HostingEnvironment Class

**.NET Framework 4**

[Other Versions](javascript:;)

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Provides application-management functions and application services to a managed application within its application domain. This class cannot be inherited.

[Inheritance Hierarchy](javascript:void(0))

[System.Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx)  
  [System.MarshalByRefObject](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject(v=vs.100).aspx)  
    System.Web.Hosting.HostingEnvironment

**Namespace:**  [System.Web.Hosting](http://msdn.microsoft.com/en-us/library/system.web.hosting(v=vs.100).aspx)  
**Assembly:**  System.Web (in System.Web.dll)

[Syntax](javascript:void(0))

C#

[**C++**](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment(v=vs.100).aspx?cs-save-lang=1&cs-lang=cpp#code-snippet-1)

[**F#**](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment(v=vs.100).aspx?cs-save-lang=1&cs-lang=fsharp#code-snippet-1)

[**VB**](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment(v=vs.100).aspx?cs-save-lang=1&cs-lang=vb#code-snippet-1)

public sealed class HostingEnvironment : MarshalByRefObject

The HostingEnvironment type exposes the following members.

[Constructors](javascript:void(0))

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public method | [HostingEnvironment](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.hostingenvironment(v=vs.100).aspx) | Infrastructure. Initializes a new instance of the HostingEnvironment class. |

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[Properties](javascript:void(0))

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public propertyStatic member | [ApplicationHost](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.applicationhost(v=vs.100).aspx) | This property supports the ASP.NET infrastructure and is not intended to be used directly from your code. |
| Public propertyStatic member | [ApplicationID](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.applicationid(v=vs.100).aspx) | Gets the unique identifier of the application. |
| Public propertyStatic member | [ApplicationPhysicalPath](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.applicationphysicalpath(v=vs.100).aspx) | Gets the physical path on disk to the application's directory. |
| Public propertyStatic member | [ApplicationVirtualPath](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.applicationvirtualpath(v=vs.100).aspx) | Gets the root virtual path of the application. |
| Public propertyStatic member | [Cache](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.cache(v=vs.100).aspx) | Gets the [Cache](http://msdn.microsoft.com/en-us/library/system.web.caching.cache(v=vs.100).aspx) instance for the current application. |
| Public propertyStatic member | [InClientBuildManager](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.inclientbuildmanager(v=vs.100).aspx) | Gets a value that indicates whether the hosting environment has access to the ASP.NET build system. |
| Public propertyStatic member | [InitializationException](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.initializationexception(v=vs.100).aspx) | Gets any exception thrown during initialization of the HostingEnvironment object. |
| Public propertyStatic member | [IsHosted](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.ishosted(v=vs.100).aspx) | Gets a value indicating whether the current application domain is being hosted by an[ApplicationManager](http://msdn.microsoft.com/en-us/library/system.web.hosting.applicationmanager(v=vs.100).aspx) object. |
| Public propertyStatic member | [MaxConcurrentRequestsPerCPU](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.maxconcurrentrequestspercpu(v=vs.100).aspx) | Gets or sets the maximum concurrent requests per CPU. |
| Public propertyStatic member | [MaxConcurrentThreadsPerCPU](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.maxconcurrentthreadspercpu(v=vs.100).aspx) | Gets or sets the maximum concurrent threads per CPU. |
| Public propertyStatic member | [ShutdownReason](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.shutdownreason(v=vs.100).aspx) | Returns an enumerated value that indicates why the application terminated. |
| Public propertyStatic member | [SiteName](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.sitename(v=vs.100).aspx) | Gets the name of the site. |
| Public propertyStatic member | [VirtualPathProvider](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.virtualpathprovider(v=vs.100).aspx) | Gets the virtual path provider for this application. |

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[Methods](javascript:void(0))

|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public method | [CreateObjRef](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject.createobjref(v=vs.100).aspx) | Creates an object that contains all the relevant information required to generate a proxy used to communicate with a remote object. (Inherited from [MarshalByRefObject](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject(v=vs.100).aspx).) |
| Public methodStatic member | [DecrementBusyCount](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.decrementbusycount(v=vs.100).aspx) | Reduces the count of busy objects in the hosted environment by one. |
| Public method | [Equals(Object)](http://msdn.microsoft.com/en-us/library/bsc2ak47(v=vs.100).aspx) | Determines whether the specified [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx) is equal to the current [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx). (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Protected method | [Finalize](http://msdn.microsoft.com/en-us/library/system.object.finalize(v=vs.100).aspx) | Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Public method | [GetHashCode](http://msdn.microsoft.com/en-us/library/system.object.gethashcode(v=vs.100).aspx) | Serves as a hash function for a particular type. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Public method | [GetLifetimeService](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject.getlifetimeservice(v=vs.100).aspx) | Retrieves the current lifetime service object that controls the lifetime policy for this instance.(Inherited from [MarshalByRefObject](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject(v=vs.100).aspx).) |
| Public method | [GetType](http://msdn.microsoft.com/en-us/library/system.object.gettype(v=vs.100).aspx) | Gets the [Type](http://msdn.microsoft.com/en-us/library/system.type(v=vs.100).aspx) of the current instance. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Public methodStatic member | [Impersonate()](http://msdn.microsoft.com/en-us/library/19kx3yy8(v=vs.100).aspx) | Impersonates the user represented by the application identity. |
| Public methodStatic member | [Impersonate(IntPtr)](http://msdn.microsoft.com/en-us/library/sss8y6yx(v=vs.100).aspx) | Impersonates the user represented by the specified user token. |
| Public methodStatic member | [Impersonate(IntPtr, String)](http://msdn.microsoft.com/en-us/library/hecf4txa(v=vs.100).aspx) | Impersonates the user specified by the configuration settings for the specified virtual path, or the specified user token. |
| Public methodStatic member | [IncrementBusyCount](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.incrementbusycount(v=vs.100).aspx) | Increases the count of busy objects in the hosted environment by one. |
| Public method | [InitializeLifetimeService](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.initializelifetimeservice(v=vs.100).aspx) | Infrastructure. Gives the HostingEnvironment object an infinite lifetime by preventing a lease from being created. (Overrides [MarshalByRefObject.InitializeLifetimeService()](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject.initializelifetimeservice(v=vs.100).aspx).) |
| Public methodStatic member | [InitiateShutdown](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.initiateshutdown(v=vs.100).aspx) | Starts shutting down the Web application associated with this host and removes registered objects from the system. |
| Public methodStatic member | [MapPath](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.mappath(v=vs.100).aspx) | Maps a virtual path to a physical path on the server. |
| Protected method | [MemberwiseClone()](http://msdn.microsoft.com/en-us/library/system.object.memberwiseclone(v=vs.100).aspx) | Creates a shallow copy of the current [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx). (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Protected method | [MemberwiseClone(Boolean)](http://msdn.microsoft.com/en-us/library/ms131262(v=vs.100).aspx) | Creates a shallow copy of the current [MarshalByRefObject](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject(v=vs.100).aspx) object. (Inherited from[MarshalByRefObject](http://msdn.microsoft.com/en-us/library/system.marshalbyrefobject(v=vs.100).aspx).) |
| Public methodStatic member | [MessageReceived](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.messagereceived(v=vs.100).aspx) | This method supports the ASP.NET infrastructure and is not intended to be used directly from your code. |
| Public methodStatic member | [RegisterObject](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.registerobject(v=vs.100).aspx) | Places an object in the list of registered objects for the application. |
| Public methodStatic member | [RegisterVirtualPathProvider](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.registervirtualpathprovider(v=vs.100).aspx) | Registers a new [VirtualPathProvider](http://msdn.microsoft.com/en-us/library/system.web.hosting.virtualpathprovider(v=vs.100).aspx) instance with the ASP.NET compilation system. |
| Public methodStatic member | [SetCultures()](http://msdn.microsoft.com/en-us/library/ms151536(v=vs.100).aspx) | Sets the current thread to the culture specified in the application configuration file. |
| Public methodStatic member | [SetCultures(String)](http://msdn.microsoft.com/en-us/library/ms151537(v=vs.100).aspx) | Sets the current thread to the culture of the specified virtual path. |
| Public method | [ToString](http://msdn.microsoft.com/en-us/library/system.object.tostring(v=vs.100).aspx) | Returns a string that represents the current object. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object(v=vs.100).aspx).) |
| Public methodStatic member | [UnregisterObject](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment.unregisterobject(v=vs.100).aspx) | Removes an object from the list of registered objects for the application. |

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[Remarks](javascript:void(0))

Each managed application domain contains a static instance of the HostingEnvironment class, which provides access to application-management functions and application services.

[Examples](javascript:void(0))

The following code example is a Web page that displays the application information available from the HostingEnvironment object.

C#

[**VB**](http://msdn.microsoft.com/en-us/library/system.web.hosting.hostingenvironment(v=vs.100).aspx?cs-save-lang=1&cs-lang=vb#code-snippet-2)

<%@ Page Language="C#" %>

<%@ Import Namespace="System.Web.Hosting" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<script runat="server">

protected void Page\_Load(object sender, EventArgs e)

{

appID.Text = HostingEnvironment.ApplicationID;

appPPath.Text = HostingEnvironment.ApplicationPhysicalPath;

appVPath.Text = HostingEnvironment.ApplicationVirtualPath;

siteName.Text = HostingEnvironment.SiteName;

}

</script>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Hosting Environment Sample</title>

</head>

<body>

<form id="form1" runat="server">

<div>

<table>

<tr>

<td colspan="2">

<b>HostingEnvironment Properties</b></td>

</tr>

<tr>

<td>

Application ID:

</td>

<td>

<asp:Label ID="appID" runat="server" />

</td>

</tr>

<tr>

<td>

Application Physical Path:

</td>

<td>

<asp:Label ID="appPPath" runat="server" />

</td>

</tr>

<tr>

<td>

Application Virtual Path:

</td>

<td>

<asp:Label ID="appVPath" runat="server" />

</td>

</tr>

<tr>

<td>

Site Name:

</td>

<td>

<asp:Label ID="siteName" runat="server" />

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

[Version Information](javascript:void(0))

.NET Framework

Supported in: 4, 3.5, 3.0, 2.0

[Platforms](javascript:void(0))

Windows 7, Windows Vista SP1 or later, Windows XP SP3, Windows XP SP2 x64 Edition, Windows Server 2008 (Server Core not supported), Windows Server 2008 R2 (Server Core supported with SP1 or later), Windows Server 2003 SP2