

Cheat Sheet of MSDOS

DOS Command	Description	Equivalent LINUX Commands (Case sensitive)	Sample Code Snippet
ASSOC	Displays or modifies file extension associations.	N/A	assoc
ATTRIB	Displays or changes file attributes.	chmod	attrib -s -r -h <filename>
BREAK	Sets or clears extended CTRL+C checking.	N/A	BREAK [ON OFF]
BCDEDIT	Sets properties in boot database to control boot loading.	grub*	bcdedit /export <SomeFile>
CACLS	Displays or modifies access control lists (ACLs) of files.	chmod and chown	caccls <SomeDirOrFile> /g <username>:f
CALL	Calls one batch program from another.	exec	call <SomeBatchFile>
CD/CHDIR	Displays the name of or changes the current directory.	cd	cd <SomeDir>
CHCP	Displays or sets the active code page number.	N/A	chcp
CHKDSK	Checks a disk and displays a status report.	fsck	chkdsk <SomeDrive>:
CHKNTFS	Displays or modifies the checking of disk at boot time.	fsck	chkntfs <SomeDrive>: <Parameters>
CLS	Clears the screen.	clear	cls
CMD	Starts a new instance of the Windows command interpreter.	bash/tcsh/zsh/ksh	cmd
COLOR	Sets the default console foreground and background colors.		color A
COMP	Compares the contents of two files or sets of files.	diff	comp <File1> <File2>
COMPACT	Displays or alters the compression of files on NTFS partitions.	N/A	compact
CONVERT	Converts FAT volumes to NTFS. You cannot convert the current drive.	N/A	CONVERT <drive>: /FS:NTFS
COPY	Copies one or more files to another location.	cp	copy <SourceFile> <DestFile>
DATE	Displays or sets the date.	date	date /T
DEL	Deletes one or more files.	rm -iv	del <filename>
DIR	Displays a list of files and subdirectories in a directory.	ls -l	dir <path>
DISKCOMP	Compares the contents of two floppy/removable disks.	N/A	diskcomp a: b:
DISKCOPY	Copies the contents of one floppy disk to another.	N/A	diskcopy a: b:

DISKPART	Displays or configures Disk Partition properties.	fdisk/parted	
DOSKEY	Edits command lines, recalls Windows commands, and create macros.	N/A	DOSKEY ls=dir
DRIVERQUERY	Displays current device driver status and properties.	N/A	driverquery
ECHO	Displays messages, or turns command echoing on or off.	echo	echo %SomeVariable%
ENDLOCAL	Ends localization of environment changes in a batch file.	N/A	endlocal
ERASE	Deletes one or more files.	rm	erase <SomeFile>
EXIT	Quits the CMD.EXE program (command interpreter).	exit	
FC	Compares two files or sets of files, and displays the differences between them.	diff	fc <file1> <file2>
FIND	Searches for a text string in a file or files.	grep	find <SomeToken> <SomeFile>
FOR	Runs a specified command for each file in a set of files.	for/while/foreach	For /f "tokens=2-4 delims=/ " %a in ('date /T') do (set mydate=%b-%a-%c)
FORMAT	Formats a disk for use with Windows.		format <drive>: /Q /FS:NTFS
FSUTIL	Displays or configures the file system properties.		fsutil volume diskfree <SomeDrive>:
FTYPE	Displays or modifies file types used in file extension associations.	N/A	ftype
GOTO	Directs the Windows command interpreter to a labeled line in a batch program.		goto SomeLabel
GPRESULT	Displays Group Policy information for machine or user.	N/A	gpresult /R
GRAFTABL	Enables Windows to display an extended character set in graphics mode.	N/A	graftabl
HELP	Provides Help information for Windows commands.		help
ICACLS	Display, modify, backup, or restore ACLs for files and directories.	chmod and chown	icaccls <SomeFile> /grant <SomeUser>:(D,WDAC)
IF	Performs conditional processing in batch programs.	If	IF EXIST filename (del filename) ELSE (echo filename missing.)

LABEL	Creates, changes, or deletes the volume label of a disk.	N/A	label <drive_letter>: <drive_label>
MD	Creates a directory.	mkdir	md <directory_name>
MKDIR	Creates a directory.	mkdir	mkdir <directory_name>
MKLINK	Creates Symbolic Links and Hard Links	ln	mklink <link_name> <Target_file>
MORE	Displays output one screen at a time.	more	more <file_name>
MOVE	Moves one or more files from one directory to another directory.	mv	move /Y <SourceFile> <DestPath>
NET	Manipulate a windows service	service	net start <service_name>
OPENFILES	Displays files opened by remote users for a file share.	rsync	Openfiles /query /s <HostName> /u <Username> /p <Password>
PATH	Displays or sets a search path for executable files.		path
PAUSE	Suspends processing of a batch file and displays a message.	N/A	pause
PRINT	Prints a text file.	lpr	
PROMPT	Changes the Windows command prompt.		Change the prompt to Cruuent Time: prompt \$T
RECOVER	Recovers readable information from a bad or defective disk.		recover <drive>:[path]filename
REM	Records comments (remarks) in batch files or CONFIG.SYS.	#	rem some comment
REN/RENAME	Renames a file or files.	mv	ren <filename> <new_filename>
REPLACE	Replaces files.	cp -f	replace <SourceFile> <DestPath>
RMDIR/RD	Removes a directory.	rmdir	rd <SomeDirectory>
ROBOCOPY	Advanced utility to copy files and directory trees	rsync	ROBOCOPY \\Computer1\reports \\Computer2\backup *.doc /S
SET	Displays, sets, or removes Windows environment variables.	set	SET variable=value echo %variable%
SETLOCAL	Begins localization of environment changes in a batch file.		
SC	Displays or configures services (background processes).	service	sc start <SomeService>
SCHTASKS	Schedules commands and programs to run on a computer.	crontab	schtasks /create /sc hourly /st <StartTime> /tn <TaskName> /tr <AppName>

SHIFT	Shifts the position of replaceable parameters in batch files.		
SHUTDOWN	Allows proper local or remote shutdown of machine.	shutdown now/init 0	To shutdown: shutdown /s /t 0 To restart: shutdown /r /t 0
SORT	Sorts input.	sort	sort <filename>
START	Starts a separate window to run a specified program or command.		start
SUBST	Associates a path with a drive letter.	mount	subst <NewDrive>: <SomeDrivePath>
SYSTEMINFO	Displays machine specific properties and configuration.	dmidcode	systeminfo
TASKLIST	Displays all currently running tasks including services.	ps -ef	tasklist
TASKKILL	Kill or stop a running process or application.	kill	taskkill /ID <process_id>
TIME	Displays or sets the system time.	date	time /T
TITLE	Sets the window title for a CMD.EXE session.		title <SomeTitle>
TREE	Graphically displays the directory structure of a drive or path.	ls -R	tree <SomeDir>
TYPE	Displays the contents of a text file.	cat	type <Filename>
VER	Displays the Windows version.	uname -a	ver
VERIFY	Tells Windows whether to verify that your files are written correctly to a disk.	N/A	verify [ON OFF]
VOL	Displays a disk volume label and serial number.	vol_id --uuid	vol <somedrive>:
XCOPY	Copies files and directory trees.	cp -R	xcopy <SomeDestDir>
WMIC	Displays Windows Management Instrumentation (WMI) information inside interactive command shell.	N/A	It starts a CLI which accept multiple commands, for help /?

Some Useful Code Blocks

To set a variable from user input	To go back to the drive root
<code>set /p <SomeVariable>=<PromptText></code>	<code>CD\</code>
To read and print a file line by line	To move one level up
<code>FOR /F "tokens=*" %i IN (<FileName>) DO @echo %i</code>	<code>CD..</code>
For fast help	To remove a Directory and Subdirectory
<code><SomeCommand> /?</code>	<code>RD /S <SomeDirectory></code>
To create/trunk and write into a file	To print special characters (>, <, etc)
<code>echo <InputText> > <FileName></code>	Put caret (^) in front of the special character
To append into a file	To format a drive to NTFS
<code>echo <InputText> >> <FileName></code>	<code>format <DriveLetter>: /FS:NTFS</code>
To redirect input from file (Ex. to set date from file)	
<code>date < <FileThatGotDate></code>	

To run FTP scripts

```
ftp -s:<SampleFTPScript> <IPofFTPServer>
```

Sample FTP Script content

```
ftpuser  
ftppass  
SomeFTPCommands
```

Technique to apply sleep (as there is no sleep command)

```
ping <SomeInvalidIP> -n 1 -w <TimeInMilliseconds> > nul
```

To set IP and DNS to Ethernet port (Ex. Interface Name = Local Area Connection)

```
netsh interface ip set address name="Local Area Connection" static <IPAddress> <SubnetMask> <DefaultGateway>  
netsh interface ip set dns "Local Area Connection" static <PrimaryDNS>  
netsh interface ip set wins "Local Area Connection" static <SecondaryDNS>
```

To view IP Configurations

```
ipconfig /all
```

To view all entries of ARP table

```
arp -a
```

To view Network Connections

```
netstat
```

To view routing configurations

```
route print
```

To add a persistent route

```
route add <NetworkAdds> mask <SubnetMask> <GatewayAdds> -p
```