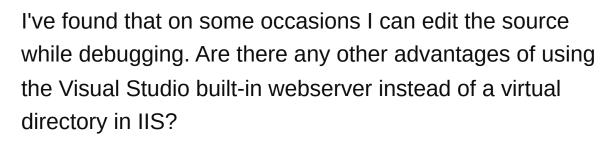
What are the (dis)advantages of using Cassini instead of IIS?

Asked 16 years, 3 months ago Modified 4 years, 9 months ago Viewed 16k times



53







I'm using Windows XP on my development environment, and a local instance of IIS 5. I work on several projects, so I use multiple virtual directories to manage all the different sites.

Are there any disadvantages?

asp.net visual-studio iis cassini

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edited Mar 2, 2020 at 14:53

Peter Mortensen

31.6k • 22 • 109 • 133

asked Sep 19, 2008 at 17:13



sebastiaan 5,920 • 5 • 40 • 70





The built-in web server for Visual Studio is called Cassini and here are a few of its limitations...

61





It does not support HTTPS.



It does not support authentication.



It responds only to localhost requests.



• It is slow startup compared to IIS

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edited Mar 2, 2020 at 14:51



Peter Mortensen **31.6k** • 22 • 109 • 133

answered Sep 19, 2008 at 17:17



pdavis

3,211 • 2 • 31 • 31

Fixed your bulleted line breaks, and upvoted for the https and authentication remarks (separate answers would have got you two votes). – Joel Coehoorn Sep 19, 2008 at 17:20

"It responds only to localhost requests" ...can't stress that enough! That makes it pretty useless for real web serving – mcjabberz Sep 16, 2009 at 20:43

- 7 Since its opensource, you can easily remove the localhost only limitation :). I did. Its easy. Ali Kazmi Nov 15, 2009 at 9:24
- 3 "It responds only to localhost requests" easy fix. Throw an additional entry in your hosts file, say "127.0.0.1

mymachine.local", and you can access it using something other than localhost. Additionally, a couple of people have set up valid domains that resolve to 127.0.0.1 - lvh.me is a good example. This has been a lifesaver for me on a couple of occasions. localhost:123/site.aspx becomes lvh.me/site.aspx. Fiddler friendly! – nerraga Feb 24, 2011 at 17:21

@nerr you know that if you use that, no one will be able to access your site using that url except for you right? – Earlz Jun 7, 2011 at 22:20



All the previous responses are great answers - here's one gottcha with Cassini that might require IIS on the destkop.

16



Cassini runs in the context of the developer, not as the IIS user (IUSR_, IWAM, or in WinXP x64, the w3wp process). This can be a bit painful if you've got a web site

that is accessing external files or creating temp files. It is

most evident when your developer is running as an

Admin of their desktop.

When you move to the server IIS, something that you would have had access to in Cassini doesn't work the same. CACLing with the IIS_WPG usually is all it takes to fix, but if your developer is not thinking about this, they will quickly get quite frustrated with their deploy.

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answered Sep 19, 2008 at 18:20



Christopher G. Lewis **4,836** • 1 • 29 • 46



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Peter Mortensen **31.6k** • 22 • 109 • 133

10



answered Sep 19, 2008 at 18:23



John Sheehan

78.1k • 30 • 161 • 194







It looks like a third option is coming soon:

9

IIS Express.



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edited Mar 2, 2020 at 13:59

Peter Mortensen **31.6k** • 22 • 109 • 133



answered Jul 3, 2010 at 18:16



Glen Little

7,118 • 4 • 49 • 71



Another disadvantage I've run into is on a Forms authenticated website using custom



IPrincipal / IIdentity. Cassini will switch the AppDomains without warning (or notice).



Check this <u>blog post</u> for more. The headache on this made me drop Cassini and stick with IIS.



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edited Aug 17, 2016 at 12:09



answered Sep 19, 2008 at 20:27



Havagan



The Visual Studio web server is less forgiving about // in the path.



It will refuse to serve a link like



http://localhost:52632/main//images/logo.jpg Where IIS will do.



43

That's pretty obscure, but it means we have a lot of fixing to do to get rid of all the // occurrences.

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edited Mar 2, 2020 at 14:14



Peter Mortensen **31.6k** • 22 • 109 • 133

answered Sep 19, 2008 at 17:25





5

The built-in server works well for larger corporations that don't want to give developers any administrator access on their own machines to configure IIS.



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edited Mar 2, 2020 at 14:50



Peter Mortensen **31.6k** • 22 • 109 • 133





I'm sorry but why the hell would a company (any size) want to do that to a developer. That's stupid. Keep us from using native tools that every developer needs to know - in this case understanding and getting to know IIS better which is essential to and helps you be a better web developer as well as when you know IIS well, you save hours of debugging your web apps. − PositiveGuy Jan 9, 2012 at 5:55 ▶

@CoffeeAddict I work at one of those companies. I can see how corporate security thinks that it is a great idea, but as a developer it really gets in my way. Fortunately, they allow exceptions for developers who are willing to go through enough hoops (I always go through those hoops).

Zarepheth Aug 25, 2014 at 21:55

Restricting a developer is counterproductive.

- Computer User Sep 23, 2021 at 13:10



There's a bug in the way the built-in server handles

HTTPModules - there is a workaround, but I hate having
to put in code that'll never be needed in production.



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answered Sep 19, 2008 at 17:23



Greg Hurlman 17.8k • 6 • 55 • 87







3





- You need to have Visual Studio running to use it (under normal circumstances)
- It only responds to localhost, so you can't give the link http://simon-laptop:37473/app1 to a friend to view your site over the network
- Big disadvantage: it's harder to get <u>fiddler</u> working, because localhost traffic isn't sent through the proxy.

Using http://ipv4.fiddler:37473 is the best way to get Fiddler working with it.

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edited Mar 2, 2020 at 14:12

Peter Mortensen
31.6k • 22 • 109 • 133

answered Sep 19, 2008 at 17:38



- you can trick fiddler into watching the local traffic by adding a period before the colon and port on your url.. example localhost.:1234/MyApp Or using the fiddler passthrough ipv4.fiddler:1234 Quintin Robinson Sep 19, 2008 at 18:04
- Actually, you can run it from the command line, so you don't need visual studio running. Jonathan Arkell May 23, 2009 at 17:05



You cant use virtual directories :(

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Cassini also does not support <u>ASP Classic</u> pages. This is only an issue for legacy projects where old ASP Classic pages still exist (like our web application at work).



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answered Sep 19, 2008 at 17:28



who cares about classic asp...they should be converted by now. – PositiveGuy Jan 9, 2012 at 5:56

@CoffeeAddict: You'd be surprised. Half the companies in San Francisco run on infrastructure apps built in the 90's that haven't been upgraded since. – Daniel Szabo Apr 4, 2013 at 22:17



The built-in server means the developer doesn't have to know how to set up IIS to test their site.







You could argue this is a disadvantage, and that a Windows developer should know at least that much IIS. Or you could argue that a developer who isn't a system administrator shouldn't be messing around with the web server at all.

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edited Mar 2, 2020 at 14:16

Peter Mortensen
31.6k • 22 • 109 • 133

answered Sep 19, 2008 at 17:18



HUGE disadvange. You should know IIS...it's critical to your job. Totally agree. That's why our profession has such dumb developers...because we rely on blackbox crap like Cassini instead of learning real code or in this case relating to real web server (IIS) which is what .NET runs on for the web. Why would you want to use anything else but IIS when that is the case. I wish MS would have never come up with this stupid side step "easy" crap like they always do...it just disservices us as professionals by making us dumber. – PositiveGuy Jan 9, 2012 at 5:59



If you 'web reference' the URL for web services that are on the built-in webserver, the port might change. Unless you have set a "Specific port" mentioned in menu *Project* → *Properties* options page.



This is something I've gotten used to now. I always set a specific port. Now when sometimes the webserver



1

crashes (I've had that happen), I simply change the port number, and all is well. I reckon restarting will also fix this.

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edited Mar 2, 2020 at 14:25



Peter Mortensen **31.6k** • 22 • 109 • 133

answered Sep 19, 2008 at 17:18



Vin

6,145 • 4 • 44 • 56



If you do hobby work at home using XP Home, you can't install IIS locally.

1

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answered Sep 19, 2008 at 17:14



Joel Coehoorn

415k • 114 • 577 • 813





- 2 I think the MS Web Platform Installer removes this limitation (I was able to install IIS on Vista Home) Dan Mar 20, 2010 at 20:27
- 2 @Dan Finch Vista Home can run IIS. XP Home cannot.
 - Joel Coehoorn Mar 20, 2010 at 20:31



When you use IIS in Vista or Windows 7 with UAC enabled, you must run Visual Studio with administrative rights. If you do this, you can't drag an drop from your

1



shell to Visual Studio (even if you run an instance of explorer.exe as administrator).



For this reason I use Cassini for most projects.

43

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answered Jul 1, 2009 at 16:34



Christopher **10.6k** • 13 • 78 • 98

maybe someone should start a new question "What are the (dis)advantages of using Cassini instead of IIS on Vista/Win7?" because this is a game changer, ie on XP the best choice is IIS, but not it's not that clear of of choice on Win7 – Eric Labashosky Apr 18, 2010 at 17:26



FYI, Windows XP 64-bit comes with IIS 6.

1

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answered Aug 6, 2009 at 5:48



Richard Szalay 84.7k ● 19 ■ 181 ■ 240

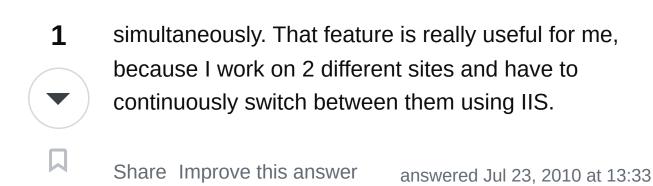




It is <u>Windows Server 2003 in disguise</u>. – Peter Mortensen Mar 2, 2020 at 14:01 **▶**



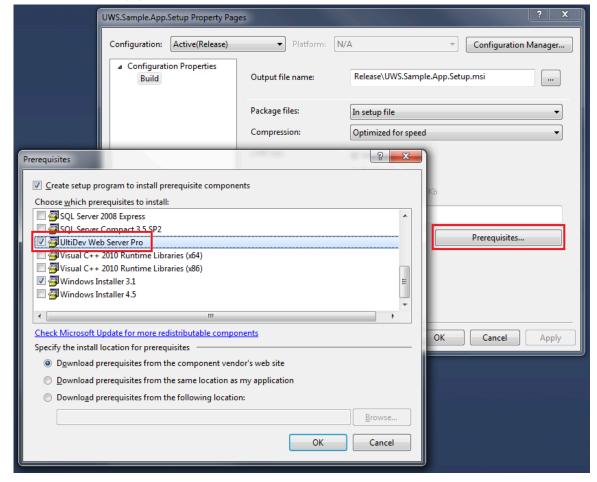
This is an old thread started 2 years ago. I just stumbled upon <u>UtilDev Cassini</u> while googling. Looks promising to me. At least it has the ability to run multiple sites



dude just use IIS and move on. Learn it. – PositiveGuy Jan 9, 2012 at 8:49

AlwaysAProgrammer 2,937 • 2 • 32 • 40

Here's a reason for a third way: although <u>UWS Pro</u> is probably closer to IIS than Cassini (although inspired by Cassini and is from the vendor of the UltiDev Cassini fork), its main purpose is to be <u>redistributable</u> along with ASP.NET applications.





Follow











just use IIS, why use anything else. – PositiveGuy Jan 9, 2012 at 8:47



Cassini is meant to be a lightweight test webserver. The idea is that a developer does not need to have IIS installed and configured to test his/her application.



Use IIS if you are familiar with it and you have it set up and your box can handle it. Cassini is not meant to be a replacement.



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edited Mar 2, 2020 at 14:08

Peter Mortensen



answered Sep 19, 2008 at 17:55



Matthew M. Osborn **4,783** • 4 • 27 • 27



I often take the best of both worlds and create an application in IIS, and use the built-in web server for more efficient debugging.



1



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edited Mar 2, 2020 at 14:10



31.6k • 22 • 109 • 133

answered Sep 19, 2008 at 17:40





The built-in server isn't as configurable, and it runs on an odd port, so if you're counting on specific behavior it can be troublesome.



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edited Mar 2, 2020 at 14:47



Peter Mortensen **31.6k** • 22 • 109 • 133



answered Sep 19, 2008 at 17:16



Joel Coehoorn **415k** • 114 • 577 • 813

It is possible to configure the port in VS. Project->Properties-2 >Specific port – pdavis Sep 19, 2008 at 17:22



Install IISAdmin, and you can setup separate sites in IIS 5, instead of using virtual directories.

0



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answered Sep 19, 2008 at 17:15



175k • 75 • 248 • 314



Though only run one at a time. – Richard Szalay Aug 6, 2009 at 5:47

that's a huge disadvantage and just not realistic - just use IIS and you can do whatever you want, have whatever running.

- PositiveGuy Jan 9, 2012 at 5:58



The built-in webserver is a little less robust than IIS, but requires no setup so it is just a tradeoff.

0



You may not always want your development projects exposed on your IIS server (even your local IIS server) so the built-in server is good for that.





However, if your application is going to access resources outside of the norm for a web app then you may want to debug frequently in IIS so that your app will run with restricted permissions and you can see where the pain points will be.

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answered Sep 19, 2008 at 17:20



James 3,362 • 1 • 22 • 15



One difference I've found is that the development server handles uploading files differently than IIS does. You can't trap the error if the file being uploaded is bigger than your Max_File_Size setting. The page just dies and returns a 500.



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Another dis-advantage is that it sends every request through the gloabal asax file which includes all requests for images and stylesheets. This means if you have code in there which does things with the file names, such as a look up, then the auxillary files willget processed too.



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answered Aug 6, 2009 at 5:32





Daisy



0



Also via IIS, you don't have to worry about automatically remembering and setting a stupid port number in your localhost url. That's something funky directly relied upon with Cassini...big pain in the ass. Who wants to remember some abritrary port number. Just run the damn site in IIS..plain and simple.



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answered Jan 9, 2012 at 8:50



PositiveGuy **47.7k** • 112 • 313 • 479



We've also seen some issues with Visual Studio built-in server regarding some third-party controls which put their

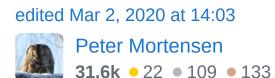




Since the folder isn't there when you're not running under IIS, the controls didn't work. It seems a lot simpler to always work with IIS and avoid strange problems.



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answered Sep 19, 2008 at 18:09





If your project resides in the IIS directory you can still edit code. It just depends if it has been published or not.

-1



You will run into so many issues on the Cassini vs. IIS when you are debugging certain permission based scenarios, like <u>Kerberos</u> and <u>NTLM</u> authentication as well as issues like server compression, etc. All in all, the Cassini is still okay to develop with, but make sure you do extensive testing when publishing to IIS.





edited Mar 2, 2020 at 14:45



answered Sep 19, 2008 at 17:17



why test later when you can be testing all along in IIS, what's really going to be running your code for all ASP.NET anyway? just so you can save 2 seconds every time you want to debug? Not a good tradeoff...you save more hassle and learn more in the end by using IIS period. – PositiveGuy Jan 9, 2012 at 8:48