

How do I determine the ASP.NET version of a virtual directory or website using C#?

Asked 15 years, 9 months ago Modified 12 years, 6 months ago Viewed 4k times



How do I find out the .NET framework of an IIS virtual directory is using in C#. I need to display it to the user.

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```
using System.DirectoryServices;
using System.IO;

private enum IISVersion
{
    IIS5,
    IIS6
}

private void ReadVirtualDirectory(string server, string directory, IISVersion version)
{
    string siteID = string.Empty;
    string path = string.Empty;

    switch(verison)
    {
        case IISVersion.IIS5:
            path = string.Format("IIS://{0}/W3SVC/1/Root", server);

            if(!string.IsNullOrEmpty(directory))
            {
                path = string.Concat(path, "/", directory);
            }

            break;

        case IISVersion.IIS6:
            path = string.Format("IIS://{0}/W3SVC", server);

            if(!string.IsNullOrEmpty(directory))
            {
                DirectoryEntry de = new DirectoryEntry(path);

                foreach(DirectoryEntry child in de.Children)
                {
                    if(child.Properties["ServerComment"].Value.ToString().ToLower() == directory)
                    {
                        siteID = child.Name;
                        break;
                    }
                }

                path = string.Concat(path, "/", siteID);
            }

            de.Close()
```

```

        de = null;
    }

    break;
}

DirectoryEntry iis = new DirectoryEntry(path);

//display iis properties here...
//need to display if the virtual directory is running under .NET 1.1 or 2.0

iis.Close();
iis = null;
}

```

c# asp.net iis directoryservices

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edited Mar 11, 2009 at 23:42



Kev

120k ● 53 ● 305 ● 390

asked Mar 11, 2009 at 22:04



Michael Kniskern

25.2k ● 70 ● 169 ● 233

Nice code. What does it do right? What does it do wrong? Doesn't it answer the question you asked? If not, why not? – [John Saunders](#) Mar 11, 2009 at 22:21

you want to know what .NET framework or what version of IIS? – [RSolberg](#) Mar 11, 2009 at 22:32

I want to know the .NET framework. – [Michael Kniskern](#) Mar 11, 2009 at 22:44

@Kev - No need to rollback. That is a better title for my question. – [Michael Kniskern](#) Mar 11, 2009 at 23:44

2 Answers

Sorted by: Highest score (default) ◆



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In IIS there's no hard and fast way to find out which ASP.NET version is used by a website or 'virtual' directory (website application folder - the one that has cogs as an icon).



The reason for this is that IIS and the metabase data only know about scriptmaps and not ASP.NET versions (after all ASP.NET is just another ISAPI application). One way to determine the version of ASP.NET is to use something like the following:



```

using System;
using System.DirectoryServices;
namespace ConsoleApplication1
{
    class Program
    {

```

```

static void Main(string[] args)
{
    string path = @"IIS://Localhost/W3SVC/1/root/MyApp";
    Console.WriteLine(GetAspNetVersion(path));
}

private static string GetAspNetVersion(string path)
{
    using (DirectoryEntry app = new DirectoryEntry(path))
    {
        PropertyValueCollection pvc = app.Properties["ScriptMaps"];

        foreach (string scriptMap in pvc)
        {
            if (scriptMap.StartsWith(".aspx"))
            {
                string[] mapping = scriptMap.Split(',');
                string scriptProcessor = mapping[1];

                // The version numbers come from the path
                // C:\Windows\Microsoft.NET\Framework\
                // which will be present in the script processor
                // DLL path
                if (scriptProcessor.Contains("v1.1.4322"))
                {
                    return "1.1";
                }

                if (scriptProcessor.Contains("v2.0.50727"))
                {
                    return "2.0";
                }
            }
        }
        throw new Exception("Unknown version ASP.NET version.");
    }
}
}

```

It's not ideal but hasn't failed our needs as a hoster for our provisioning applications/services. I suspect the IIS MMC plug-in performs a similar check behind the scenes. My own detailed examination of the metabase (Windows 2000 and Windows 2003 file based XML) reveals that there isn't a conspicuous property/attribute that stores a specific ASP.NET version number.

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edited Jun 23, 2012 at 1:13

answered Mar 11, 2009 at 23:29

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Kev

120k ● 53 ● 305 ● 390

Thanks for the solution. I will have to modified it to get the framework version for each virtual directory in the web site. – [Michael Kniskern](#) Mar 12, 2009 at 0:56



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It might not be the prettiest method, but if you can grab and parse the output from **aspnet_regiis.exe -lk**, you'll get all the information you need. An example of the output from a SharePoint VHD:



```
C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727>aspnet_Regiis -lk
W3SVC/ 1.1.4322.2407
W3SVC/1/ROOT/Reports/ 2.0.50727.0
W3SVC/1/ROOT/ReportServer/ 2.0.50727.0
W3SVC/1619303638/Root/ 2.0.50727.0
W3SVC/1619303638/Root/_layouts/images/ 1.1.4322.2407
W3SVC/1619303638/Root/_layouts/inc/ 1.1.4322.2407
W3SVC/1720207907/root/ 2.0.50727.0
W3SVC/1720207907/root/SharedServices1/ 2.0.50727.0
W3SVC/1848312571/Root/ 2.0.50727.0
W3SVC/1848312571/Root/_layouts/images/ 1.1.4322.2407
W3SVC/1848312571/Root/_layouts/inc/ 1.1.4322.2407
W3SVC/784543535/Root/ 2.0.50727.0
W3SVC/784543535/Root/_layouts/images/ 1.1.4322.2407
W3SVC/784543535/Root/_layouts/inc/ 1.1.4322.2407
W3SVC/98413328/Root/ 2.0.50727.0
W3SVC/98413328/Root/_layouts/images/ 1.1.4322.2407
W3SVC/98413328/Root/_layouts/inc/ 1.1.4322.2407
```

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answered Mar 11, 2009 at 22:56



[boflynn](#)

3,724 ● 1 ● 28 ● 28