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# **Configuring Emerald & IIS**

# Introduction

The Emerald distribution includes a small lightweight web server. It was designed to make it extremely easy to get Emerald up and running without having to worry about configuring an ISAPI enabled web server such as IIS or be burdened with the long history of security patches required to make some feature rich web servers safe.

The Emerald web server supports http, SSL encryption (https) and designed from the start with security and performance in mind. We highly recommend using the emerald web server over IIS. If you are having stability or performance problems with Emerald they can be most likely traced back to a database or emerweb problem that will NOT be solved by switching to IIS. Support will ask you to use the Emerald server if these types of problems arise to provide a common ground for determining the problem and finding a solution.

All screen shots are based on IIS v5/w2k. The same steps apply to earlier versions of IIS although the location and layout of some options will be different.

This document assumes familiarity with basic IIS and NT administrative tasks.

#### Limitations

Currently, running Emerald under IIS works similar to Emerald with the built in server with the following exceptions.

- Emerald features that require the HTTP upload feature do not work under IIS.
- /settings url used to initially configure the Emerald system runs out of the Emerald web server. Run 'emerwebsrv –config' if you need to make configuration changes to Emerald after switching to IIS.

## Installing Emerald

Before configuring IIS, make sure emerald is installed and configured properly. Emerald must first run correctly using the built-in web server before attempting to use with IIS.

#### Create an NT account for IIS

Create an NT account Emerald will run as under IIS. Emerald requires at least the same privileges(Group membership) as the user who installed Emerald and configured the ODBC data sources. Create an NT account with these privileges.

New User	? ×
User name: er	nerweb
Eull name:	
Description:	merald Web Server
<u>P</u> assword:	******
<u>C</u> onfirm password:	*******
User must chang	e password at next logon
🔲 U <u>s</u> er cannot char	nge password
Pass <u>w</u> ord never e	expires
🗖 Account is disa <u>b</u> l	ed
	Create Close

emerweb Proj	perties			? X
Remote o General	control	Terminal Ser	vices Profile	Dial-in Sessions
<u>M</u> ember of:				
🖾 Administ	rators			
<u>Add</u>	<u>R</u> emov	e		
		OK	Cancel	Apply

### Create an IIS - Emerald Web site

Create a new web site for Emerald via the IIS services console. The path should point to the web subdirectory of Emeralds installed location (c:\Program Files\Emerald\Web by default)

After creating the new web in the home directory tab make sure 'Execute Permissions' are set to include scripts and application protection is Low (IIS Process)...

erweb Prope	erties				?
Documents Web Site	Director Operators cting to this re	ory Security     Performanc source, the conte	HTTP He e   ISAPI ent should co	aders Filters me from: ter	Custom Errors Home Directory
		nare located on a direction to a <u>U</u> F	another comp RL	uter	
Lo <u>c</u> al Path:	C:\Pro	ogram Files\Emer	ald\Web		Br <u>o</u> wse
✓ <u>R</u> ead ✓ <u>M</u> rite ✓ Directory Application S	browsing	Γ	Index this	resource	
Application r	na <u>m</u> e:				R <u>e</u> move
Starting poin	t <e< td=""><td>emerweb&gt;</td><td></td><td></td><td>Carlanation</td></e<>	emerweb>			Carlanation
Execute <u>P</u> er	missions: S	cripts and Execu	utables	-	Conigulation
Applicatio <u>n</u> F	Protection:	ow (IIS Process)		•	Unjoad
		ок	Cancel	Appl	y Help

Next click 'Configuration' and add a new ISAPI dll. The Executable should be the emerweb.dll file located in the directory Emerald was installed to. Extension must be .ews and the 'check that file exists' option must not be checked.

Add/Edit Application Extension Mapping				
E <u>x</u> ecutable:	C:\Progra~1\Emerald\emerweb.dll	<u>B</u> rowse		
Extension:	.ews			
_ Verbs				
All Verbs				
○ Limit to:				
Script engine				
Check that file	exists OK Cancel	Help		

Next, in the documents tab enable a default document and enter 'index.htm' as the default doc. index.htm is simply a redirect to index.ews (Such as something similar to <META HTTP-EQUIV=Refresh Content="0;URL=index.ews">)

emerweb Properties
Web Site         Operators         Performance         ISAPI Filters         Home Directory           Documents         Directory Security         HTTP Headers         Custom Errors
Enable Default Dogument
Enable Document Footer
OK Cancel <u>A</u> pply Help

Finally, in the Directory Security tab Enable anonymous access if you wish to use Emeralds operator database to perform password authentication. If enable anonymous access is not enabled NT will ask you to 'login' as an NT user with enough credentials to use Emerald. If the same NT user is also in Emeralds operator list they are immediately logged in. Otherwise they are taken to the standard Emerald login prompt.

emerweb Properties	5 <u>?×</u>
Web Site Op Documents Anonymous acce	erators Performance ISAPI Filters Home Directory Directory Security HTTP Headers Custom Errors ss and authentication control ble anonymous access and edit the ientication methods for this resource.
ID address and d	Authentication Methods
- IP address and o	Anonymous access
Gran Generation Gran	No user name/password required to access this resource.
	Account used for anonymous access: <u>E</u> dit
_	Authenticated access
Secure communio	For the following authentication methods, user name and password are
Req	- anonymous access is disabled, or
reso	<ul> <li>access is restricted using NTFS access control lists</li> </ul>
	Basic authentication (password is sent in clear text)
	Select a default domain: E <u>d</u> it
	Digest authentication for Windows domain servers
	Integrated Windows authentication
	OK Cancel <u>H</u> elp

If you are enabling anonymous access click 'Edit' and assign the 'emerweb' user you created in the 'Create an NT account for IIS' section earlier.

A	nonymous Use	r Account	x		
	Anonymous User Select the Windows User Account used to access this computer when an anonymous user connects to this site.				
	<u>U</u> sername:	emerweb Browse			
	Password:	*******			
		Allow IIS to control password			
		OK Cancel <u>H</u> elp			