

Operating system Command

Windows Command:

1. help

- **Description:** Lists all available commands in the Command Prompt with a brief description.
- **Example:** `help`

2. cls

- **Description:** Clears the Command Prompt screen.
- **Example:** `cls`

3. cd

- **Description:** Changes the current directory.
- **Example:** `cd C:\Users\YourUsername\Documents`

4. dir

- **Description:** Lists all files and folders in the current directory.
- **Example:** `dir`

5. copy

- **Description:** Copies files from one location to another.
- **Example:** `copy C:\source\file.txt D:\destination`

6. move

- **Description:** Moves files from one location to another.
- **Example:** `move C:\source\file.txt D:\destination`

7. del

- **Description:** Deletes one or more files.
- **Example:** `del C:\source\file.txt`

8. mkdir

- **Description:** Creates a new directory.

- **Example:** `mkdir C:\new_folder`

9. rmdir

- **Description:** Deletes a directory (folder).
- **Example:** `rmdir C:\new_folder`

10. ipconfig

- **Description:** Shows network configuration details, such as IP address and subnet mask.
- **Example:** `ipconfig`

11. ping

- **Description:** Tests network connectivity to a remote host.
- **Example:** `ping google.com`

12. tracert

- **Description:** Shows the path taken to a destination IP address.
- **Example:** `tracert google.com`

13. netstat

- **Description:** Displays active network connections and listening ports.
- **Example:** `netstat -an`

14. tasklist

- **Description:** Lists all running processes on the system.
- **Example:** `tasklist`

15. taskkill

- **Description:** Ends a running process by its name or PID.
- **Example:** `taskkill /IM notepad.exe`

16. systeminfo

- **Description:** Shows detailed system information.
- **Example:** `systeminfo`

17. chkdsk

- **Description:** Checks for disk errors and repairs them.

- **Example:** `chkdsk C: /f`

18. sfc /scannow

- **Description:** Scans and repairs corrupted system files.
- **Example:** `sfc /scannow`

19. diskpart

- **Description:** Manages disks, partitions, and volumes.
- **Example:** `diskpart`

20. format

- **Description:** Formats a disk for use with Windows.
- **Example:** `format D:`

21. shutdown

- **Description:** Shuts down, restarts, or logs off the computer.
- **Example:** `shutdown /r /t 0` (Restarts the computer immediately)

22. powercfg

- **Description:** Configures power settings and displays energy efficiency details.
- **Example:** `powercfg /hibernate on`

23. gpupdate

- **Description:** Forces a Group Policy update.
- **Example:** `gpupdate /force`

24. gpresult

- **Description:** Displays applied Group Policy settings.
- **Example:** `gpresult /R`

25. regedit

- **Description:** Opens the Windows Registry Editor.
- **Example:** `regedit`

26. sc config

- **Description:** Configures Windows services.

- **Example:** `sc config Spooler start= auto`

27. sc start / stop

- **Description:** Starts or stops a Windows service.
- **Example:** `sc start Spooler` (Starts the Print Spooler service)

28. net start / stop

- **Description:** Starts or stops network services.
- **Example:** `net start Spooler`

29. net use

- **Description:** Maps or disconnects network drives.
- **Example:** `net use Z: \\server\share`

30. net user

- **Description:** Manages user accounts.
- **Example:** `net user username password /add`

31. hostname

- **Description:** Displays the computer's hostname.
- **Example:** `hostname`

32. set

- **Description:** Displays, sets, or removes environment variables.
- **Example:** `set PATH`

33. date

- **Description:** Displays or sets the current date.
- **Example:** `date`

34. time

- **Description:** Displays or sets the current time.
- **Example:** `time`

35. echo

- **Description:** Displays a line of text.

- **Example:** `echo Hello, world!`

36. pause

- **Description:** Pauses execution in a batch file.
- **Example:** `pause`

37. attrib

- **Description:** Displays or changes file attributes.
- **Example:** `attrib +r file.txt`

38. assoc

- **Description:** Displays or modifies file type associations.
- **Example:** `assoc .txt=txtfile`

39. cipher

- **Description:** Encrypts or decrypts files.
- **Example:** `cipher /e C:\secret_folder`

40. cacls

- **Description:** Changes file permissions.
- **Example:** `cacls file.txt /g username:f`

41. fc

- **Description:** Compares two files and displays differences.
- **Example:** `fc file1.txt file2.txt`

42. find

- **Description:** Searches for text within files.
- **Example:** `find "keyword" file.txt`

43. schtasks

- **Description:** Manages scheduled tasks.
- **Example:** `schtasks /create /tn Backup /tr "backup.bat" /sc daily /st 02:00`

44. wmic

- **Description:** Windows Management Instrumentation Command-line to get system info.
- **Example:** `wmic os get name`

45. driverquery

- **Description:** Lists all installed drivers.
- **Example:** `driverquery`

46. shutdown /s /f /t 0

- **Description:** Instantly shuts down the computer.
- **Example:** `shutdown /s /f /t 0`

47. whoami

- **Description:** Displays the current user and domain.
- **Example:** `whoami`

48. title

- **Description:** Sets the Command Prompt window title.
- **Example:** `title My Custom Command Prompt`

49. pathping

- **Description:** Combines ping and tracert for a detailed path analysis.
- **Example:** `pathping google.com`

50. route

- **Description:** Displays and modifies the IP routing table.
- **Example:** `route print`

WMIC:

WMIC (Windows Management Instrumentation Command-line) commands, which are powerful tools for querying and managing system information on Windows:

1. Get Operating System Information

- **Command:** `wmic os get caption, version, architecture`
- **Description:** Retrieves the operating system name, version, and architecture.
- **Example Output:** Microsoft Windows 10 Pro 10.0.19041 x64

2. Get Computer System Information

- **Command:** `wmic computersystem get model, manufacturer, name, systemtype`
- **Description:** Displays details about the computer system model, manufacturer, name, and system type.
- **Example Output:** Dell Inc. XPS 13 9370 Desktop

3. List Installed Software

- **Command:** `wmic product get name, version`
- **Description:** Lists all installed software on the system with their versions.
- **Note:** This command may take a while to run and may not show all software.
- **Example Output:** Microsoft Office 365 16.0.12325.20288

4. Get CPU Information

- **Command:** `wmic cpu get name, numberofcores, maxclockspeed`
- **Description:** Shows details about the CPU, including its name, number of cores, and max clock speed.
- **Example Output:** Intel(R) Core(TM) i7-8565U CPU 1800 MHz

5. Get Hard Drive Information

- **Command:** `wmic diskdrive get model, size, status`
- **Description:** Provides details on the installed hard drives, including model, size (in bytes), and status.
- **Example Output:** Samsung SSD 970 EVO 500GB Healthy

6. Get Memory (RAM) Information

- **Command:** `wmic memorychip get capacity, speed, manufacturer`
- **Description:** Displays information on each installed memory module, including capacity (in bytes), speed, and manufacturer.
- **Example Output:** 8 GB 2666 MHz Samsung

7. Get Network Adapter Information

- **Command:** `wmic nic get name, macaddress, speed`
- **Description:** Lists network adapters, including their MAC addresses and speeds.
- **Example Output:** Intel(R) Wi-Fi 6 AX201 2400 Mbps 00-1A-2B-3C-4D-5E

8. Check Battery Status (for laptops)

- **Command:** `wmic path win32_battery get estimatedchargeRemaining, batterystatus`
- **Description:** Provides information on the battery status, including the remaining charge percentage.
- **Example Output:** Estimated Charge Remaining: 85%

9. Get BIOS Information

- **Command:** `wmic bios get manufacturer, smbiosbiosversion, serialnumber`
- **Description:** Displays BIOS information such as the manufacturer, version, and serial number.
- **Example Output:** Dell Inc. 1.8.1 F7G8J5B

10. Get List of Running Processes

- **Command:** `wmic process get name, processid`
- **Description:** Lists all currently running processes with their process IDs (PIDs).
- **Example Output:** explorer.exe 1234