System

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

Software

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

Control panel tool Command

Operation	Command
Network Conection properties administration	ncpa.cpl
Internet Properties control	inetcpl.cpl
Mouse Properties control	main.cpl

ies control	mmsys.cpl
System Properties control	sysdm.cpl
Display Properties control	desk.cpl
Add/Remove Programs control	appwiz.cpl

Folder

Operation	Command
Displays the name of the current directory.	cd
	chdir
Change Drive	**c:**
	d:
	cd /d d:
Changes the current directory.	cd Folder
	cd %VAGRANT_HOME% ← cmd
	cd $env:VAGRANT_HOME ← powerhsell
	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\C$\data" /mir
	robocopy d: g: /mir
	robocopy more

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 rouring 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 DNS infrastructure.	nslookup
	nslookup IPADDRESS DNSSERVER
	nslookup HOSTNAME DNSSERVER
	nslookup -type=soa HOSTNAME
	nslookup -type=any HOSTNAME DNSSERVER
Flushes and resets the contents of the DNS 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
	netstat -an |Select-String 80 ← Powershell
	netstat -an |find "80" ← CMD

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

Time

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

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 manulal	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

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 winttp set proxy proxy-server="x.x.x.x:8080"	

Additional commands

Commnad	Note
pscp.exe	http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html
psftp.exe	http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

Package

Commnad	Note
UnxUtils	http://unxutils.sourceforge.net/
GNU utilities for Win32	find, date, grep , etc