



System Administration

Linux	Windows	Description
<u>kill</u>	<i>taskkill</i>	Terminates a process
<u>mkdir</u>	<i>mkdir</i>	Creates new directory
<u>cp</u>	<i>copy</i>	Copies files or directories
<u>ps</u>	<i>tasklist</i>	Displays information about active processes
<u>echo</u>	<i>echo</i>	Prints a message to the console
<u>exit</u>	<i>exit</i>	Exits or close the current command prompt or shell
<u>free</u>	<i>mem</i>	Displays the amount of free and used memory on the
<u>ls -R</u>	<i>tree</i>	Lists directory recursively
<u>du -s</u>	<i>chdisk</i>	Disk usage of a particular file or directory
<u>cron</u>	<i>at</i>	Allows scheduling of commands or scripts to run at
<i>export var=value</i>	<i>set var=value</i>	Sets environment variables
<u>rm -rf/rmdir</u>	<i>rmdir</i>	Deletes files or directories
<i>Mke2fs or mformat</i>	<i>format</i>	Formats a file system on a storage device
<u>cd</u>	<i>cd</i>	Changes the current working directory
<u>date</u>	<i>time</i>	Displays or sets the time and date on the system
<u>pwd</u>	<i>chdir</i>	Displays the current working directory
<i>man command_name</i>	<i>command_name /?</i>	Displays help or manual pages of a specific command
<u>grep</u>	<i>find</i>	Searches for patterns in files
<u>diff</u>	<i>fc</i>	Compares two files
<u>rm</u>	<i>del</i>	Deletes files
<u>clear</u>	<i>cls</i>	Clears the command line interface screen
<u>mv</u>	<i>move</i>	Move files or directories
<u>mv</u>	<i>ren</i>	Rename files or directories
<u>sort</u>	<i>sort</i>	Sort lines in a file
<u>rsync</u>	<i>robocopy</i>	Synchronize files between two location
<u>scp</u>	<i>pscp</i>	Transfer files securely over a network
<u>history</u>	<i>doskey /history</i>	Displays a list of previously executed commands
<u>sudo</u>	<i>runas</i>	Run command or script with elevated privileges
<u>ln</u>	<i>mklink</i>	Create links between files or directories
<u>locate</u>	<i>dir /s /b</i>	Search for files
<i>route</i>	<i>route</i>	Displays or modifies the network routing table
<u>mount</u>	<i>mountvol or diskpart</i>	Mount or unmount file systems
<u>curl</u>	<i>curl</i>	Transfer data from or to a server using various
<i>last</i>	<i>quser</i>	Displays a list of previous user logins
<i>nmap</i>	<i>namp</i>	Scan networks and detect open ports
<i>lsblk</i>	<i>diskpart</i>	Displays information about block devices
<i>umount</i>	<i>mountvol /d</i>	Unmount file systems
<u>service</u>	<i>sc</i>	Manages system services
<u>uptime</u>	<i>systeminfo</i>	Displays system uptime and other system information
<i>iostat</i>	<i>diskperf</i>	Displays disk I/O statistics



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<u>fscck</u>	<i>chkdsk</i>	Check and repair file system errors on a storage device
<u>mkfs</u>	<i>format</i>	Creates a file system on a storage device
<i>fuser</i>	<i>handle</i>	Displays information about processes that are using a
<u>pgrep</u>	<i>Tasklist /FI</i>	Displays information about processes that match a
<u>stat</u>	<i>stat</i>	Displays file or file system status information
<i>unset</i>	<i>setx /delete</i>	Deletes or unsets an environment variable
<u>crontab</u>	<i>schtasks</i>	Schedule tasks or jobs to run at specified intervals
<u>dd</u>	<i>diskcopy</i>	Copies data between disks or files
<u>tr</u>	<i>tr</i>	Translate or replace characters in a file or stream
<u>which</u>	<i>where</i>	Locate the executable file associated with a command
<u>tee</u>	<i>tee</i>	Redirect output to both a file and the screen
<u>cut</u>	<i>cut</i>	Extract sections of text from a file or stream
<u>wc</u>	<i>find /c</i>	Count lines, words, and characters in a file or stream
<u>uniq</u>	<i>uniq</i>	Remove duplicate lines from a file or stream
<u>free</u>	<i>systeminfo</i>	Displays information about system memory and
<i>nice</i>	<i>start /low</i>	Changes the priority level of a process
<i>watch</i>	<i>watch</i>	Repeatedly execute a command and show the output
<i>ss</i>	<i>netstat -an</i>	Displays network statistics
<i>renice</i>	<i>wmic process where</i>	Changes the priority level of a running process
<i>lsmod</i>	<i>driverquery</i>	Displays information about kernel modules
<i>lscpu</i>	<i>wmic cpu get</i>	Displays information about CPU
<u>userdel</u>	<i>net user /delete</i>	Delete a user from the system
<i>lsusb</i>	<i>devmgmt.msc</i>	Displays USB device information
<i>lspci</i>	<i>devmgmt.msc</i>	Displays PCI device information

File Manipulation

Linux	Windows	Description
<u>touch</u>	<i>copy con</i>	Creates an empty file or updates the timestamp of an
<u>head</u>	<i>more</i>	Displays the first few lines of a file
<u>nano</u>	<i>edit</i>	Simple text editor
<u>cat</u>	<i>type</i>	Displays the contents of a file

Networking

Linux	Windows	Description
<u>ifconfig</u>	<i>ipconfig</i>	Displays the network interface configuration
<u>hostnamectl</u>	<i>hostname</i>	Displays or modifies the system hostname
<u>ssh</u>	<i>ssh</i>	Remotely access and manage a system
<u>netstat</u>	<i>netstat</i>	Display network statistics and active connections
<u>traceroute</u>	<i>tracert</i>	Trace the route that packets take to reach a
<u>nslookup</u>	<i>nslookup</i>	Query DNS servers to obtain domain name or IP



Networking

Linux	Windows	Description
<u>ping</u>	<i>ping</i>	Test network connectivity
<u>tcpdump</u>	<i>Netsh Trace</i>	Capture and analyze network traffic

Permissions

Linux	Windows	Description
<u>chmod</u>	<i>attrib</i>	Changes file or directory permissions or attributes
<u>chown</u>	<i>takeown</i>	Changes ownership of a file or directory

Control System

Linux	Windows	Description
<i>poweroff</i>	<i>shutdown -s</i>	Shut down the system
<u>reboot</u>	<i>shutdown -r</i>	Restart the system
<i>halt</i>	<i>shutdown -s -t 0</i>	Shut down the system

File Compression

Linux	Windows	Description
<u>gunzip</u>	<i>gunzip</i>	Decompresses or extracts files from a compressed
<u>gzip</u>	<i>gzip</i>	Compresses or creates a compressed archive of files
<u>tar</u>	<i>tar</i>	Creates extract tar archives

User Management

Linux	Windows	Description
<u>groupmod</u>	<i>net localgroup /domain</i>	Modifies a group
<u>groupadd</u>	<i>net localgroup</i>	Manages user groups
<i>chpasswd</i>	<i>net user</i>	Changes a user's password
<u>whoami</u>	<i>whoami</i>	Displays the current user name
<u>passwd</u>	<i>net user</i>	Manages user accounts and passwords

Text Editing

Linux	Windows	Description
<u>awk</u>	<i>findstr</i>	Text processing and manipulation
<u>sed</u>	<i>sed</i>	Perform text transformations on files or streams
<u>vim</u>	<i>edit</i>	Edit text files in a command line interface
<u>emacs</u>	<i>emacs</i>	Simple text editor
<u>vi/vim</u>	<i>vim</i>	Text editor
<i>gedit</i>	<i>notepad</i>	Opens a text editor