> <b>Add-History</b> <b>Clear-History</b> <b>Get-History</b> <b>Invoke-History</b> <b>Get-Host</b>	<b>help</b> <b>clhy</b> <b>history/h/ghy</b> <b>r/ihy</b>	Open the help file. Download and install the newest help files on Add entries to the session history. Delete entries from the session history. Get a listing of the session history. Invoke a previously executed Cmdlet. Get host information (PowerShell Version and	

	<b>Clear-Host</b>	clear/cls	Clear the screen.
	<b>Out-Host</b>	oh	Send output to the host.
	<b>Read-Host</b>		Read a line of input from the host console.
	<b>Write-Host</b>		Write customized output to the host/screen.
	<b>Get-HotFix</b>		Get Installed hotfixes.
i	<b>if</b>		Conditionally perform a command.
	<b>Invoke-CimMethod</b>	icim	Invoke a method of a CIM class or CIM instance.
	<b>Import-Clixml</b>		Import a clixml file and rebuild the PS object.
	<b>Import-Csv</b>	ipcsv	Take values from a CSV list and send objects.
	<b>Import-PfxCertificate</b>		Import certificates and keys from a Personal Certificate store.
	<b>Write-Information</b>		Specify how PowerShell should handle informational messages.
	<b>Get-InitiatorPort</b>		Get one or more host bus adapter (HBA) initiator ports.
	<b>Install-Module</b>		Download and install one or more modules from a gallery.
	<b>Install-Package</b>		Install one or more software packages.
	<b>Invoke-Command</b>		Run commands on local and remote computers.
	<b>Invoke-Expression</b>	iex	Run a PowerShell expression.
	<b>Invoke-WebRequest</b>		Get content from a web page.
	<b>Invoke-RestMethod</b>		Send an HTTP or HTTPS request to a RESTful web service.
	<b>Get-Item</b>	gi	Get a file object or get a registry (or other) key.
	<b>Invoke-Item</b>	ii	Invoke an executable or open a file (START).
	<b>New-Item</b>	md/mkdir/ni	Create a new item in a namespace.
	<b>Remove-Item</b>	rm/del/erase/rd/ri/rmdir	Remove an item.
	<b>Set-Item</b>	si	Change the value of an item.
	<b>Clear-ItemProperty</b>	clp	Remove the property value from a property.
	<b>Copy-ItemProperty</b>	cpp	Copy a property along with its value.
	<b>Get-ItemProperty</b>	gp	Retrieve the properties of an object.
	<b>Move-ItemProperty</b>	mp	Move a property from one location to another.
	<b>New-ItemProperty</b>		Set a new property.
	<b>Remove-ItemProperty</b>	rp	Remove a property and its value.
	<b>Rename-ItemProperty</b>	rnp	Renames a property at its location.
	<b>Set-ItemProperty</b>	sp	Set a property at the specified location to a new value.
	<b>Get-ItemPropertyValue</b>	gpv	Get the value for one or more properties of an item.
j	<b>Get-Job</b>	gjb	Get PowerShell background jobs that are running.
	<b>Receive-Job</b>	rcjb	Get PowerShell background job results.
	<b>Remove-Job</b>	rjb	Delete a PowerShell background job.
	<b>Resume-Job</b>	rujb	Restart a suspended job.
	<b>Start-Job</b>	sajb	Start a PowerShell background job.
	<b>Stop-Job</b>	spjb	Stop a PowerShell background job.
	<b>Wait-Job</b>	wjb	Wait for a background job.
	<b>Job Trigger cmdlets</b>		Get/Set Scheduled job triggers.
k	<b>Stop-Process</b>	kill/spps	Stop a running process.
	<b>Add-KdsRootKey</b>		Generate a new root key for the MS Group Key Store.
l	<b>Update-List</b>		Add and remove items from a collection.
	<b>New-LocalUser</b>		Create a local user account.
	<b>Get-LocalGroup</b>		Get the local security groups.
	<b>Add-LocalGroupMember</b>		Add members to a local group.
	<b>Get-LocalGroupMember</b>		Get members from a local group.
	<b>Set-LocalUser</b>		Modify a local user account.
	<b>Get-Location</b>	pwd / gl	Get and display the current location.
	<b>Pop-Location</b>	popd	Set the current working location from the stack.
	<b>Push-Location</b>	pushd	Push a location to the stack.
	<b>Set-Location</b>	cd/chdir/sl	Set the current working location.
m	<b>Send-MailMessage</b>		Send an email message.
	<b>Add-Member</b>		Add a member to an instance of a PowerShell object.

	<code>Get-Member</code>	gm	Enumerate the properties of an object.
	<code>MessageBox</code>		Display a message box to the user.
	<code>Find-Module</code>		Find modules from an online gallery.
	<code>Get-Module</code>	gmo	Get the modules imported to the session.
	<code>Import-Module</code>	ipmo	Add a module to the session.
	<code>New-Module</code>	nmo	Create a new dynamic module (only in memory).
	<code>Remove-Module</code>	rmo	Remove a module from the current session.
	<code>Save-Module</code>		Save a module locally without installing it.
	<code>Get-InstalledModule</code>		Get installed modules on a computer.
	<code>Uninstall-Module</code>		Uninstall a module.
	<code>Update-Module</code>		
	<code>Export-ModuleMember</code>		Export specific module members.
	<code>Move-Item</code>	mv/move/mi	Move an item from one location to another.
	<code>Set-MpPreference</code>		Configure preferences for Windows Defender.
n			
	<code>Get-NetAdapter</code>		Get the basic network adapter properties.
	<code>Set-NetAdapter</code>		Set the basic network adapter properties.
	<code>Disable-NetAdapterBinding</code>		Disable a binding to a network adapter.
	<code>Get-NetAdapterVmq</code>		Get the VMQ properties of a network adapter.
	<code>Set-NetAdapterVmq</code>		Set the VMQ properties of a network adapter.
	<code>Test-NetConnection</code>		Display diagnostic information for a connection.
	<code>Get-NetConnectionProfile</code>		Get a connection profile.
	<code>Set-NetConnectionProfile</code>		Set a connection profile.
	<code>Set-NetFirewallProfile</code>		Configure per-profile settings of Windows Firewall.
	<code>Enable-NetFirewallRule</code>		Enable a previously disabled firewall rule.
	<code>Set-NetFirewallRule</code>		Modify existing firewall rules.
	<code>Get-NetFirewallRule</code>		Retrieve firewall rules from the target computer.
	<code>New-NetFirewallRule</code>		Create a new firewall rule and add to a target.
	<code>Get-NetIPAddress</code>		Get the IP address configuration.
	<code>New-NetIPAddress</code>		Create and configure an IP address.
	<code>Remove-NetIPAddress</code>		Remove an IP address and its configuration.
	<code>Set-NetIPAddress</code>		Modify the configuration of an IP address.
	<code>Get-NetIPConfiguration</code>		Get IP network configuration.
	<code>Get-NetIPInterface</code>		Get an IP interface.
	<code>Set-NetIPInterface</code>		Modify an IP interface.
	<code>New-NetLbfoTeam</code>		Create a new NIC team.
	<code>New-NetNat</code>		Create a NAT object.
	<code>New-NetRoute</code>		Create a route in the IP routing table.
	<code>Get-NetTCPConnection</code>		Get TCP connections.
	<code>Set-NetTCPConnection</code>		Set TCP connections.
o			
	<code>Compare-Object</code>	diff/compare	Compare the properties of objects.
	<code>Group-Object</code>	group	Group objects that contain the same value.
	<code>Measure-Object</code>		Measure the properties of an object.
	<code>New-Object</code>		Create a new .Net object.
	<code>Select-Object</code>	select	Select properties of objects.
	<code>Sort-Object</code>	sort	Sort objects by property value.
	<code>Where-Object</code>		Filter the objects passed along the command pipeline.
	<code>Add-OdbcDsn</code>		Add an ODBC DSN.
	<code>Out-Default</code>		Set the destination of default output.
	<code>Out-File</code>		Send output to a file.
	<code>Out-GridView</code>	ogv	Send output to an interactive table.
	<code>Out-Host</code>	oh	Send output to the host.
	<code>Out-Null</code>		Send output to null.
	<code>Out-Printer</code>	lp	Send the output to a printer.
	<code>Out-String</code>		Send objects to the host as strings.
p			
	<code>Get-Package</code>		Return a list of all software packages installed.
	<code>Find-Package</code>		Find software packages in available package sources.

Uninstall-Package		Uninstall one or more software packages.
Install-PackageProvider		Install one or more Package Management packag
Param		Script Parameters.
Get-Partition		Return a list of partition objects.
New-Partition		Create a new partition on an existing Disk ob
Resize-Partition		Resize a partition and the underlying file sy
Set-Partition		Set attributes of a partition: active, read-o
Convert-Path	cvpa	Convert a ps path to a provider path.
Join-Path		Combine a path and one or more child-paths.
Resolve-Path	rvpa	Resolves the wildcards in a path.
Split-Path		Return part of a path.
Test-Path		Return true if the path exists, otherwise ret
Pause		Pause and display the message "Press Enter to
Invoke-Pester		Invoke Pester to recursively run all tests.
Export-PfxCertificate		Export a certificate or a PFXData object to a
Get-PfxCertificate		Get pfx certificate information.
Get-PhysicalDisk		Retrieve a list of Physical Disk objects.
Remove-PhysicalDisk		Remove a physical disk from a specified stora
Set-PhysicalDisk		Set attributes on a specific physical disk.
Get-PnpDevice		Return information about PnP devices.
Pop-Location	popd	Set the current working location from the sta
Push-Location	pushd	Push a location to the stack.
Powershell		Launch a PowerShell session/run a script.
Add-Printer		Add a printer to the specified computer.
Get-Printer		Retrieve a list of printers installed on a co
Remove-Printer		Remove a printer from the specified computer.
Set-Printer		Update the configuration of an existing print
Add-PrinterDriver		Install a printer driver on the computer.
Add-PrinterPort		Install a printer port on the computer.
Process		Function PROCESS block.
Get-Process	ps/gps	Get a list of processes on a machine.
Debug-Process		Attach a debugger to a running process.
Start-Process	start/saps	Start one or more processes.
Stop-Process	kill/spps	Stop a running process.
Wait-Process		Wait for a process to stop.
Enable-PSBreakpoint	ebp	Enable a breakpoint in the current console.
Disable-PSBreakpoint	dbp	Disable a breakpoint in the current console.
Get-PSBreakpoint	gbp	Get the currently set breakpoints.
Set-PSBreakpoint	spb	Set a breakpoint on a line, command, or varia
Remove-PSBreakpoint	rbp	Delete breakpoints from the current console.
Get-PSCallStack	gcs	Display the current call stack.
Get-PSDrive	gdr	Get drive information (DriveInfo).
New-PSDrive	mount/ndr	Create a mapped network drive (W7).
Remove-PSDrive	rdr	Remove a provider/drive from its location.
Get-PSPServiceProvider		Get information for the specified provider.
Set-PSdebug		Turn script debugging on or off.
Disable-PSRemoting		Disable remote session configuration on the l
Enable-PSRemoting		Run PowerShell commands on remote computers.
Get-PSRepository		Get PowerShell repositories.
Register-PSRepository		Register a PowerShell repository.
Set-PSRepository		Set values for a registered repository.
Connect-PSSession	cnsn	Reconnect to a disconnected session.
Disconnect-PSSession	dnsn	Disconnect from a session.
Enter-PSSession	etsn	Start an interactive session with a remote co
Exit-PSSession	exsn	End an interactive session with a remote comp
Export-PSSession	epsn	Import commands and save them in a PowerShell
Get-PSSession	gsn	Get the PSSessions in the current session.
Import-PSSession	ipsn	Import commands from another session.
New-PSSession	nsn	Create a persistent connection to a local or

<code>Remove-PSSession</code>	<code>rsn</code>	<code>Close</code>	PowerShell sessions.
<code>Disable-PSSessionConfiguration</code>			Disable session configurations on the local computer.
<code>Enable-PSSessionConfiguration</code>			Enable session configurations on the local computer.
<code>Get-PSSessionConfiguration</code>			Get the registered PS session configuration.
<code>Register-PSSessionConfiguration</code>			Create and register a new PS session configuration.
<code>Set-PSSessionConfiguration</code>			Change properties of a registered session configuration.
<code>Unregister-PSSessionConfiguration</code>			Delete registered PS session configuration.
<code>New-PSSessionConfigurationFile</code>			Create a file that defines a session configuration.
<code>New-PSSessionOption</code>			Advanced options for a PSSession.
<code>Add-PsSnapIn</code>	<code>asnp</code>		Add snap-ins to the console.
<code>Get-PsSnapin</code>	<code>gsnp</code>		List PowerShell snap-ins on this computer.
<code>Remove-PSSnapin</code>	<code>rsnp</code>		Remove PowerShell snap-ins from the console.
<hr/>			
<code>r</code>			
<code>Get-Random</code>			Get a random number.
<code>Read-Host</code>			Read a line of input from the host console.
<code>Remove-Item</code>	<code>rm/del/erase</code>	<code>rd/ri/rmdir</code>	Remove an item.
<code>Rename-Item</code>		<code>ren/rni</code>	Change the name of an existing item.
<code>Rename-ItemProperty</code>			Rename a property of an item.
<code>Return</code>			Exit the current scope, (function, script, or script block).
<code>Run/Call</code>		<code>&amp;</code>	Run a command (call operator).
<hr/>			
<code>s</code>			
<code>Scheduler cmdlets</code>			Get/Set scheduled jobs.
<code>Update-Script</code>			Update a script.
<code>Confirm-SecureBootUEFI</code>			Confirm that Secure Boot is enabled on the local computer.
<code>Select-Object</code>	<code>select</code>		Select properties of objects.
<code>Select-XML</code>			Find text in an XML string or document.
<code>New-SelfSignedCertificate</code>			Create a new self-signed certificate for testing.
<code>Send-MailMessage</code>			Send an email message.
<code>    Get-Service</code>	<code>gsv</code>		Get a list of services.
<code>    New-Service</code>			Create a new service.
<code>Restart-Service</code>			Stop and then restart a service.
<code>Resume-Service</code>			Resume a suspended service.
<code>    Set-Service</code>			Change the start mode/properties of a service.
<code>Start-Service</code>	<code>sasv</code>		Start a stopped service.
<code>    Stop-Service</code>	<code>spsv</code>		Stop a running service.
<code>Suspend-Service</code>			Suspend a running service.
<code>Sort-Object</code>	<code>sort</code>		Sort objects by property value.
<code>    Get-SmbConnection</code>			Retrieve the connections established from the local computer.
<code>    Get-SmbOpenFile</code>			Information about files that are open on behalf of the local computer.
<code>    Get-SMBMapping</code>			Get an SMB mapping.
<code>    New-SmbMapping</code>			Create an SMB mapping.
<code>Remove-SmbMapping</code>			Remove an SMB mapping.
<code>    Get-SmbSession</code>			Retrieve information about current SMB sessions.
<code>Set-SmbClientConfiguration</code>			Set the SMB client configuration.
<code>Get-SmbServerConfiguration</code>			Get the SMB Server configuration.
<code>Set-SmbServerConfiguration</code>			Set the SMB Server configuration.
<code>    Get-SmbShare</code>			Retrieve the SMB shares on the computer.
<code>    Set-SmbShare</code>			Modify the properties of an SMB share.
<code>    New-SmbShare</code>			Create an SMB share.
<code>    Get-SmbShareAccess</code>			Retrieve the ACL of an SMB share.
<code>Grant-SmbShareAccess</code>			Add an allow ACE for a trustee to the security descriptor.
<code>Set-StrictMode</code>	<code>Get-StartApps</code>		Enforce coding rules in expressions & scripts.
<code>Export-StartLayout</code>			Get the names and IDs of apps installed on the local computer.
<code>Import-StartLayout</code>			Import the layout of the Start screen as an .xml file.
<code>Start-Sleep</code>	<code>sleep</code>		Suspend shell, script, or runspace activity.
<code>Get-StorageJob</code>			Information about long-running Storage module jobs.
<code>New-StoragePool</code>			Create a new storage pool using a group of physical drives.
<code>Switch</code>			Check multiple conditions.

	<code>ConvertFrom-StringData</code>	Convert a here-string into a hash table.
	<code>Select-String</code>	Search through strings or files for patterns.
t	<code>Tee-Object</code>	tee Send input objects to two places.
	<code>New-Timespan</code>	Create a timespan object.
	<code>Set-TimeZone</code>	Set the system time zone to a specified time
	<code>Get-TlsCipherSuite</code>	Get the list of cipher suites for TLS for a c
	<code>Get-Tpm</code>	Trusted Platform Module (TPM)
	<code>Trace-Command</code>	Trace an expression or command.
	<code>Get-Tracesource</code>	Get components that are instrumented for trac
	<code>Set-Tracesource</code>	Trace a PowerShell component.
	<code>Start-Transaction</code>	Start a new transaction.
	<code>Complete-Transaction</code>	Commit the transaction.
	<code>Get-Transaction</code>	Get information about the active transaction.
	<code>Use-Transaction</code>	Add a command or expression to the transactio
	<code>Undo-Transaction</code>	Roll back a transaction.
	<code>Start-Transcript</code>	Start a transcript of a command shell session
	<code>Stop-Transcript</code>	Stop the transcription process.
	<code>Trap</code>	Handle a terminating error.
	<code>Try ... Catch</code>	Handle a terminating error within a scriptblo
	<code>Add-Type</code>	Add a .NET Framework type to a PowerShell ses
	<code>Update-TypeData</code>	Update extended type configuration.
u	<code>Get-Uiculture</code>	Get the ui culture information.
	<code>Unblock-File</code>	Unblock files downloaded from the Internet.
	<code>Get-Unique</code>	gu Get the unique items in a collection.
	<code>Update-Formatdata</code>	Update and append format data files.
	<code>Update-Help</code>	Download and install help files.
	<code>Update-Typedata</code>	Update the current extended type configuratio
v	<code>Clear-Variable</code>	clv Remove the value from a variable.
	<code>Get-Variable</code>	gv Get a PowerShell variable.
	<code>New-Variable</code>	nv Create a new variable.
	<code>Remove-Variable</code>	rv Remove a variable and its value.
	<code>Set-Variable</code>	set/sv Set a variable and a value.
	<code>Get-VirtualDisk</code>	Return a list of VirtualDisks across storage
	<code>New-VirtualDisk</code>	Create a new virtual disk in the specified st
	<code>Get-Volume</code>	Get the specified Volume object, or all Volum
	<code>Format-Volume</code>	Format one or more volumes.
	<code>New-Volume</code>	Create a volume with the specified file syste
	<code>Optimize-Volume</code>	Optimize a volume.
	<code>Repair-Volume</code>	Perform repairs on a volume.
	<code>Add-VpnConnection</code>	Add a VPN connection to the Connection Manage
	<code>Get-VpnConnection</code>	Retrieve the specified VPN connection profile
	<code>Set-VpnConnection</code>	Change the config. of a VPN connection profil
	<code>Add-VpnConnectionRoute</code>	Add a route to a VPN connection.
w	<code>Checkpoint-WebApplicationMonitoring</code>	Create a checkpoint for an IIS web app.
	<code>Get-WebApplicationMonitoringStatus</code>	Get the monitoring status of web apps.
	<code>New-WebServiceProxy</code>	Create a Web service proxy object.
	<code>Invoke-WebRequest</code>	Get content from a web page.
	<code>Where-Object</code>	where/? Filter input from the pipeline.
	<code>Where method</code>	Filter objects from a collection.
	<code>While</code>	Loop while a condition is True.
	<code>Add-WindowsCapability</code>	Install a Windows capability package on the s
	<code>Get-WindowsCapability</code>	Get capabilities for an image or a running OS
	<code>Remove-WindowsCapability</code>	Uninstall a Windows capability package from a
	<code>Export-WindowsDriver</code>	
	<code>Add-WindowsFeature</code>	Install roles, role services, and features. (

<code>Get-WindowsFeature</code>	Retrieve roles, role services, and features.
<code>Install-WindowsFeature</code>	Install roles, role services, or features (Se
<code>Uninstall-WindowsFeature</code>	Uninstall/remove roles, role services, and fe
<code>Mount-WindowsImage</code>	Mount a Windows image (WIM or VHD file) to a
<code>Repair-WindowsImage</code>	Repair a Windows image in a WIM or VHD file.
<code>Disable-WindowsOptionalFeature</code>	Disable a feature in a Windows image.
<code>Enable-WindowsOptionalFeature</code>	Enable a feature in a Windows image.
<code>Get-WindowsOptionalFeature</code>	Get information about optional features in a
<code>Add-WindowsPackage</code>	Add a single .cab or .msu file to a Windows i
<code>Get-WindowsUpdateLog</code>	Merge Windows Update .etl files into a single
<code>Set-WinSystemLocale</code>	Set the system locale for the current compute
<code>Set-WinUserLanguageList</code>	Set the language list/properties for the curr
<code>Write-Debug</code>	Write a debug message to the console (5).
<code>Write-Error</code>	Write an object to the error pipeline (2).
<code>Write-Host</code>	Display text on screen.
<code>Write-Information</code>	Write to the information data stream (6).
<code>Write-Output <i>write/echo</i></code>	Write an object to the pipeline (1).
<code>Write-Progress</code>	Display a progress bar.
<code>Write-Verbose</code>	Write a string to the host's verbose display
<code>Write-Warning</code>	Write a warning string (3) in <b>reverse video</b>
<code>Set-WmiInstance</code>	Create or update an instance of an existing W
<code>Invoke-WmiMethod <i>iwmi</i></code>	Call WMI methods.
<code>Get-WmiObject <i>gwmi</i></code>	Get WMI class information.
<code>Remove-WmiObject <i>rwmi</i></code>	Delete an instance of a WMI class.
<code>Connect-WSMan</code>	Connect to the WinRM service on a remote comp
<code>Disconnect-WSMan</code>	Disconnect from the WinRM service on a remote
<code>Test-WSMan</code>	Test if a computer is setup to receive remote
<code>Invoke-WSManAction</code>	Invoke an action on a specified object.
<code>Disable-WSManCredSSP</code>	Disable Credential Security Service Provider
<code>Enable-WSManCredSSP</code>	Enable Credential SSP authentication.
<code>Get-WSManCredSSP</code>	Get the Credential SSP configuration.
<code>New-WSManInstance</code>	Create a new instance of a management resourc
<code>Get-WSManInstance</code>	Display management information (XML or value)
<code>Set-WSManInstance</code>	Modify the management information related to
<code>Remove-WSManInstance</code>	Delete a management resource instance.
<code>Set-WSManQuickConfig</code>	Configure the local computer for remote manag
<code>New-WSManSessionOption</code>	Options for WSMAN commands.
 z	
<code>Zipfile</code>	Compress or Extract zip files.
<code>#</code>	Comment / Remark.
<code>. (source)</code>	Run a command script in the current shell.
<code>&amp; (call)</code>	Run a command, script or function.
<code>%</code>	Alias for <code>ForEach-Object</code> .
<code>--%</code>	Stop parsing input.
<code>?</code>	Alias for <code>Where-Object</code> .
<code>\$variable = "value"</code>	Define a variable also: \${!a#me} = "value".
<code>\$_</code>	The current <code>pipeline</code> object.
<code>@(...)</code>	Force an expression to be evaluated as an arr
<code>`</code>	Escape or Continue on the next line.

The cmdlets above are listed in A-Z order, matching the *Verb-* and/or *-Noun* and/or *Alias* of the cmdlet (so some duplicates).

PowerShell can also run all the standard **CMD commands** (external commands), .cmd batch files will run within a CMD.exe shell (so can include *internal* CMD commands), plus all Resource Kit utilities. **VBScripts** can be run via `cscript`. [ [Examples](#) ]

Microsoft: PowerShell 5.1 cmdlets, 2.0/3.0 core cmdlets, Windows 2008 R2 cmdlets... more optional cmdlets.

