WMIC

# Description

wmic.exe is the WMI console. It queries windows using WMI to obtain a variety of information about the system.

# Examples

* wmic bios get serialnumber
* wmic computersystem get name,model
* wmic service where "name like 'ccmexec' or name like '%mcafee%'" get name,state
* wmic printer get default,deviceid,drivername,name

# Command Help

[global switches] <command>

The following global switches are available:  
/NAMESPACE Path for the namespace the alias operate against.  
/ROLE Path for the role containing the alias definitions.  
/NODE Servers the alias will operate against.  
/IMPLEVEL Client impersonation level.  
/AUTHLEVEL Client authentication level.  
/LOCALE Language id the client should use.  
/PRIVILEGES Enable or disable all privileges.  
/TRACE Outputs debugging information to stderr.  
/RECORD Logs all input commands and output.  
/INTERACTIVE Sets or resets the interactive mode.  
/FAILFAST Sets or resets the FailFast mode.  
/USER User to be used during the session.  
/PASSWORD Password to be used for session login.  
/OUTPUT Specifies the mode for output redirection.  
/APPEND Specifies the mode for output redirection.  
/AGGREGATE Sets or resets aggregate mode.  
/AUTHORITY Specifies the <authority type> for the connection.  
/?[:<BRIEF|FULL>] Usage information.

For more information on a specific global switch, type: switch-name /?

The following alias/es are available in the current role:  
ALIAS - Access to the aliases available on the local system  
BASEBOARD - Base board (also known as a motherboard or system board) management.  
BIOS - Basic input/output services (BIOS) management.  
BOOTCONFIG - Boot configuration management.  
CDROM - CD-ROM management.  
COMPUTERSYSTEM - Computer system management.  
CPU - CPU management.  
CSPRODUCT - Computer system product information from SMBIOS.  
DATAFILE - DataFile Management.  
DCOMAPP - DCOM Application management.  
DESKTOP - User's Desktop management.  
DESKTOPMONITOR - Desktop Monitor management.  
DEVICEMEMORYADDRESS - Device memory addresses management.  
DISKDRIVE - Physical disk drive management.  
DISKQUOTA - Disk space usage for NTFS volumes.  
DMACHANNEL - Direct memory access (DMA) channel management.  
ENVIRONMENT - System environment settings management.  
FSDIR - Filesystem directory entry management.  
GROUP - Group account management.  
IDECONTROLLER - IDE Controller management.  
IRQ - Interrupt request line (IRQ) management.  
JOB - Provides access to the jobs scheduled using the schedule service.  
LOADORDER - Management of system services that define execution dependencies.  
LOGICALDISK - Local storage device management.  
LOGON - LOGON Sessions.  
MEMCACHE - Cache memory management.  
MEMORYCHIP - Memory chip information.  
MEMPHYSICAL - Computer system's physical memory management.  
NETCLIENT - Network Client management.  
NETLOGIN - Network login information (of a particular user) management.  
NETPROTOCOL - Protocols (and their network characteristics) management.  
NETUSE - Active network connection management.  
NIC - Network Interface Controller (NIC) management.  
NICCONFIG - Network adapter management.  
NTDOMAIN - NT Domain management.  
NTEVENT - Entries in the NT Event Log.  
NTEVENTLOG - NT eventlog file management.  
ONBOARDDEVICE - Management of common adapter devices built into the motherboard (system b  
oard).  
OS - Installed Operating System/s management.  
PAGEFILE - Virtual memory file swapping management.  
PAGEFILESET - Page file settings management.  
PARTITION - Management of partitioned areas of a physical disk.  
PORT - I/O port management.  
PORTCONNECTOR - Physical connection ports management.  
PRINTER - Printer device management.  
PRINTERCONFIG - Printer device configuration management.  
PRINTJOB - Print job management.  
PROCESS - Process management.  
PRODUCT - Installation package task management.  
QFE - Quick Fix Engineering.  
QUOTASETTING - Setting information for disk quotas on a volume.  
RDACCOUNT - Remote Desktop connection permission management.  
RDNIC - Remote Desktop connection management on a specific network adapter.  
RDPERMISSIONS - Permissions to a specific Remote Desktop connection.  
RDTOGGLE - Turning Remote Desktop listener on or off remotely.  
RECOVEROS - Information that will be gathered from memory when the operating system f  
ails.  
REGISTRY - Computer system registry management.  
SCSICONTROLLER - SCSI Controller management.  
SERVER - Server information management.  
SERVICE - Service application management.  
SHADOWCOPY - Shadow copy management.  
SHADOWSTORAGE - Shadow copy storage area management.  
SHARE - Shared resource management.  
SOFTWAREELEMENT - Management of the elements of a software product installed on a system.  
SOFTWAREFEATURE - Management of software product subsets of SoftwareElement.  
SOUNDDEV - Sound Device management.  
STARTUP - Management of commands that run automatically when users log onto the com  
puter system.  
SYSACCOUNT - System account management.  
SYSDRIVER - Management of the system driver for a base service.  
SYSTEMENCLOSURE - Physical system enclosure management.  
SYSTEMSLOT - Management of physical connection points including ports, slots and peri  
pherals, and proprietary connections points.  
TAPEDRIVE - Tape drive management.  
TEMPERATURE - Data management of a temperature sensor (electronic thermometer).  
TIMEZONE - Time zone data management.  
UPS - Uninterruptible power supply (UPS) management.  
USERACCOUNT - User account management.  
VOLTAGE - Voltage sensor (electronic voltmeter) data management.  
VOLUME - Local storage volume management.  
VOLUMEQUOTASETTING - Associates the disk quota setting with a specific disk volume.  
VOLUMEUSERQUOTA - Per user storage volume quota management.  
WMISET - WMI service operational parameters management.

For more information on a specific alias, type: alias /?

CLASS - Escapes to full WMI schema.  
PATH - Escapes to full WMI object paths.  
CONTEXT - Displays the state of all the global switches.  
QUIT/EXIT - Exits the program.

For more information on CLASS/PATH/CONTEXT, type: (CLASS | PATH | CONTEXT) /?

# Further Resources

<https://msdn.microsoft.com/en-us/library/bb742610.aspx>