

Restarting Windows from within a .NET application

Asked 15 years, 11 months ago Modified 6 years, 6 months ago

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How could I restart or shutdown Windows using the .NET framework?

23



c#

.net

winforms



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edited Apr 10, 2012 at 16:57



[abatishchev](#)

100k ● 88 ● 301 ● 442

asked Jan 20, 2009 at 18:03



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-
- 2 The answers provided here will most probably be of a higher quality. If you don't know the best solution to a problem yet, how could you know that the first hit on Google is the best way to solve it? Btw, the first hit for me was a dead link...
– [Dirk Vollmar](#) Jan 20, 2009 at 18:13
-

- 2 I'd guess that 80% of the programming-related questions here can easily be answered by using Google, but the purpose of this site is also to be a knowledge base providing high-quality answers which will one day become the first hit on Google. – [Dirk Vollmar](#) Jan 20, 2009 at 18:27
-

8 Answers

Sorted by:

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46



The following code will execute the shutdown command from the shell:

```
// using System.Diagnostics;

class Shutdown
{
    /// <summary>
    /// Windows restart
    /// </summary>
    public static void Restart()
    {
        StartShutDown("-f -r -t 5");
    }

    /// <summary>
    /// Log off.
    /// </summary>
    public static void LogOff()
    {
        StartShutDown("-l");
    }

    /// <summary>
    /// Shutting Down Windows
    /// </summary>
    public static void Shut()
    {
        StartShutDown("-f -s -t 5");
    }
}
```

```
private static void StartShutdown(string param)
{
    ProcessStartInfo proc = new ProcessStartInfo()
    proc.FileName = "cmd";
    proc.WindowStyle = ProcessWindowStyle.Hidden;
    proc.Arguments = "/C shutdown " + param;
    Process.Start(proc);
}
}
```

(Source: <http://dotnet-snippets.de/dns/c-windows-herrunterfahren-ausloggen-neustarten-SID455.aspx>)

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answered Jan 20, 2009 at 18:07

Follow



Dirk Vollmar

176k ● 53 ● 259 ● 316

1 +1 Simple solution for what could have been a complex question. – [dance2die](#) Apr 4, 2009 at 18:12

-f will be auto with -t > 0 so can be skipped – [user1005462](#) Sep 16, 2023 at 9:21



Here is P/Invoke way:

8



```
namespace pcController
{
    /// <summary>
    /// Specifies the type of restart options that an
    /// </summary>
    public enum RestartOptions
    {
        /// <summary>
        /// Shuts down all processes running in the se
        process that called the ExitWindowsEx function. Then i
```

```

    /// </summary>
    LogOff = 0,
    /// <summary>
    /// Shuts down the system and turns off the po
support the power-off feature.
    /// </summary>
    PowerOff = 8,
    /// <summary>
    /// Shuts down the system and then restarts th
    /// </summary>
    Reboot = 2,
    /// <summary>
    /// Shuts down the system to a point at which
the power. All file buffers have been flushed to disk,
processes have stopped. If the system supports the pow
is also turned off.
    /// </summary>
    ShutDown = 1,
    /// <summary>
    /// Suspends the system.
    /// </summary>
    Suspend = -1,
    /// <summary>
    /// Hibernates the system.
    /// </summary>
    Hibernate = -2,
}
/// <summary>
/// An LUID is a 64-bit value guaranteed to be uni
which it was generated. The uniqueness of a locally un
guaranteed only until the system is restarted.
    /// </summary>
[StructLayout(LayoutKind.Sequential, Pack = 1)]
internal struct LUID
{
    /// <summary>
    /// The low order part of the 64 bit value.
    /// </summary>
    public int LowPart;
    /// <summary>
    /// The high order part of the 64 bit value.
    /// </summary>
    public int HighPart;
}

```

```

    /// <summary>
    /// The LUID_AND_ATTRIBUTES structure represents a
    identifier (LUID) and its attributes.
    /// </summary>
    [StructLayout(LayoutKind.Sequential, Pack = 1)]
    internal struct LUID_AND_ATTRIBUTES
    {
        /// <summary>
        /// Specifies an LUID value.
        /// </summary>
        public LUID pLuid;
        /// <summary>
        /// Specifies attributes of the LUID. This val
        bit flags. Its meaning is dependent on the definition
        /// </summary>
        public int Attributes;
    }
    /// <summary>
    /// The TOKEN_PRIVILEGES structure contains inform
    privileges for an access token.
    /// </summary>
    [StructLayout(LayoutKind.Sequential, Pack = 1)]
    internal struct TOKEN_PRIVILEGES
    {
        /// <summary>
        /// Specifies the number of entries in the Pri
        /// </summary>
        public int PrivilegeCount;
        /// <summary>
        /// Specifies an array of LUID_AND_ATTRIBUTES
        structure contains the LUID and attributes of a privil
        /// </summary>
        public LUID_AND_ATTRIBUTES Privileges;
    }
    /// <summary>
    /// Implements methods to exit Windows.
    /// </summary>
    public class LibClass
    {
        /// <summary>Required to enable or disable the
        token.</summary>
        private const int TOKEN_ADJUST_PRIVILEGES = 0x
        /// <summary>Required to query an access token
        private const int TOKEN_QUERY = 0x8;
    }

```

```

    /// <summary>The privilege is enabled.</summary>
    private const int SE_PRIVILEGE_ENABLED = 0x2;
    /// <summary>Specifies that the function should use the
message-table resource(s) for the requested message.</summary>
    private const int FORMAT_MESSAGE_FROM_SYSTEM = 0x00000010;
    /// <summary>Forces processes to terminate. When the
system does not send the WM_QUERYENDSESSION and WM_ENDSESSION
can cause the applications to lose data. Therefore, you should use
flag in an emergency.</summary>
    private const int EWX_FORCE = 4;
    /// <summary>
    /// The LoadLibrary function maps the specified module into
the address space of the calling process.
    /// </summary>
    /// <param name="lpLibFileName">Pointer to a null-terminated
string that names the executable module (either a .dll or .exe). If
specified is the file name of the module and is not relative to the
current directory, the library module itself, as specified by the LIBRARY
module-definition (.def) file.</param>
    /// <returns>If the function succeeds, the return value is a
handle to the module.<br><br>If the function fails, the return value is
zero. To get extended error information, call Marshal.GetLastWin32Error.
[DllImport("kernel32.dll", EntryPoint = "LoadLibraryA",
CharSet.Ansi)]
    private static extern IntPtr LoadLibrary(string lpLibFileName);
    /// <summary>
    /// The FreeLibrary function decrements the reference count for the
loaded dynamic-link library (DLL). When the reference count reaches
zero, the module is unmapped from the address space of the calling
process and is no longer valid.
    /// </summary>
    /// <param name="hLibModule">Handle to the loaded module. This
handle is returned by LoadLibrary or GetModuleHandle function.</param>
    /// <returns>If the function succeeds, the return value is a
handle to the module.<br><br>If the function fails, the return value is
zero. To get extended error information, call Marshal.GetLastWin32Error.
[DllImport("kernel32.dll", EntryPoint = "FreeLibraryA",
CharSet.Ansi)]
    private static extern int FreeLibrary(IntPtr hLibModule);
    /// <summary>
    /// The GetProcAddress function retrieves the address of the
specified function or variable from the specified dynamic-link library
(DLL).
    /// </summary>
    /// <param name="hModule">Handle to the DLL module.</param>
    /// <param name="lpProcName">Pointer to a null-terminated string
that contains the name of the function or variable to be retrieved.
    /// </param>
    /// <returns>If the function succeeds, the return value is a
pointer to the function or variable. If the function fails, the return
value is zero. To get extended error information, call
Marshal.GetLastWin32Error.
[DllImport("kernel32.dll", EntryPoint = "GetProcAddress",
CharSet.Ansi)]
    private static extern IntPtr GetProcAddress(IntPtr hModule,
string lpProcName);

```

function or variable. The LoadLibrary or GetModuleHandle.

/// <param name="lpProcName">Pointer to a null containing the function or variable name, or the function name. If this parameter is an ordinal value, it must be in the order word must be zero.</param>

/// <returns>If the function succeeds, the return value is the address of the exported function or variable. If the return value is NULL. To get extended error information, call Marshal.GetLastWin32Error.</returns>

```
[DllImport("kernel32.dll", EntryPoint = "GetProcAddress", CharSet.Ansi)]
```

```
private static extern IntPtr GetProcAddress(IntPtr lpProcName);
```

/// <summary>

/// The SetSuspendState function suspends the system (sleep) state or hibernation (S4). If the ForceFlag parameter is TRUE, the system suspends operation immediately; if it is FALSE, the system suspends operation after a delay. If the ForceFlag parameter is TRUE, permission from all applications and device drivers be

/// </summary>

/// <param name="Hibernate">Specifies the state the system hibernates. If FALSE, the system is suspended.

/// <param name="ForceCritical">Forced suspend function broadcasts a PBT_APMSPUSPEND event to each application to request that the application immediately suspends operation. If FALSE, the function broadcasts a PBT_APMQUERYSPUSPEND event to each application to request that the application suspends operation.</param>

/// <param name="DisableWakeEvent">If TRUE, the system disables system wake events. If FALSE, any system wake events remain enabled.

/// <returns>If the function succeeds, the return value is non-zero. If the function fails, the return value is zero. For extended error information, call Marshal.GetLastWin32Error.</returns>

```
[DllImport("powrprof.dll", EntryPoint = "SetSystemPowerState", CharSet.Ansi)]
```

```
private static extern int SetSuspendState(int ForceCritical, int DisableWakeEvent);
```

/// <summary>

/// The OpenProcessToken function opens the access token of the specified process.

/// </summary>

/// <param name="ProcessHandle">Handle to the process whose access token is opened.</param>

/// <param name="DesiredAccess">Specifies an access mask that indicates the desired access to the access token.

```

the requested types of access to the access token. The
are compared with the token's discretionary access-con
determine which accesses are granted or denied.</param
    /// <param name="TokenHandle">Pointer to a han
newly-opened access token when the function returns.</
    /// <returns>If the function succeeds, the ret
</br><br>If the function fails, the return value is ze
information, call Marshal.GetLastWin32Error.</br></ret
[DllImport("advapi32.dll", EntryPoint = "OpenP
CharSet.Ansi)]
    private static extern int OpenProcessToken(Int
DesiredAccess, ref IntPtr TokenHandle);
    /// <summary>
    /// The LookupPrivilegeValue function retrieve
identifier (LUID) used on a specified system to locall
privilege name.
    /// </summary>
    /// <param name="lpSystemName">Pointer to a nu
specifying the name of the system on which the privile
a null string is specified, the function attempts to f
the local system.</param>
    /// <param name="lpName">Pointer to a null-ter
specifies the name of the privilege, as defined in the
example, this parameter could specify the constant SE_
corresponding string, "SeSecurityPrivilege".</param>
    /// <param name="lpLuid">Pointer to a variable
locally unique identifier by which the privilege is kn
specified by the lpSystemName parameter.</param>
    /// <returns>If the function succeeds, the ret
</br><br>If the function fails, the return value is ze
information, call Marshal.GetLastWin32Error.</br></ret
[DllImport("advapi32.dll", EntryPoint = "Looku
CharSet = CharSet.Ansi)]
    private static extern int LookupPrivilegeValue
string lpName, ref LUID lpLuid);
    /// <summary>
    /// The AdjustTokenPrivileges function enables
in the specified access token. Enabling or disabling p
token requires TOKEN_ADJUST_PRIVILEGES access.
    /// </summary>
    /// <param name="TokenHandle">Handle to the ac
the privileges to be modified. The handle must have TO
access to the token. If the PreviousState parameter is
must also have TOKEN_QUERY access.</param>

```



```

    /// <param name="DisableAllPrivileges">Specifi
disables all of the token's privileges. If this value
disables all privileges and ignores the NewState param
function modifies privileges based on the information
NewState parameter.</param>
    /// <param name="NewState">Pointer to a TOKEN_
specifies an array of privileges and their attributes.
DisableAllPrivileges parameter is FALSE, AdjustTokenPr
disables these privileges for the token. If you set th
attribute for a privilege, the function enables that p
disables the privilege. If DisableAllPrivileges is TRU
this parameter.</param>
    /// <param name="BufferLength">Specifies the s
buffer pointed to by the PreviousState parameter. This
the PreviousState parameter is NULL.</param>
    /// <param name="PreviousState">Pointer to a b
fills with a TOKEN_PRIVILEGES structure that contains
privileges that the function modifies. This parameter
    /// <param name="ReturnLength">Pointer to a va
required size, in bytes, of the buffer pointed to by t
parameter. This parameter can be NULL if PreviousState
    /// <returns>If the function succeeds, the ret
determine whether the function adjusted all of the spe
Marshal.GetLastWin32Error.</returns>
[DllImport("advapi32.dll", EntryPoint = "Adjus
CharSet = CharSet.Ansi)]
private static extern int AdjustTokenPrivilege
DisableAllPrivileges, ref TOKEN_PRIVILEGES NewState, i
TOKEN_PRIVILEGES PreviousState, ref int ReturnLength);
    /// <summary>
    /// The ExitWindowsEx function either logs off
down the system, or shuts down and restarts the system
WM_QUERYENDSESSION message to all applications to dete
terminated.
    /// </summary>
    /// <param name="uFlags">Specifies the type of
    /// <param name="dwReserved">This parameter is
    /// <returns>If the function succeeds, the ret
</br><br>If the function fails, the return value is ze
information, call Marshal.GetLastWin32Error.</br></ret
[DllImport("user32.dll", EntryPoint = "ExitWin
CharSet.Ansi)]
private static extern int ExitWindowsEx(int uF
    /// <summary>

```

/// The FormatMessage function formats a message. The function requires a message definition as input. The message definition is a buffer passed into the function. It can come from a message table in an already-loaded module. Or the caller can ask the function to find the message definition in a message table resource in the system's message table resource(s) for the message definition identifier and a language identifier. The function copies the text to an output buffer, processing any embedded insertions as requested.

/// </summary>

/// <param name="dwFlags">Specifies aspects of the message and how to interpret the lpSource parameter. The dwFlags parameter specifies how the function handles line breaks in the message. The order byte can also specify the maximum width of a format string. </param>

/// <param name="lpSource">Specifies the location of the message definition. The type of this parameter depends upon the dwFlags parameter. </param>

/// <param name="dwMessageId">Specifies the message identifier for the requested message. This parameter is ignored if dwFlags includes FORMAT_MESSAGE_FROM_STRING. </param>

/// <param name="dwLanguageId">Specifies the language identifier for the requested message. This parameter is ignored if dwFlags includes FORMAT_MESSAGE_FROM_STRING. </param>

/// <param name="lpBuffer">Pointer to a buffer (or NULL) to receive the null-terminated message. If dwFlags includes FORMAT_MESSAGE_ALLOCATE_BUFFER, the function allocates a buffer using the LocalAlloc function. If lpBuffer is a pointer to the buffer at the address specified in lpBuffer, the function copies the message to the buffer. </param>

/// <param name="nSize">If the FORMAT_MESSAGE_ALLOCATE_BUFFER flag is not set, this parameter specifies the maximum number of characters to be stored in the output buffer. If FORMAT_MESSAGE_ALLOCATE_BUFFER is set, this parameter specifies the minimum number of TCHARs to allocate for the output buffer. For ANSI text, this is the number of bytes; for Unicode text, this is the number of characters. </param>

/// <param name="Arguments">Pointer to an array of pointers to strings as insert values in the formatted message. A %1 in the message indicates the first value in the Arguments array; a %2 indicates the second value, so on. </param>

/// <returns>If the function succeeds, the return value is the number of TCHARs stored in the output buffer, excluding the terminating null character.

If the function fails, the return value is zero. To get extended error information, call Marshal.GetLastWin32Error. </returns>

[DllImport("user32.dll", EntryPoint = "FormatMessage", CharSet = CharSet.Ansi)]

```

        private static extern int FormatMessage(int dw
int dwMessageId, int dwLanguageId, StringBuilder lpBuf
Arguments);
        /// <summary>
        /// Exits windows (and tries to enable any req
necesarry).
        /// </summary>
        /// <param name="how">One of the RestartOption
how to exit windows.</param>
        /// <param name="force">True if the exit has t
otherwise.</param>
        /// <exception cref="PrivilegeException">There
requesting a required privilege.</exception>
        /// <exception cref="PlatformNotSupportedExcep
method is not supported on this platform.</exception>
        public static void ExitWindows(RestartOptions
        {
            switch (how)
            {
                case RestartOptions.Suspend:
                    SuspendSystem(false, force);
                    break;
                case RestartOptions.Hibernate:
                    SuspendSystem(true, force);
                    break;
                default:
                    ExitWindows((int)how, force);
                    break;
            }
        }
        /// <summary>
        /// Exits windows (and tries to enable any req
necesarry).
        /// </summary>
        /// <param name="how">One of the RestartOption
how to exit windows.</param>
        /// <param name="force">True if the exit has t
otherwise.</param>
        /// <remarks>This method cannot hibernate or s
</remarks>
        /// <exception cref="PrivilegeException">There
requesting a required privilege.</exception>
        protected static void ExitWindows(int how, boo
        {

```

```

        EnableToken("SeShutdownPrivilege");
        if (force)
            how = how | EWX_FORCE;
        if (ExitWindowsEx(how, 0) == 0)
            throw new
PrivilegeException(FormatError(Marshal.GetLastWin32Err
    }
    /// <summary>
    /// Tries to enable the specified privilege.
    /// </summary>
    /// <param name="privilege">The privilege to e
    /// <exception cref="PrivilegeException">There
requesting a required privilege.</exception>
    protected static void EnableToken(string privi
    {
        if (!CheckEntryPoint("advapi32.dll", "Adju
            return;
        IntPtr tokenHandle = IntPtr.Zero;
        LUID privilegeLUID = new LUID();
        TOKEN_PRIVILEGES newPrivileges = new TOKEN
        TOKEN_PRIVILEGES tokenPrivileges;
        if (OpenProcessToken(Process.GetCurrentPro
        TOKEN_ADJUST_PRIVILEGES | TOKEN_QUERY, ref tokenHandle
            throw new
PrivilegeException(FormatError(Marshal.GetLastWin32Err
            if (LookupPrivilegeValue("", privilege, re
                throw new
PrivilegeException(FormatError(Marshal.GetLastWin32Err
                tokenPrivileges.PrivilegeCount = 1;
                tokenPrivileges.Privileges.Attributes = SE
                tokenPrivileges.Privileges.pLuid = privile
                int size = 4;
                if (AdjustTokenPrivileges(tokenHandle, 0,
(12 * tokenPrivileges.PrivilegeCount), ref newPrivileg
                    throw new
PrivilegeException(FormatError(Marshal.GetLastWin32Err
        }
        /// <summary>
        /// Suspends or hibernates the system.
        /// </summary>
        /// <param name="hibernate">True if the system
if the system has to be suspended.</param>
        /// <param name="force">True if the exit has t
otherwise.</param>

```

```

        /// <exception cref="PlatformNotSupportedExcep
method is not supported on this platform.</exception>
        protected static void SuspendSystem(bool hiber
        {
            if (!CheckEntryPoint("powrprof.dll", "SetS
                throw new PlatformNotSupportedExceptio
method is not supported on this system!");
            SetSuspendState((int)(hibernate ? 1 : 0),
        }
        /// <summary>
        /// Checks whether a specified method exists o
        /// </summary>
        /// <param name="library">The library that hol
        /// <param name="method">The entry point of th
</param>
        /// <returns>True if the specified method is p
</returns>
        protected static bool CheckEntryPoint(string l
        {
            IntPtr libPtr = LoadLibrary(library);
            if (!libPtr.Equals(IntPtr.Zero))
            {
                if (!GetProcAddress(libPtr, method).Eq
                {
                    FreeLibrary(libPtr);
                    return true;
                }
                FreeLibrary(libPtr);
            }
            return false;
        }
        /// <summary>
        /// Formats an error number into an error mess
        /// </summary>
        /// <param name="number">The error number to c
        /// <returns>A string representation of the sp
</returns>
        protected static string FormatError(int number
        {
            StringBuilder buffer = new StringBuilder(2
            FormatMessage(FORMAT_MESSAGE_FROM_SYSTEM,
buffer, buffer.Capacity, 0);
            return buffer.ToString();
        }
    }

```

```

    }
    /// <summary>
    /// The exception that is thrown when an error occurs
    specific privilege.
    /// </summary>
    public class PrivilegeException : Exception
    {
        /// <summary>
        /// Initializes a new instance of the Privilege
        /// </summary>
        public PrivilegeException() : base() { }
        /// <summary>
        /// Initializes a new instance of the Privilege
        specified error message.
        /// </summary>
        /// <param name="message">The message that describes
        public PrivilegeException(string message) : base(message)
    }
}

```

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edited Aug 31, 2012 at 7:46

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answered Jan 20, 2009 at 18:45



[abatishchev](#)

100k ● 88 ● 301 ● 442

While this link may answer the question, it is better to include the essential parts of the answer here and provide the link for reference. Link-only answers can become invalid if the linked page changes. – [Himanshu](#) Aug 31, 2012 at 3:34

- 1 @hims056: Absolutely, this was my very old post :)
– [abatishchev](#) Aug 31, 2012 at 7:46
-

Nice. This came in my attention when I was reviewing [Low Quality Posts](#) – [Himanshu](#) Aug 31, 2012 at 7:48



I don't know a pure .NET way to do it. Your options include:

7



- P/Invoke the [ExitWindowsEx Win32 function](#)
- Use Process.Start to run shutdown.exe as already suggested.



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answered Jan 20, 2009 at 18:09

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driis

164k ● 46 ● 270 ● 345

I need to do this, and I already found the ExitWindowsEx function. I am using this in my code (C++), but it is not working: `ExitWindowsEx(EWX_REBOOT, 5);`. I read on MSDN that it is better to do this than to use `System("shutdown.exe -r -t 05");` What is wrong with my code? – user2509848 Dec 26, 2013 at 16:18 ✎

It might be an access rights problem. Does the user the code is running under, have rights to reboot the machine ? – driis Dec 27, 2013 at 13:54

I do not know. I am in a standard account, but I did try it in an admin account. UAC may have blocked it - I keep it set all the way high. Also, I am on Windows 8.1, which is reputed to have excellent security features. I solved the problem with `system("shutdown -s");`. Thanks for your help. – user2509848 Dec 27, 2013 at 15:14



The best way I saw:

6

```
System.Diagnostics.Process.Start("cmd.exe /c shutdown")
```




Also there are few WinAPI ways..



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answered Jan 20, 2009 at 18:07



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[abatishchev](#)

100k ● 88 ● 301 ● 442

FWIW, this failed for me, but a variation worked:
System.Diagnostics.Process.Start("cmd.exe", \$"/c shutdown /r /f /t {afterSeconds}"); Adding the seconds allows your application to shut down and shows a message on the screen. – [mj2008](#) Nov 14, 2019 at 9:55



6



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;
// Remember to add a reference to the System.Management
using System.Management;

namespace ShutDown
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void btnShutDown_Click(object sender,
        {
            ManagementBaseObject mboShutdown = null;
            ManagementClass mcWin32 = new
ManagementClass("Win32_OperatingSystem");
            mcWin32.Get();
        }
    }
}
```



```
// You can't shutdown without security pri
mcWin32.Scope.Options.EnablePrivileges = t
ManagementBaseObject mboShutdownParams =
mcWin32.GetMethodParameters("Win32Shutdown");
// Flag 1 means we want to shut down the s
mboShutdownParams["Flags"] = "1";
mboShutdownParams["Reserved"] = "0";
foreach (ManagementObject manObj in mcWin3
{
    mboShutdown = manObj.InvokeMethod("Win
mboShutdownParams, null);
}
}
}
```

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answered Jan 20, 2009 at 18:09

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mapache

1,361 ● 9 ● 11



You can use WMI, with LINQ to smooth over its rough spots.

6



```
const int restart = 2;
var management = new ManagementClass("Win32_OperatingS
management.Scope.Options.EnablePrivileges = true;
management.GetInstances().OfType<ManagementObject>
().First().InvokeMethod("Win32Shutdown", new object[]
```

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answered Jun 1, 2018 at 20:41

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Edward Brey

41.6k ● 21 ● 209 ● 265

check this aticle.. that gives the answers for ur question



0

<http://www.codeproject.com/KB/cs/timercomputershutdown.aspx>

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answered Jan 20, 2009 at 18:14



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0

If you don't mind using the WinAPI, you could call the ExitWindows function, in user32.dll. Here's an article telling you all about it:

<http://www.eggheadcafe.com/tutorials/aspnet/e5ef4e3e-6f42-4b9b-8834-04366ce32c96/net-lock-logoff-reboot.aspx>



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answered Jan 20, 2009 at 18:14

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gkrogers

8,336 ● 3 ● 30 ● 36