

BASICS WITH WINDOWS POWERSHELL

By Prometheus MMS

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PNRP:.....	Error! Bookmark not defined.
RAS:.....	Error! Bookmark not defined.
AAAA:.....	Error! Bookmark not defined.
DIAGNOSTICS:.....	Error! Bookmark not defined.

IP: **Error! Bookmark not defined.**
IPV6: **Error! Bookmark not defined.**
RPC: **Error! Bookmark not defined.**
SET: **Error! Bookmark not defined.**
 SET FILE: **Error! Bookmark not defined.**
 SET MACHINE: **Error! Bookmark not defined.**
 SET MODE: **Error! Bookmark not defined.**
SHOW: **Error! Bookmark not defined.**
TRACE: **Error! Bookmark not defined.**
 CONVERT: **Error! Bookmark not defined.**
 CORRELATE: **Error! Bookmark not defined.**
 DIAGNOSE: **Error! Bookmark not defined.**
 MERGE: **Error! Bookmark not defined.**
 SHOW: **Error! Bookmark not defined.**
 START: **Error! Bookmark not defined.**
 STOP: **Error! Bookmark not defined.**
WCN: **Error! Bookmark not defined.**
 ENTOLL: **Error! Bookmark not defined.**
 QUERY: **Error! Bookmark not defined.**
WFP: **Error! Bookmark not defined.**
 CAPTURE: **Error! Bookmark not defined.**
 CAPTURE START: **Error! Bookmark not defined.**
 SET: **Error! Bookmark not defined.**
 SHOW: **Error! Bookmark not defined.**
WINHTTP: **Error! Bookmark not defined.**
 RESET: **Error! Bookmark not defined.**
 SET: **Error! Bookmark not defined.**
 SHOW: **Error! Bookmark not defined.**
WINSOCK: **Error! Bookmark not defined.**
 SET: **Error! Bookmark not defined.**
 SHOW: **Error! Bookmark not defined.**
WLAN: **Error! Bookmark not defined.**
 ADD: **Error! Bookmark not defined.**

CONNECT: **Error! Bookmark not defined.**
DELETE:..... **Error! Bookmark not defined.**
DISCONNECT: **Error! Bookmark not defined.**
EXPORT:..... **Error! Bookmark not defined.**
SET:..... **Error! Bookmark not defined.**
SHOW:..... **Error! Bookmark not defined.**

List of Commands

ARP	Displays and modifies the IP-to-Physical address translation tables used by address resolution protocol (ARP).
ASSOC	Displays or modifies file extension associations
ATTRIB	Displays or changes file attributes.
BREAK	Sets or Clears Extended CTRL+C checking on ODOS system
BCDEDIT	Boot Configuration Data Store Editor
CACLS	Displays or modifies access control lists (ACLs) of files NOTE: Cacls is now deprecated, please use Icacls.
CALL	Calls one batch program from another.
CD	Displays the name of or changes the current directory.
CHCP	Specifies a code page number
CHDIR	Displays the name of or changes the current directory
CHKDSK	Checks a disk and displays a status report
CHKNTFS	Displays or modifies the checking of disk at boot time
CLEANMGR	Disk cleanup
CLIP	Redirects output of command line tools to the Windows clipboard. This text output can then be pasted into other programs
CLS	Clears the screen
FTYPE	To get specific details, type commandname /? to view the specifics
COMP	Compares the contents of two files or sets of files
COMPACT	Displays or alters the compression of files on NTFS partitions
COPY	Copies one or more files to another location
DATE	Displays or sets the date
DEFRAG	Optimizes and defragments files on local volumes to improve system performance
DEL	Deletes one or more files
DIR	Displays a list of files and subdirectories in a directory
DISKCOMP	Compares the contents of two floppy disks
DISKCOPY	Copies the contents of one floppy disk to another
DISKPART	Disk Partition
DOSKEY	Edits command lines, recalls Windows commands, and creates macros
ECHO	Displays messages, or turns command-echoing on or off
ENDLOCAL	Ends localization of environment changes in a batch file
ERASE	Deletes one or more files
EXIT	Quits the CMD.EXE program (command interpreter) or the current batch script

EXPAND	Expands one or more compressed files
FC	Compares two files or sets of files and displays the differences between them
FIND	Searches for a text string in a file or files
FINDSTR	Searches for strings in files
FOR	Runs a specified command for each file in a set of files
FORFILES	Selects a file (or set of files) and executes a command on that file. This is helpful for batch jobs
FORMAT	Formats a disk for use with Windows
FSUTIL	Commands Supported
FTP	Transfers files to and from a computer running an FTP server service (sometimes called a daemon). Ftp can be used interactively
FTYPE	Displays or modifies file types used in file extension associations
GOTO	Directs cmd.exe to a labeled line in a batch program
HELP	Provides help information for Windows commands
IF	Performs conditional processing in batch programs
LABEL	Creates, changes, or deletes the volume label of a disk
IPCONFIG	IP configuration
LOGOFF	Terminates a session
MD	Creates a directory
MKLINK	Creates a symbolic link
MODE	Configures system devices
MORE	Displays output one screen at a time
MOUNTVOL	Creates, deletes, or lists a volume mount point.
MOVE	Moves files and renames files and directories
MSG	Send a message to a user
MSIEXEC	Windows installer
MSTSC	Create connections to terminal servers or other remote computers, edits an existing Remote desktop connection configuration file
NET	Used to manage File Shares, Printer Shares and Sessions
NETSH	Either locally or remotely, display or modify the network
NBTSTAT	Displays protocol statistics and current TCP/IP connections using NBT (NetBIOS over TCP/IP)

COMMANDS

ARP:

Displays and modifies the IP-to-Physical address translation tables used by address resolution protocol (ARP).

ARP -s inet_addr eth_addr [if_addr]

ARP -d inet_addr [if_addr]

ARP -a [inet_addr] [-N if_addr] [-v]

- a Displays current ARP entries by interrogating the current protocol data. If inet_addr is specified, the IP and Physical addresses for only the specified computer are displayed. If more than one network interface uses ARP, entries for each ARP table are displayed.
- g Same as -a.
- v Displays current ARP entries in verbose mode. All invalid entries and entries on the loop-back interface will be shown.

inet_addr Specifies an internet address.

-N if_addr Displays the ARP entries for the network interface specified by if_addr.

-d Deletes the host specified by inet_addr. inet_addr may be wildcarded with * to delete all hosts.

-s Adds the host and associates the Internet address inet_addr with the Physical address eth_addr. The Physical address is given as 6 hexadecimal bytes separated by hyphens. The entry is permanent.

eth_addr Specifies a physical address.

if_addr If present, this specifies the Internet address of the interface whose address translation table should be modified.

If not present, the first applicable interface will be used.

Example:

> arp -s 157.55.85.212 00-aa-00-62-c6-09 Adds a static entry.

> arp -a Displays the arp table.

ASSOC:

Displays or modifies file extension associations

ASSOC [.ext[=[fileType]]]

.ext Specifies the file extension to associate the file type with

fileType Specifies the file type to associate with the file extension

Type ASSOC without parameters to display the current file associations.

If ASSOC is invoked with just a file extension, it displays the current

file association for that file extension. Specify nothing for the file

type and the command will delete the association for the file extension.

ATTRIB:

Displays or changes file attributes.

ATTRIB [+R | -R] [+A | -A] [+S | -S] [+H | -H] [+I | -I]

[drive:][path][filename] [/S [/D] [/L]]

+ Sets an attribute.

- Clears an attribute.

R Read-only file attribute.

A Archive file attribute.

S System file attribute.

H Hidden file attribute.

I Not content indexed file attribute.

X No scrub file attribute.

V Integrity 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.

/L Work on the attributes of the Symbolic Link versus
the target of the Symbolic Link

BREAK

Sets or Clears Extended CTRL+C checking on DOS system

This is present for Compatibility with DOS systems. It has no effect
under Windows.

If Command Extensions are enabled, and running on the Windows
platform, then the BREAK command will enter a hard coded breakpoint
if being debugged by a debugger.

CACLS:

NOTE: Cacls is now deprecated, please use Icacls.

Displays or modifies access control lists (ACLs) of files

CACLS filename [/T] [/M] [/L] [/S[:SDDL]] [/E] [/C] [/G user:perm]

 [/R user [...]] [/P user:perm [...]] [/D user [...]]

filename Displays ACLs.

/T Changes ACLs of specified files in
 the current directory and all subdirectories.

/L Work on the Symbolic Link itself versus the target

/M Changes ACLs of volumes mounted to a directory

/S Displays the SDDL string for the DACL.

/S:SDDL Replaces the ACLs with those specified in the SDDL string
 (not valid with /E, /G, /R, /P, or /D).

/E Edit ACL instead of replacing it.

/C Continue on access denied errors.

/G user:perm Grant specified user access rights.

 Perm can be: R Read

 W Write

 C Change (write)

 F Full control

/R user Revoke specified user's access rights (only valid with /E).

/P user:perm Replace specified user's access rights.

 Perm can be: N None

 R Read

 W Write

 C Change (write)

 F Full control

/D user Deny specified user access.

Wildcards can be used to specify more than one file in a command.

You can specify more than one user in a command.

Abbreviations:

CI - Container Inherit.

The ACE will be inherited by directories.

OI - Object Inherit.

The ACE will be inherited by files.

IO - Inherit Only.

The ACE does not apply to the current file/directory.

ID - Inherited.

The ACE was inherited from the parent directory's ACL.

BCDEDIT :

Boot Configuration Data Store Editor

The Bcdedit.exe command-line tool modifies the boot configuration data store.

The boot configuration data store contains boot configuration parameters and controls how the operating system is booted. These parameters were previously in the Boot.ini file (in BIOS-based operating systems) or in the nonvolatile RAM entries (in Extensible Firmware Interface-based operating systems). You can use Bcdedit.exe to add, delete, edit, and append entries in the boot configuration data store.

For detailed command and option information, type `bcdedit.exe /? <command>`. For example, to display detailed information about the `/createstore` command, type:

```
bcdedit.exe /? /createstore
```

For an alphabetical list of topics in this help file, run "bcdedit /? TOPICS".

Commands that operate on a store

=====

`/createstore` Creates a new and empty boot configuration data store.

`/export` Exports the contents of the system store to a file. This file can be used later to restore the state of the system store.

`/import` Restores the state of the system store using a backup file created with the `/export` command.

`/sysstore` Sets the system store device (only affects EFI systems, does not persist across reboots, and is only used in cases where the system store device is ambiguous).

Commands that operate on entries in a store

=====

`/copy` Makes copies of entries in the store.

`/create` Creates new entries in the store.

`/delete` Deletes entries from the store.

`/mirror` Creates mirror of entries in the store.

Run `bcdedit /? ID` for information about identifiers used by these commands.

Commands that operate on entry options

=====

`/deletevalue` Deletes entry options from the store.

`/set` Sets entry option values in the store.

Run `bcdedit /? TYPES` for a list of datatypes used by these commands.

Run `bcdedit /? FORMATS` for a list of valid data formats.

Commands that control output

=====

`/enum` Lists entries in the store.

`/v` Command-line option that displays entry identifiers in full, rather than using names for well-known identifiers.

Use `/v` by itself as a command to display entry identifiers in full for the ACTIVE type.

Running "bcdedit" by itself is equivalent to running "bcdedit /enum ACTIVE".

Commands that control the boot manager

=====

`/bootsequence` Sets the one-time boot sequence for the boot manager.

`/default` Sets the default entry that the boot manager will use.

`/displayorder` Sets the order in which the boot manager displays the multiboot menu.

`/timeout` Sets the boot manager time-out value.

`/toolsdisplayorder` Sets the order in which the boot manager displays the tools menu.

Commands that control Emergency Management Services for a boot application

=====

`/bootems` Enables or disables Emergency Management Services for a boot application.

`/ems` Enables or disables Emergency Management Services for an operating system entry.

`/emssettings` Sets the global Emergency Management Services parameters.

Command that control debugging

=====

`/bootdebug` Enables or disables boot debugging for a boot application.

`/dbgsettings` Sets the global debugger parameters.

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