Linux to Windows Command Cheat Sheet for Cybersecurity Enthusiast and Developers

Linux Command	Windows Command (CMD/Powershell)	Description	Example
ls	dir	List files in a directory	dir C:\Users\
pwd	cd (without arguments)	Print current working directory	cd
cd	cd	Change directory	cd C:\Windows\System32
cat	type	Display contents of a file	type myFile.txt
nano / vi	notepad / vim (if installed)	Edit text files	notepad myFile.txt
mv	move	Move or rename files	move myFile.txt C:\NewFolder\
cp	copy	Copy files	copy myFile.txt C:\Backup\
rm	del / erase	Delete files	del myFile.txt
rmdir	rmdir /s	Remove directories	rmdir /s myFolder

chmod	icacls / attrib	Change file permissions	icacls myFile.txt /grant Everyone:F (Full control for everyone)
chown	takeown / icacls	Change file owner	takeown /f myFile.txt
grep	findstr	Search within files	findstr "error" myFile.txt
find	dir /s /b	Search for files	dir /s /b myFile.txt
locate	where	Find file locations	where notepad.exe
ifconfig	ipconfig	Show network configuration	ipconfig /all
ip a	Get-NetIPAddress (PowerShell)	Show IP addresses	Get-NetIPAddress
netdiscover	arp -a	Discover network devices	arp -a
ping	ping	Test network connectivity	ping google.com
traceroute	tracert	Trace network path	tracert google.com

nslookup	nslookup	Query DNS records	nslookup google.com
wget / curl	Invoke-WebRequest (PowerShell)	Download files	Invoke-WebRequest -Uri "http://example.com/file.txt" -OutFile file.txt
scp	pscp (from PuTTY) / Copy-Item -ToSession (PowerShell)	Secure file copy	pscp myFile.txt user@192.168.1.1:/home/user/
rsync	robocopy	Synchronize files	robocopy C:\source C:\destination /MIR
tar -czf	Compress-Archive (PowerShell)	Create compressed archives	Compress-Archive -Path myFolder -DestinationPath myArchive.zip
tar -xzf	Expand-Archive (PowerShell)	Extract archives	Expand-Archive -Path myArchive.zip -DestinationPath C:\Extracted
md5sum	certutil -hashfile <file> MD5	Generate MD5 hash	certutil -hashfile myFile.txt MD5
sha256sum	certutil -hashfile <file> SHA256	Generate SHA256 hash	certutil -hashfile myFile.txt SHA256

strings	findstr /R /N "."	Extract readable text from binaries	findstr /R /N "." binaryFile.exe
xxd	Format-Hex (PowerShell)	View hexadecimal dump	Format-Hex myFile.txt

Notes:

- Windows Command Prompt (cmd) and PowerShell are different. PowerShell offers more advanced scripting capabilities.

- Many Linux utilities can be installed on Windows via Cygwin, WSL (Windows Subsystem for Linux), or third-party tools like Git Bash.

- PowerShell is recommended for advanced command-line operations on Windows.

This cheat sheet provides useful parallels for common Linux commands in Windows environments, especially for cybersecurity professionals who are transitioning or working across both operating systems.