Written tutorial for the nph-srep installation on IIS (Windows 7)

The Internet Information Services must be installed.

Steps

Set up IIS to support CGI

Start control panel → Select Programs → Select "Turn Windows features on or off"

On the dialog open "Internet Information Services" \rightarrow "World Wide Web Services" \rightarrow "Application Development Features" and check "CGI"

Windows Features	x
Turn Windows features on or off	?
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.	
🕀 🗷 🔓 Games	
Indexing Service	
Internet Explorer 11	
😑 🔲 🚡 Internet Information Services	
⊞	
🕀 🔳 📔 Web Management Tools	Ξ
🖃 🔲 🎉 World Wide Web Services	
🖃 🔲 🔒 Application Development Features	
.NET Extensibility	
ASP ASP	
ASP.NET	
CGI	
ISAPI Extensions	
ISAPI Filters	
Server-Side Includes	
🕀 🔳 📕 Common HTTP Features	
Performance Features	
Ecurity	
Internet Information Services Hostable Web Core	-
La Media Features	
OK Cance	

Click the OK button

Start IIS

To start the "Computer Management" right click the Computer Icon or the Computer entry on the Start menu and select "Manage".



On the "Computer Management" window select "Services and Applications" \rightarrow "Internet Information Services (IIS) Manager" and make sure the server is started





Make sure the IIS is started and working accessing http://localhost

Configure environment variables for Sculptor

Right click the Computer icon and select "Properties". And select the "Advanced system settings":



From the System property add the "SCULPTOR" environment variable (logout/login again to propagate the changes):

System Properties	Search Control P	anel P		
Computer Name Hardware Advanced System Protection Remote	Environment Variable	es	x	1
You must be logged on as an Administrator to make most of these changes.	Liser variables for o	andalf		
Visual effects, processor scheduling, memory usage, and virtual memory	Variable	Value	<u> </u>	
Settings	M2 M2_HOME	E: \Apache Software Foundation \V E: \Apache Software Foundation \V C: \Apache Software Foundation \V	Maven ≡ Maven	
User Profiles Desktop settings related to your logon	TEMP	%USERPROFILE%\AppData\Local	I\Temp •	
Settings	System variables		/ariable name:	SCULPTOR
System startup, system failure, and debugging information	Variable PSModulePath	Value V C:\Windows\system32\Windo	/ariable value:	C:\sc\sc61\sculptor
Settings	SCULPTOR TEMP TMP	C: \sc \sc 1\sculptor C: \Windows \TEMP C: \Windows \TEMP		
Environment Variables		New Edit	Delete	
OK Cancel Apply		ОК	Cancel	

Configure IIS

For the purposes of this tutorial we create "C:\inetpub\wwwroot\sculptor_test"



We open the sculptor_test directory (Which is located inside the "Default Web Site" in this example) and "Convert to Application".

Add Application		? ×
Site name: Default Web Site Path: /		
<u>A</u> lias:	App <u>l</u> ication pool:	
sculptor_test	DefaultAppPool	S <u>e</u> lect
Example: sales		
<u>P</u> hysical path:		
C:\inetpub\wwwroot\sculptor_test		
Pass-through authentication		
Connect as Test Settings		
	ОК	Cancel

Click "OK" accepting default values.

Then double click the "Handler Mappings" icon:

Sites Default Web Site Sculptor_test	Authentic	CGI	(Compression	Default Document	Ma
	Directory Browsing	Error Pages	Handler Mappings	HTTP Respon	•
	Logging	MIME Types	Modules	Output Caching	e

Then we need to make sure the execute permission is added to the folder, click the "Edit Feature Permissions..." and make sure the execute permission is checked.

Then there are two choices:

- 1. Associate file extensions *.q and *.sch with the nph-srep.exe located in the "%SCULPTOR %\bin" directory
- 2. Map the nph-srep.exe executable as a CGI script.

Option 1: Map *.q and *.sch

On the "Handler Mappings" select "Add Module Mapping"

Connections			Actions	
SHENLEY (shenley\gandalf)	Use this feature to specify the resources, that handle responses for specific reque	, such as DLLs and managed code, st types.	Add Managed Handler Add Script Map Add Wildcard Script Map	
Sites A Sites A Sites	Group by: State -		Add Module Mapping	
sculptor_test	Name	Path 🔺	Edit	
	Enabled		Kename X Remove	
	aspq-Integrated-4.0	*.aspq		
	aspq-ISAPI-4.0_32bit	*.aspq =	Edit Feature Permissions	
	aspq-ISAPI-4.0_64bit	*.aspq	Revert To Parent	

Fill the required information as in the example (except for the nph-srep.exe location):

Add Module Mapping	? ×
Request path:	
*.sch	
Example: *.bas, wsvc.axd	
<u>M</u> odule:	
CgiModule	~
Executable (optional):	
C:\sc\Sc61\windows\win32\bin\nph-srep.exe	
<u>N</u> ame:	
Map Sculptor SCH files	
Request Restrictions	
ОК	Cancel

Click on "Request Restrictions" to setup the mapping only for files.

Add Module Mapping		8 🛛 aged cod	e, Add Scrij
Request path: *.sch			Add Wite Add Moo
Example: *.bas, wsvc.axd Module:	Request Restrictions		? X
CgiModule	Mapping Verbs Access		
Executable (optional): C:\sc\Sc61\windows\win32 Name: Map Sculptor SCH files Request Restrictions	 Invoke handler only if required File Folder File or folder 	uest is mapped to:	
Exten Http: Http:		OK	Cancel

If this dialog is opened, click Yes:



Otherwise a special permission has to be added in order to permit the execution of the nph-srep.exe. On the home object select the "ISAPI and CGI Restrictions":



The description can be edited:

	2	2				
Y (shenley\gandalf) lication Pools	Use t	his feat	ure to sp	ecify the ISAPI a	and CGI extensions that can run on the We	eb server.
;	Grou	ıp by:	No Grou	ping 🔹		
Default Web Site	Desc	ription		Restriction	Path	
	[No	Descrip	otion]	Allowed	C:\sc\Sc61\windows\win32\bin\nph-sr	ep.exe
	ASP.	NET v4	.0.30319	Not Allowed	c:\Windows\Microsoft.NET\Framework	<u>\v4.0.3</u> 0319\aspnet_is
	AS	Edit ISA	API or CG	I Restriction		30319\aspnet
		ISAF	PI or CGI I	oath:		
		C:\s	c\Sc61\w	vindows\win32\	\bin\nph-srep.exe	
		Des	cription:			_
		Scul	lptor nph	-srep.exe		
		V A	Allow exte	ension path to e	execute	
					OK Cancel	
	U	_	_			

Do the same for the *.q files (Both share the same executable ENTRY on "ISAPI and CGI restrictions")

Now to test it just create a sample program:

```
/* helloworld.r */
    run report repl
    exit
!report repl {
        !title {
            print "<HTML><HEAD><TITLE> Hello World simple test</TITLE></HEAD>"
            print "<BODY>"
            print "<CENTER><H1>Hello World!!!</H1></CENTER>"
            print "</BODY></HTML>"
        }
        print "NOP"
}
```

Compile it and leave it at "sculptor_test" directory.

				x
O ♥ ↓ ♥ inetpub ♥ wwwroot	 sculptor_test 	← Search sculptor	_test	Q
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp				
Organize 🔻 🛛 Include in library 🔻	Share with 🔻 🛛 Burn	New folder	!≡ ▼ 🚺	0
Name	Date modified	Туре	Size	
🖬 helloworld.q	16/12/2013 10:01	Sculptor Report	14 KB	

Now we can test it on the browser (<u>http://localhost/sculptor_test/helloworld.q</u>)



Option 2: Use the CGI-exe Handler

To show this option we create a sculptor_exe directory and copy the helloworld.q, nph-srep.exe and the needed xerces dll:

	wwwroot 🕨 sculpto	r_exe 👻	€ Search s	culptor_exe		× P
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp						
Organize 🔻 Include in library 👻 Share	e with 🔻 🛛 Burn	New folder			•	0
Name	Date modified	Туре	Size			
📾 helloworld.q	16/12/2013 10:35	Sculptor Report	14 KB			
💷 nph-srep.exe	16/12/2013 10:12	Application	1.522 KB			
🚳 xerces-c_2_8.dll	22/06/2011 22:39	Application extens	1.867 KB			

Then on the "Computer Management" refresh the "Default Web Site" and convert sculptor_exe to aplication.

On "Handler Mappings" Right click the disabled CGI-exe Handler and choose "Edit Feature Permissions..."

	Group by: State	•	
ite	Name	*	Path
ent	Disabled		
-st	CGI-exe		*.exe
	Enabled -	Add Managed Handler	
	aspq-Integ	Add Script Map	'.aspq
	aspq-ISAPI	Add Wildcard Script Map	.aspq
	aspq-ISAPI	Add Module Mapping	'.aspq
	AssemblyR	Edit	NebResource.axd
	AXD-ISAPI	Rename	'.axd
	AXD-ISAPI	Remove	.axd
	cshtm-Inte	Edit Feature Permissions	.cshtm
	cshtm-ISA	Revert To Parent	csntm
		View Ordered List	

On the dialog select the "Execute" check box:

Edit Feature Permissions
Permissions:
✓ Script
✓ Execute
OK Cancel

Then on the server "ISAPI and CGI Restriction list" add the copied nph-srep.exe executable:

Connections	ISAPI and CGI Restrictions Use this feature to specify the ISAPI and CGI exter					
⊿ 🧕 Sites	Group					
a 豰 Default Web Sit	Descr	Description		Restriction		Path
sculptor_ex	ASP.N	IET v4	4.0.30319	Not Allowe	d (c:\Window
V Ter Sculptor_tes	ASP.N	VET v4.0.30319		Allowed		c:\Window
	Sculp	tor nph-srep		Allowed		C:\sc\Sc61
		Add				
		Edit Feature Settings				
		Help				

Add ISAPI or CGI Restriction	? ×
ISAPI or CGI path:	
C:\inetpub\wwwroot\sculptor_exe\nph-srep.exe	
Description:	
Copied nph-srep.exe	
Allow extension path to execute	
ОК	Cancel

And test it:

