PowerShell Commands Cheat Sheet

by bytebar via cheatography.com/218949/cs/48440/

The Pattern

Every cmdlet is **Verb-Noun**	`Get-Pr ocess`, `Stop-S ervice`, `New-Item`

Learn the verbs — they work across every noun.

Must-Know Aliases

`ls` / `dir`	`Get-Ch ildItem`
`cat`	`Get-Co ntent`
`echo`	`Write- Output`
`ps`	`Get-Pr ocess`
`kill`	`Stop-P rocess`
`cp`	`Copy-Item`
`mv`	`Move-Item`
`rm`	`Remove -Item`
`man`	`Get-Help`
`?`	`Where- Object`
`%`	`ForEac h-O bject`

Aliases are shortcuts — use full cmdlet names in scripts.

Files & System

`Get-Ch ildItem -Recurse -Filter *.log`	find files
`Get-Co ntent log.txt -Tail 20 -Wait`	live tail
`Copy-Item src dst -Recurse`	copy folders
`Get-Help Get-Pr ocess -Examples`	built-in examples
`Get-Co mmand` *`service`*	discover cmdlets

`Get-Help` and `Get-Co mmand` are your built-in documentation.

Processes & Services

`Get-Pr ocess | Sort-O bject CPU -Desce nding | Select -Object -First 5`	top 5 CPU hogs
`Stop-P rocess -Name notepad -Force`	kill a process
`Get-Se rvice | Where- Object {$_.Status -eq 'Running'}`	running services
`Restar t-S ervice -Name Spooler`	restart a service

The pipe `|` passes objects, not text.

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Networking

`Test-C onn ection 8.8.8.8 -Count 4`	ping
`Test-N etC onn ection exampl e.com -Port 443`	port check
`Get-Ne tIP Address`	IP config
`Get-Dn sCl ien tCache | Clear- Dns Cli ent Cache`	flush DNS
`Resolv e-D nsName exampl e.com`	nslookup equivalent

`Test-N etC onn ection` covers ping, port checks, and traceroute in one cmdlet.

Active Directory

`Get-ADUser -Filter * -Searc hBase " OU= Sal es, DC= cor p,D C=l oca l"`	all users in an OU
`Get-ADUser jdoe | Unlock -AD Account`	unlock an account
`Set-AD Acc oun tPa ssword jdoe -Reset`	force a password reset
`Get-AD Com puter -Filter * | Select -Object Name,O per ati ngS ystem`	inventory computers

Requires the ActiveDirectory module (RSAT).

Pipeline Power

```
Get-Pr ocess | Sort-O bject CPU -Desce nding | Select -Object -First 5 Name
```

```
Get-Ch ildItem C:\ -Recurse -Error Action Silent lyC ontinue | Where- Object {$_.Length -gt 100MB} | Sort-O
 nding
```

Chain small cmdlets — the pipeline does the heavy lifting.

Quick Hits

`Set-Ex ecu tio nPolicy Remote Signed -Scope Curren tUser`	unblock scripts
Cmdlets output **objects**, not text	pipe freely
`$_`	current object in the pipeline

When in doubt, pipe to `Get-Member` to see what's inside.

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