

Windows Terminal Environments Cheatsheet

A comprehensive cheat sheet covering essential commands and concepts for both Windows CMD and PowerShell, providing quick references for navigation, file management, system information, and more.



Basic Navigation & File Management

Command Prompt (CMD) - Navigation

cd directo ry	Change directory to the specified directory.
cd	Move up one directory level.
cd \	Change to the root directory.
dir	List files and subdirectories in the current directory.
tree	Display the directory structure graphically.
pushd directo ry	Saves the current directory for use later and changes to specified directory.
popd	Returns to the directory most recently saved by the pushd command.

PowerShell - Navigation

Set- Location directory	Change directory to the specified directory.
Set- Location	Move up one directory level.
Get- ChildItem	List files and subdirectories in the current directory (alias: 1s , dir).
Push- Location directory	Saves the current location to a stack and changes to the specified location.
Pop- Location	Retrieves the last location from the location stack.
Get- Location	Displays the current directory.

File Management (CMD)

mkdir directory	Create a new directory.
rmdir directory	Remove an empty directory.
del filename	Delete a file.
copy source destination	Copy a file.
ren oldname newname	Rename a file.

File Management & System Info

File Management (PowerShell)

New-Item directory -ItemType Directory	Create a new directory.
Remove-Item directory	Remove a directory (can also remove files).
Copy-Item source destination	Copy a file or directory.
Rename-Item oldname newname	Rename a file or directory.
Move-Item source destination	Move a file or directory.
New-Item filename -ItemType File	Creates a new file.

System Information (CMD)

systemi nfo	Display detailed system configuration information.
tasklis	Display a list of currently running processes.
ipconfi g	Display IP configuration information.
hostnam	Displays the hostname of the machine.

System Information (PowerShell)

Display comprehensive computer information. Display a list of currently running processes.
, , , , ,
Display IP configuration information.
Displays information about the current PowerShell host.

Process Management & Networking

Process Management (CMD)

taskkill /IM processname.exe	Forcefully terminate a process by image name.
taskkill /PID processID /F	Forcefully terminate a process by process ID.
start program	Start a program.

Process Management (PowerShell)

Stop-Process - Name processname -Force	Forcefully terminate a process by name.
Stop-Process -Id processID -Force	Forcefully terminate a process by process ID.
Start-Process program	Start a program.
Get-Service	Get a list of the services available on the computer.
Stop-Service servicename	Stop a service.
Start-Service servicename	Start a service.

Networking (CMD)

ping hostname	Ping a hostname or IP address.
tracert hostname	Trace route to a hostname.
netstat -	Display active TCP connections, listening ports, etc.

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Advanced Commands & Scripting

Networking (PowerShell)

Test-Connection hostname	Ping a hostname or IP address.
Test-Path -Path 'TCP:hostname:port'	Test a specific TCP port.
Get- NetTCPConnection	Get active TCP connections.
Resolve-DnsName	Query DNS for hostname.

CMD Scripting

@echo off - Disable command echoing.
echo message - Display a message.
set variable=value - Define a variable.
%variable% - Access a variable.
if condition (commands) else (commands) Conditional execution.
for %%i in (set) do (command) - Loop
through a set of items.

PowerShell Scripting

\$variable = value - Define a variable.
\$variable - Access a variable.
if (condition) { commands } elseif
(condition) { commands } else { commands }
- Conditional execution.
foreach (\$i in \$collection) { commands } Loop through a collection.
function functionName { commands } Define a function.
Write-Host message - Display a message.
Get-Help command - Get help for a command.

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