

Windows Command Guide 2008

Version 2.1 (Final)

No great discovery was ever made without a bold guess. -Isaac Newton

If you want something then don't guess or wait, just discover it. If on first instance you don't succeed then try till you get success. - bcdalai

Welcome to the "**Windows Command Guide 2008**". In this guide you will find all types of windows commands. The author tried to include all types of possible commands; those are available on a Windows OS. **Always check my website for latest version of this guide.** For more information visit my website.

About this document:

As every Windows user knows what a command is, so there is no need for describing it in details. This guide contains more than **360** Run commands and more than **170** additional Windows commands. This guide contains approx. **800** commands in various categories. This is very useful for laptop users, because they use **Touchpad** rather external mouse. The objective of this guide to know more about windows commands and to speed up the administrative tasks.

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The author **bcdalai** is a hardcore computer troubleshooter, reviewer and tester. He is a freelancer of solving software problems and providing free tech. support in the community. He is always ready to hear from you. Please feel free to visit: <http://bcdalai.blogspot.com>

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Version 2.1:

Revision: **120+** Run Commands, **55+** Rundll32 Commands and **75+** Environment Variables, **150+** Windows XP and Vista Command-line tools. Language Corrected.

Updated: **Windows XP SP3**, **Windows Vista SP1** and **Windows Server 2008** commands.

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Thanks:

I'm greatly thankful to those readers for reading and using this guide.

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CHAPTER - 1

System Run Commands

Table-1

[**Note:** More than 360 Run Commands and Tips, Applicable for Windows 2000, XP & Server 2003 or later. To open "Run" dialog box press the Windows logo button and then press **R**, or go to Start menu and click **Run**.]

Sl.	Applications	Commands
001	Accessibility Controls	access.cpl
002	Accessibility Wizard	accwiz
003	Add Hardware Wizard	hdwwiz.cpl
004	Add/Remove Programs	appwiz.cpl
005	Administrative Tools	control admintools
006	Automatic Updates	wuaucl.cpl
007	Bluetooth Transfer Wizard	fsquirt
008	Calculator	calc
009	Certificate Manager	certmgr.msc
010	Character Map	charmap
011	Check Disk Utility	chkdsk
012	Clipboard Viewer	clipbrd
013	Command Prompt	cmd
014	Component Services (DCOM/COM+ Configuration)	dcomcnfg
015	Computer Management	compmgmt.msc
016	Control Panel	control
017	Date and Time Properties	timedate.cpl
018	DDE Shares	ddeshare
019	Device Manager	devmgmt.msc
020	DirectX Diagnostic Tool	dxdiag
021	Disk Cleanup Utility	cleanmgr
022	Disk Defragment	dfrg.msc
023	Disk Management	diskmgmt.msc
024	Disk Partition Manager	diskpart
025	Display Properties	control desktop
026	Display Properties	desk.cpl
027	Display Properties (Appearance tab pre-selected)	control color
028	Dr. Watson System Troubleshooting Utility (16-bit)	drwatson
029	Dr. Watson System Troubleshooting Utility (32-bit)	drwtsn32
030	Driver Verifier Utility	verifier
031	DVD Placeholder Utility (play DVD through Media Player)	dvdplay
032	Event Viewer	eventvwr
033	Event Viewer	eventvwr.msc
034	File Signature Verification Tool	sigverif
035	Files and Setting Transfer Wizard	migwiz
036	Findfast	findfast.cpl
037	Folders Properties	control folders
038	Fonts Folder	control fonts
039	Fonts Folder	fonts
040	Game Controllers	joy.cpl

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041	Game: Free Cell	freecell
042	Game: Hearts Card Game	mshearts
043	Game: Internet Backgammon	bckgzm
044	Game: Internet Checkers	chkrzm
045	Game: Internet Hearts	hrtzzm
046	Game: Internet Reversi	rvsezm
047	Game: Internet Spades	shvlzm
048	Game: Minesweeper	winmine
049	Game: Pinball	pinball
050	Game: Solitaire	sol
051	Game: Spider Solitaire	spider
052	Group Policy Object Editor	gpedit.msc
053	Help and Support Center	helpctr
054	HyperTerminal	hypertrm
055	Iexpress Wizard (Packaging Tool)	iexpress
056	Indexing Service	ciadv.msc
057	Internet Connection Wizard	icwconn1
058	Internet Explorer	iexplore
059	Internet Properties	inetcpl.cpl
060	Internet Setup Wizard	inetwiz
061	Keyboard Properties	control keyboard
062	Local Security Settings	secpol.msc
063	Local Users and Groups	lusrmgr.msc
064	Log Off	logoff
065	Microsoft Chat	winchat
066	Microsoft Management Console	mmc
067	Microsoft Media Player (for audio only)	mplay32
068	Microsoft Movie Maker	moviemk
069	Microsoft Paint	mspaint
070	Microsoft Paint	pbrush
071	Microsoft Program Manager	progman
072	Microsoft Synchronization Tool	mobsync
073	Mouse Properties	control mouse
074	Mouse Properties	main.cpl
075	MS-DOS Editor (Editing files in DOS mode)	edit
076	Network Connections	nca.cpl
077	Network Connections	control netconnections
078	Network Access Protection Client UI	napstat
079	Network Setup Wizard	netsetup.cpl
080	Notepad	notepad
081	Object Packager	packager
082	On Screen Keyboard	osk
083	Outlook Express	msimn
084	Password Properties	password.cpl
085	Performance Monitor	perfmon
086	Performance Monitor	perfmon.msc
087	Phone and Modem Options	telephon.cpl
088	Phone Dialer	dialer
089	Power Configuration	powercfg.cpl
090	Printers and Faxes	control printers
091	Printers Folder	printers
092	Private Character Editor	eudcedit
093	Regional Settings	intl.cpl
094	Registry Editor	regedit

095	Registry Editor	regedt32
096	Remote Access Phonebook	rasphone
097	Remote Assistance	rcimlby -LaunchRA
098	Remote Desktop	mstsc
099	Removable Storage	ntmsmgr.msc
100	Removable Storage Operator Requests	ntmsoprq.msc
101	Resultant Set of Policy	rsop.msc
102	Scanners and Cameras	sticpl.cpl
103	Scheduled Tasks	control schedtasks
104	Security Center	wscui.cpl
105	Services	services.msc
106	Shared Folders	fsmgmt.msc
107	Shutdown Windows (more at Appendix A)	shutdown -s -f -t 00
108	Sound Recorder	sndrec32
109	Sounds and Audio	mmsys.cpl
110	SQL Client Configuration	cliconfg
111	System Configuration Editor	sysedit
112	System Configuration Utility	msconfig
113	System File Checker (Purge File Cache)	sfc /purgecache
114	System File Checker (Return to Default Setting)	sfc /revert
115	System File Checker (Scan Immediately)	sfc /scannow
116	System File Checker (Scan On Every Boot)	sfc /scanboot
117	System File Checker (Scan Once At Next Boot)	sfc /scanonce
118	System File Checker (Set Cache Size to x)	sfc /cachesize=x
119	System Information	msinfo32
120	System Information	winmsd
121	System Properties	sysdm.cpl
122	Task Manager	taskmgr
123	Telnet Client	telnet
124	Telnet Server Admin	tlntadm
125	User Accounts 2	control userpasswords2
126	User Accounts Management	nusrmgr.cpl
127	Utility Manager	utilman
128	Windows Product Activation status	oobe/msoobe /a
129	Windows Address Book	wab
130	Windows Address Book Import Utility	wabmig
131	Windows Backup Utility	ntbackup
132	Windows Diagnose	winmsd
133	Windows Explorer	explorer
134	Windows Firewall	firewall.cpl
135	Windows Magnifier	magnify
136	Windows Management Infrastructure	wmimgmt.msc
137	Windows Media Player	wmplayer
138	Windows Media Player 6.4.09 (old version)	mplayer2
139	Windows Messenger	msmsgs
140	Windows NetMeeting	conf
141	Windows Picture Import Wizard (require a camera)	wiaacmgr
142	Windows System Security Tool	syskey
143	Windows Update Launches (Windows Update website)	wupdmgr
144	Windows Version Information	winver
145	Windows WordPad	wordpad
146	Windows Write	write
147	Windows XP Registration Wizard	regwiz /r
148	Windows XP Tour Wizard	tourstart

ADDENDUMS

Display of System Property with specific tab open:

<u>Tabs:</u>	<u>Commands:</u>
General	control sysdm.cpl, system,0
Computer Name	control sysdm.cpl, system,1
Hardware	control sysdm.cpl, system,2
Advanced	control sysdm.cpl, system,3
System Restore	control sysdm.cpl, system,4
Automatic Updates	control sysdm.cpl, system,5
Remote	control sysdm.cpl, system,6

Display of Add or Remove Programs with specific tab open:

Change or Remove Programs:	control appwiz.cpl,,0
Add new Programs (from CD-ROM/Floppy)	control appwiz.cpl,,1
Add/Remove Windows Components	control appwiz.cpl,,2
Set Program Access and Defaults	control appwiz.cpl,,3

Running Disk Cleanup for all drives:

Changing Settings: *cleanmgr /sageset:99*

Automatic Cleanup: *cleanmgr /sagerun:99*

Warning: Always check settings before "Automatic Cleanup". Always uncheck the option "Catalogue files for the Content Indexer" for safety, because sometimes this deletes huge files & data from a drive and create problems, if some settings are changed in registry by viruses and Spywares. This is an unexceptional problem found in Windows XP based systems.

Uninstalling Service Packs: Run commands:

spuninst -u

Network Run Commands

Table-2

[Note: Applicable for Windows 2000, Windows Server 2003, Windows Server 2008 and later versions of Windows Server OS. Also applicable for Windows XP and Windows Vista, but depends on the available features on that particular OS.]

Sl.	Applications	Commands
001	Active Directory Domains and Trusts	domain.msc
002	Active Directory Sites and Services	dssite.msc
003	Active Directory Users and Computers	dsa.msc
004	Certification Authority	certsrv.msc
005	Cluster Administrator	cluadmin
006	Component Services	dcomcnfg
007	Computer Management	compmgmt.msc
008	Configure Your Server Wizard	cys
009	Connection Manager Administration Kit	cmak
010	ODBC Data Source Administrator	odbcad32
011	ODBC Data Source Administrator	odbccp32.cpl
012	DHCP	dhcpcmgmt.msc
013	Distributed File System	dfsgui.msc
014	DNS	dnsmgmt.msc
015	Event Viewer	eventvwr.msc
016	Internet Authentication Service	ias.msc
017	Internet Information Services (IIS) Manager	iis.msc
018	IP Config. (Delete DNS Cache Contents)	ipconfig /flushdns
019	IP Config. (Display Connection Configuration)	ipconfig /all
020	IP Config. (Display DHCP Class ID)	ipconfig /showclassid

021	IP Config. (Display DNS Cache Contents)	ipconfig /displaydns
022	IP Config. (Modifies DHCP Class ID)	ipconfig /setclassid
023	IP Config. (Refreshes DHCP & Re-Registers DNS)	ipconfig /registerdns
024	IP Config. (Release All Connections)	ipconfig /release
025	IP Config. (Renew All Connections)	ipconfig /renew
026	Licensing	llsmgr
027	Network Load Balancing Manager	nlbmgr
028	Network Monitor	netmon/netmon
029	Performance	perfmon.msc
030	POP3 Service	p3server.msc
031	Remote Desktops	tsmmc.msc
032	Remote Storage	rsadmin.msc
033	Routing and Remote Access	rrasmgmt.msc
034	Security Configuration Wizard	scw
035	Services	services.msc
036	Terminal Server Licensing	licmgr
037	Terminal Services Configuration	tscm.msc
038	Terminal Services Manager	tsadmin
039	Web Interface for Remote Administration	serverappliance/securelaunch.vbs
040	Windows Deployment Services	wdsmgmt.msc
041	Windows Deployment Services Legacy	risetup
042	WINS	winsmgmt.msc

Run Commands in Windows Vista

Table-3

Sl.	Applications	Commands
001	Accessibility Settings	sethc
002	Add Hardware Wizard	hdwwiz
003	Advanced User Accounts	netplwiz
004	Authorization Manager	azman.msc
005	Backup and Restore Center	control /name microsoft.backupandrestorecenter
006	Bitlocker Notifier	fvenotify
007	Bitlocker Wizard	bitlockerwizard
008	Color Management	colorcpl
009	Computer Management Launcher	compmgmtlauncher
010	Connect to a Network Projector	netproj
011	Credential Backup and Restore Wizard	credwiz
012	Default Programs	control /name microsoft.defaultprograms
013	Disk Defragment User Interface	dfrgui
014	Ditilizer Calibration Tool	tabcal
015	DPI Scaling	dpiscaling
016	Ease of Access Center	control /name microsoft.easeofaccesscenter
017	Encrypting File System	rekeywiz
018	Fax Cover Sheet Editor	fxscover
019	Firewall Control Panel	firewallcontrolpanel
020	Firewall Settings	firewallsettings
021	Group Policy Management Console	gpmmc.msc
022	IIS Manager (IIS version 6.0)	IinetMgr6
023	IIS Manager (IIS version 7.0)	IinetMgr
024	Language Pack Installer	lpksetup
025	Microsoft iSCSI Initiator	iscsicpl

026	Microsoft Support Diagnostic Tool	msdt
027	Network File System (NFS)	nfsmgmt.msc
028	People Near Me	p2phost
029	Presentation Settings (on Mobile PC)	presentationsettings
030	Print Management	printmanagement.msc
031	Printer Migration	printbrmui
032	Problem Reports and Solutions	wercon
033	Programs and Features	appwiz.cpl
034	Snipping Tool	snippingtool
035	Sound Recorder	soundrecorder
036	Sound Volume	sndvol
037	Sticky Notes	stikynot
038	Sync Center	mobsync
039	Tablet PC Input Panel	tabtip
040	Trusted Path Module (TPM)	tpm.msc
041	Trusted Platform Module	tpmunit
042	Welcome Center	control /name microsoft.welcomecenter
043	Windows Activation Client	slui
044	Windows Backup Utility	sdclt
045	Windows Calendar	wincal
046	Windows DVD Maker	dvdmaker
047	Windows Easy Transfer	migwiz
048	Windows Fax and Scan	wfs
049	Windows Features	optionalfeatures
050	Windows Journal	journal
051	Windows Mail	winmail
052	Windows Mobility Center (on Mobile PC)	mblctr
053	Windows Remote Assistance	msra
054	Windows Sidebar	sidebar
055	Windows Update Application Launcher	wuapp

ADDENDUMS

Display of Advanced System Property with specific tab open:

Tabs:

Advanced System Settings
 Computer Performance Settings
 Computer Settings
 Data Execution Prevention Settings
 Hardware Settings
 System Protection Settings
 System Remote Settings

Commands:

SystemPropertiesAdvanced
 SystemPropertiesPerformance
 SystemPropertiesComputerName
 SystemPropertiesDataExecutionPrevention
 SystemPropertiesHardware
 SystemPropertiesProtection
 SystemPropertiesRemote

Run Commands in Windows Server 2008

Table-4

Sl.	Applications	Commands
001	Server Manager	compmgmtlauncher
002	Component Services	comexp.msc
003	Local Security Policy	secpol.msc
004	Windows Memory Diagnostic Tool	mbsched
005	Reliability and Performance Monitor	perfmon.msc
006	Security Configuration Wizard	scw
007	Security Configuration Wizard viewer	scwviewer

008	Share and Storage Management	storagemgmt.msc
009	Storage Explorer	storexpl.msc
010	Task Scheduler	taskschd.msc
011	Windows Firewall with Advanced Security	wf.msc
012	Windows Server Backup	wbadmin.msc
013	Remote Desktop	tsmmc.msc
014	Terminal Services Configuration	tsconfig.msc
015	Terminal Service Manager	tsadmin.msc
016	Problem Reports and Solutions	wercon

Run Commands for Third Party Programs

Table-5

[Note: The commands in this table will work only if that particular software/application is installed on your computer.]

Sl.	Applications	Commands
001	7-Zip	7zfm
002	ACDSee 10 Photo Manager	acdsee10
003	ACDSee Photo Editor 4.0	acdseephotoeditor4
004	ACDSee Pro 2.0	acdseepr2
005	FotoSlate 4.0	fotoslate4
006	Acrobat Distiller	acrodist
007	Acrobat Reader	acrord32
008	Adobe Acrobat	acrobat
009	Adobe Bridge	bridge
010	Adobe FlashPaper	flashprinter
011	Adobe ImageReady	imagerady
012	Adobe LiveCycle Designer	formdesigner
013	Adobe Photoshop	photoshop
014	Alcohol 120% or Alcohol 50%	alcohol
015	Apple iTunes Player	itunes
016	Apple QuickTime Control Panel	quicktime.cpl
017	Apple QuickTime Player	quicktimeplayer
018	Babylon Dictionary	babylon
019	BitComet	bitcomet
020	BS Player Pro	bsplayer
021	Change Analysis Diagnostic (<i>For Windows XP</i>)	statechangeddiag
022	Copernic Desktop Search	desktopsearch
023	Cyberlink Power2Go	power2go
024	CyberLink PowerDVD	powerdvd
025	DirectX Control Panel	directx.cpl
026	Eudora Mail Client	eudora
027	FastStone Capture	fscapture
028	Firefox	firefox
029	GetRight Download Manager	getright
030	Intel Graphics Controller Properties	igfxcfg
031	InterVideo WinDVD	windvd
032	IsoBuster	Isobuster
033	Java Control Panel	javacpl.cpl
034	Macromedia Dreamweaver	dreamweaver
035	Macromedia Fireworks	fireworks
036	Malicious Software Removal Tool	mrt

037	Media Player Classic	mplayerc
038	Microsoft Access	msaccess
039	Microsoft ActiveSync	wcesmgr
040	Microsoft Excel	excel
041	Microsoft FrontPage	frontpg
042	Microsoft InfoPath	infopath
043	Microsoft iSCSI Initiator	iscsicpl.cpl
044	Microsoft Office Groove	groove
045	Microsoft Office Document Imaging	mspview
046	Microsoft Office Picture Manager	ois
047	Microsoft OneNote	onenote
048	Microsoft Outlook	outlook
049	Microsoft PowerPoint	powerpnt
050	Microsoft Publisher	mspub
051	Microsoft Streets and Trips	streets
052	Microsoft Word	winword
053	Nero Burning ROM	nero
054	Nero Express	nero /w
055	Nero MediaHome	neromediahome
056	Nero PhotoSnap Viewer	photosnapviewer
057	Nero ShowTime	showtime
058	Norton AntiVirus	navw32
059	Norton AntiVirus 2007	uiStub
060	Norton AntiVirus Quarantine Console	qconsole *
061	Nview Desktop Manager	nvtuicpl.cpl
062	OpenOffice.org	soffice
063	OpenOffice.org Base (<i>Database=MS Access</i>)	sbase
064	OpenOffice.org Calc (<i>Calculations=MS Excel</i>)	scalac
065	OpenOffice.org Draw (<i>Drawing</i>)	sdraw
066	OpenOffice.org Impress (<i>Presentation=MS PowerPoint</i>)	simpres
067	OpenOffice.org Math (<i>Math formula</i>)	smath
068	OpenOffice.org Writer (<i>Word Processor=MS Word</i>)	swriter
069	Opens AC3 Filter	ac3filter.cpl
070	RealPlayer	realplay
071	Tweak UI	tweakui
072	Winamp	winamp
073	Windows Phone Book Administrator	pbadm
074	Windows PowerToy Calculator	powercalc
075	WinRAR	winrar
076	WinZip	winzip
077	WinZip Self-Extractor	wzipse32
078	Wordweb (Dictionary)	rundll32 web32.dll,showrundll
079	XPS Viewer EP (more at Appendix A)	xpsrchvw
080	X-Setup Pro	xqdcxspstart

[Notes: *Command not available in Norton Antivirus 2007 or later versions.]

Unique Commands

Current User Location .
 My Computer ...
 Parent Directory ..
 System Partition \

Commands from Class IDs (only through Run dialog box):

My Computer :::{20D04FE0-3AEA-1069-A2D8-08002B30309D}
 My Network Places :::{208D2C60-3AEA-1069-A2D7-08002B30309D}
 Printer and Faxes :::{2227A280-3AEA-1069-A2DE-08002B30309D}
 Recycle Bin :::{645FF040-5081-101B-9F08-00AA002F954E}

CHAPTER - 2

Windows XP Command-Line Tools

Table-6

[Note: Windows XP includes a number of command-line tools to perform various tasks. This table lists more than **115** command-line tools and its descriptions. To know more about use /? Switch after each command in the “**Command Prompt**”.]

Sl.	Tools	Descriptions
001	append	Allows programs to open data files in specified directories as if they were in the current directory.
002	arp	Displays and modifies the IP-to-Physical address translation tables used by address resolution protocol (ARP).
003	at	The AT command schedules commands and programs to run on a computer at a specified time and date. The Schedule service must be running to use the AT command.
004	atmadm	Windows ATM Call Manager Utility
005	attrib	Attribute Utility. Displays or changes file attributes.
006	auditusr	Audit User Program. Sets per user auditing policy.
007	bootcfg	Boot Config Tool. This command line tool can be used to configure, query, change or delete the boot entry settings in the BOOT.INI file.
008	blastcln	Microsoft Blaster/Nachi removal tool.
009	cacls	Control ACLs Program. Displays or modifies access control lists of files.
010	chkdsk	Check Disk Utility. Checks a disk and displays a status report.
011	chkntfs	NTFS Volume Maintenance Utility. Displays or modifies the checking of disk at boot time.
012	cipher	File Encryption Utility. Displays or alters the encryption of directories [files] on NTFS partitions.
013	comp	File Compare Utility. Compares the contents of two files or sets of files.
014	compact	File Compress Utility. Displays or alters the compression of files on NTFS partitions.
015	convert	File System Conversion Utility. Converts FAT volumes to NTFS
016	cscript	Microsoft Console Based Script Host. Microsoft Windows Script Host
017	defrag	Disk Defragmenter Module.
018	diantz	Microsoft Cabinet Maker
019	diskpart	Diskpart Application
020	diskperf	Disk Performance Configuration Utility
021	doskey	Keyboard History Utility. Edits command lines, recalls Windows XP commands and creates macros.
022	driverquery	Driver Query. Enables an administrator to enumerate and display the list of installed device drivers as well as their properties.
023	edlin	Edlin. A line-oriented text editor.
024	esentutil	Server Database Storage Utilities. Maintenance utilities for Microsoft Windows databases.
025	eventcreate	Event Create. This command line tool enables an administrator to create a custom event ID and message in a specified event log.

026	eventtriggers	Event Triggers. This command-line tool enables an administrator to display and configure "Event Triggers" on local or remote system.
027	exe2bin	Converts .EXE (executable) files to binary format.
028	expand	LZ Expansion Utility. Microsoft File Expansion Utility. Expands one or more compressed files.
029	fc	DOS 5 File Compare Utility. Compares two files or sets of files and displays the differences between them.
030	find	Searches for a text string in a file or files. If a path is not specified, FIND searches the text typed at the prompt or piped from another command.
031	findstr	Searches for strings in files.
032	finger	TCPIP Finger Command. Displays information about a user on a specified system running the Finger service. Output varies based on the remote system.
033	fltmc	Filter Manager Control Program.
034	forcedos	Force DOS Execute Utility
035	fsutil	File system management utility.
036	ftp	File Transfer Program.
037	getmac	Get MAC Address. This command line tool enables an administrator to display the MAC address for one or more network adapters on a system.
038	gpresult	Query RSOP Data. Group Policy Result tool.
039	gpupdate	Microsoft Group Policy Refresh Utility. Group Policy Refresh Utility. Refreshes Group Policies settings.
040	help	Command Line Help Utility for Windows XP commands.
041	ipconfig	IP Configuration Utility.
042	ipsec6	IPv6 Security Configuration Utility.
043	ipv6	IPv6 Configuration Utility.
044	ipxroute	NWLink IPX Routing and Source Routing Control Program.
045	label	Disk Label Utility. Creates, changes, or deletes the volume label of a disk.
046	lodctr	Updates Performance Monitor counter names and explain text for an extensible counter.
047	logman	Logman manages the "Performance Logs and Alerts" service for creating and managing Event Trace Session logs and Performance logs.
048	logoff	Session Logoff Utility
049	lpd	TCP/IP Lpq Command. Displays the state of a remote lpd queue.
050	lpr	TCP/IP Lpr Command. Sends a print job to a network printer.
051	makecab	Microsoft Cabinet Maker.
052	mmcperf	MMC Performance Tool
053	mountvol	Mount Volume Utility. Creates, deletes, or lists a volume mount point.
054	mqbkup	Windows NT, Microsoft Message Queue (MSMQ) Backup/Restore Utility.
055	mrinfo	Multicast Information
056	msg	Message Utility. Send a message to a user.
057	nbtstat	TCP/IP NetBios Information. Displays protocol statistics and current TCP/IP connections using NBT (NetBIOS over TCP/IP).
058	net	Net Command.
059	netsh	Network Shell Command
060	netstat	TCP/IP Netstat Command. Displays protocol statistics and current TCP/IP network connections.
061	nlsfunc	Loads country-specific information.
062	openfiles	Enables an administrator to list or disconnect files and folders that have been opened on a system.
063	pathping	TCP/IP PathPing Command.
064	ping	TCP/IP Ping Command
065	ping6	IPv6 Ping Command
066	powercfg	Power Settings Command-Line Tool. This command line tool enables an

		administrator to control the power settings on a system.
067	print	Prints a text file.
068	proxycfg	Microsoft WinHTTP Default Proxy Configuration Tool
069	qappsrv	Query Terminal Server Utility. Displays the available application terminal servers on the network.
070	qprocess	Query Process Utility. Displays information about processes.
071	qwinsta	Display information about Terminal Sessions.
072	rasdial	Remote Access Client Side Command Line Dial UI
073	rcp	Copies files to and from computer running the RCP service.
074	recover	Recover Files Utility. Recovers readable information from a bad or defective disk.
075	reg	Registry Console Tool. Console Registry Tool for Windows
076	regsvr32	Microsoft Register Server. This command-line tool registers .dll files as command components in the registry.
077	regwiz	Windows XP Registration Wizard. Use this tool to register windows with /r switch.
078	relog	Relog creates new performance logs from data in existing performance logs by changing the sampling rate and/or converting the file format. Supports all performance log formats, including Windows NT 4.0 compressed logs.
079	replace	Replace File Utility. Replaces files
080	reset	Terminal Services Reset Utility
081	rexec	TCP/IP Remote Exec Command. Runs commands on remote hosts running the REXEC service. Rexec authenticates the user name on the remote host before executing the specified command.
082	route	Manipulates network routing tables.
083	rsm	Removable Storage Manager Command Line Interface
084	runas	Run As Utility
085	rwinsta	Reset Session Utility. Reset the session subsystem hardware and software to known initial values.
086	sc	A tool to aid in developing services for Windows NT. SC is a command line program used for communicating with the NT Service Controller and services.
087	schtasks	Schedule Tasks. Enables an administrator to create, delete, query, change, run and end scheduled tasks on a local or remote system. Replaces at.exe.
088	secedit	Windows Security Configuration Editor Command Tool.
089	setver	Sets the version number that MS-DOS report to a program.
090	sfc	Windows XP Windows File Checker. Scans all protected system files and replaces incorrect versions with correct Microsoft versions.
091	shadow	Monitor another Terminal Services session.
092	shutdown	Windows Remote Shutdown Tool.
093	sort	Sort Utility
094	subst	Associates a path with a drive letter.
095	systeminfo	System Information. This command line tool enables an administrator to query for basic system configuration information.
096	taskkill	Kill Process. This command line tool can be used to end one or more processes. Processes can be killed by the process id or image name.
097	tasklist	This command line tool displays a list of application(s) and associated task(s)/process(es) currently running on either a local or remote system.
098	telnet	Microsoft Telnet Client
099	tftp	Trivial File Transfer Protocol App. Transfers files to and from a remote computer running the TFTP service.
100	tlntadm	Telnet Administration
101	tracert	Event Trace Report Tool. Tracerpt processes binary Event Trace Session log files or real-time streams from instrumented Event Trace providers and

		creates a report or a text (CSV) file describing the events generated.
102	tracert	TCP/IP Traceroute Command
103	tracert6	IPv6 Traceroute Command
104	tscon	Session Connection Utility. Attaches a user session to a terminal session.
105	tsdiscon	Session Disconnection Utility. Disconnects a terminal session.
106	tskill	Terminal Services End Process Utility. Ends a process.
107	tsshutdown	System Shutdown Utility. Shut down a server in a controlled manner.
108	typeperf	Command line performance monitor. Typeperf writes performance data to the command window or to a log file. To stop Typeperf, press CTRL+C.
109	tzchange	Timezone change tool. A command Line utility to make timezone changes.
110	unlodctr	Unload PerfMon Counters. Removes counter names and explain text for the specified extensible counter.
111	vssadmin	Command Line Interface for Microsoft Volume Shadow Copy Service.
112	w32tm	Windows Time Service Diagnostic Tool
113	winmsd	System Information. Replaced by msinfo32.exe
114	winver	Windows Version Checking Tool.
115	xcopy	Copies files and directory trees.

Windows Vista Command-Line Tools

Table-7

[Note: This table includes some new command-line tools that are available in Windows Vista]

Sl.	Tools	Descriptions
001	auditpol	Modify audit polices
002	bcdedit	Edit the Boot Configuration Data Store
003	bitsadmin	BITS administration utility
004	change	Change terminal server settings for logons, COM port mappings and install mode
005	chglogon	Enable or disable session logons
006	chgport	List or change COM port mappings for DOS application compatibility
007	chgusr	Change install mode
008	choice	Allow users to select one item from a list of choices and return the index of the selected choice
009	clip	Redirect the output of command-line tools to the Windows Clipboard
010	cmdkey	Create, display, and delete stored user names and passwords
011	diskraid	Launch the diskraid application
012	dispdia	Display diagnostics information
013	forfiles	Select a file (or files) and execute a command on that file
014	icacls	Display or modify access control lists (ACLs) of files; an updated version of cacls
015	iscsici	The Microsoft iSCSI Initiator
016	muiunattend	The MUI Unattend Action
017	netcfg	The WinPE Network Installer
018	ocsetup	The Windows Optional Component Setup
019	pkgmgr	The Windows Package Manager
020	pnpunattend	Used for unattended online driver installation
021	pnputil	The Microsoft Plug and Play (PnP) Utility
022	quser	Display information about users logged on to the system
023	robocopy	The Robust File Copy for Windows tool
024	rpcping	Ping a server using Remote Procedure Call (RPC)
025	setx	Create or modify environment variables in the user or system environment
026	sxstrace	The WinSxs tracing utility

027	takeown	Recover access to a file that was denied by reassigning file ownership
028	timeout	Accept a timeout parameter to wait for the specified time period or until any key is pressed
029	tracert	The TraceRpt tool
030	waitfor	Send or wait for a signal on a system
031	wbadmin	Start the backup tool
032	wceutil	The Windows Event Collector utility
033	wevtutil	The Windows Event command-line utility
034	where	Display the location of files that match the search pattern
035	whoami	Retrieve user name and group information, along with the respective security identifiers (SIDs), privileges, logon identifier (logon ID) for the current user (access token) on the local system
036	winrm	The Windows Remote Management tool
037	winrs	The Windows Remote Shell tool
038	winsat	The Windows System Assessment tool

Command-Cum-Shortcuts

Locking System:

%WinDir%\system32\rundll32 user32.dll, LockWorkStation

Hibernate System:

%WinDir%\System32\rundll32 PowrProf.dll, SetSuspendState

Note: Hibernate option must be enabled in the "Power Options" from Control Panel. Otherwise the system will go to standby mode.

Shutdown System:

Abort Shutdown- *%SystemRoot%\System32\shutdown -a*
Log Off- *%SystemRoot%\System32\shutdown -s -t 00*
Restart- *%SystemRoot%\System32\shutdown -r -f -t 00*
Shutdown- *%SystemRoot%\System32\shutdown -s -f -t 00*

Note: Replace 00 preferably with any two digit number.

Add or Remove Programs with specific tab:

Change or Remove Programs: *%SystemRoot%\system32\control.exe appwiz.cpl,,0*
Add New Programs (CD-ROM/Floppy): *%SystemRoot%\system32\control.exe appwiz.cpl,,1*
Add/Remove Windows Components: *%SystemRoot%\system32\control.exe appwiz.cpl,,2*
Set Program Access and Defaults: *%SystemRoot%\system32\control.exe appwiz.cpl,,3*

Device Manager:

%SystemRoot%\System32\mmc %SystemRoot%\system32\devmgmt.msc

Computer Management:

%WinDir%\system32\mmc /s %WinDir%\system32\compmgmt.msc

IP Configuration:

%SystemRoot%\system32\cmd /k %SystemRoot%\system32\ipconfig.exe /all

Microsoft Update:

%SystemRoot%\system32\rundll32 %SystemRoot%\system32\muweb.dll,LaunchMUSite

Hidden Rundll32 Commands

These are the commands based on the rundll32 file, which windows used to open or run the specific command to work. Following are some of them:

For Windows 2000/XP/2003

Add/Remove Programs: (Change or Remove Programs)

RunDll32 shell32.dll,Control_RunDLL appwiz.cpl,,0

Add/Remove Programs: (Add New Programs)

RunDll32 shell32.dll,Control_RunDLL appwiz.cpl,,1

Add/Remove Programs: (Add/Remove Windows Components)

RunDll32 shell32.dll,Control_RunDLL appwiz.cpl,,2

Add/Remove Programs: (Set Programs Access and Defaults)

RunDll32 shell32.dll,Control_RunDLL appwiz.cpl,,3

Control Panel

RunDll32 shell32.dll,Control_RunDLL

Device Manager

RunDll32 devmgr.dll DeviceManager_Execute

Hibernate

RunDll32 powrprof.dll,SetSuspendState

Lock Screen

RunDll32 user32.dll,LockWorkStation

Mouse Properties Dialog Box: Buttons tab

Rundll32 Shell32.dll,Control_RunDLL main.cpl @0,0

Mouse Properties Dialog Box: Pointers tab

Rundll32 Shell32.dll,Control_RunDLL main.cpl @0,1

Mouse Properties Dialog Box: Pointers Options tab

Rundll32 Shell32.dll,Control_RunDLL main.cpl @0,2

Mouse Properties Dialog Box: Wheel tab

Rundll32 Shell32.dll,Control_RunDLL main.cpl @0,3

Mouse Properties Dialog Box: Hardware tab

Rundll32 Shell32.dll,Control_RunDLL main.cpl @0,4

Network Connections

RunDll32 shell32.dll,Control_RunDLL ncpa.cpl

Power Options

RunDll32 Shell32.dll,Control_RunDLL powercfg.cpl

Printer and Faxes folder

Rundll32 Shell32.dll,SHHelpShortcuts_RunDLL PrintersFolder

Regional and Language Options: Regional Options

Rundll32 Shell32.dll,Control_RunDLL Intl.cpl,,0

Regional and Language Options: Languages

Rundll32 Shell32.dll,Control_RunDLL Intl.cpl,,1

Regional and Language Options: Advanced

Rundll32 Shell32.dll,Control_RunDLL Intl.cpl,,2

Sound and Audio Device Properties: Volume tab

Rundll32 Shell32.dll,Control_RunDLL Mmsys.cpl,,0

Sound and Audio Device Properties: Sounds tab

Rundll32 Shell32.dll,Control_RunDLL Mmsys.cpl,,1

Sound and Audio Device Properties: Audio tab

Rundll32 Shell32.dll,Control_RunDLL Mmsys.cpl,,2

Sound and Audio Device Properties: Voice tab

Rundll32 Shell32.dll,Control_RunDLL Mmsys.cpl,,3

Sound and Audio Device Properties: Hardware tab

Rundll32 Shell32.dll,Control_RunDLL Mmsys.cpl,,4

System Properties: General tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl

System Properties: Computer Name tab

Rundll32 Shell32.dll,Control_RunDLL Sysdm.cpl,,1

System Properties: Hardware tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,2

System Properties: Advanced tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,3

System Properties: System Restore tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,4

System Properties: Automatic Updates tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,5

System Properties: Remote Tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,6

System Properties: Performance (Visual Effects)

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,-1

Taskbar Properties

RunDll32 shell32.dll,Options_RunDLL 1

User Accounts

RunDll32 shell32.dll,Control_RunDLL nusrmgr.cpl

Windows Security Center

RunDll32 shell32.dll,Control_RunDLL wscui.cpl

Windows Firewall

RunDll32 shell32.dll,Control_RunDLL firewall.cpl

Wireless Network Setup Wizard

RunDll32 shell32.dll,Control_RunDLL NetSetup.cpl,@0,WNSW

Windows Vista

Add/Remove Programs: (Programs and Features)

RunDll32 shell32.dll,Control_RunDLL appwiz.cpl,,0

Add/Remove Programs: (Windows Features On or Off)

RunDll32 shell32.dll,Control_RunDLL appwiz.cpl,,2

Add/Remove Programs: (Set Programs Access and Computer Defaults)

RunDll32 shell32.dll,Control_RunDLL appwiz.cpl,,3

Control Panel

RunDll32 shell32.dll,Control_RunDLL

Device Manager

RunDll32 devmgr.dll DeviceManager_Execute

Lock Screen

RunDll32 user32.dll,LockWorkStation

Mouse Properties Dialog Box: Buttons tab

RunDll32 Shell32.dll,Control_RunDLL main.cpl @0,0

Mouse Properties Dialog Box: Pointers tab

RunDll32 Shell32.dll,Control_RunDLL main.cpl @0,1

Mouse Properties Dialog Box: Pointers Options tab

RunDll32 Shell32.dll,Control_RunDLL main.cpl @0,2

Mouse Properties Dialog Box: Wheel tab

RunDll32 Shell32.dll,Control_RunDLL main.cpl @0,3

Mouse Properties Dialog Box: Hardware tab

RunDll32 Shell32.dll,Control_RunDLL main.cpl @0,4

Network Connections

RunDll32 shell32.dll,Control_RunDLL ncpa.cpl

Power Options

RunDll32 Shell32.dll,Control_RunDLL powercfg.cpl

Printer and Faxes folder

RunDll32 Shell32.dll,SHHelpShortcuts_RunDLL PrintersFolder

Regional and Language Options: Format Options

RunDll32 Shell32.dll,Control_RunDLL Intl.cpl,,0

Regional and Language Options: Location

RunDll32 Shell32.dll,Control_RunDLL Intl.cpl,,1

Regional and Language Options: Keyboard and Language

RunDll32 Shell32.dll,Control_RunDLL Intl.cpl,,2

Regional and Language Options: Administrative

RunDll32 Shell32.dll,Control_RunDLL Intl.cpl,,2

System Properties: Computer Name Tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl

System Properties: Hardware Tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,2

System Properties: Advance Tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,3

System Properties: System Protection Tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,4

System Properties: Remote Tab

RunDll32 shell32.dll,Control_RunDLL sysdm.cpl,,5

Taskbar and Start Menu Properties

RunDll32 shell32.dll,Options_RunDLL 1

User Accounts

RunDll32 shell32.dll,Control_RunDLL nusrmgr.cpl

Windows Security Center

RunDll32 shell32.dll,Control_RunDLL wscui.cpl

Windows Firewall

RunDll32 shell32.dll,Control_RunDLL firewall.cpl

Creating a command for a program:

You can make your own commands too. If you want to launch a program from run window follow these steps:

1. Create a shortcut of the program.
2. Name the shortcut anything as you wish want. Don't name this same to windows commands, otherwise this will not work.
3. Copy it to the "%windows%\system32" folder.
4. Open run window and type in the name.

CHAPTER - 3

Common Command Usages

Attrib

Attribute Utility- Displays or changes file attributes.

Syntax

attrib [{+r|-r}] [{+a|-a}] [{+s|-s}] [{+h|-h}] [[Drive:][Path] FileName] [/s[/d]]

Parameters

+r	sets the read-only file attribute.
-r	Clears the read-only file attribute.
+a	Sets the archive file attribute.
-a	Clears the archive file attribute.
+s	Sets the system file attribute.
-s	clears the system file attribute.
+h	sets the hidden file attribute.
-h	clears the hidden file attribute.

[drive:][path][filename] Specifies a file or files for attrib to process.

/S Processes matching files in the current folder and all subfolders.

/D Processes folders as well.

Examples: To remove the read-only attribute from files in the C:\photos\ directory and from files in any subdirectories of C:\photos\, type:

attrib -r C:\photos\ *.* /s

Expand

Expands one or more compressed files. This command is used to retrieve compressed files from distribution disks.

Syntax

Expand [-r] Source [Destination]

Expand -d source.cab [-f:files]

Expand source.cab -f:files Destination

Parameters

-r Rename expanded files.
-D Display list of files in source.
Source Source file specification. Wildcards may be used.
-F:Files Name of files to expand from a .CAB.
Destination Destination file | path specification.

Note: Destination may be a directory. If Source is multiple files and -r is not specified, Destination must be a directory.

Pushd

Stores the current directory for use by the POPD command and then changes to the specified directory.

Syntax

PUSHD [path | ..]

Parameters

path Specifies the directory to make the current directory.

Note: If Command Extensions are enabled the PUSHD command accepts network paths in addition to the normal drive letter and path. If a network path is specified, PUSHD will create a temporary drive letter that points to that specified network resource and then change the current drive and directory, using the newly defined drive letter. Temporary drive letters are allocated from Z: on down, using the first unused drive letter found.

Popd

Changes to the directory stored by the PUSHD command.

POPD

Note: If Command Extensions are enabled the POPD command will delete any temporary drive letter created by PUSHD when you POPD that drive off the pushed directory stack.

Reg

Console Registry Tool for Windows. Note: In earlier versions of Windows, use regedit.exe instead.

Syntax

REG Operation

Parameters Lists

Operation [query | add | delete | copy | save | load | unload | restore | compare | export | import]

Return Code: (Except of REG COMPARE)

0 - Successful

1 - Failed

For help on a specific operation type:

REG Operation /?

Examples:

- 1- **reg add /?**
- 2- **reg delete /?**
- 3- **reg restore /?**
- 4- **reg export /?**

Regsvr32

This command-line tool registers .dll files as command components in the registry.

Syntax

regsvr32 [/u] [/s] [/n] [/i[:cmdline]] *dllname*

Parameters

/u Unregisters server.
/s Specifies **regsvr32** to run silently and to not display any message boxes.
/n Specifies not to call DllRegisterServer. You must use this option with **/i**.
/i:cmdline Calls DllInstall passing it an optional [cmdline]. When used with **/u**, it calls dll uninstall.
dllname Specifies the name of the dll file that will be registered.

Examples: To register the .dll for the Compressed Folder, type:
regsvr32 zipfldr.dll

SFC

Scans and verifies the versions of all protected system files after you restart your computer.

Syntax

sfc [/scannow] [/scanonce] [/scanboot] [/revert] [/purgecache] [/cachesize=x]

Parameters

/scannow Scans all protected system files immediately.
/scanonce Scans all protected system files once.
/scanboot Scans all protected system files every time the computer is restarted.
/revert Returns the scan to its default operation.
/purgecache Purges the Windows File Protection file cache and scans all protected system files immediately.
/cachesize=x Sets the size, in MB, of the Windows File Protection file cache.

Remarks

- You must be logged on as a member of the Administrators group to run **sfc**.
- If **sfc** discovers that a protected file has been overwritten, it retrieves the correct version of the file from the %systemroot%\system32\dlldata folder, and then replaces the incorrect file.
- If the %systemroot%\system32\dlldata folder becomes corrupt or unusable, use **sfc /scannow**, **sfc /scanonce**, or **sfc /scanboot** to repair the contents of the Dllcache directory.

CHAPTER - 4

Relative System Paths

(Environment Variables)

Table-8

Sl.	Directory	Commands
For All Users		
01	Common AppData	%ALLUSERSPROFILE%\Application Data
02	Common Desktop	%ALLUSERSPROFILE%\Desktop
03	Common Documents	%ALLUSERSPROFILE%\Documents
04	Common Favorites	%ALLUSERSPROFILE%\Favorites
05	Common Programs	%ALLUSERSPROFILE%\Start Menu\Programs
06	Common Start Menu	%ALLUSERSPROFILE%\Start Menu
07	Common Startup	%ALLUSERSPROFILE%\Start Menu\Programs\Startup
08	Common Templates	%ALLUSERSPROFILE%\Templates
For Current User		

09	AppData	%AppData%
10	AppData	%USERPROFILE%\Application Data
11	AppData	Application Data
12	Cache	%USERPROFILE%\Local Settings\Temporary Internet Files
13	Cookies	%USERPROFILE%\Cookies
14	Cookies	Cookies
15	Current User Location	%USERPROFILE%
16	Desktop	%USERPROFILE%\Desktop
17	Desktop	Desktop
18	Favorites	%USERPROFILE%\Favorites
19	Favorites	Favorites
20	History	%USERPROFILE%\Local Settings\History
21	Local AppData	%USERPROFILE%\Local Settings\Application Data
22	Local Settings	%USERPROFILE%\Local Settings
23	My Pictures	%USERPROFILE%\My Documents\My Pictures
24	NetHood	%USERPROFILE%\NetHood
25	NetHood	NetHood
26	Personal Documents	My Documents
27	Personal Documents	%USERPROFILE%\My Documents
28	PrintHood	%USERPROFILE%\PrintHood
29	PrintHood	PrintHood
30	Programs	%USERPROFILE%\Start Menu\Programs
31	Recent	%USERPROFILE%\Recent
32	Recent	Recent
33	Send To	%USERPROFILE%\SendTo
34	Send To	shell:sendto
35	Send To	sendto
36	Start Menu	Start Menu
37	Start Menu	%USERPROFILE%\Start Menu
38	Startup	%USERPROFILE%\Start Menu\Programs\Startup
39	Temp	%TEMP%
40	Temp	%TMP%
41	Templates	Templates
42	Templates	%USERPROFILE%\Templates
System Defaults		
43	Common Program Files	%CommonProgramFiles%
44	Current System Drive	%HOMEDRIVE%
45	Current System Drive	%SYSTEMDRIVE%
46	Current User Location	%HOMEDRIVE%\%HOMEPATH%
47	Current User Location	%HOMEPATH%
48	Dllcache	dllcache
49	Font Folder	Fonts
50	INF Directory	inf
51	Prefetch Folder	Prefetch
52	Program Files	%PROGRAMFILES%
53	System32	%SYSTEMROOT%\system32
54	System32	%WINDIR%\System32
55	Windows	%SYSTEMROOT%
56	Windows	%WINDIR%

[Note: These will be helpful for administrator and users to find data or to use in installer/making SFX packages.]

Environment Variables

Environment Variables

Environment variables are strings that contain information such as drive, path, or file name. They control the behavior of various programs. For example, the TEMP environment variable specifies the location in which programs place temporary files. Any user can add, modify, or remove a user environment variable. However, only an administrator can add, modify, or remove a system environment variable.

Using System in Control Panel, you can customize the following variables:

User environment variables for logged_on_user_name

The user environment variables are different for each user of a particular computer. The variables include any that are set by the user, as well as any variables defined by programs, such as the path to the location of the program files.

System environment variables

Administrators can change or add environment variables that apply to the system, and thus to all system users. During installation, Windows Setup configures the default system variables, such as the path to the Windows files.

Table-9

Predefined Environment Variables		
	Environment Variables	Descriptions
01	%ALLUSERSPROFILE%	C:\Documents and Settings\All Users
02	%APPDATA%	C:\Documents and Settings\{username}\Application Data
03	%COMPUTERNAME%	Computer name
04	%COMSPEC%	C:\Windows\System32\cmd.exe
05	%HOMEDRIVE%	C:\ or the drive where Windows is installed
06	%HOMEPATH%	C:\Documents and Settings\{username}
07	%HOMESHARE%	Shared Home Directory
08	%PATH%	C:\Windows\System32;C:\Windows\;C:\Windows\System32\Wbem
09	%PATHEXT%	.COM; .EXE; .BAT; .CMD; .VBS; .VBE; .JS ; .WSF; .WSH
10	%PROMPT%	Code for current command prompt format. Code is usually \$P\$G
11	%PROGRAMFILES%	C:\Program Files
12	%SYSTEMDRIVE%	C:\ or the drive where Windows is installed
13	%SYSTEMROOT%	C:\Windows
14	%TEMP% and %TMP%	C:\Documents and Settings\{username}\Local Settings\Temp
15	%USERNAME%	{username}
16	%USERPROFILE%	C:\Documents and Settings\{username}
17	%WINDIR%	C:\Windows
Dynamic Environment Variables		
18	%CD%	Current directory with its full path
19	%DATE%	Current date in the format determined by the Date command
20	%ERRORLEVEL%	Number defining exit status of a previous command or program
21	%RANDOM%	Random number between 0 and 32767
22	%TIME%	Current time in the format determined by the Time command

Tips: %SystemRoot% is same as %WinDir% and can used either without conflict.

CHAPTER - 5

Recovery Console Commands

Table-10

ATTRIB	COPY	EXIT	LOGON	REN
BATCH	DEL	EXPAND	MAP	RENAME
BOOTCFG	DELETE	FIXBOOT	MD	RMDIR
CD	DIR	FIXMBR	MKDIR	SYSTEMROOT
CHDIR	DISABLE	FORMAT	MORE	TYPE
CHKDSK	DISKPART	HELP	NET	
CLS	ENABLE	LISTSVC	RD	

Running Recovery Console:

To run the Recovery Console from the Windows XP startup disks or the Windows XP CD-ROM, follow these steps:

- 1- Insert the Windows XP startup disk into the floppy disk drive, or insert the Windows XP CD-ROM into the CD-ROM drive, and then restart the computer.
Click to select any options that are required to start the computer from the CD-ROM drive if you are prompted.
- 2- When the "Welcome to Setup" screen appears, press R to start the Recovery Console.
- 3- If you have a dual-boot or multiple-boot computer, select the installation that you must access from the Recovery Console.
- 4- When you are prompted, type the Administrator password. If the administrator password is blank, just press ENTER.
- 5- At the command prompt, type the appropriate commands to diagnose and repair your Windows XP installation.
For a list of commands that are available in Recovery Console, type **recoveries console commands** or **help** at the command prompt, and then press ENTER.
For information about a specific command, type **help command name** at the command prompt, and then press ENTER.
- 6- To exit the Recovery Console and restart the computer, type **exit** at the command prompt, and then press ENTER.

How to install the Recovery Console

To install the Recovery Console, follow these steps:

1. Insert the Windows XP CD into the CD-ROM drive.
2. Click **Start**, and then click **Run**.
3. In the **Open** box, type **x:\i386\winnt32.exe /cmdcons** where **x** is the drive letter for the CD-ROM drive.
4. A Windows Setup Dialog Box appears. The Windows Setup Dialog Box describes the Recovery Console option. To confirm the installation, click **Yes**.
5. Restart the computer. The next time that you start your computer, "Microsoft Windows Recovery Console" appears on the startup menu.

Note: always use Windows XP SP2 CD Install the Recovery Console and to avoid this error:

"Setup cannot continue because the version of Windows on your computer is newer than the version on the CD."

Command Descriptions

Attrib: changes attributes on one file or subdirectory.

Batch: executes commands that you specify in the text file, Inputfile. Outputfile holds the output of the commands. If you omit the Outputfile parameter, output appears on the screen.

Bootcfg: modifies the Boot.ini file for boot configuration and recovery.

CD (Chdir): operates only in the system directories of the current Windows installation, removable media, the root directory of any hard disk partition, or the local installation sources.

Chkdsk: The **/p** switch runs Chkdsk even if the drive is not flagged as dirty. The **/r** switch locates bad sectors and recovers readable information. This switch implies **/p**. Chkdsk requires Autochk. Chkdsk automatically looks for Autochk.exe in the startup folder. If Chkdsk cannot find the file in the startup folder, it looks for the Windows 2000 Setup CD-ROM. If Chkdsk cannot find the installation CD-ROM, Chkdsk prompts the user for the location of Autochk.exe.

Cls: clears the screen.

Copy: copies one file to a target location. By default, the target cannot be removable media, and you cannot use wildcard characters. Copying a compressed file from the Windows 2000 Setup CD-ROM automatically decompresses the file.

Del (Delete): deletes one file. Operates within the system directories of the current Windows installation, removable media, the root directory of any hard disk partition, or the local installation sources. By default, you cannot use wildcard characters.

Dir: displays a list of all files, including hidden and system files.

Disable: disables a Windows system service or driver. The variable *service_or_driver* is the name of the service or driver that you want to disable. When you use this command to disable a service, the command displays the service's original startup type before it changes the type to SERVICE_DISABLED. Note the original startup type so that you can use the **enable** command to restart the service.

Diskpart: manages partitions on hard disk volumes. The **/add** option creates a new partition. The **/delete** option deletes an existing partition. The variable *device* is the device name for a new partition (such as \device\harddisk0). The variable *drive* is the drive letter for a partition that you are deleting (for example, D). Partition is the partition-based name for a partition that you are deleting, (for example: \device\harddisk0\partition1) and can be used instead of the drive variable. The variable *size* is the size, in megabytes, of a new partition.

Enable: enables a Windows system service or driver. The variable *service_or_driver* is the name of the service or driver that you want to enable, and *start_type* is the startup type for an enabled service. The startup type uses one of the following formats:
SERVICE_BOOT_START
SERVICE_SYSTEM_START
SERVICE_AUTO_START
SERVICE_DEMAND_START

Exit: quits the Recovery Console, and then restarts the computer.

Expand: expands a compressed file. The variable *source* is the file that you want to expand. By default, you cannot use wildcard characters. The variable *destination* is the directory for the new file. By default, the destination cannot be removable media and cannot be read-only. You can use the **attrib** command to remove the read-only attribute from the destination directory. The option **/f:filespec** is required if the source contains more than one file. This option permits wildcard characters. The **/y** switch disables the overwrite confirmation prompt. The **/d** switch specifies that the files will not be expanded and displays a directory of the files in the source.

Fixboot: writes a new startup sector on the system partition.

Fixmbr: repairs the startup partition's master boot code. The variable *device* is an optional name that specifies the device that requires a new Master Boot Record. Omit this variable when the target is the startup device.

Format: formats a disk. The **/q** switch performs a quick format. The **/fs** switch specifies the file system.

Help: If you do not use the command variable to specify a command, **help** lists all the commands that the Recovery Console supports.

Listsvc: displays all available services and drivers on the computer.

Logon: displays detected installations of Windows and requests the local Administrator password for those installations. Use this command to move to another installation or subdirectory.

Map: displays currently active device mappings. Include the **arc** option to specify the use of Advanced RISC Computing (ARC) paths (the format for Boot.ini) instead of Windows device paths.

MD (Mkdir): operates only within the system directories of the current Windows installation, removable media, the root directory of any hard disk partition, or the local installation sources.

More/Type: displays the specified text file on screen.

Rd (Rmdir): operates only within the system directories of the current Windows installation, removable media, the root directory of any hard disk partition, or the local installation sources.

Ren (Rename): operates only within the system directories of the current Windows installation, removable media, the root directory of any hard disk partition, or the local installation sources. You cannot specify a new drive or path as the target.

Set: displays and sets the Recovery Console environment variables.

Systemroot: sets the current directory to %SystemRoot%.

Appendix-A

1. Shutdown Actions:

Abort Shutdown-	<i>shutdown -a</i>
Log Off-	<i>shutdown -s -t 00</i>
Restart-	<i>shutdown -r -f -t 00</i>
Shutdown-	<i>shutdown -s -f -t 00</i>

GUI Interface- `shutdown -i`

Note: Replace 00 preferably with any two digit number.

2. Alternatively you can also view XPS documents if you have **“Microsoft .NET Framework 3.0”** and **“Microsoft XML Parser 6.00”** installed on your system and if you don't have **“XPS Essentials Pack”** or **“XPS Viewer EP”**. **“XPS Essentials Pack”** or **“XPS Viewer EP”** is a standalone application from Microsoft to view and create XPS documents.
3. **Changed Names in Windows Vista and Server 2008**

Changed names of the Technology/Features in the current Microsoft Windows OS:

Table-11

Windows Vista		
Sl.	New Names	Old Names
01	Backup and Restore Center	Windows Backup Utility
02	Computer	My Computer
03	Documents	My Documents
04	Ease of Access Center	Accessibility Options
05	Music	My Music
06	Network Places	My Network Places
07	Pictures	My Pictures
08	Programs and Features	Add or Remove Programs
09	Recent Documents	My Recent Documents
10	Superfetch	Prefetch
11	Sync Center	Microsoft Synchronization Tool
12	System Protection	System Restore
13	Users	Documents and Settings
14	Videos	My Videos
15	Windows Complete PC Restore	Automated System Recovery
16	Windows Contacts	Address Book
17	Windows Mail	Outlook Express
18	Windows Meeting Space	NetMeeting
19	Windows Photo Gallery	Windows Picture and Fax Viewer
Windows Server 2008		
01	Reliability and Performance Monitor	Performance Monitor
02	Problem Reports and Solutions	Error Reporting
03	Windows Firewall with Advanced Security	Windows Firewall
04	Windows Server Backup	Backup Utility for Windows

[Note: From Windows Vista operating system onwards the word **“My”** is removed from all common used folder names and windows feature/software. Windows Server 2008 also has same naming schemes like Windows Vista. Many feature names are also changed in both the operating systems.]

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- Microsoft Press Windows Vista Resource Kit
- Microsoft Windows Vista Administration
- Windows Registry Guide
- Windows Vista Inside Out

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Programs and Tools:

Change Analysis Diagnostic Tool: <http://support.microsoft.com/kb/924732/>

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Other Tools: DameWare NT Utilities, EasyBCD, nLite, vLite, Sysinternals Tools, Unlocker, XP SysPad, Path, dllusage, Notepad2, pserv, Resource Hacker, Windows Resource Kit Tools and Admin Packs.

THE END