## An A-Z Index of the Windows CMD command line

```
ADDUSERS Add or list users to/from a CSV file
  ADmodcmd Active Directory Bulk Modify
  ARP
           Address Resolution Protocol
  ASSOC
           Change file extension associations.
  ATTRIB
           Change file attributes
  BCDBOOT Create or repair a system partition
  BCDEDIT Manage Boot Configuration Data
  BITSADMIN Background Intelligent Transfer Service
  BROWSTAT Get domain, browser and PDC info
  CACLS
           Change file permissions
  CALL
           Call one batch program from another.
  CERTREQ Request certificate from a certification authority
  CERTUTIL Utility for certification authority (CA) files and services
           Change Directory - move to a specific Folder.
  CHANGE
           Change Terminal Server Session properties
  CHCP
           Change the active console Code Page
           Check Disk - check and repair disk problems
  CHKDSK
  CHKNTFS Check the NTFS file system
  CHOICE
          Accept keyboard input to a batch file
  CIPHER Encrypt or Decrypt files/folders
  CleanMgr Automated cleanup of Temp files, recycle bin
  CLIP
           Copy STDIN to the Windows clipboard
  CLS
           Clear the screen•
  CMD
           Start a new CMD shell
  CMDKEY Manage stored usernames/passwords
  COLOR
           Change colors of the CMD window•
           Compare the contents of two files or sets of files
  COMPACT Compress files or folders on an NTFS partition
  COMPRESS Compress one or more files
  CONVERT Convert a FAT drive to NTFS
           Copy one or more files to another location.
  Coreinfo Show the mapping between logical & physical processors
  CSCcmd
           Client-side caching (Offline Files)
           Import or Export Active Directory data
  CSVDE
d
           Display or set the date.
           Defragment hard drive
  DEFRAG
           Delete one or more files.
  DELPROF Delete user profiles
  DELTREE Delete a folder and all subfolders
  DevCon Device Manager Command Line Utility
           Display a list of files and folders •
  DTR
  DIRQUOTA File Server Resource Manager Disk quotas
  DIRUSE
          Display disk usage
  DISKPART Disk Administration
  DISKSHADOW Volume Shadow Copy Service
  DISKUSE Show the space used in folders
  DNSCMD
           Manage DNS servers
           Edit command line, recall commands, and create macros
  DOSKEY
  DriverQuery Display installed device drivers
  DSACLs
           Active Directory ACLs
  DSAdd
           Add items to active directory (user group computer)
           View items in active directory (user group computer)
  DSQuery Search for items in active directory (user group computer)
           Modify items in active directory (user group computer)
  DSMove
           Move an Active directory Object
  DSRM
           Remove items from Active Directory
           Directory Service Management
  Dsmamt
0
           Display message on screen.
  ECHO
  ENDLOCAL End localisation of environment changes in a batch file.
           Delete one or more files.
```

```
EVENTCREATE Add a message to the Windows event log
  EXIT Quit the current script/routine and set an errorlevel.
  EXPAND Uncompress CAB files
  EXPLORER Open Windows Explorer
   EXTRACT Uncompress CAB files
           Compare two files
           Search for a text string in a file
   FIND
   FINDSTR Search for strings in files
   FLTMC Manage MiniFilter drivers
   FOR /F Loop command: against a set of files•
   FOR /F Loop command: against the results of another command•
          Loop command: all options Files, Directory, List.
   FORFILES Batch process multiple files
  FORMAT Format a disk
  FREEDISK Check free disk space
   FSUTIL File and Volume utilities
          File Transfer Protocol
  FTP
   FTYPE File extension file type associations•
   GETMAC Display the Media Access Control (MAC) address
           Direct a batch program to jump to a labelled line.
   GPRESULT Display Resultant Set of Policy information
  GPUPDATE Update Group Policy settings
h
           Online Help
  HELP
  HOSTNAME Display the host name of the computer
i
   iCACLS
          Change file and folder permissions
   IEXPRESS Create a self extracting ZIP file archive
           Conditionally perform a command.
   IFMEMBER Is the current user a member of a group
   IPCONFIG Configure IP
          Replace files that are in use by the OS
   INUSE
1
  LABEL Edit a disk label
          Local Group Policy Object utility
  LODCTR Load PerfMon performance counters
  LOGMAN Manage Performance Monitor logs
  LOGOFF Log a user off
  LOGTIME Log the date and time in a file
  MAKECAB Create .CAB files
  MAPISEND Send email from the command line
  MBSAcli Baseline Security Analyzer
         Display memory usage
  MD
           Create new folders•
  MKLINK Create a symbolic link (linkd) •
  MODE
           Configure a system device COM/LPT/CON
         Display output, one screen at a time
  MORE
  MOUNTVOL Manage a volume mount point
  MOVE Move files from one folder to another•
  MOVEUSER Move a user from one domain to another
         Send a message
  MSIEXEC Microsoft Windows Installer
  MSINFO32 System Information
  MSTSC Terminal Server Connection (Remote Desktop Protocol)
  NET
           Manage network resources
  NETDOM Domain Manager
  NETSH
           Configure Network Interfaces, Windows Firewall & Remote access
  NBTSTAT Display networking statistics (NetBIOS over TCP/IP)
  NETSTAT Display networking statistics (TCP/IP)
  NLSINFO Display locale information (reskit).
  NLTEST Network Location Test (AD)
           Display the current Date and Time
   NSLOOKUP Name server lookup
  NTBACKUP Windows Backup folders to tape
  NTDSUtil Active Directory Domain Services management
   NTRIGHTS Edit user account rights
```

```
NVSPBIND Modify network bindings
0
   OPENFILES Query or display open files
р
           Display or set a search path for executable files.
   PATHPING Trace route plus network latency and packet loss
   PAUSE Suspend processing of a batch file and display a message.
   PERMS
           Show permissions for a user
   PERFMON Performance Monitor
         Test a network connection
   PING
   POPD Return to a previous directory saved by PUSHD•
PORTQRY Display the status of ports and services
   POWERCFG Configure power settings
   PRINT Print a text file
   PRINTBRM Print queue Backup/Recovery
   PRNCNFG Configure or rename a printer
   PRNMNGR Add, delete, list printers and printer connections
   ProcDump Monitor an application for CPU spikes
   PROMPT Change the command prompt•
   PsExec Execute process remotely
PsFile Show files opened remotely
   PsGetSid Display the SID of a computer or a user
   PsInfo List information about a system
   PsKill
            Kill processes by name or process ID
   PsList List detailed information about processes
   PsLoggedOn Who's logged on (locally or via resource sharing)
   PsLogList Event log records
   PsPasswd Change account password
   PsPing Measure network performance
PsService View and control services
   PsShutdown Shutdown or reboot a computer
   PsSuspend Suspend processes
           Save and then change the current directory.
            Search file(s) for lines that match a given pattern
   Query Process / QPROCESS Display processes
   Query Session / QWinsta Display all sessions (TS/Remote Desktop)
   Query TermServer /QAppSrv List all servers (TS/Remote Desktop)
   Query User / QUSER
                            Display user sessions (TS/Remote Desktop)
   RASDIAL Manage RAS connections
   RASPHONE Manage RAS connections
   RECOVER Recover a damaged file from a defective disk
          Registry: Read, Set, Export, Delete keys and values
   REGEDIT Import or export registry settings
   REGSVR32 Register or unregister a DLL
           Change Registry Permissions
            Record comments (remarks) in a batch file.
           Rename a file or files•
   REPLACE Replace or update one file with another
   Reset Session Delete a Remote Desktop Session
           Delete folder(s) •
   RMTSHARE Share a folder or a printer
   ROBOCOPY Robust File and Folder Copy
   ROUTE Manipulate network routing tables
           Start | RUN commands
   RUNAS Execute a program under a different user account
   RUNDLL32 Run a DLL command (add/remove print connections)
   SC
           Service Control
   SCHTASKS Schedule a command to run at a specific time
           Display, set, or remove session environment variables.
   SETLOCAL Control the visibility of environment variables•
   SetSPN Edit Service Principal Names
           Set environment variables
           System File Checker
           List or edit a file share or print share
   ShellRunAs Run a command under a different user account
   SHIFT Shift the position of batch file parameters.
```

```
SHORTCUT Create a windows shortcut (.LNK file)
  SHUTDOWN Shutdown the computer
  SIGCHECK Display file version no. VirusTotal status & timestamp
  SLEEP Wait for x seconds
  SLMGR Software Licensing Management (Vista/2008)
  SORT
         Sort input
  START Start a program, command or batch file.
  STRINGS Search for ANSI and UNICODE strings in binary files
  SUBINACL Edit file and folder Permissions, Ownership and Domain
  SUBST Associate a path with a drive letter
  SYSMON Monitor and log system activity to the Windows event log
  SYSTEMINFO List system configuration
t
  TAKEOWN Take ownership of a file
  TASKLIST List running applications and services
  TASKKILL End a running process
  TELNET Communicate with another host using the TELNET protocol
          Display or set the system time•
  TIME
  TIMEOUT Delay processing of a batch file/command
  TITLE Set the window title for a CMD.EXE session•
  TLIST Task list with full path
  TOUCH Change file timestamps
  TRACERT Trace route to a remote host
  TREE Graphical display of folder structure
  TSDISCON Disconnect a Remote Desktop Session
  TSKILL End a running process
           Display the contents of a text file.
  TypePerf Write performance data to a log file
  TZUTIL
          Time Zone Utility
           Display version information.
  VERIFY Verify that files have been saved•
  VMConnect Connect to a Hyper-V Virtual Machine
          Display a disk label•
  VSSADMIN Display volume shadow copy backups and shadow copy writers/providers.
  W32TM
          Time Service
  WAITFOR Wait for or send a signal
  WBADMIN Windows Backup Admin
  WECUTIL Windows Event Collector Utility
  WEVTUTIL Clear event logs, enable/disable/query logs
  WHERE Locate and display files in a directory tree
  WHOAMI Output the current UserName and domain
  WINDIFF Compare the contents of two files or sets of files
  WINRM Windows Remote Management
  WINRS
           Windows Remote Shell
          WMI Commands
  WMIC
  WPEUTIL Run WinPE commands
  WPR
          Windows Performance Recorder
        Windows Perrormance ner
Windows Update Standalone Installer
  WUSA
  WUAUCLT Windows Update
  XCACLS Change file and folder permissions
  XCOPY Copy files and folders
           Comment / Remark•
  ::
```

Commands marked • are *Internal* commands only available within the CMD shell.

All other commands (not marked with •) are *external* commands.

External commands may be used under the CMD shell, PowerShell, or directly from START-RUN.

See also: a categorized list of Windows CMD commands Microsoft Help pages: 2003 Server, 2008 Server, Windows 7/Server 2012 / Technology Discussion forum

Links to other sites, books etc...

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## An A-Z Index of Windows PowerShell commands

```
Alias for ForEach-Object
        ?
                             Alias for Where-Object
а
    Get-Acl
                             Get permission settings for a file or registry key
    Set-Acl
                             Set permissions
                             Account, Computer, Group and User cmdlets
       Active Directory
    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.
                            Create or change an alias
    Set-Alias
                      sal
    Get-AppXPackage
 Compress-Archive
                             Create a new archive/zipped file [PS 5+]
   Expand-Archive
                             Extract files from an archive (zipped) file [PS 5+]
   Get-AuthenticodeSignature Get the signature object associated with a file
   Set-AuthenticodeSignature Place a signature in a .ps1 script or other file
b
                             Backup group policy objects (GPOs)
       Backup-GPO
                             Function BEGIN block
       Begin
       BITS
                             Background Intelligent Transfer Service cmdlets
       Break
                             Exit a program loop
C
     Catch
                             Handle a terminating error within a scriptblock
   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)
     Clear-Host
                clear/cls Clear the screen
    Clear-Item
                       cli Remove content from a variable or an alias
      New-CimInstance ncim Create a new instance of a class
       Get-CIMInstance gcim Get a managed resource (storage, network, software etc)
    Invoke-CimMethod
                             Invoke instance or static method of a class
                       gcm Retrieve basic information about a command
      Get-Command
   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 domain
    Restart-Computer
                             Restart the operating system on a computer
                             Restore the computer to a previous state
    Restore-Computer
       Stop-Computer
                             Stop (shut down) a computer
Reset-ComputerMachinePassword Reset the machine account password for the computer
 Test-ComputerSecureChannel Test and repair the secure channel to the domain
     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)
                      clc Remove content from a file/item
   Clear-Content
                             Skip just this iteration of a loop
        Continue
     Get-Command
                       gcm
                             Get basic information about cmdlets
  Invoke-Command
                       icm
                             Run command
   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
                             Convert object properties (in CSV format) into CSV objects
   ConvertFrom-CSV
   ConvertTo-CSV
                             Convert .NET Framework objects into CSV variable-length strings
   ConvertTo-Html
                             Convert the input into an HTML table
   ConvertTo-Xml
                             Convert the input into XML
   ConvertFrom-SecureString Convert a secure string into an encrypted standard string
   ConvertTo-SecureString
                             Convert an encrypted standard string into a secure string
   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 a security credential (username/password)
   Get-Credential
   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 system time on the host system
       Remove-Item Del/erase/rd/rm/rmdir Delete an item
       Compare-Object diff/compare Compare the properties of objects
      Get-DnsClientCache
Clear-DnsClientCache
Do
Cet-DscConfiguration

Retrieve the content of the local DNS client cache
Clear the content of the DNS client cache
Loop while a condition is True
Get the current config. of a node
          Get-DscLocalConfigurationManager Get Local Config Manager settings
      Get-DscResource Get Desired State Config. resources from a computer
New-DSCCheckSum Create checksum files for DSC docs/resources
Start-DscConfiguration Apply Desired State config to nodes
       Write-Output echo Write an object to the pipeline
                                        Function END block
Get events in the PowerShell event queue
                End
New-Event Create a new event
Remove-Event Delete events from the event queue
Unregister-Event Cancel an event subscription
Wait-Event Wait until a particular event is raised
Clear-EventLog Delete all entries from an event log
Get-EventLog Limit the size of the event log
New-EventLog Delete an event log and a new event source
Remove-EventLog Display an event log
Show-EventLog Display an event log
Write-EventLog Write an event log
Get-WinEvent Get-EventSubscriber Get event subscribers
Register-EngineEvent Subscribe to PowerShell events
Register-WmiEvent Get-ExecutionPolicy Get the execution policy for the shell
Export-Clixml Export-Console Export console configuration to a file
Export Console
Export to Comma Separated Values (spreadchart)
          Get-Event
      Produce a clixml representation of PowerShell
Export-Console Export console configuration to a file
Export-Csv epcsv Export to Comma Separated Values (spreadsheet)
Exit-PSSession Exit Exit PowerShell (or exit a societ)
      -F operator
                                                      Format operator
      Unblock-File
                                                     Unblock files downloaded from the Internet
      ForEach method

Loop through each item in the pipeline
Loop through each item in a collection
       ForEach-Object foreach Loop through each item in the pipeline ( % )
                                                     Loop through items that match a condition
    For Loop through items that match a condition

Format-Custom fc Format output using a customized view

Format-List fl Format output as a list of properties, each on a new line

Format-Wide fw Format output as a table

Format-Wide fw Format output as a table listing one property only

Export-FormatData Get-FormatData Get the formatting data in the current session
                                           qi Get a file/registry object (or any other namespace object)
      Get-Item
       Get-ChildItem dir/ls/gci Get child items (contents of a folder or registry key)
        Backup-GPO
                                                      Backup group policy objects (GPOs)
       Restore-GPO
                                                     Restore one or all GPOs from a GPO backup
                                                     Import Group Policy settings into a specified GPO from a GPO backup
        Import-GPO
 h
      Get-Help
                                       help Open the help file
      Add-History Add entries to the session history

Clear-History clhy Delete entries from the session history
          Get-History history/h/ghy Get a listing of the session history
     Invoke-History r/ihy Invoke a previously executed Cmdlet
Get-Host Get host information (PowerShell Version and Region)
      Get-Host Get host informatical Clear-Host clear/cls Clear the screen
                                oh Send output to the host
        Read-Host
          Out-Host
                                                    Read a line of input from the host console
       Write-Host
                                                     Write customized output to the host/screen
```

```
Get-HotFix
                                               Get Installed hotfixes
i
                                               Conditionally perform a command
     if
                                               Import a clixml file and rebuild the PS object
     Import-Clixml
     Import-Csv
                                ipcsv Take values from a CSV list and send objects down the pipeline
     Invoke-Command
                                             Run commands on local and remote computers
     Invoke-Expression iex Run a PowerShell expression
                                     Get content from a web page
     Invoke-WebRequest
         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 md/mkdir/ni Create a new item in a namespace
      Set-Item si Change the value of an item

Clear-ItemProperty clp 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.

New-ItemProperty Company Company from the location of 
     Remove-Item rm/del/erase/rd/ri/rmdir Remove an item
                                             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 rnp
                                              Renames a property at its location
         Set-ItemProperty sp
                                              Set a property at the specified location to a specified value
j
          Get-Job
                                    gjb
                                             Get PowerShell background jobs that are running
    Receive-Job
                                  rcjb Get PowerShell background job results
                                   rjb Delete a PowerShell background job
      Remove-Job
                                   sajb Start a PowerShell background job
       Start-Job
         Start of
Stop-Job
                                   spjb Stop a PowerShell background job
                                    wjb Wait for a background job
    Job Trigger cmdlets
                                              Get/Set Scheduled job triggers
    Stop-Process
                            kill/spps Stop a running process
1
                                               Add and remove items from a collection
Update-List
                          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
    Get-Location
    Set-Location cd/chdir/sl Set the current working location
   Send-MailMessage
                                               Send an email message
    Add-Member
                                               Add a member to an instance of a PowerShell object
                                    gm Enumerate the properties of an object
    Get-Member
 Get-Module
Import-Module
                                   gmo Get the modules imported to the session
                                  ipmo Add a module to the session
 New-Module
Remove-Module
                                  nmo Create a new dynamic module (only in memory)
                                   rmo Remove a module from the current session
                                              Export specific module members
 Export-ModuleMember
    Move-Item mv/move/mi Move an item from one location to another
      Set-MpPreference
                                               Configure preferences for Windows Defender
0
   Compare-Object diff/compare Compare the properties of objects
      Group-Object group Group objects that contain the same value
   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 val
                                  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 output to a file
    Out-GridView
                                   ogv Send output to an interactive table
    Out-Host
                                    oh Send output to the host
    Out-Null
                                               Send output to null
                                     lp Send the output to a printer
    Out-Printer
    Out-String
                                               Send objects to the host as strings
р
                  Param
                                                Script Parameters
                                                Pause and display the message "Press Enter to continue"
                 Powershell
                                               Launch a PowerShell session/run a script.
     Convert-Path cvpa Convert a ps path to a provider path
         Join-Path
                                               Combine a path and child-path
                                  rvpa Resolves the wildcards in a path
     Resolve-Path
```

```
Split-Path
                                                                                                                             Return part of a path
Test-Path Return true if the path exists, otherwise return

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
                                                                                                                           Return true if the path exists, otherwise return false
                 Process

Function PROCESS DLOCK

Get-Process

ps/gps

Get a list of processes on a machine

Attach a debugger to a running proces
          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-Process
Wait for a process to stop
Enable-PSBreakpoint ebp
Disable-PSBreakpoint dbp
Get-PSBreakpoint gbp
Get-PSBreakpoint sbp
Set-PSBreakpoint sbp
Remove-PSBreakpoint rbp
Get-PSDrive
Get-PSDrive
Get-PSDrive
Mew-PSDrive
Mount/ndr
Denove a provider/drive from its leastion
          Remove-PSDrive rdr Remove a provider/drive from its location
   Remove-PSDrive rdr Get-PSProvider
Set-PSdebug Turn script debugging on or off

Disable-PSRemoting Disable-PSSession etsn Exit-PSSession epsn Get the PSSession ipsn Tuport-PSSession ipsn Remove-PSSession rsn Close PowerShell session configurations on the local computer from the specified provider from its location Get information for the specified provider from its location Get information for the specified provider from the specified provider from its location Get information for the specified provider from its location Get information for the specified provider from specified provider from the specified provider from specified provider from the specified provider from 
            Disable-PSSessionConfiguration
Enable-PSSessionConfiguration
Get-PSSessionConfiguration
Get registered PS session configuration
          Register-PSSessionConfiguration Create and register a new PS session configuration
                              Set-PSSessionConfiguration Change properties of a registered session configuration
Unregister-PSSessionConfiguration Delete registered PS session configuration
                             New-PSSessionOption Advanced options for a PSSession
        Add-PsSnapIn asnp Add snap-ins to the console
Get-PsSnapin gsnp List PowerShell snap-ins on this computer
Remove-PsSnapin rsnp Remove PowerShell snap-ins from the console
        Get-Random
                                                                                                                              Get a random number
        Read-Host
                                                                                                                               Read a line of input from the host console
         {\tt Remove-Item} \quad {\tt rm/del/erase/rd/ri/rmdir} \quad {\tt Remove\ an\ item}
         Rename-Item ren/rni Change the name of an existing item
        Rename-ItemProperty Rename a property of an item
         Return
                                                                                                                             Exit the current scope, (function, script, or script block)
                                                                      & Run a command (call operator)
        Run/Call
        Scheduler cmdlets
Select-Object
Select-XML
Send-MailMessage

Get/Set scheduled jobs
Select properties of objects
Find text in an XML string or document
Send an email message
        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
Start-Service sasv Start a stopped service
Stop-Service space Stop-Service spa
                   Stop-Service spsv Stop a running service
        Suspend-Service
Sort-Object
Sort Sort objects by property value
Set-StrictMode
Start-Sleep
Sleep
Suspend a running service
Sort objects by property value
Enforce coding rules in expressions & script
Suspend shell, script, or runspace activity
                                                                                                                           Enforce coding rules in expressions & scripts
          Switch
                                                                                                                              Multiple if statements
        ConvertFrom-StringData
Convert a here-string into a main seminated and s
                                                                                             tee Send input objects to two places
         Tee-Object
         New-Timespan
                                                                                                                              Create a timespan object
```

```
Trace-Command
Get-Tracesource
Set-Tracesource
Start-Transaction
Complete-Transaction
Get-Transaction
Use-Transaction
Undo-Transaction
Start-Transcript
Stop-Transcript
Trap
Trap
Trap
Trap
Trap
Try ... Catch
Add-Type
Update-TypeData

Trace an expression or command
Get components that are instrumented for tracing.
Trace a PowerShell component
Start an ew transaction
Commit the transaction
Get information about the active transaction
Roll back a transaction
Start-Transcript
Start a transcript of a command shell session
Stop the transcription process
Handle a terminating error
Handle a terminating error within a scriptblock
Add a .NET Framework type to a PowerShell session
Update extended type configuration
        Get-Uiculture Get the ui culture information
Unblock-File Unblock files downloaded from the Internet
Get-Unique gu Get the unique items in a collection
           Update-Formatdata Update and append format data files
Update-Help Download and install help files
           Update-Help
Update-Typedata
                                                                                     Update the current extended type configuration
        Clear-Variable clv Remove the value from a variable get-Variable gv Get a PowerShell variable nv Create a new variable rv Remove-Variable and its value
     Remove-Variable
              Set-Variable set/sv Set a variable and a value
Checkpoint-WebApplicationMonitoring Create a checkpoint for an IIS web app
  Get-WebApplicationMonitoringStatus Get the monitoring status of web apps
  New-WebServiceProxy Create a Web service proxy object
Invoke-WebRequest Get content from a web page
Invoke-WebRequest
       Where-Object where/? Filter input from the pipeline Where method Filter objects from a collection
 wnile

Add-WindowsFeature

Get-WindowsFeature

Remove-WindowsFeature

Write-Debug

Write-Error

Write-Host

Write-Order

Write-Order

Write-Order

Write-Color

Loop while a condition is True

Install roles, role services, and features
Retrieve roles, role services, and features
Remove roles, role services, and features
Write a debug message to the host display
Write an object to the error pipeline
Display text on screen
Write-Output write/echo
Write-Progress
Write-Verbose
Write-Warning
Set-WmiInstance
Invoke-WmiObject
Connect-WSMan
Disconnect-WSMan
Invoke-WSManCredSSP
Enable-WSManCredSSP
Enable-WSManCredSSP
Enable-WSManInstance
Cet-WsManInstance
Cet-WsManQuickConfig
New-WsManSessionOption

Z
        Write-Output write/echo Write an object to the pipeline
Remove-WSManInstance
z
         Zipfile
                                                                                       Compress or Extract zip files
                                                                                       Comment / Remark
                                                                            Run a command script in the current shell
Run a command, script or function
Alias for ForEach-Object
                    . (source)
                    & (call)
                    --응
                                                                                   Stop parsing input
                                                                                       Alias for Where-Object
```

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 5.0 cmdlets, core cmdlets, Windows 2008 R2 cmdlets... more optional cmdlets. Discussion forum Links to other websites & books

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Create an alias •

## An A-Z Index of the Linux command line: bash + utilities.

```
apropos Search Help manual pages (man -k)
apt-get Search for and install software packages (Debian/Ubuntu)
aptitude Search for and install software packages (Debian/Ubuntu)
         Spell Checker
aspell
         Find and Replace text, database sort/validate/index
awk
basename Strip directory and suffix from filenames
bash
         GNU Bourne-Again SHell
         Arbitrary precision calculator language
bc
bq
         Send to background
bind
         Set or display readline key and function bindings •
break
         Exit from a loop •
builtin Run a shell builtin
         Compress or decompress named file(s)
bzip2
cal
         Display a calendar
        Conditionally perform a command
case
         Concatenate and print (display) the content of files
cat.
cd
         Change Directory
cfdisk
        Partition table manipulator for Linux
chattr
         Change file attributes on a Linux file system
         Change group ownership
chgrp
chmod
         Change access permissions
chown
         Change file owner and group
chroot
        Run a command with a different root directory
chkconfig System services (runlevel)
cksum
        Print CRC checksum and byte counts
         Clear terminal screen
clear
cmp
         Compare two files
comm
         Compare two sorted files line by line
command Run a command - ignoring shell functions •
continue Resume the next iteration of a loop .
cp
         Copy one or more files to another location
         Daemon to execute scheduled commands
cron
crontab Schedule a command to run at a later time
        Split a file into context-determined pieces
csplit
curl
         Transfer data from or to a server
         Divide a file into several parts
cut
date
         Display or change the date & time
dc
         Desk Calculator
dd
         Convert and copy a file, write disk headers, boot records
ddrescue Data recovery tool
declare Declare variables and give them attributes •
df
         Display free disk space
diff
         Display the differences between two files
diff3
         Show differences among three files
diq
         DNS lookup
         Briefly list directory contents
dircolors Colour setup for `ls'
dirname Convert a full pathname to just a path
dirs
         Display list of remembered directories
dmesq
         Print kernel & driver messages
du
         Estimate file space usage
echo
         Display message on screen •
egrep
         Search file(s) for lines that match an extended expression
         Eject removable media
eject
         Enable and disable builtin shell commands •
enable
         Environment variables
ethtool Ethernet card settings
         Evaluate several commands/arguments
eval
         Execute a command
```

```
Exit the shell
 exit
 expect Automate arbitrary applications accessed over a terminal
 expand Convert tabs to spaces
 export Set an environment variable
 expr
         Evaluate expressions
 false Do nothing, unsuccessfully
 fdformat Low-level format a floppy disk
 fdisk Partition table manipulator for Linux
          Send job to foreground
 fg
        Search file(s) for lines that match a fixed string
 fgrep
 file
          Determine file type
 find
          Search for files that meet a desired criteria
 fmt
          Reformat paragraph text
 fold
         Wrap text to fit a specified width.
        Expand words, and execute commands
 for
 format Format disks or tapes
        Display memory usage
 free
         File system consistency check and repair
        File Transfer Protocol
 function Define Function Macros
 fuser Identify/kill the process that is accessing a file
         Find and Replace text within file(s)
 getopts Parse positional parameters
       Search file(s) for lines that match a given pattern
 groupadd Add a user security group
 groupdel Delete a group
 groupmod Modify a group
 groups Print group names a user is in
          Compress or decompress named file(s)
 gzip
 hash
          Remember the full pathname of a name argument
 head
          Output the first part of file(s)
 help
          Display help for a built-in command •
 history Command History
 hostname Print or set system name
         Interactive process viewer
 htop
 iconv
        Convert the character set of a file
       Print user and group id's
 id
         Conditionally perform a command
 ifconfig Configure a network interface
 ifdown Stop a network interface
 ifup Start a network interface up import Capture an X server screen and save the image to file install Copy files and set attributes
 iostat Report CPU and i/o statistics
          Routing, devices and tunnels
 ip
        List active jobs •
 jobs
         Join lines on a common field
  join
         Kill a process by specifying its PID
 kill
 killall Kill processes by name
1
 less
       Display output one screen at a time
 let
        Perform arithmetic on shell variables •
 link
         Create a link to a file
 ln
         Create a symbolic link to a file
 local
          Create a function variable •
 locate
          Find files
 logname Print current login name
 logout
          Exit a login shell •
 look
          Display lines beginning with a given string
 lpc
          Line printer control program
         Off line print
 lpr
 lprint Print a file
 lprintd Abort a print job
 lprintq List the print queue
```

```
Remove jobs from the print queue
lprm
        List file attributes on a Linux second extended file system
lsattr
        List block devices
lsblk
       List information about file(s)
lsof
       List open files
lspci List all PCI devices
        Recompile a group of programs
make
       Help manual
man
mkfifo Make FIFOs (named pipes)
mkfile Make a file
mkisofs Create an hybrid ISO9660/JOLIET/HFS filesystem
        Make block or character special files
Display output one screen at a time
more
       Browse or page through a text file
most
mtools Manipulate MS-DOS files
mt.r
       Network diagnostics (traceroute/ping)
       Move or rename files or directories
       Mass Move and rename (files)
mmvz
nc
       Netcat, read and write data across networks
netstat Networking connections/stats
nice Set the priority of a command or job
        Number lines and write files
nohup Run a command immune to hangups
notify-send Send desktop notifications
nslookup Query Internet name servers interactively
open
        Open a file in its default application
        Operator access
op
passwd Modify a user password
       Merge lines of files
paste
pathchk Check file name portability
Perf
      Performance analysis tools for Linux
       Test a network connection
pgrep List processes by name
pkill Kill processes by name
popd Restore the previous value of the current directory
pr
       Prepare files for printing
printcap Printer capability database
printenv Print environment variables
printf Format and print data •
        Process status
ps
        Save and then change the current directory
pushd
        Monitor the progress of data through a pipe
vq
pwd
        Print Working Directory
      Display disk usage and limits
quota
quotacheck Scan a file system for disk usage
      ram disk device
ram
       Archive files with compression
        Copy files between two machines
       Read a line from standard input •
readarray Read from stdin into an array variable •
readonly Mark variables/functions as readonly
reboot Reboot the system
rename Rename files
renice Alter priority of running processes remsync Synchronize remote files via email return Exit a shell function
        Reverse lines of a file
        Remove files
rmdir Remove folder(s)
rsync Remote file copy (Synchronize file trees)
```

```
screen Multiplex terminal, run remote shells via ssh
          Secure copy (remote file copy)
 sdiff Merge two files interactively
         Stream Editor
 sed
 select Accept keyboard input
         Print numeric sequences
         Manipulate shell variables and functions
         Secure File Transfer Program
 sftp
 shift     Shift positional parameters
shopt     Shell Options
 shutdown Shutdown or restart linux
 sleep Delay for a specified time
slocate Find files
 sort    Sort text files
source    Run commands from a file '.'
 split    Split a file into fixed-size pieces
ss          Socket Statistics
         Secure Shell client (remote login program)
 ssh
 stat Display file or file system status
 strace Trace system calls and signals
         Substitute user identity
         Execute a command as another user
         Print a checksum for a file
 suspend Suspend execution of this shell •
         Synchronize data on disk with memory
 tail Output the last part of file
 tar
          Store, list or extract files in an archive
         Redirect output to multiple files
          Evaluate a conditional expression
          Measure Program running time
  timeout Run a command with a time limit
          User and system times
  times
 touch Change file timestamps
 top List processes running on the system tput Set terminal-dependent capabilities, color, position
  traceroute Trace Route to Host
          Execute a command when the shell receives a signal •
  trap
          Translate, squeeze, and/or delete characters
 true Do nothing, successfully
  tsort Topological sort
         Print filename of terminal on stdin
 tty
 type
         Describe a command •
 ulimit Limit user resources •
 umask     Users file creation mask
umount     Unmount a device
 unalias Remove an alias • uname Print system information
 unexpand Convert spaces to tabs
 uniq Uniquify files
 units Convert units from one scale to another
 unrar Extract files from a rar archive
 unset Remove variable or function names
 unshar Unpack shell archive scripts
 until     Execute commands (until error)
 uptime Show uptime
 useradd Create new user account
 userdel Delete a user account
 usermod Modify user account
 users List users currently logged in
 uuencode Encode a binary file
 uudecode Decode a file created by uuencode
           Verbosely list directory contents (`ls -l -b')
           Verbosely list directory contents (`ls -l -b')
 vdir
           Text Editor
 vi
 vmstat Report virtual memory statistics
W
           Show who is logged on and what they are doing
```

```
Wait for a process to complete •
wait
watch Execute/display a program periodically
       Print byte, word, and line counts
whereis Search the user's $path, man pages and source files for a program
which Search the user's $path for a program file
while Execute commands
who
       Print all usernames currently logged in
whoami Print the current user id and name (`id -un')
wget Retrieve web pages or files via HTTP, HTTPS or FTP
write Send a message to another user
xargs
      Execute utility, passing constructed argument list(s)
xdg-open Open a file or URL in the user's preferred application.
      Compress or decompress .xz and .lzma files
        Print a string until interrupted
yes
zip
        Package and compress (archive) files.
        Run a command script in the current shell
1.1
        Run the last command again
###
        Comment / Remark
```

## Commands marked • are bash built-ins

Many commands particularly the Core Utils are also available under alternate shells (C shell, Korn shell etc).

More bash commands: Linux Command Directory from O'Reilly, GNU CoreUtils. SS64 bash discussion forum Links to other Sites, books etc

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