

CRUD Operations Cheat Sheet

This cheat sheet summarizes the essential Create, Read, Update, and Delete (CRUD) operations for files and directories across Linux, PowerShell, and Windows Command Prompt (CMD). Keep this handy as you navigate different command-line environments!

Operation	Linux Commands	PowerShell Cmdlets / Operators	Windows CMD Commands / Operators
CREATE	<code>touch file.txt</code> (empty file) <code>mkdir folder_name</code> <code>mkdir -p path/to/folder</code> (create parents)	<code>New-Item -ItemType File file.txt</code> <code>New-Item -ItemType Directory folder_name</code> Aliases: <code>mkdir</code>	<code>type NUL > file.txt</code> (empty file) <code>mkdir folder_name</code> Aliases: <code>md</code>
READ	<code>cat file.txt</code> (full content) <code>less file.txt</code> (scrollable content) <code>head -n X file.txt</code> (first X lines) <code>tail -n X file.txt</code> (last X lines)	<code>Get-Content file.txt</code> Aliases: <code>cat</code> , <code>type</code>	<code>type file.txt</code>
UPDATE	<code>echo "text" >> file.txt</code> (append) <code>nano file.txt</code> / <code>vi file.txt</code> (editor) <code>echo "new text" > file.txt</code> (overwrite)	<code>Add-Content -Value "text" file.txt</code> (append) <code>Set-Content -Value "text" file.txt</code> (overwrite) Operators: <code>>></code> (append), <code>></code> (overwrite)	<code>echo "text" >> file.txt</code> (append) <code>echo "new text" > file.txt</code> (overwrite)
DELETE	<code>rm file.txt</code> <code>rmdir empty_folder</code> <code>rm -r folder_with_stuff</code> (recursive) Safety: <code>rm -ri folder</code> (recursive, interactive)	<code>Remove-Item file.txt</code> <code>Remove-Item folder_name</code> <code>Remove-Item -Recurse folder_with_stuff</code> Aliases: <code>rm</code> , <code>rmdir</code> Optional: <code>-Force</code>	<code>del file.txt</code> <code>rd empty_folder / rmdir empty_folder</code> <code>rd /s folder_with_stuff</code> (recursive) Optional: <code>rd /s /q folder</code> (recursive, quiet)