

# cmdref.net - Cheat Sheet and Example

cmdref.net is command references/cheat sheets/examples for system engineers.

- [Linux Commands](#)
- [Windows Commands](#)
- [HP-UX Commands](#)
- [Hardware Commands\(Cisco, Junos, F5 etc\)](#)

## Windows Commands Cheat Sheet

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### cmdLauncher

I have developed cmdLauncher.  
cmd Launcher is Input search type launcher  
cmdLauncher is a useful launcher for Microsoft Windows.  
You can easily access the software, file, folder you registerd.

<https://software.oreda.net/cmdlauncher/> [<https://software.oreda.net/cmdlauncher/>]

## Web Site

- [Command-Line Reference - TechNet - Microsoft](#) [<http://technet.microsoft.com/en-us/library/cc754340.aspx>]
- [Download Windows Command Reference](#) [<http://www.microsoft.com/en-us/download/details.aspx?id=2632>]

## Command

### Help

command /?

#### Exaple)

systeminfo /?

robocopy /?

net /?

```
net user /?
shutdown /?
```

## System

Operation	Command
shutdown	<code>shutdown /s /t 10</code> /s = Shutdown the computer. /t xxx = Set the time-out period before shutdown to xxx seconds. <code>shutdown /r /t 10</code> /r = Full shutdown and restart the computer.
Displays environment variables.	<code>set</code> ← cmd <code>Get-ChildItem env:</code> ← powershell <code>echo %Path%</code> ← cmd <code>Get-ChildItem env:Path</code> ← powershell
path displays the current command path.	<code>path</code>
Sets the command path in the PATH environment variable	<code>path %PATH%;C:\test\bin</code>
Displays detailed configuration information about a computer and its operating system	<code>systeminfo</code> <code>systeminfo /s test-server</code> <code>systeminfo /s test-server /u testdomain.local\USERNAME</code>
Displays a list of currently running processes	<code>tasklist</code> <code>tasklist /s SERVER</code> <code>tasklist /s SERVER /u TESTDOMAIN\USER01 /p P@ssw0rd</code>
Change the character code	<code>chcp 437</code> ← English <code>chcp 932</code> ← Japanese

```
C:\>where robocopy <- like which in Linux
C:\Windows\System32\Robocopy.exe
```

## Software

Operation	Command
Creates connections to terminal servers or other remote computers	<code>mstsc</code> <code>mstsc /?</code> ← Displays help at the command prompt. <code>mstsc /admin</code> ← Connects you to a session for administering the server. <code>mstsc /f</code> ← fullscreen <code>mstsc /w:1600 /h:1200</code> <code>mstsc /v:192.168.0.10</code> <code>mstsc /v:192.168.0.10 /w:1600 /h:1200</code>
Start Explorer	<code>explorer</code> <b>explorer .</b> ← start Explorer with current folder
Start Calculator	<code>calc</code>
Microsoft Management Console(mmc)	<code>mmc</code>

## Control panel tool Command

Operation	Command
Network Connection properties administration	<code>ncpa.cpl</code>
Internet Properties control	<code>inetcpl.cpl</code>
Mouse Properties control	<code>main.cpl</code>
Sound Properties control	<code>mmsys.cpl</code>
System Properties control	<code>sysdm.cpl</code>
Display Properties control	<code>desk.cpl</code>
Add/Remove Programs control	<code>appwiz.cpl</code>

## Folder

Operation	Command
Displays the name of the current directory.	<code>cd</code> <code>chdir</code>
Change Drive	<b>c:</b> <b>d:</b> <b>cd /d d:</b>
Changes the current directory.	<code>cd Folder</code> <code>cd %VAGRANT_HOME%</code> ← cmd <code>cd \$env:VAGRANT_HOME</code> ← powershell

Operation	Command
	cd ..
Changes the root directory, the top of the directory hierarchy for a drive.	cd \
	cd %userprofile%
Displays a list of a directory's files and subdirectories.	dir
Displays the directory structure of a path or of the disk	tree
Creates a directory or subdirectory	mkdir DIRECTORY md DIRECTORY
Deletes a directory.	rd DIRECTORY ← empty directory rd Folder1\Folder2 ← Delete only Folder2 rd DIRECTORY /s ← including all files rd DIRECTORY /s /q ← quiet mode

## File

Operation	Command
Displays the contents of a text file.	type FILE more FILE ← Displays one screen of output at a time.
Copies one or more files from one location to another.	copy FILE FOLDER copy /y FILE1 FILE2 ← Suppresses prompting to confirm that you overwrite an existing destination file.
Deletes one or more files.	del FILE del /Q FILE ← /Q : Quiet mode, do not give a Yes/No Prompt before deleting. del /S FILE ← /S Delete from all Subfolders (DELTREE) del /F FILE ← /F : Ignore read-only setting and delete anyway (FORCE) erase FILE
Renames files or directories.	ren SRC DES rename SRC DES
MIRror a directory tree	robocopy SOURCE_FOLDER DESTINATION_FOLDER /mir robocopy "C:\data" "\\192.168.0.10\CS\data" /mir robocopy d: g: /mir <u>robocopy more</u>

## Network

Operation	Command
Verifies IP-level connectivity to another TCP/IP computer	ping HOSTNAME ping IP_ADDRESS ping -t HOST ← continue sending Echo Request messages to the destination until interrupted. ← To interrupt and quit ping, press CTRL+C.
Check Port connection	Test-NetConnection <HOST> -Port <PORT> Test-NetConnection 192.168.0.100 -Port 22
Displays all current TCP/IP network configuration values.	ipconfig ipconfig /all ← Display full configuration information.
Display route details	netstat -rn route print
Add a route	route add 192.168.0.0 mask 255.255.255.0 192.168.10.1 ← network route add 192.168.0.5 mask 255.255.255.255 192.168.100.1 ← host route add -p 192.168.0.0 mask 255.255.255.0 192.168.10.1 ← “-p” Create a persistent route If you want to contain routing after reboot the system, you must add “-p” option.
Delete the route	route delete 192.168.0.0 mask 255.255.0.0 ← network route delete 192.168.20.1 mask 255.255.255.255 ← host
Change th route	route change 157.0.0.0 mask 255.0.0.0 157.55.80.5
Display hostname from IP	nbtstat -a IP_ADDRESS

## DNS

Operation	Command
Displays information that you can use to diagnose <u>DNS</u> infrastructure.	nslookup nslookup IPADDRESS DNSSERVER nslookup HOSTNAME DNSSERVER

Operation	Command
	nslookup -type=soa HOSTNAME nslookup -type=any HOSTNAME DNSSERVER
Flushes and resets the contents of the <u>DNS</u> client resolver cache.	ipconfig /flushdns

## MAC address

Operation	Command
Returns the MAC address	getmac getmac /s srvmain getmac /s srvmain /u maindom\hiropln /p p@ssW23
Displays entries in the ARP cache	arp -a
Deletes an entry in the ARP cache with a specific IP	arp -d arp -d INETADDR

## Port

Operation	Command
Displays active TCP connections, ports	netstat -an ← -a : Displays all active TCP connections and the TCP and UDP ports ← -n : addresses and port numbers are expressed numerically <b>netstat -an  Select-String 80</b> ← Powershell <b>netstat -an  find "80"</b> ← CMD

## User (net command)

Operation	Command
	net help
displays user account information	net user net user USERNAME ← detail net user USERNAME /domain ← Active Directory Example) net user mark /domain ← Active Directory
change Password	net user USER01 PASSWORD
displays the name of the server and the names of local groups on the computer.	net localgroup
	net session
	net accounts
Display Login User and Login Time	query user

## Disk

Operation	Command
	net share
	net use
	#check cmdkey /list #add cmdkey /add 192.168.100.10 /user:xxxxx /pass:xxxxx #delete cmdkey /delete:192.168.100.10

## Time

Operation	Command
Time Configuration	w32tm /query /configuration
List Time Server	w32tm /query /source
list ntp status	w32tm /query /status <b>w32tm /query /status /verbose</b> ← check offset
	w32tm /resync
Restart Windows Time	net stop w32time && net start w32time
check offset	w32tm /stripchart /computer:xx.xx.xx.xx

```
w32tm /monitor /computers:ntp.nict.jp <- check
w32tm /config /manualpeerlist:ntp.nict.jp,0x8 /syncfromflags:manual <- 0x8 is client mode
w32tm /config /update
w32tm /resync
net stop w32time
net start w32time
w32tm /query /status /verbose <- check offset
```

```
Check NTP Registry
>Get-ItemProperty -Path "HKLM:\SYSTEM\CurrentControlSet\Services\w32time\Parameters"

## Enable NTP
>Set-ItemProperty -Path "HKLM:\SYSTEM\CurrentControlSet\Services\w32time\Parameters" -Name "NtpServer" -Value "time.cloudflare.com,0x8"
```

Group Policy

Operation	Command
Check RSoP(Resultant Set of Policy)	rsop rsop.msc
Displays the Resultant Set of Policy (RSoP)	gpresult /? # Displays this help message. gpresult /R # Displays RSoP summary data. gpresult /V # Specifies that verbose information should be displayed. gpresult /Z # Specifies that super-verbose information should be displayed. gpresult /H check.html # gpresult /USER targetusername /V
Display user infomation, Security Group	net user /domain USER net user /domain USER01
Domain Controller Diag	dcdiag
Check Translation Overview	repadmin /replsummary
Check Translation times	repadmin /showrepl
Replication with manual	repadmin /replicate SORCE DEST DC=xx,DC=xxx repadmin /replicate tyo-ad-01 hk-ad-01 DC=example,DC=local

dsquery

Operation	Command
Display user	dsquery user dsquery user -limit 1000 dsquery user ou=Tokyo,dc=example,dc=local dsquery user -disabled
Display Computer	dsquery computer dc=example,dc=local dsquery computer -name PC*
Display Group	dsquery group dc=example,dc=local
Display OU	dsquery ou ou=Tokyo,dc=example,dc=local
Display Domain Controller	dsquery server

```
C:\> rundll32.exe dsquery.dll,OpenQueryWindow
```

Proxy settings of Office authentication and Windows Update

netsh winhttp show proxy	Check the current setting status
netsh winhttp reset proxy	Direct access
netsh winhttp import proxy source=ie	Use the same settings as Internet Explorer
netsh winhttp set proxy proxy-server="x.x.x.x:8080"	

```
netsh winhttp set proxy proxy-server="myProxyServer:8080" bypass-list="<local>;*.microsoft.com;*.example.com"
```

Additional Commands

Commnad	Note
<a href="#">pscp.exe</a>	<a href="http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html">http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html</a> <a href="http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html">[http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html]</a>
<a href="#">psftp.exe</a>	<a href="http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html">http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html</a> <a href="http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html">[http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html]</a>

## Package

Commnad	Note
UnxUtils GNU utilities for Win32	<a href="http://unxutils.sourceforge.net/">http://unxutils.sourceforge.net/</a> <a href="http://unxutils.sourceforge.net/">[http://unxutils.sourceforge.net/]</a> find, date, grep , etc

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## References

- [List of DOS commands \[https://en.wikipedia.org/wiki/List\\_of\\_DOS\\_commands\]](https://en.wikipedia.org/wiki/List_of_DOS_commands)
- [An A-Z Index of the Windows CMD command line \[http://ss64.com/nt/\]](http://ss64.com/nt/)

### My Sites

- [cmdref.net](#) - Cheat Sheet and Example
- [FastHandle](#) - IT Operations Examples
- [OREDA Software](#)
- [EnglishDictation](#)

### SNS

- [GitHub](#)
- [Twitter \(@takaaki\\_jpn\)](#) Taka@Infrastructure Engineer in Japan
- [Twitter \(@engdictation\)](#) EnglishDictation