PowerShell Compared to Other CLIs

PowerShell (Cmdlet)	PowerShell (Alias)	CMD.EXE / COMMAND.COM	UNIX shell	Description
Get-ChildItem	gci, dir, ls	dir	ls	List all files/directories in the (current) directory
Test-Connection[a]	N/A	ping	ping	Sends ICMP echo requests to specified machine from the current machine, or instructs another machine to do so
Get-Content	gc, type, cat	type	cat	Get the content of a file
Get-Command	gcm	help	type, which	List available commands
Get-Help	help, man	help	apropos, man	Help on commands
Clear-Host	cls, clear	cls	clear	Clear the screen[b]
Copy-Item	cpi, copy, cp	copy	cp	Copy one or several files/a whole directory tree
Move-Item	mi, move, mv	move	mv	Move a file/a directory to a new location
Remove-Item	ri, del, erase, rmdir, rd, rm	del, erase, rmdir, rd	rm, rmdir	Delete a file/a directory

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Rename-Item	rni, ren, mv	ren, rename	mv	Rename a file/a directory
Get-Location	gl, cd, pwd	cd	pwd	Display the current directory/present working directory.
Pop-Location	popd	popd	popd	Change the current directory to the directory most recently pushed onto the stack
Push-Location	pushd	pushd	pushd	Push the current directory onto the stack
Set-Location	sl, cd, chdir	cd, chdir	cd	Change the current directory
Tee-Object	tee	N/A	tee	Pipe input to a file or variable, then pass the input along the pipeline
Write-Output	echo, write	echo	echo	Print strings, variables, etc. to standard output
Get-Process	gps, ps	tlist,[c] tasklist[d]	ps	List all currently running processes
Stop-Process	spps, kill	kill,[c] taskkill[d]	kill[e]	Stop a running process
Select-String	sls	find, findstr	grep	Print lines matching a pattern
Set-Variable	sv, set	set	env, export, set, setenv	Set the value of a variable/create a variable
Invoke-WebRequest	iwr, curl, wget	N/A	wget, cURL	Gets content from a web page on the Internet

Features built within PowerShell

	Command Name Completion	Path Completion	Command Argument Completion	Wildcard Completion	Command History	Mandatory Argument Prompt	Directory History, Stack or similar features	Value prompt	Menu/Options Prompt
Windows PowerShell	Yes	Yes	Yes	Yes	Yes (F8)	Yes	Yes; multiple stacks; multiple location types	Yes	Yes
Windows CMD.EXE	Partial	Partial	No	No	Yes (F8)	No	Yes (PUSHD, POPD)	Yes (viaSET/ Pcommand)	No
ksh (ksh93t+)	Yes (extend-able)	Yes (extend-able)	No	No	Yes	No	Yes (cdpath builtin, pushd, popd implemented as functions)	Yes	Yes
csh	Yes	Yes	No	No	Yes	No	Yes (cdpath, pushd, popd)	Yes	No
COMMAND .COM	No	No	No	No	No	No	No	No	No (only via external CHOICEcommand, in DR-DOS also viaSWITCH / DRSWITCHinternal commands)
bash (v4.0	Yes	Yes	when defined	Yes	Yes	No	Yes (CDPATH, pushd, popd)	Yes	Yes