

OPERATIONS INSTALL INSTRUCTIONS

Main

Package: iRINGTools

Package Version: 2.00.07

Package Date:

QA/CM Contact:

Application Contact: Rob DeCarlo

Prerequisites:

1. The OS of the server should be Microsoft Windows 2003 Server R2, Service Pack2.
2. Microsoft SQL Server 2005 or 2008 should be installed with Database name SQLEXPRESS
3. IIS 6.0 should be installed on the server.
4. ASP.net 4.0.30319 should be installed on the server.
5. Microsoft Silverlight 4 should be installed on the server.

<http://www.microsoft.com/getsilverlight/Get-Started/Install/Default.aspx>

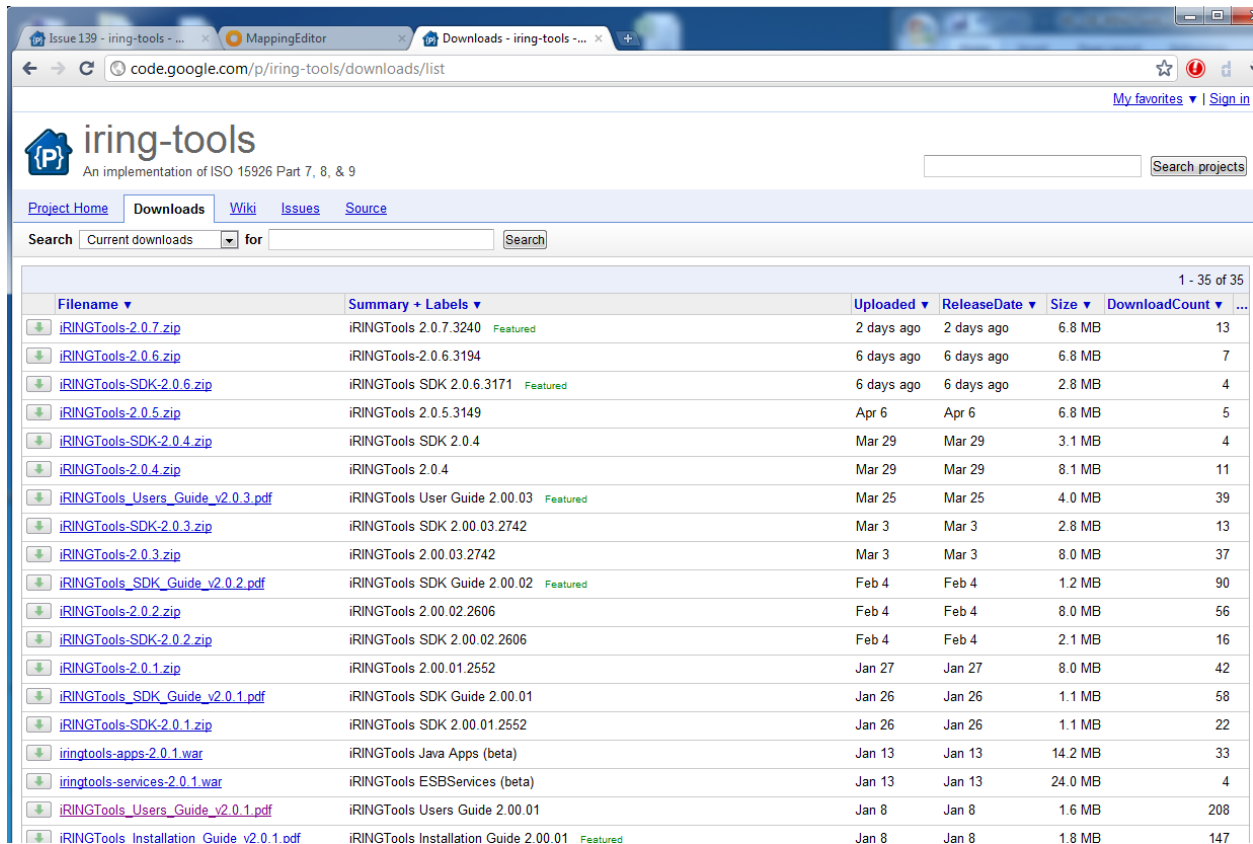
Installation Steps:

1. Download Install for iRINGTools from <http://code.google.com/p/iring-tools/downloads/list>

File Name: iRINGTools-2.0.7.zip

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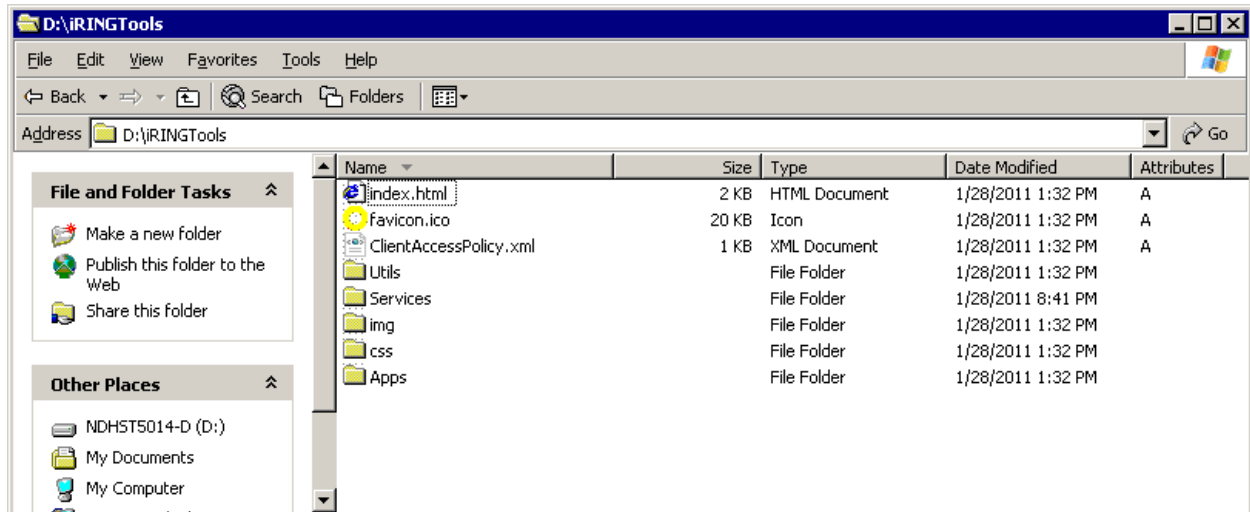
The screenshot shows the Google Code project page for 'iring-tools'. The page has a navigation bar with links for Project Home, Downloads, Wiki, Issues, and Source. Below the navigation bar is a search bar. The main content area displays a table of downloads. The table has columns for Filename, Summary + Labels, Uploaded, ReleaseDate, Size, and DownloadCount. The table lists various versions of the iring-tools software, including SDKs, user guides, and installation guides. The most recent download is 'iRINGTools-2.0.7.zip' uploaded 2 days ago.

Filename	Summary + Labels	Uploaded	ReleaseDate	Size	DownloadCount
iRINGTools-2.0.7.zip	iRINGTools 2.0.7.3240 Featured	2 days ago	2 days ago	6.8 MB	13
iRINGTools-2.0.6.zip	iRINGTools-2.0.6.3194	6 days ago	6 days ago	6.8 MB	7
iRINGTools-SDK-2.0.6.zip	iRINGTools SDK 2.0.6.3171 Featured	6 days ago	6 days ago	2.8 MB	4
iRINGTools-2.0.5.zip	iRINGTools 2.0.5.3149	Apr 6	Apr 6	6.8 MB	5
iRINGTools-SDK-2.0.4.zip	iRINGTools SDK 2.0.4	Mar 29	Mar 29	3.1 MB	4
iRINGTools-2.0.4.zip	iRINGTools 2.0.4	Mar 29	Mar 29	8.1 MB	11
iRINGTools_Users_Guide_v2.0.3.pdf	iRINGTools User Guide 2.00.03 Featured	Mar 25	Mar 25	4.0 MB	39
iRINGTools-SDK-2.0.3.zip	iRINGTools SDK 2.00.03.2742	Mar 3	Mar 3	2.8 MB	13
iRINGTools-2.0.3.zip	iRINGTools 2.00.03.2742	Mar 3	Mar 3	8.0 MB	37
iRINGTools_SDK_Guide_v2.0.2.pdf	iRINGTools SDK Guide 2.00.02 Featured	Feb 4	Feb 4	1.2 MB	90
iRINGTools-2.0.2.zip	iRINGTools 2.00.02.2606	Feb 4	Feb 4	8.0 MB	56
iRINGTools-SDK-2.0.2.zip	iRINGTools SDK 2.00.02.2606	Feb 4	Feb 4	2.1 MB	16
iRINGTools-2.0.1.zip	iRINGTools 2.00.01.2552	Jan 27	Jan 27	8.0 MB	42
iRINGTools_SDK_Guide_v2.0.1.pdf	iRINGTools SDK Guide 2.00.01	Jan 26	Jan 26	1.1 MB	58
iRINGTools-SDK-2.0.1.zip	iRINGTools SDK 2.00.01.2552	Jan 26	Jan 26	1.1 MB	22
iringtools-apps-2.0.1.war	iRINGTools Java Apps (beta)	Jan 13	Jan 13	14.2 MB	33
iringtools-services-2.0.1.war	iRINGTools ESBServices (beta)	Jan 13	Jan 13	24.0 MB	4
iRINGTools_Users_Guide_v2.0.1.pdf	iRINGTools Users Guide 2.00.01	Jan 8	Jan 8	1.6 MB	208
iRINGTools Installation Guide v2.0.1.pdf	iRINGTools Installation Guide 2.00.01 Featured	Jan 8	Jan 8	1.8 MB	147

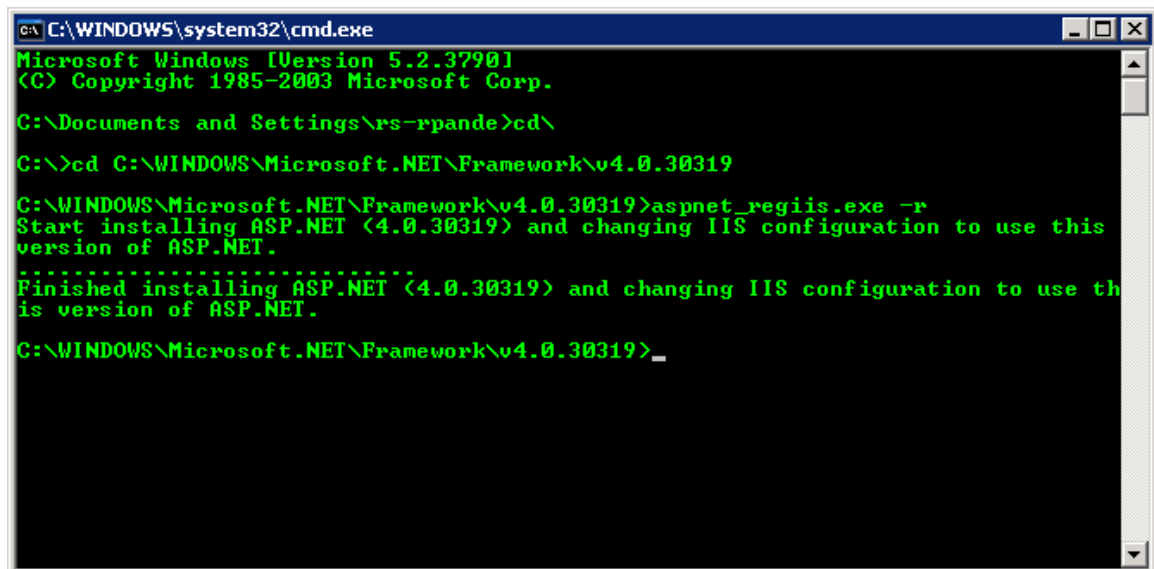
2. Unzip the contents of this zip file to a folder D:\iRINGTools

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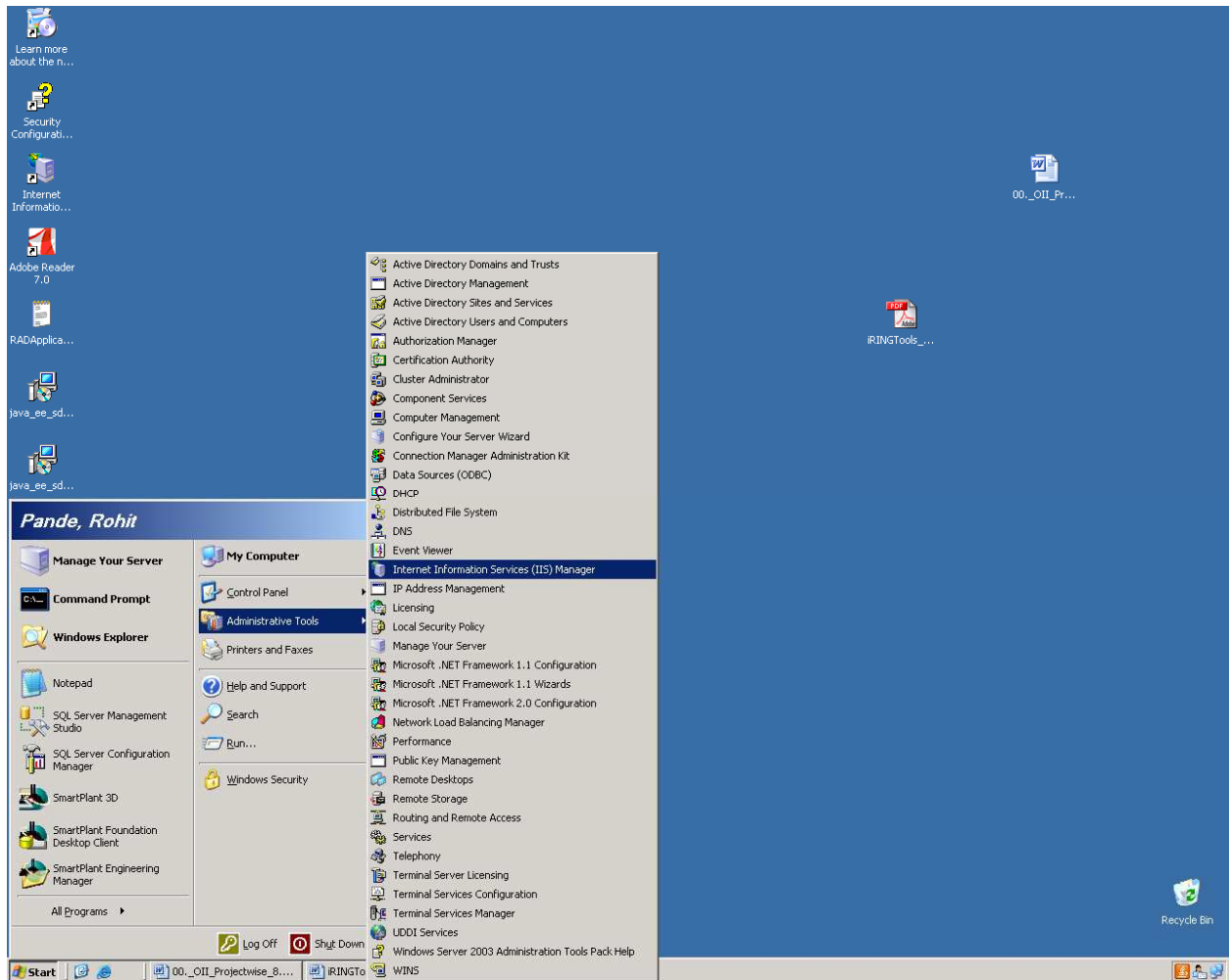
3. Register IIS with .net 4 (follow the steps shown in screen shot below)



4. Next step is to create a new iRINGTools website in IIS.
 - a. Open IIS Manager from start menu.

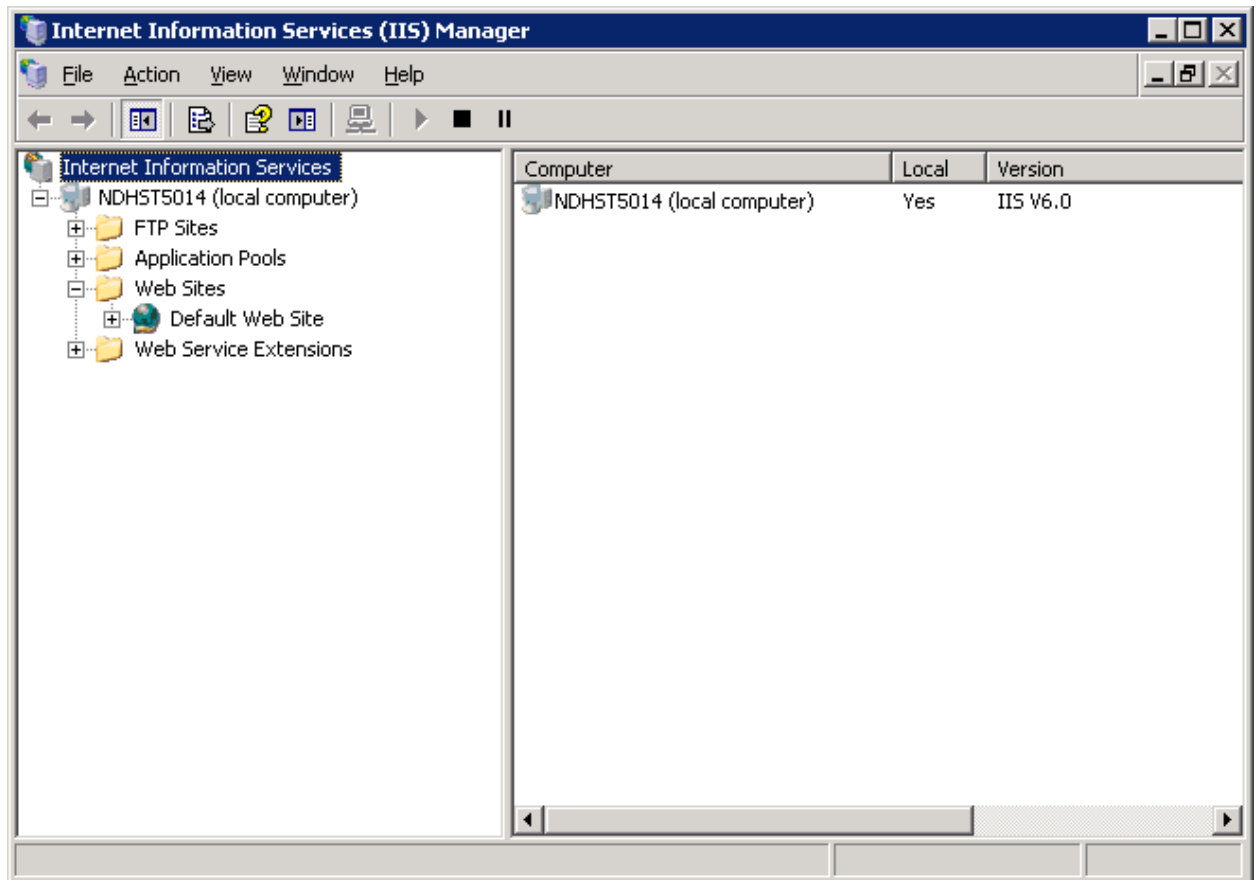
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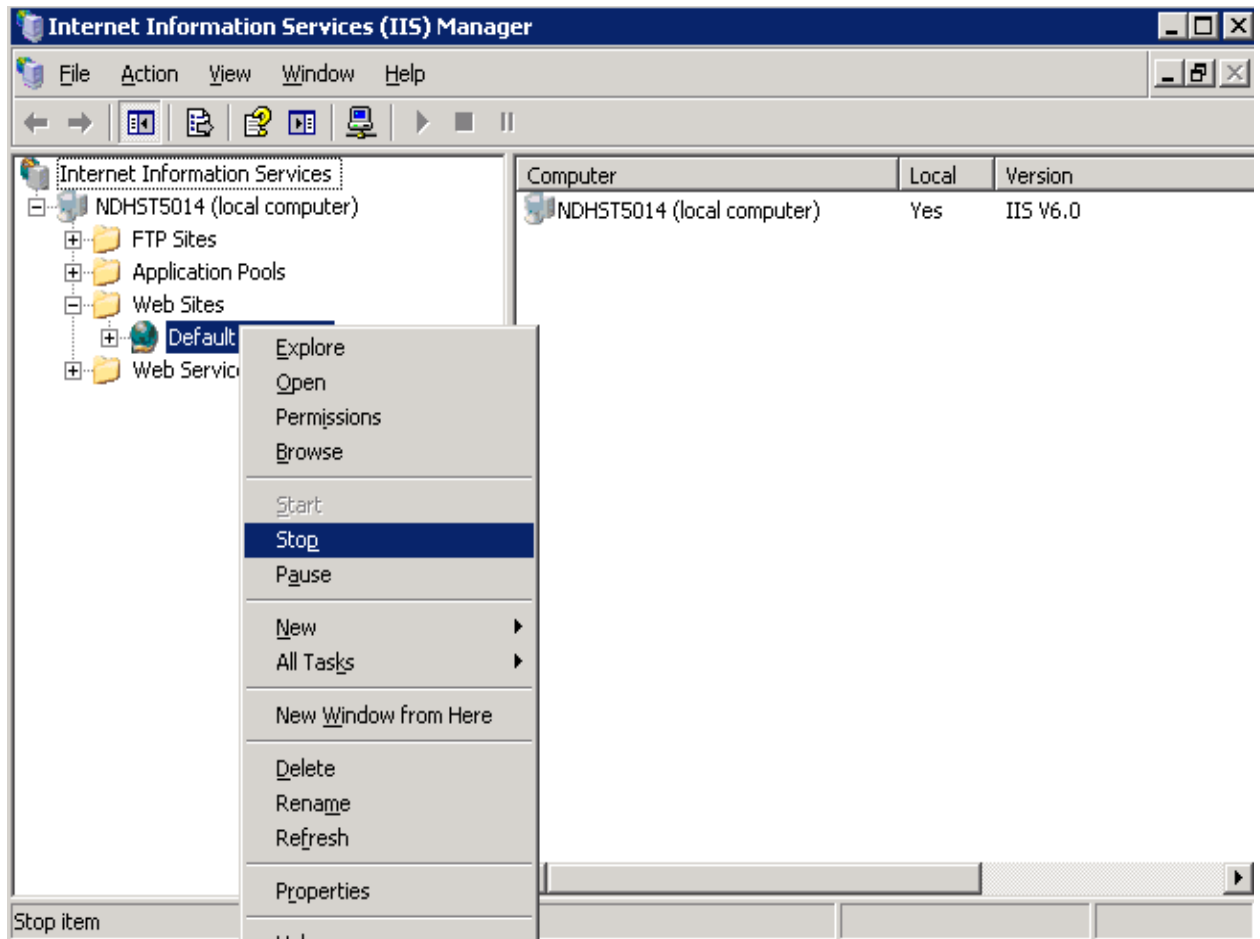
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- b. Stop the Default website by right clicking on default website & click stop.

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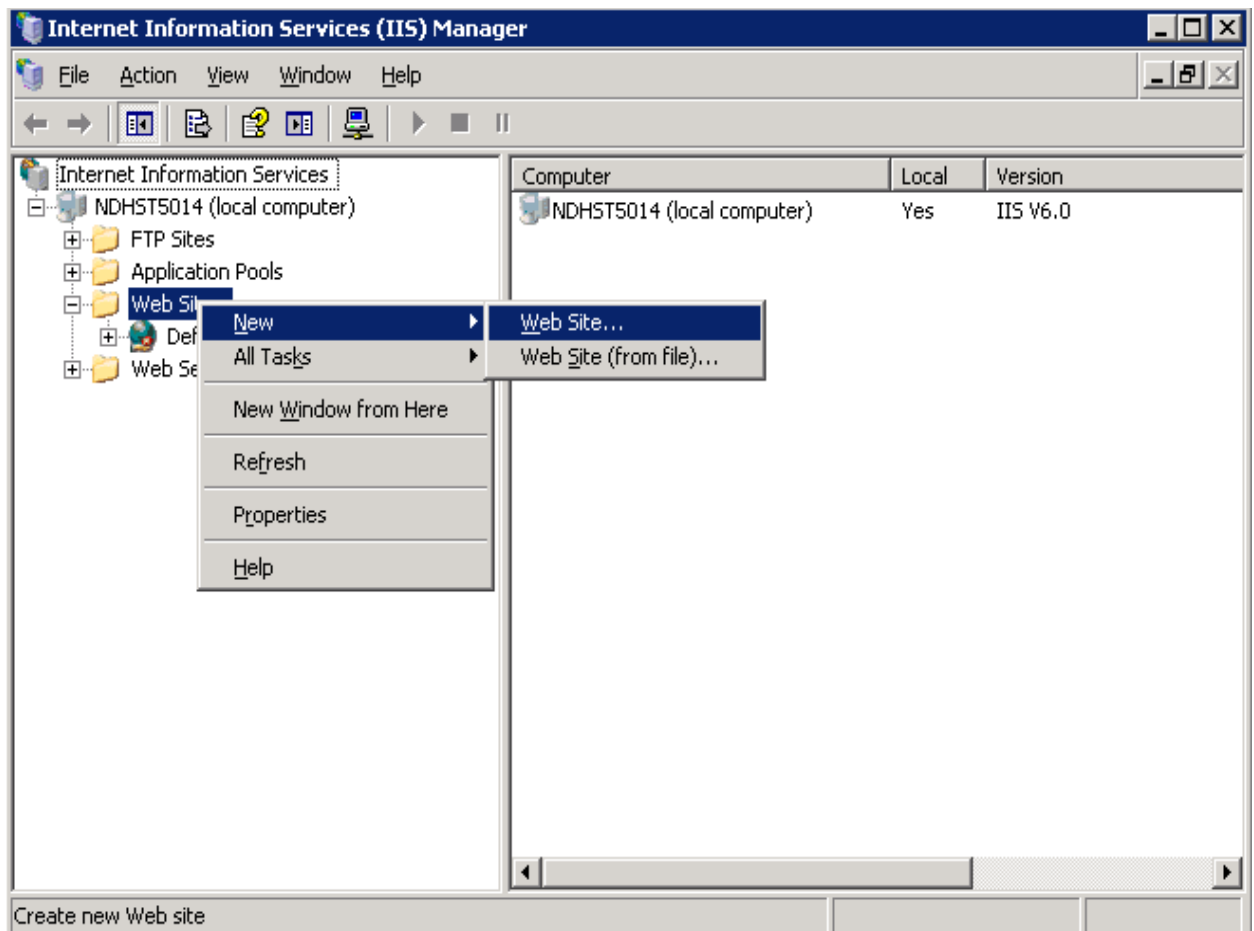
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- c. Now right click on Web Sites & click New -> Web Sites

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d. Click Next

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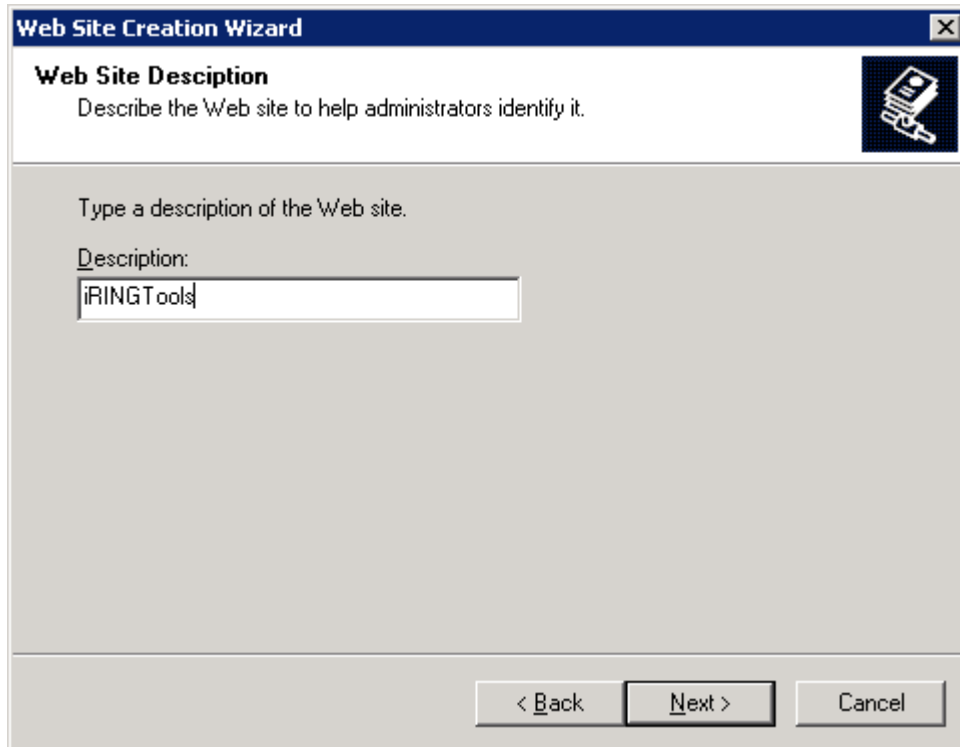
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- e. In Description write iRINGTools

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The image shows a screenshot of the 'Web Site Creation Wizard' window. The title bar reads 'Web Site Creation Wizard'. The main heading is 'Web Site Description'. Below the heading, it says 'Describe the Web site to help administrators identify it.' There is a small icon of a floppy disk with a checkmark. The instruction 'Type a description of the Web site.' is followed by a text box labeled 'Description:' containing the text 'iRINGTools'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Web Site Creation Wizard

Web Site Description
Describe the Web site to help administrators identify it.

Type a description of the Web site.

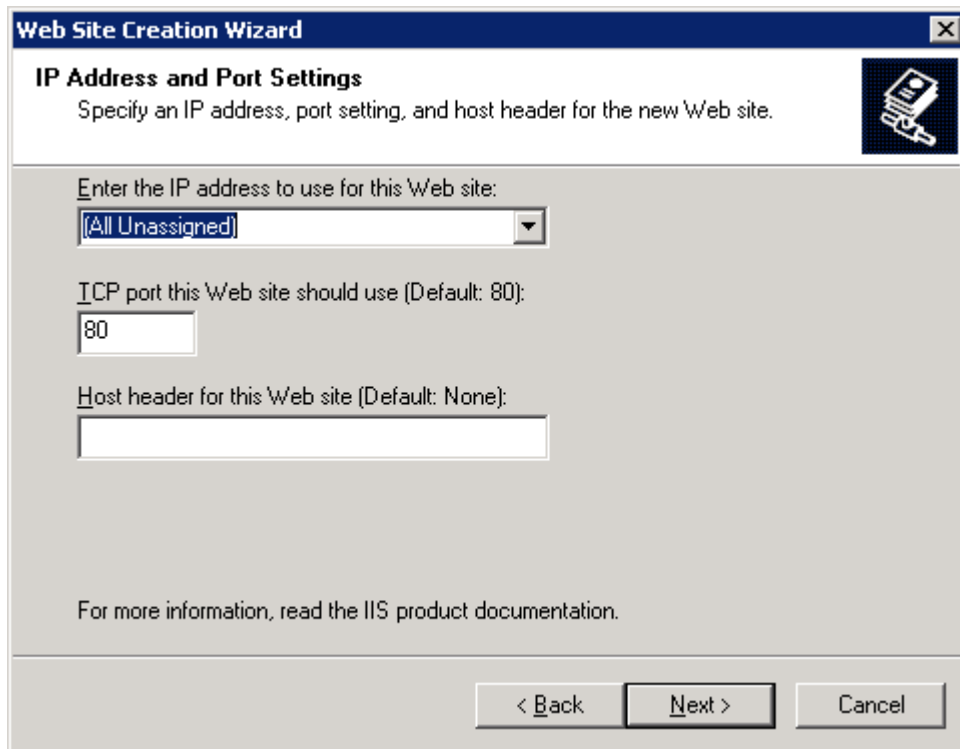
Description:
iRINGTools

< Back Next > Cancel

- f. leave as default & click next

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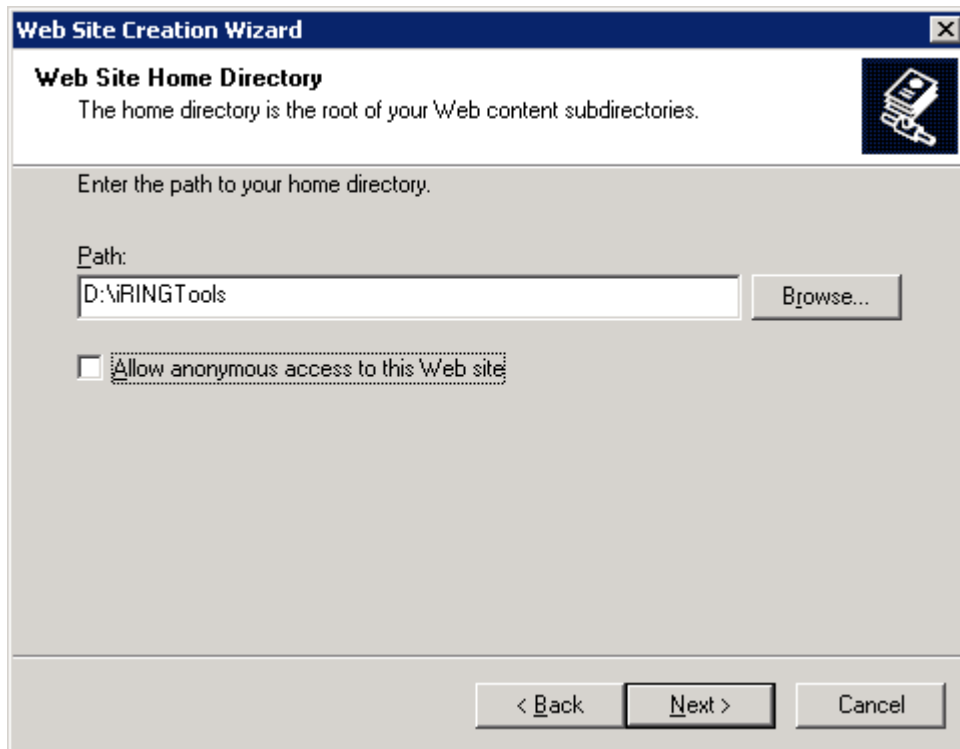


The screenshot shows a Windows-style dialog box titled "Web Site Creation Wizard". The window has a standard title bar with a close button (X). The main content area is titled "IP Address and Port Settings" and includes a sub-instruction: "Specify an IP address, port setting, and host header for the new Web site." To the right of this text is a small icon of a computer monitor with a document. Below the instruction, there are three input fields: 1. "Enter the IP address to use for this Web site:" with a dropdown menu currently showing "[All Unassigned]". 2. "TCP port this Web site should use (Default: 80):" with a text box containing the number "80". 3. "Host header for this Web site (Default: None):" with an empty text box. At the bottom of the dialog, there is a line of text: "For more information, read the IIS product documentation." and three buttons: "< Back", "Next >", and "Cancel".

- g. Browse to the path of iRINGTools folder where we extracted the zip files content & uncheck Allow Anonymous access.

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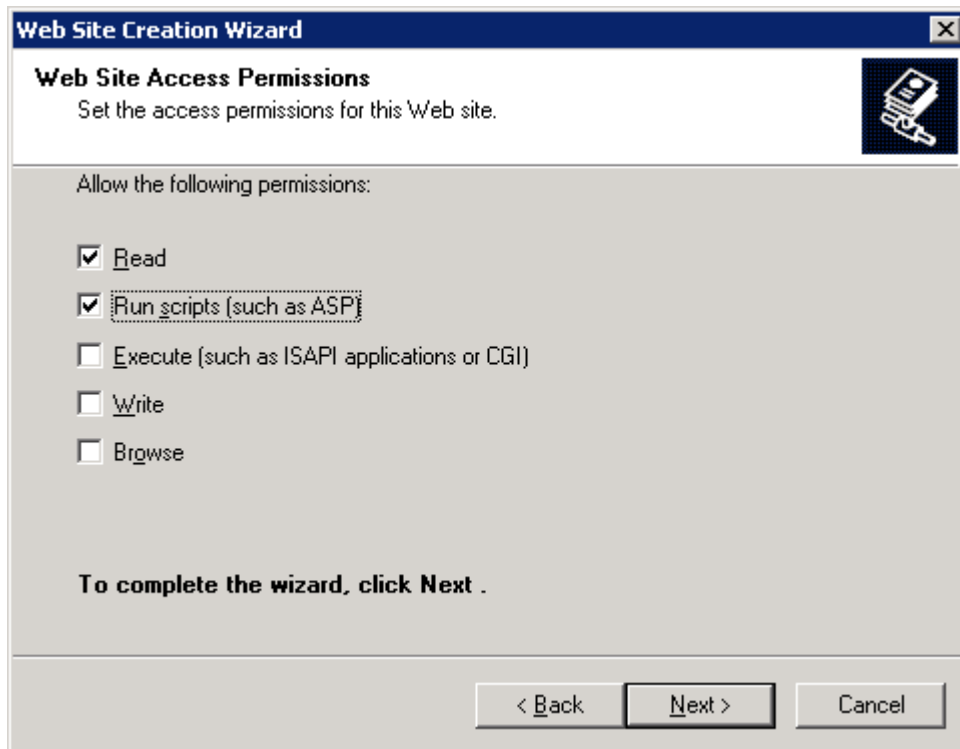
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- h. Check boxes for Read & Run Scripts & click next.

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- i. Click Finish.

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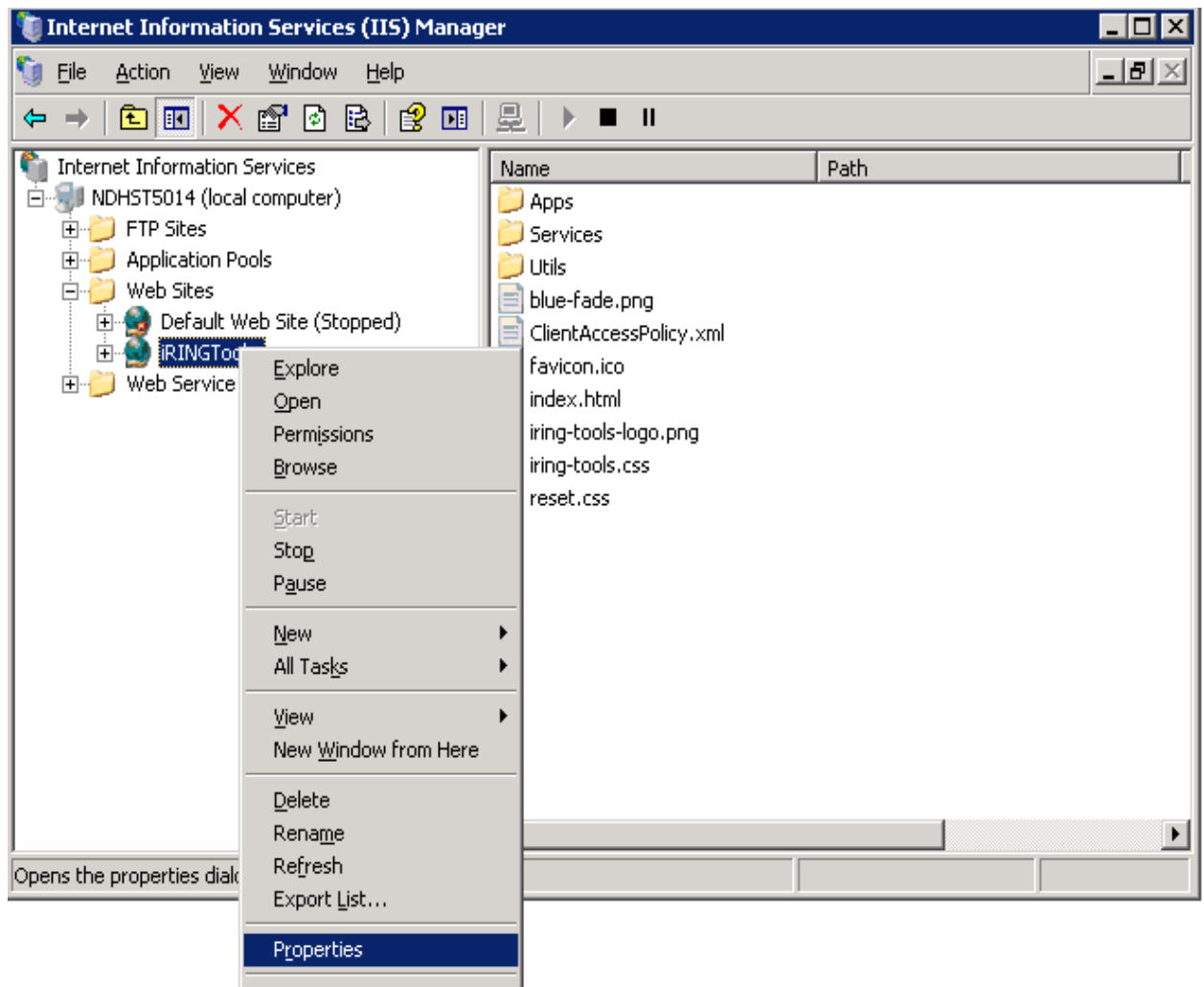
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5. Add Index.html as a default page for iRINGTools website
 - a. Right click the iRINGTools website in IISManager & click Properties

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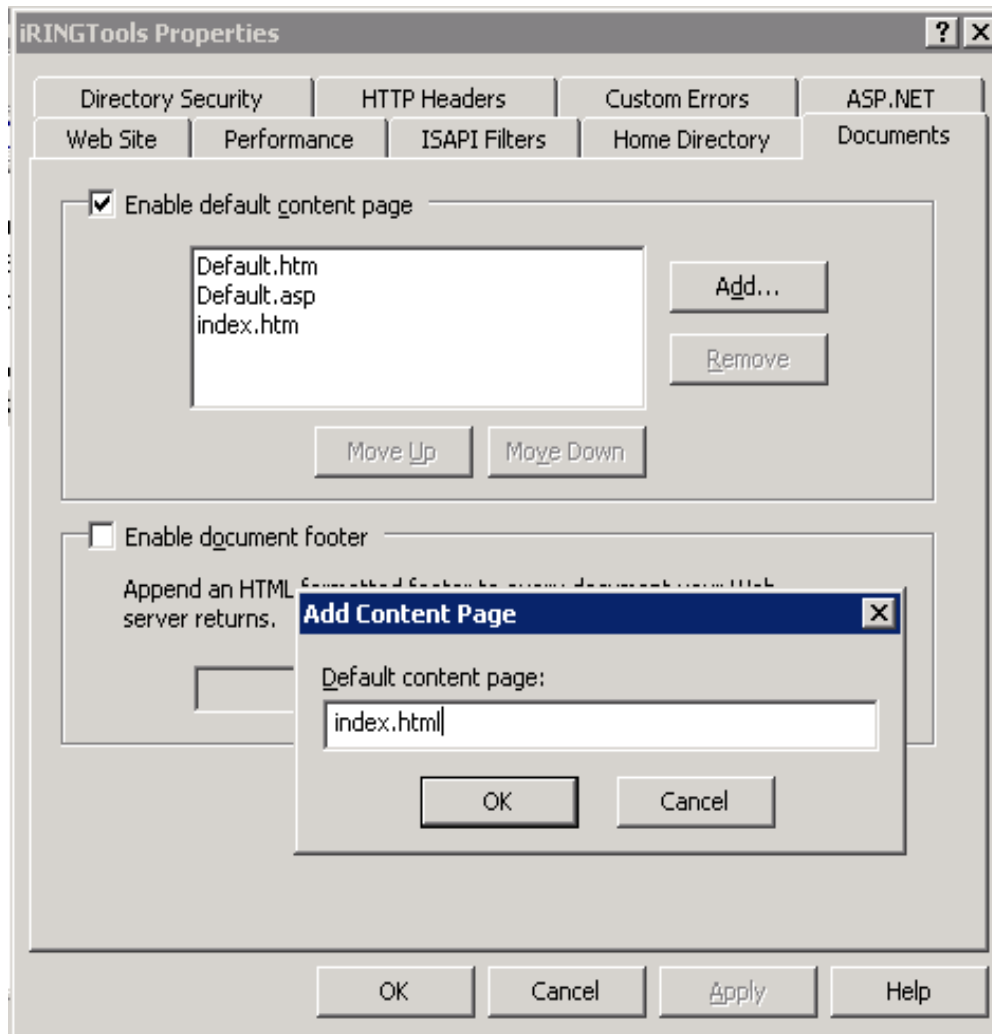
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- b. Go to Documents Tab & add index.html.

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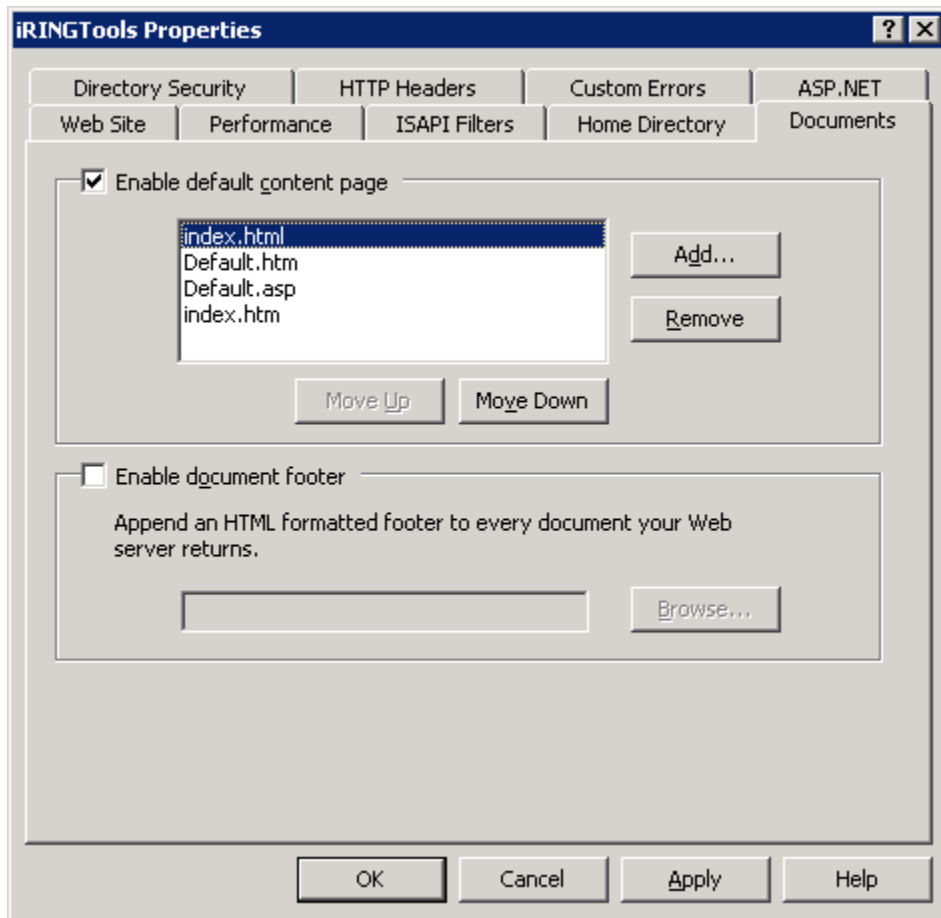
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- c. Click on Move up to bring Index.html as first entry.

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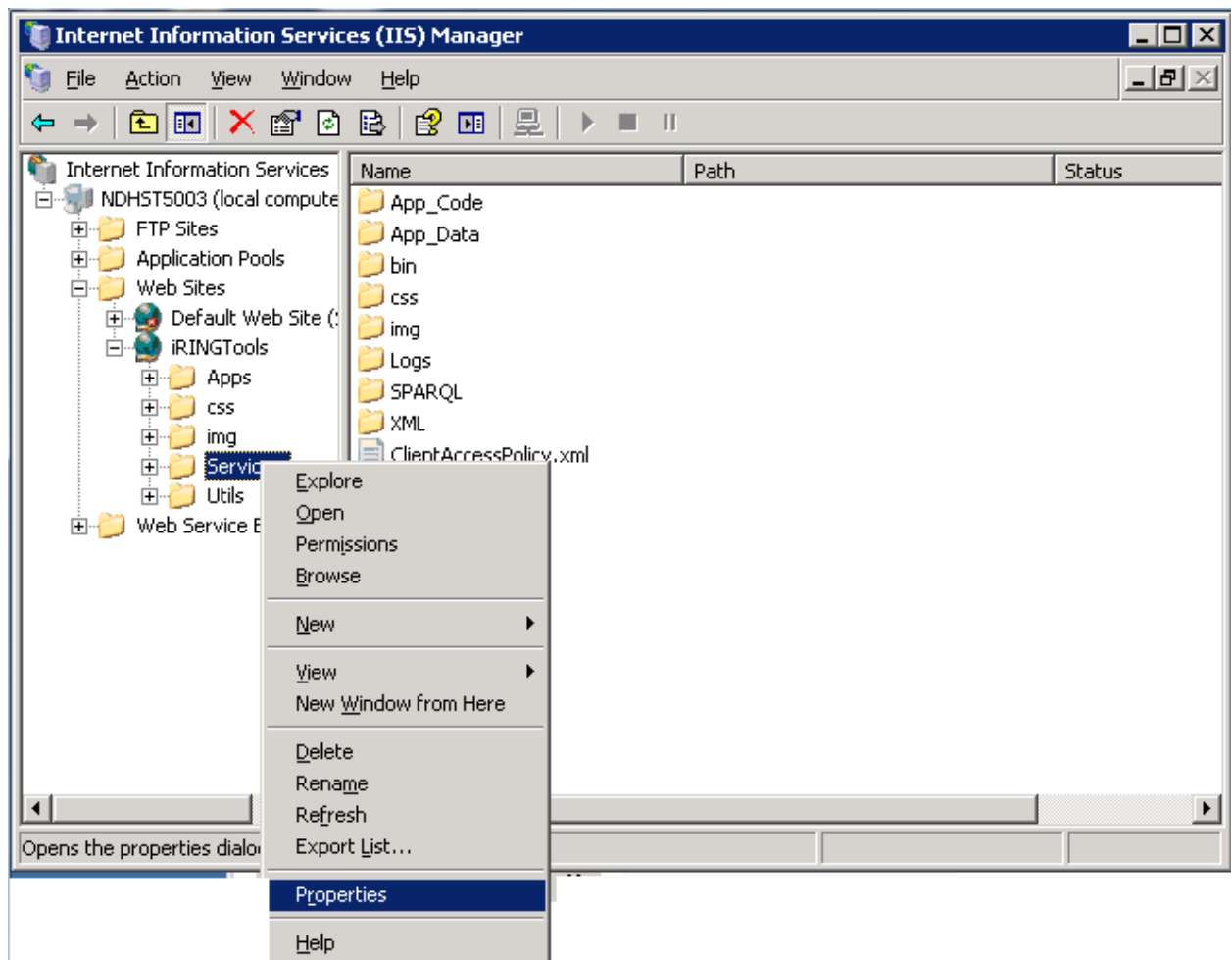
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- d. Click on Apply & then OK.
6. Creating Virtual Directory for Service.
 - a. Open IIS Manager expand the iRINGTools website & right click the folder Services

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- b. Click on Create.

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The screenshot shows the 'Services Properties' dialog box with the 'Directory' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar are tabs for 'Directory', 'Documents', 'Directory Security', 'HTTP Headers', 'Custom Errors', and 'ASP.NET'. The 'Directory' tab contains the following options:

The content for this resource should come from:

- ☒ The designated directory
- ☐ A share located on another computer
- ☐ A redirection to a URL

Local path:

☐ Script source access ☒ Log visits

☒ Read ☒ Index this resource

☐ Write

☐ Directory browsing

Application settings

Application name:

Starting point:

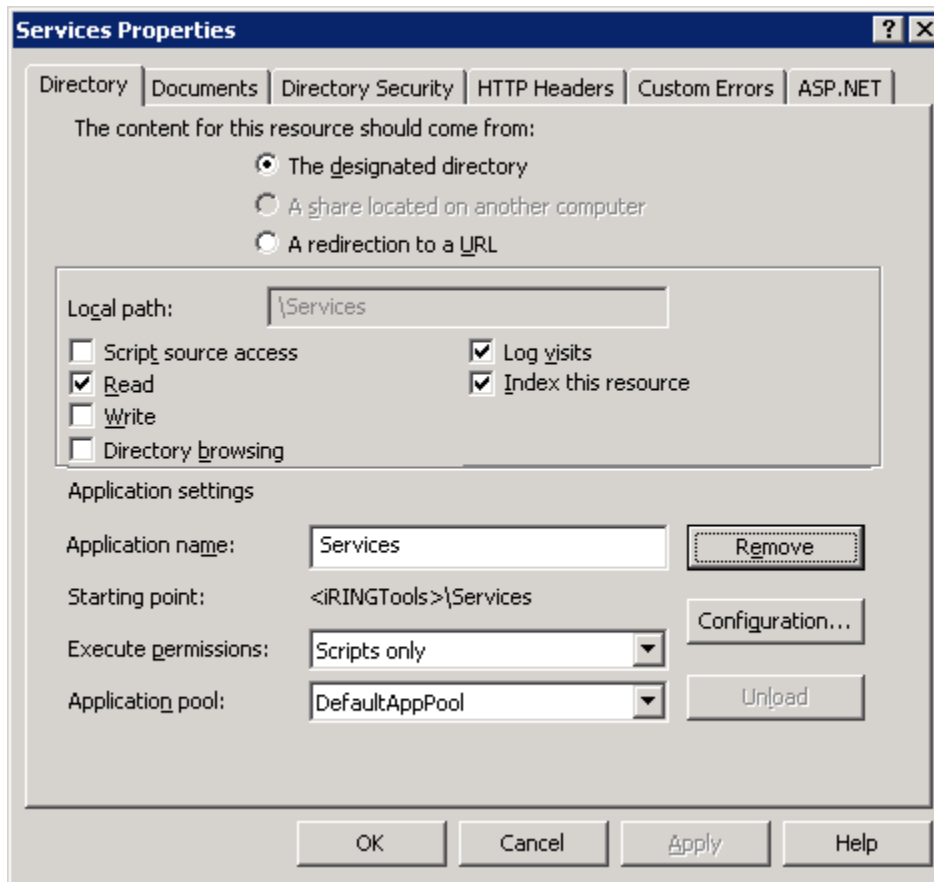
Execute permissions:

Application pool:

At the bottom are buttons for 'OK', 'Cancel', 'Apply', and 'Help'.

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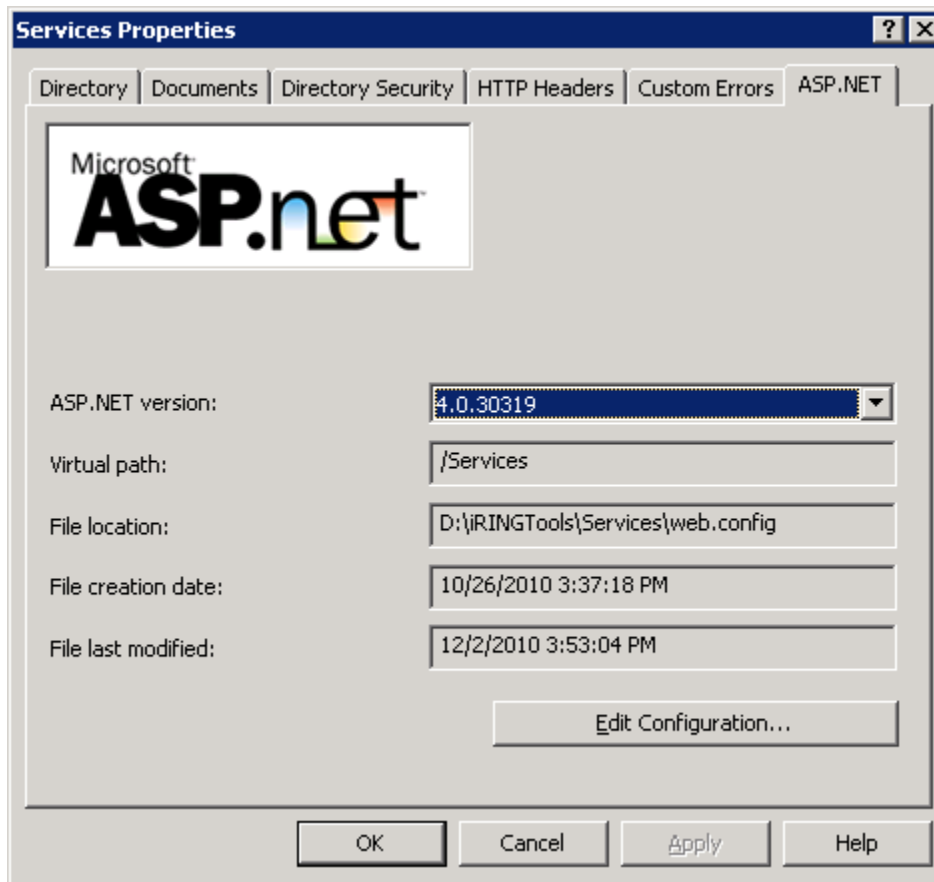
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c. Go to ASP.net tab & ensure the version is 4.0.30319

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c. Click OK.

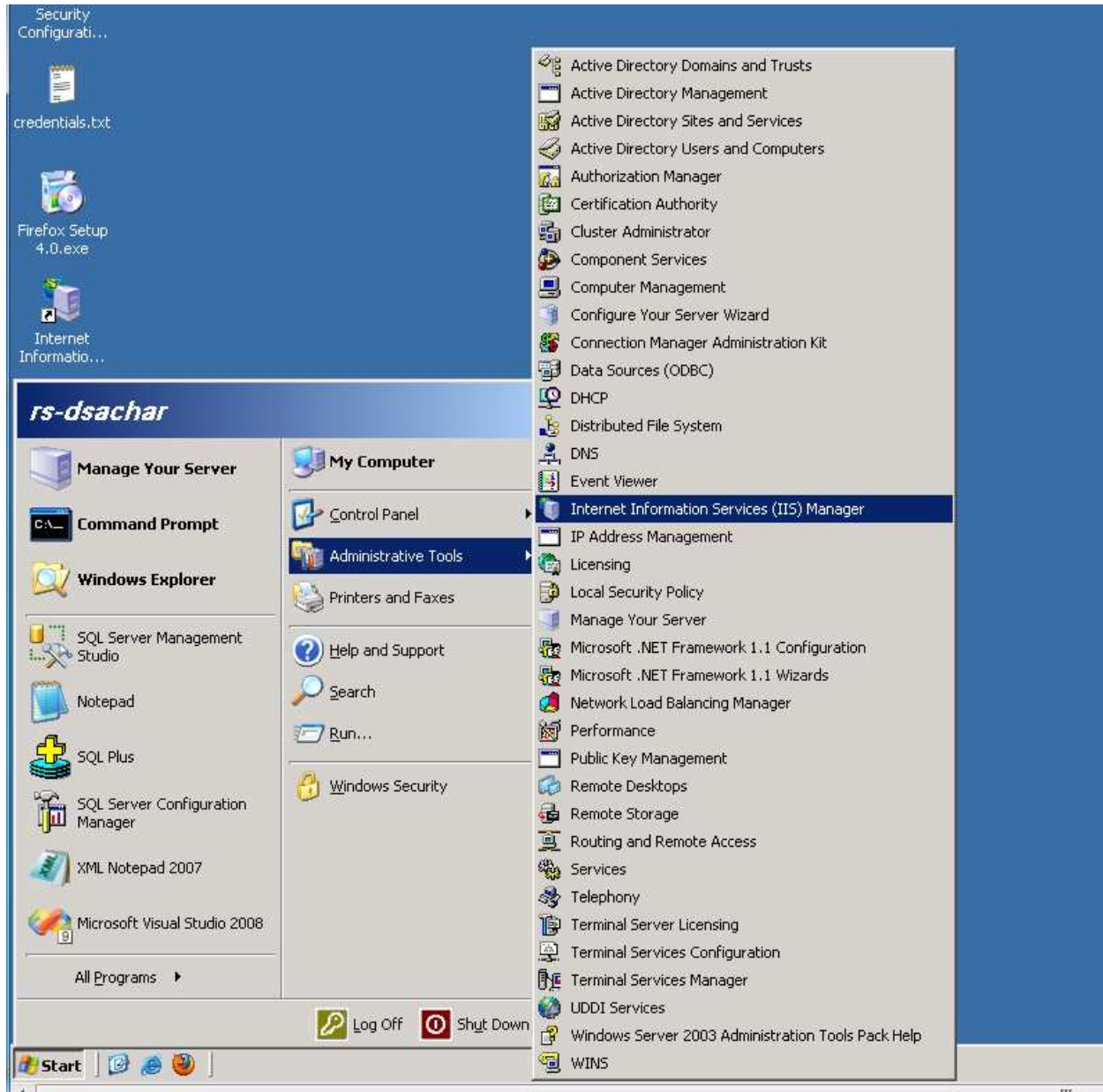
Note:-* Additional Steps for installing iRINGTools with Windows 2008 Server R2, IIS 7.5 and SQLExpress 2008 R2

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And follow the following steps after Step 6

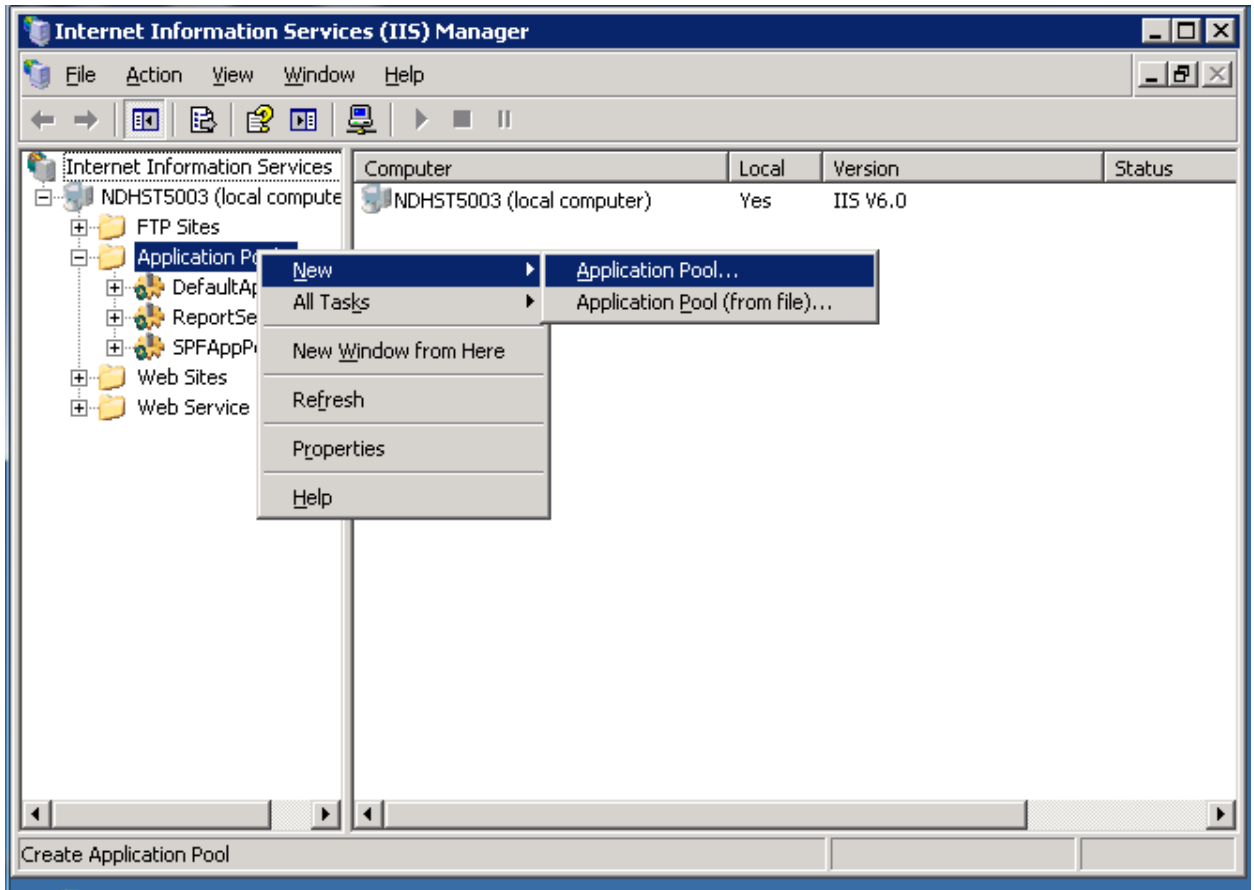
1. Click on start and Select IIS Manager from Administrative Tools.



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2. Right click Application Pools and select New Application pool .

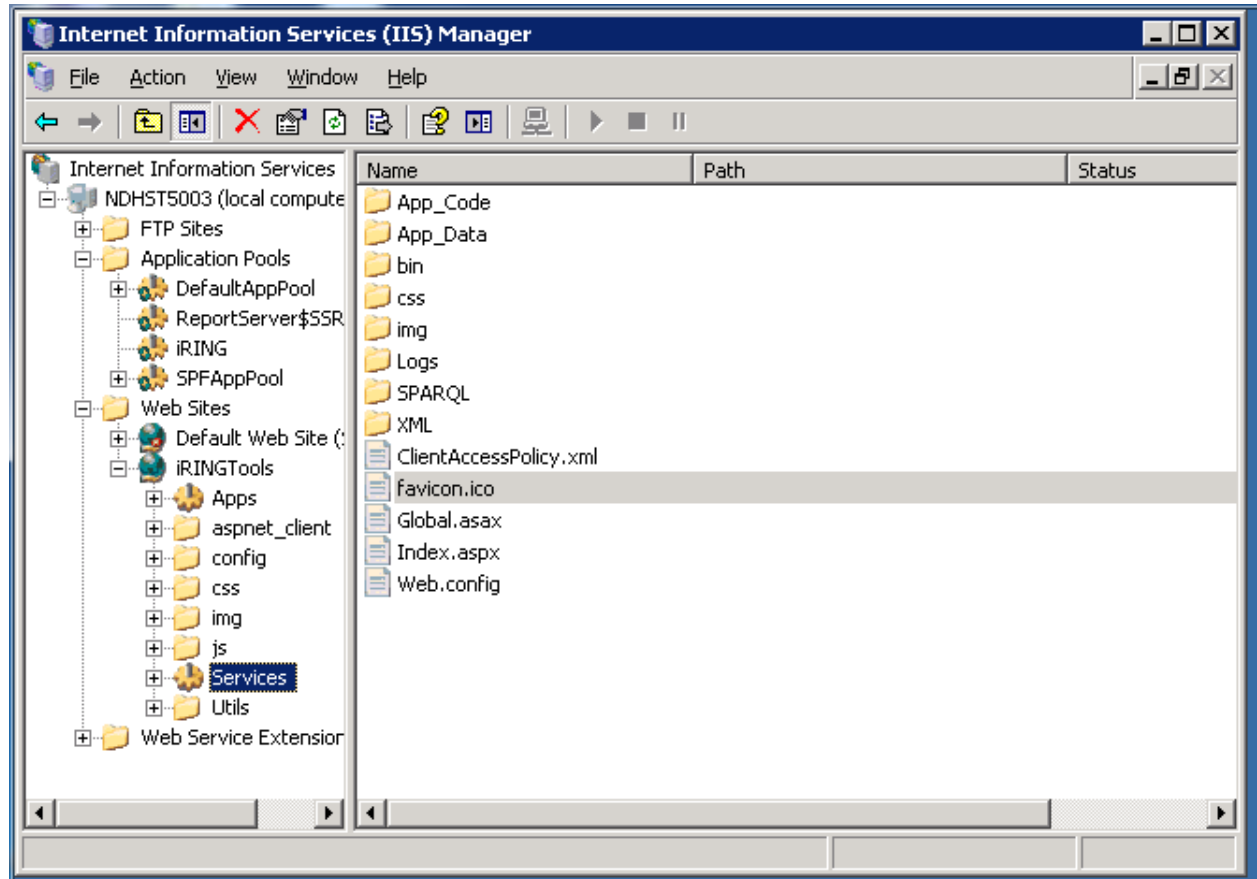


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Defining Application pool in Services

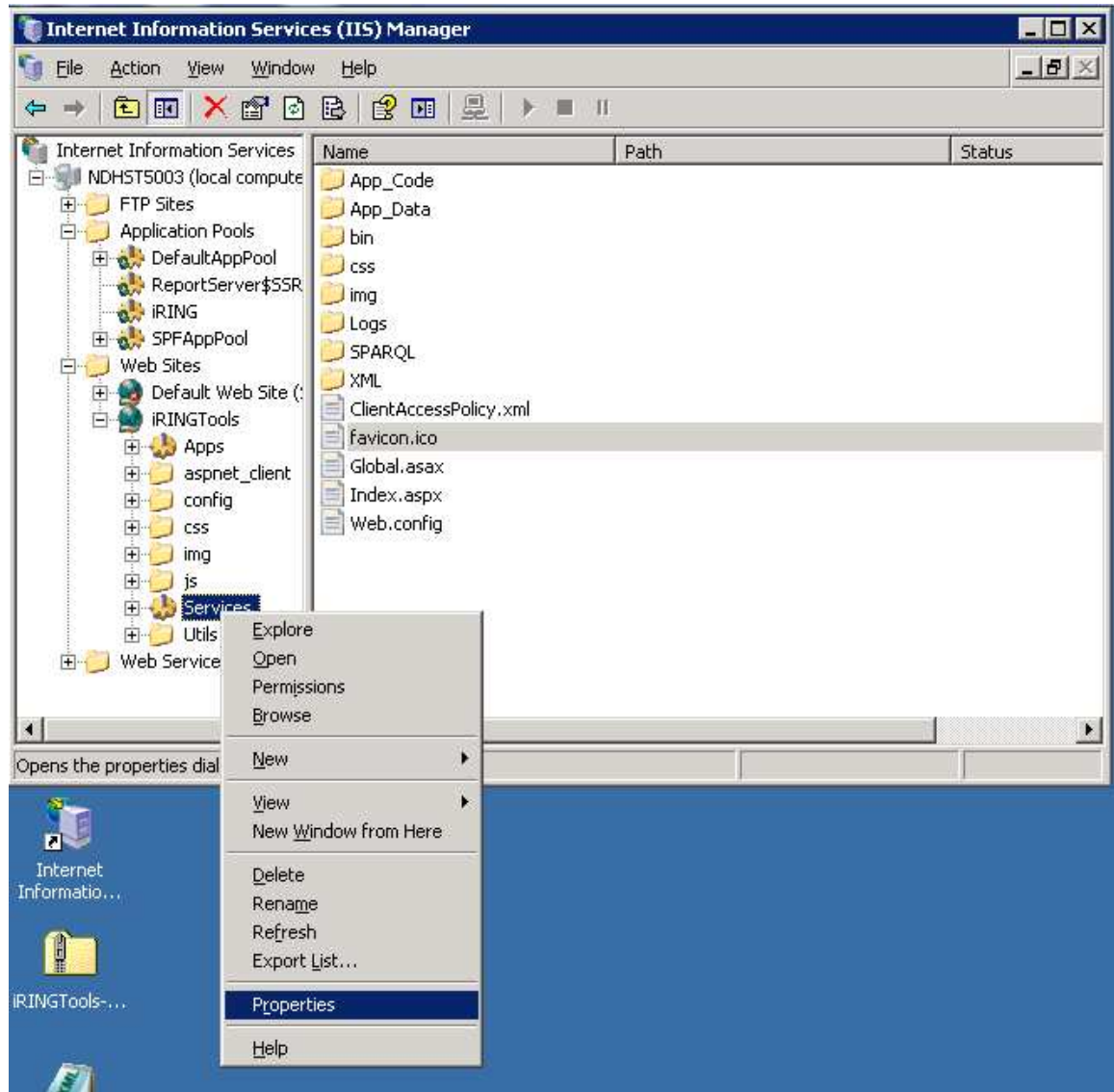
1. Select and Expand Web Sites



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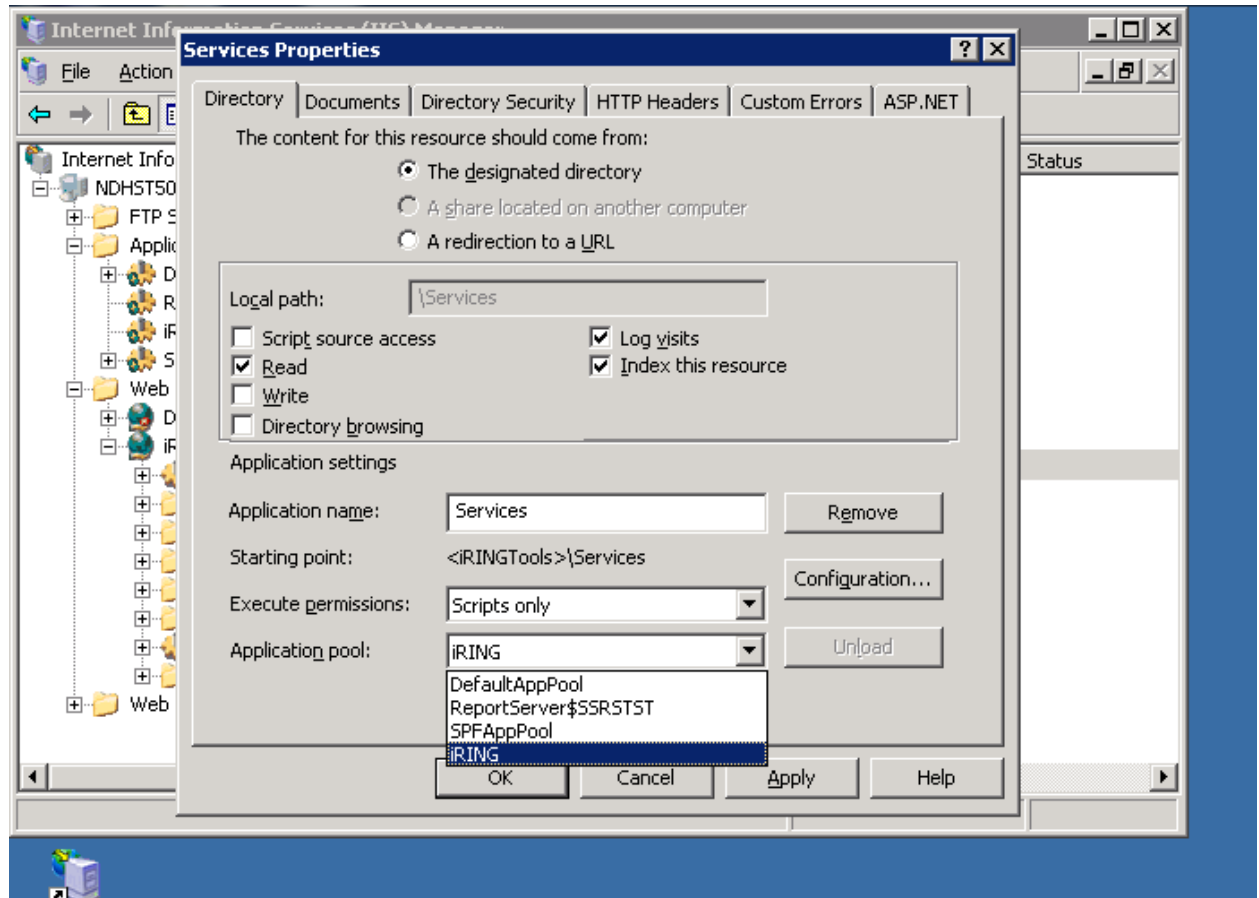
2. Right click Services and select properties



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3. In Directory tab for Application pool: Select the New Application pool created.



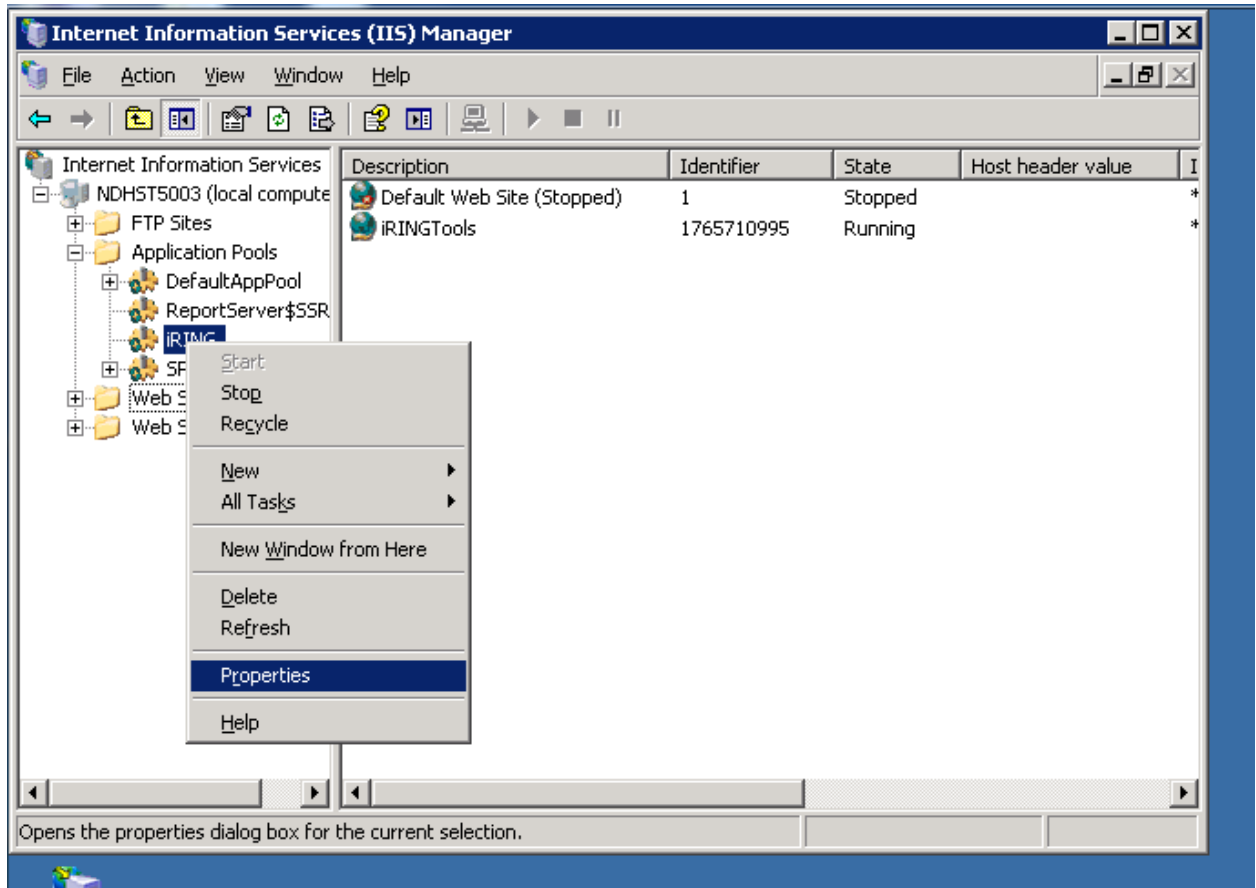
4. Click Apply and OK

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Set the Identity of the Application Pool to Network Service

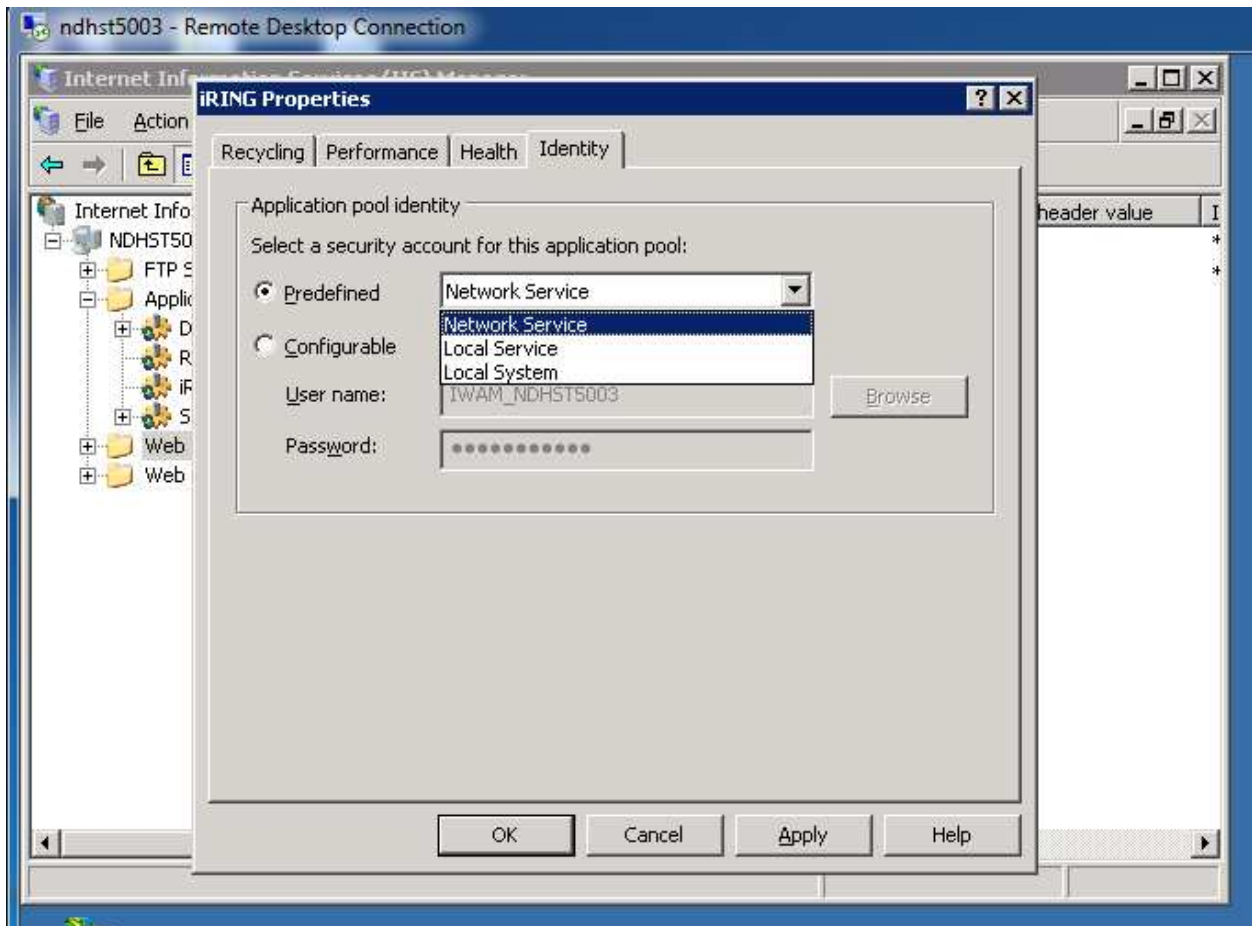
1. In IIS Manager select the Application Pools and right select the new application pool and its properties



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2. Go To identity tab and Select Network Services as Predefined Application pool Identity.



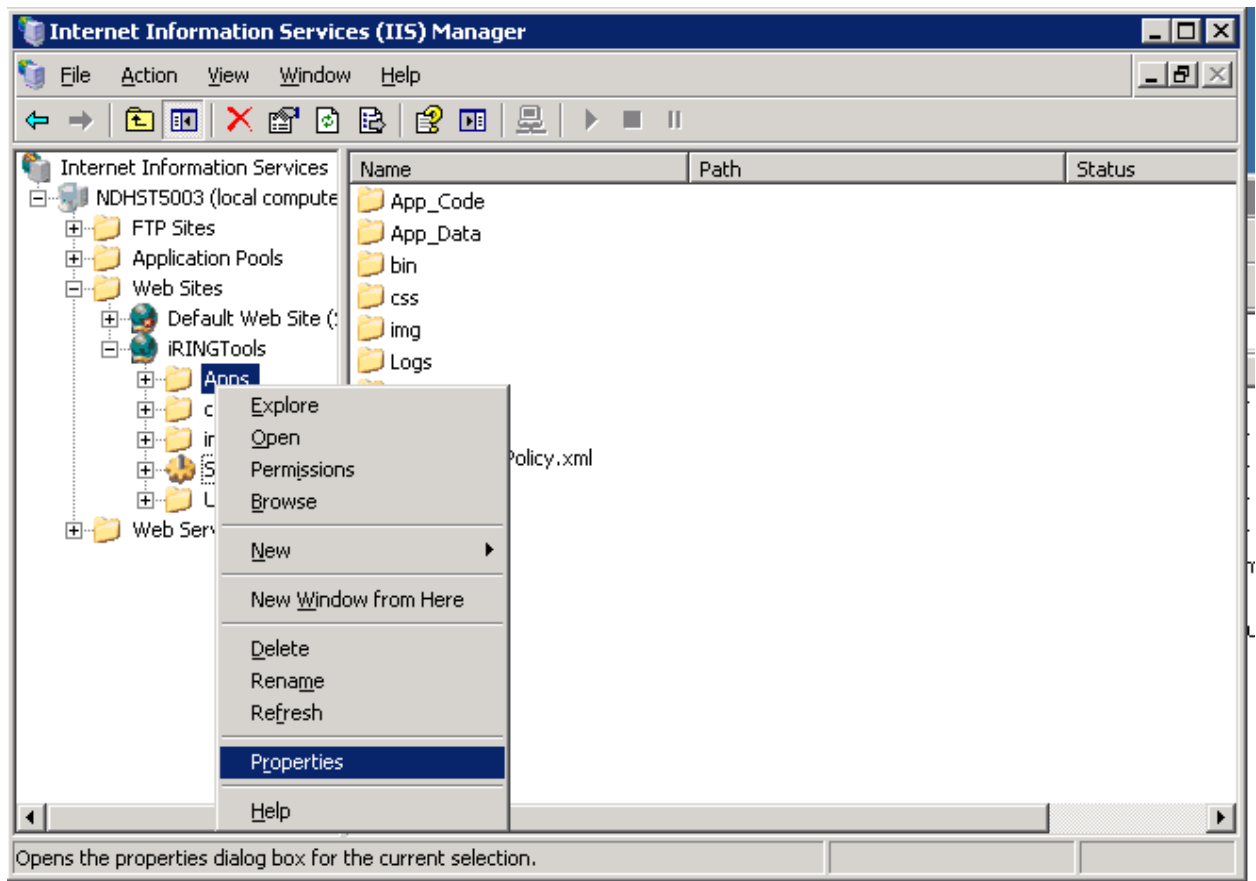
Click Apply and then OK

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7. Creating Virtual Directory for Apps

- a. Open IIS Manager. Expand the iRINGTools website & right click Apps folder & click Properties.



- b. Click on Create.

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Apps Properties [?] [X]

Directory | Documents | Directory Security | HTTP Headers | Custom Errors | ASP.NET

The content for this resource should come from:

- ☒ The designated directory
- ☐ A share located on another computer
- ☐ A redirection to a URL

Local path: \\Apps

☐ Script source access ☒ Log visits

☒ Read ☒ Index this resource

☐ Write

☐ Directory browsing

Application settings

Application name: Default Application [Create]

Starting point: <IRINGTools> [Configuration...]

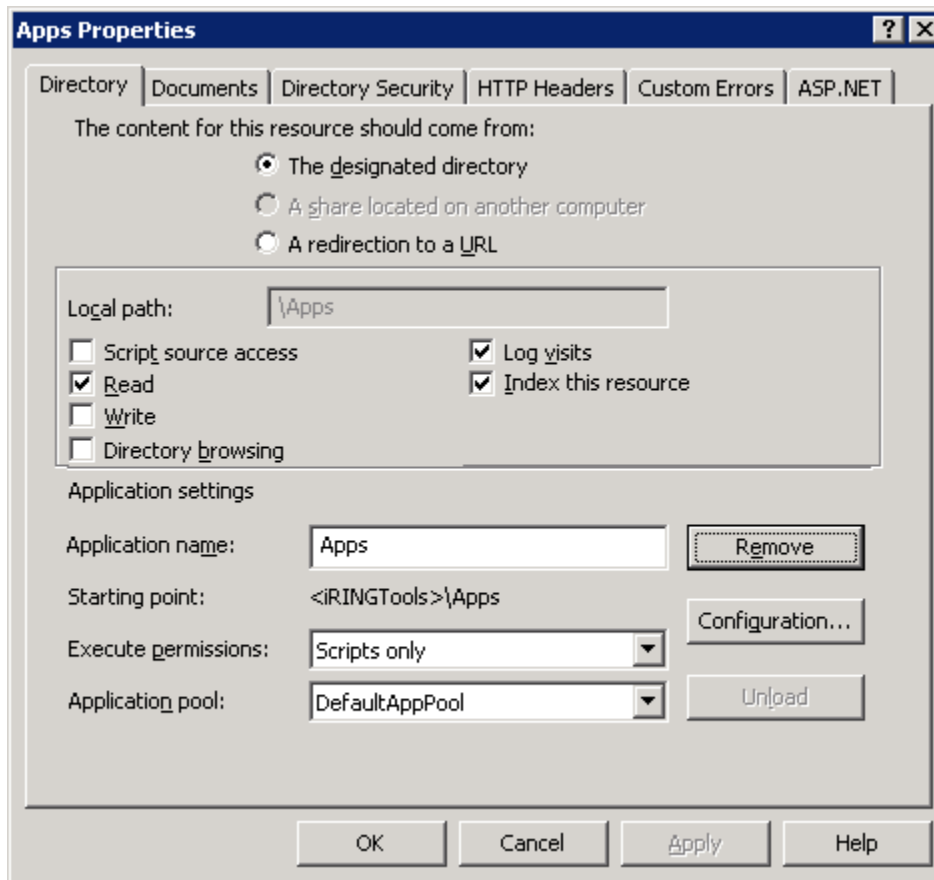
Execute permissions: Scripts only [v]

Application pool: DefaultAppPool [v] [Unload]

[OK] [Cancel] [Apply] [Help]

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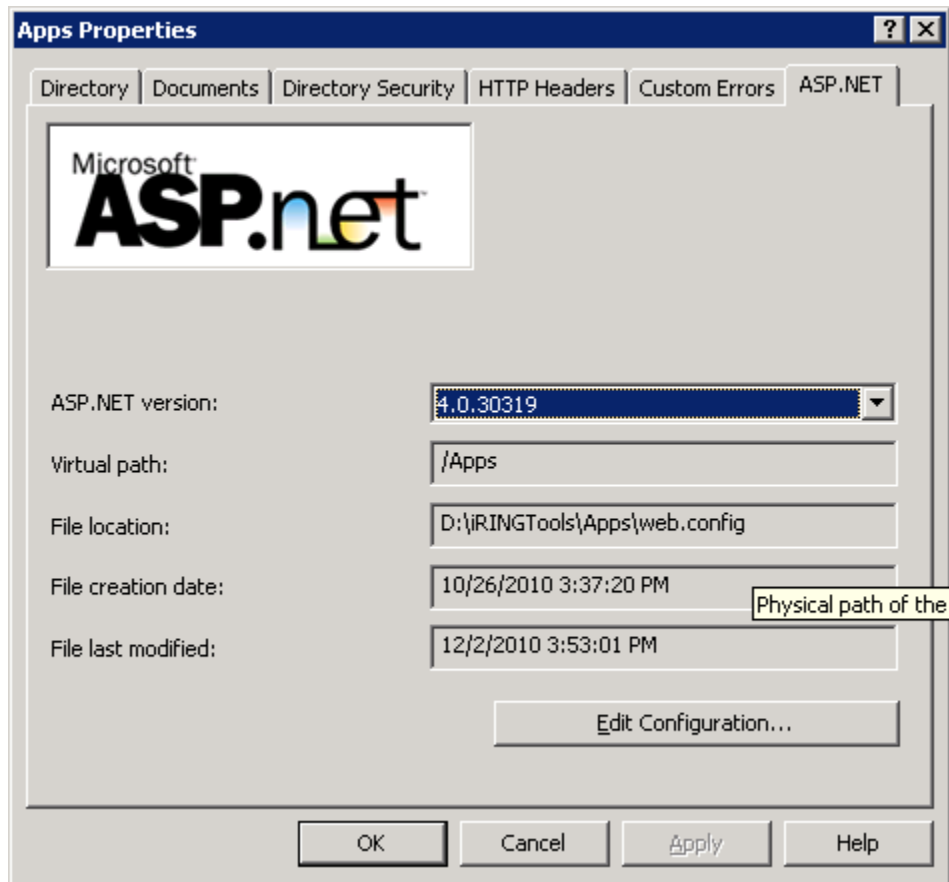
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- c. Go to ASP.net tab & verify the ASP.net version is 4.0.30319

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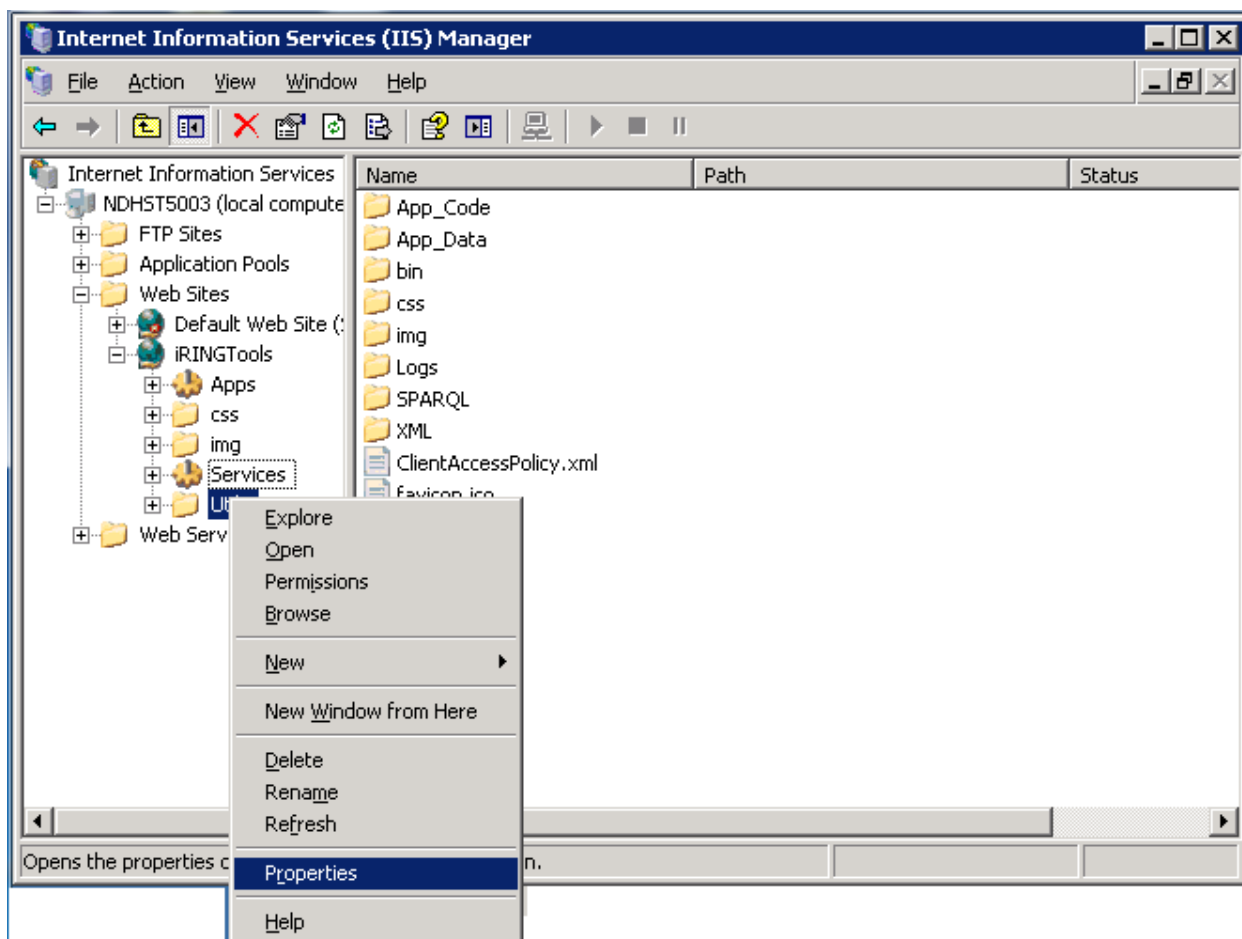
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- d. Click OK
8. Removing Access from Utils folder.
 - a. Open IIS Manager, expand the iRINGTools website & right click the Utils folder & click Properties.

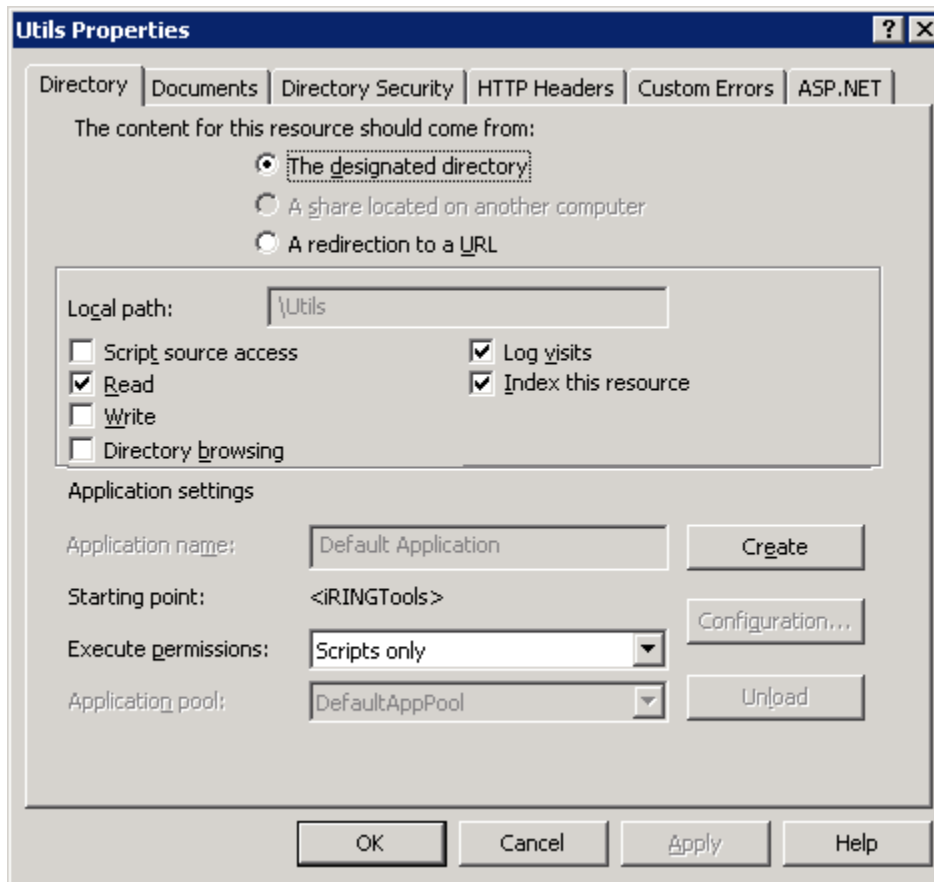
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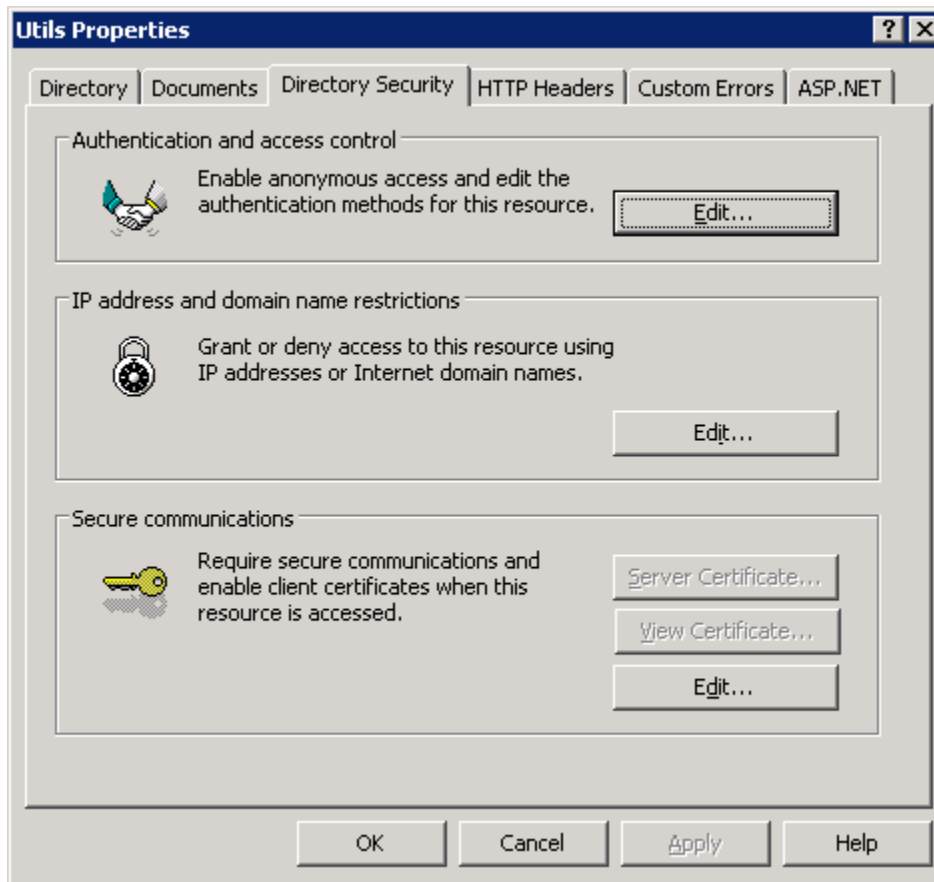
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- b. Go to Directory Security Tab & click edit for Authentication & Access control.

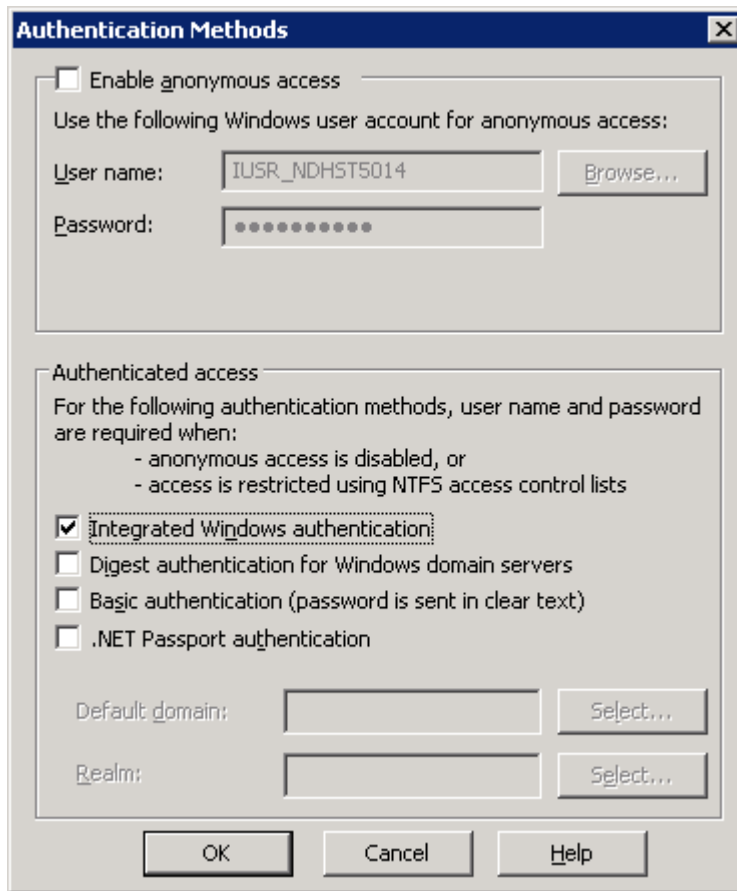
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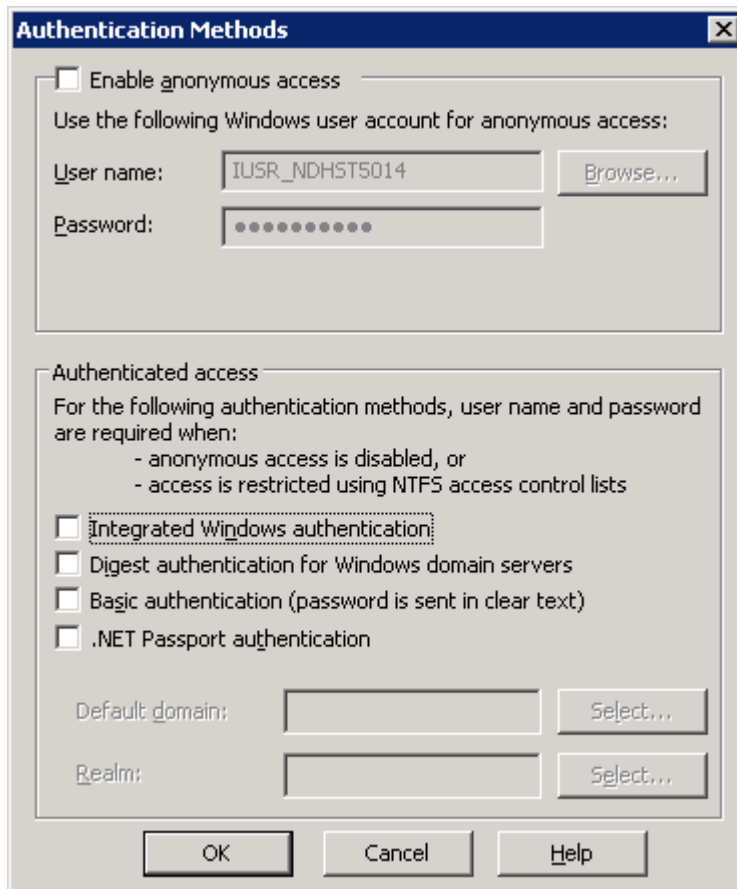
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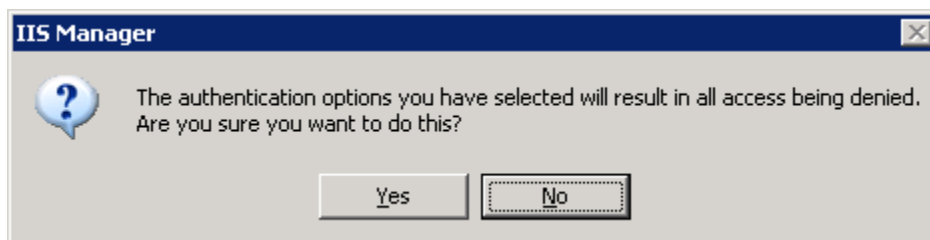
- c. Un-Check the Integrated Windows Authentication Mode & Click OK.

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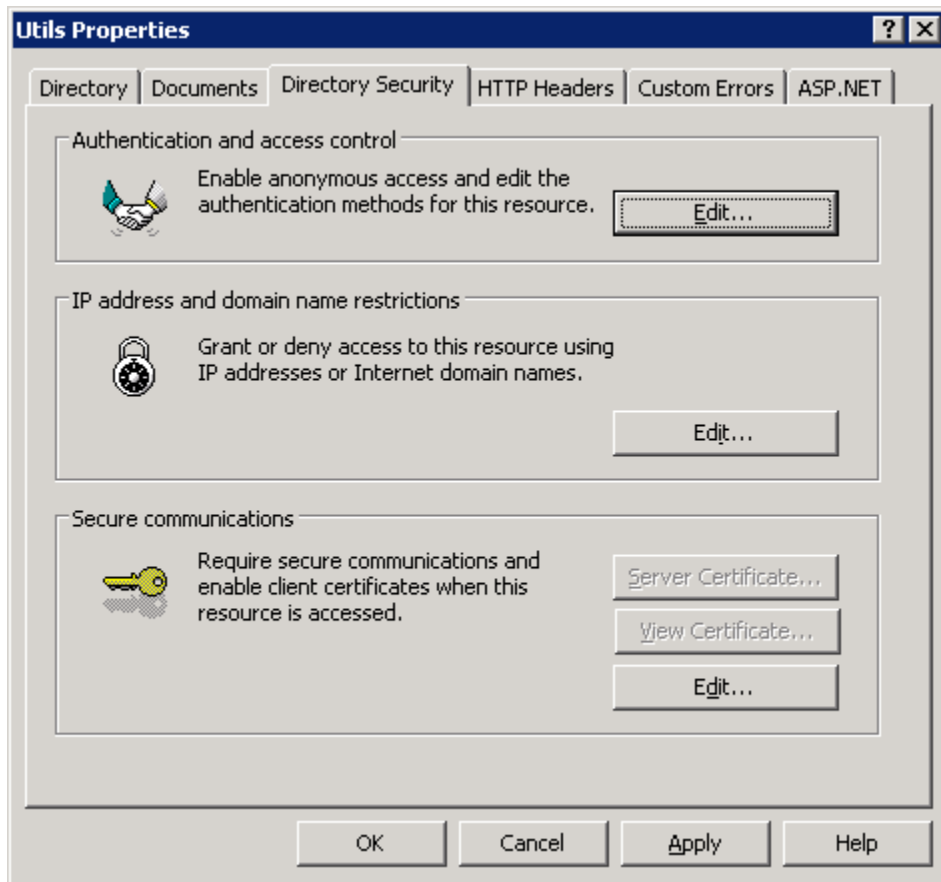
d. Click Yes.



e. Click Apply & then Click OK.

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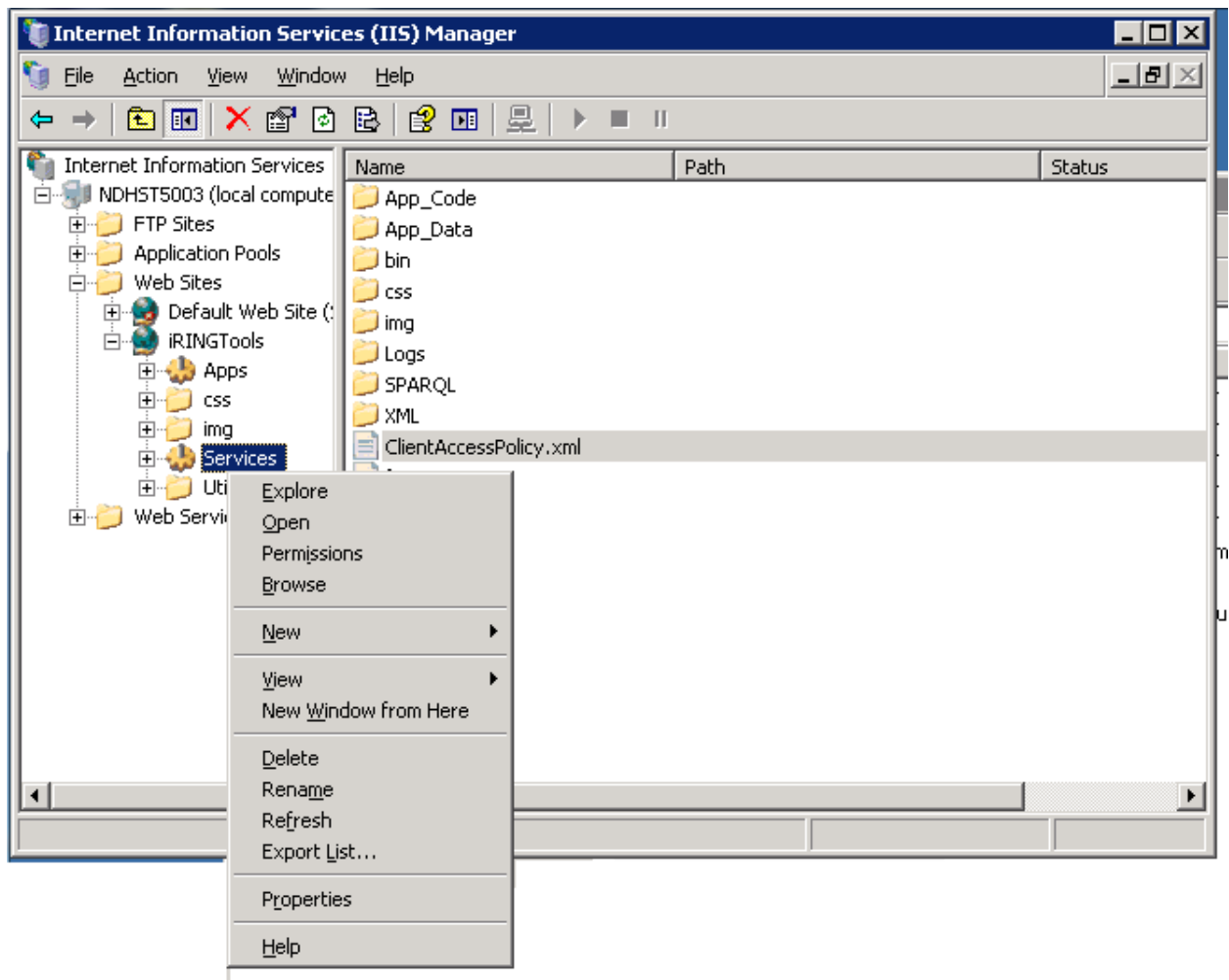
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9. Adding aspnet_Isapi.dll to app configuration for Services virtual directory.
 - a. Open IIS Manager, expand the iRINGTools website & right click on Services & click Properties.

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- b. Click on Configuration.

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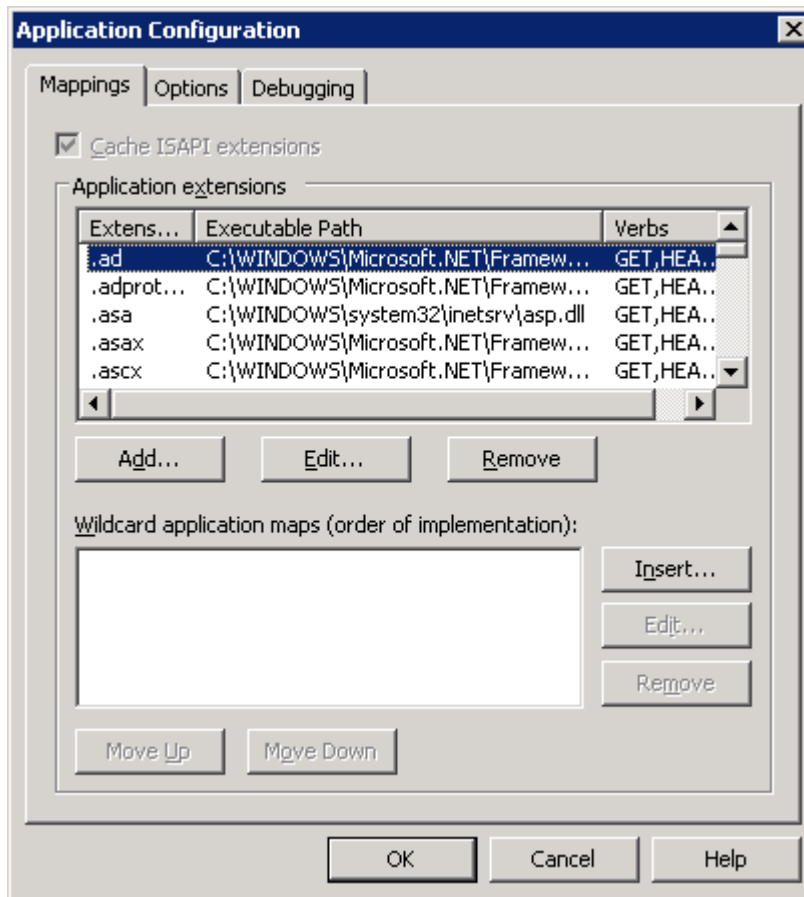
The screenshot shows the 'Services Properties' dialog box with the 'Directory' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar are tabs for 'Directory', 'Documents', 'Directory Security', 'HTTP Headers', 'Custom Errors', and 'ASP.NET'. The 'Directory' tab contains the following elements:

- A text label: 'The content for this resource should come from:'
- Three radio buttons:
 - ☒ The designated directory
 - ☐ A share located on another computer
 - ☐ A redirection to a URL
- A text box labeled 'Local path:' containing the text '\\Services'.
- A group of checkboxes:
 - ☐ Script source access
 - ☒ Read
 - ☐ Write
 - ☐ Directory browsing
 - ☒ Log visits
 - ☒ Index this resource
- A section titled 'Application settings' containing:
 - 'Application name:' with a text box containing 'Services' and a 'Remove' button.
 - 'Starting point:' with a text box containing '<IRINGTools>\\Services' and a 'Configuration...' button.
 - 'Execute permissions:' with a dropdown menu showing 'Scripts only'.
 - 'Application pool:' with a dropdown menu showing 'DefaultAppPool' and an 'Unload' button.

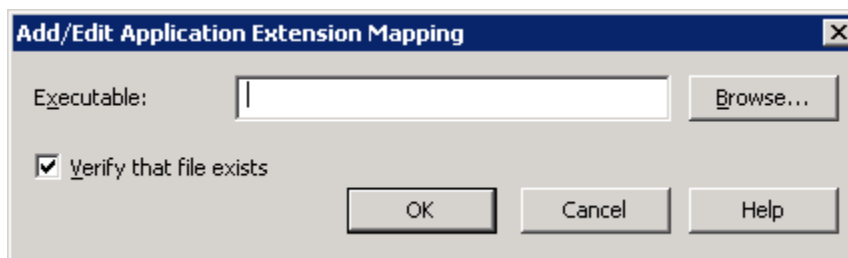
At the bottom of the dialog are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

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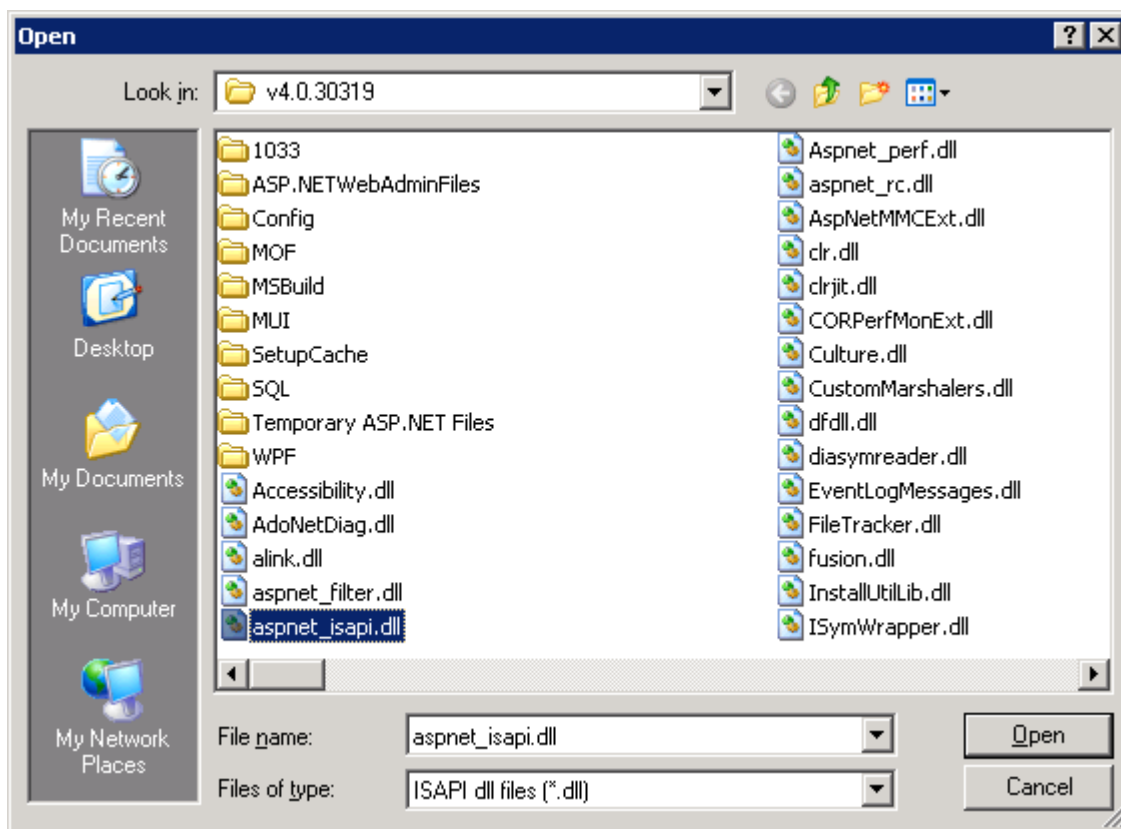
- c. Click on Insert.



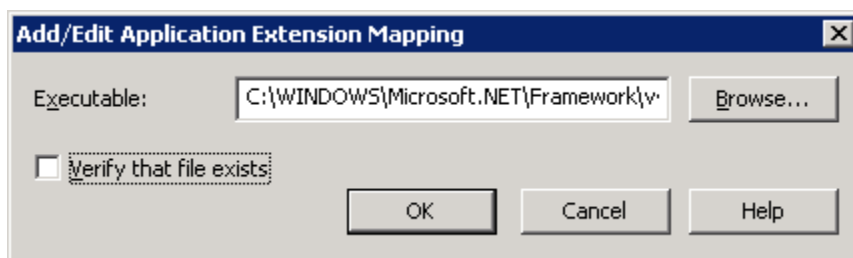
- d. Browse to the path C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319 & select aspnet_isapi.dll.

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- e. Uncheck Verify that file exists & click OK.



- f. Click Ok to close the properties windows.

10. Adding MIME types for Apps virtual directory.

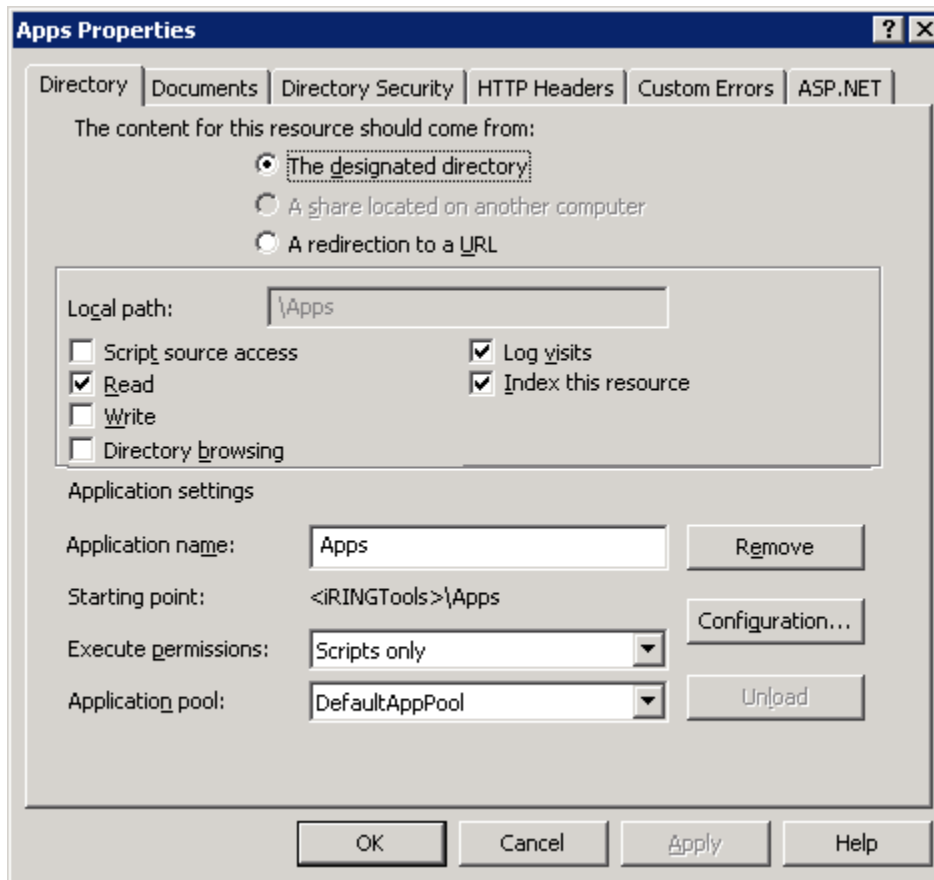
- a. Open IIS Manager, Expand the iRINGTools website & right click Apps virtual directory & click Properties.

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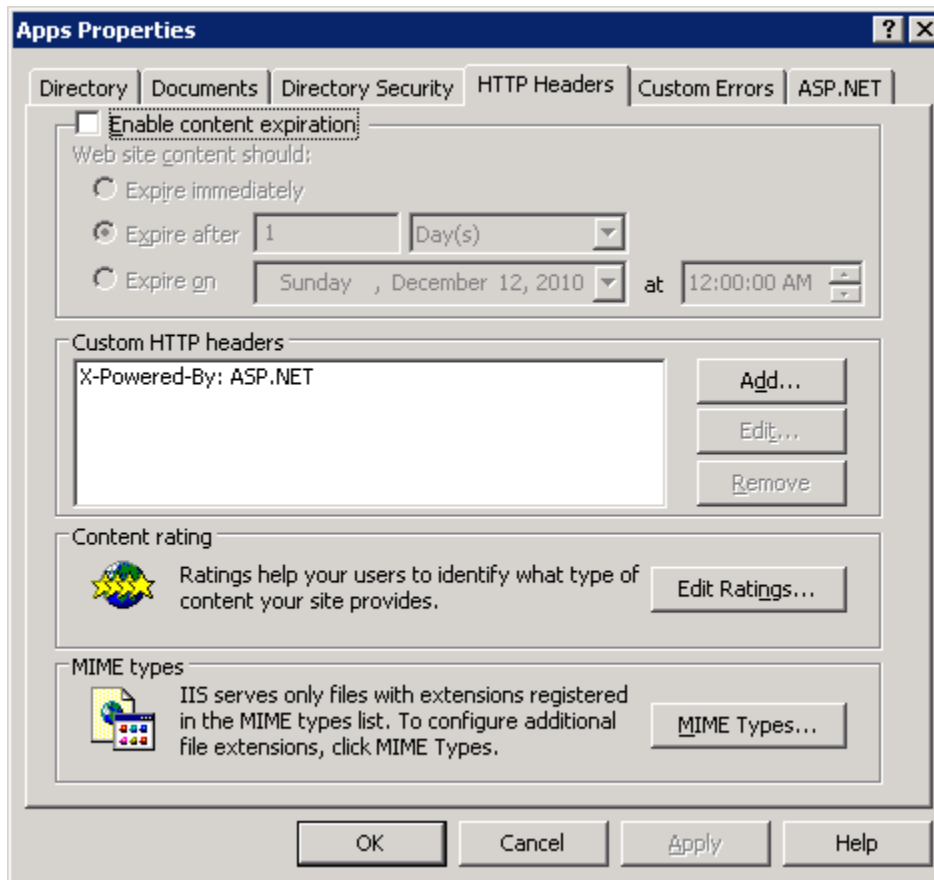
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- b. Go to HTTPHeaders tab

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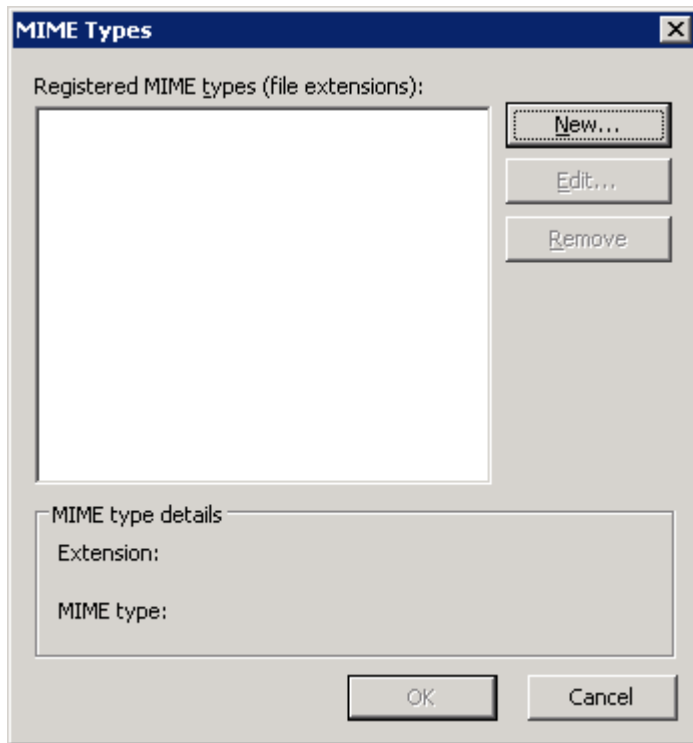
Main



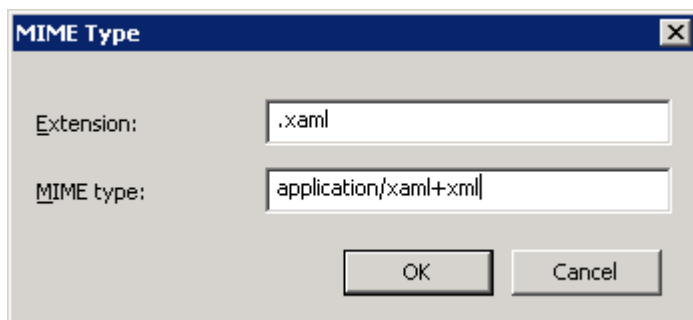
- c. Click on MIME Types.

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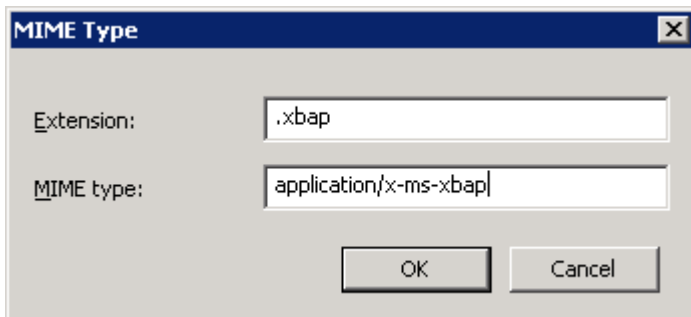
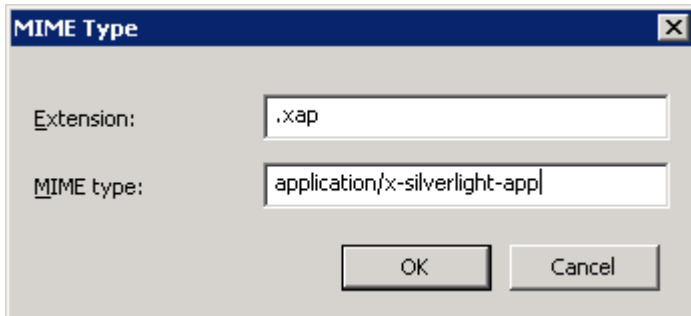
d. Click New & add following



Click OK & click New again to add all three MIME types

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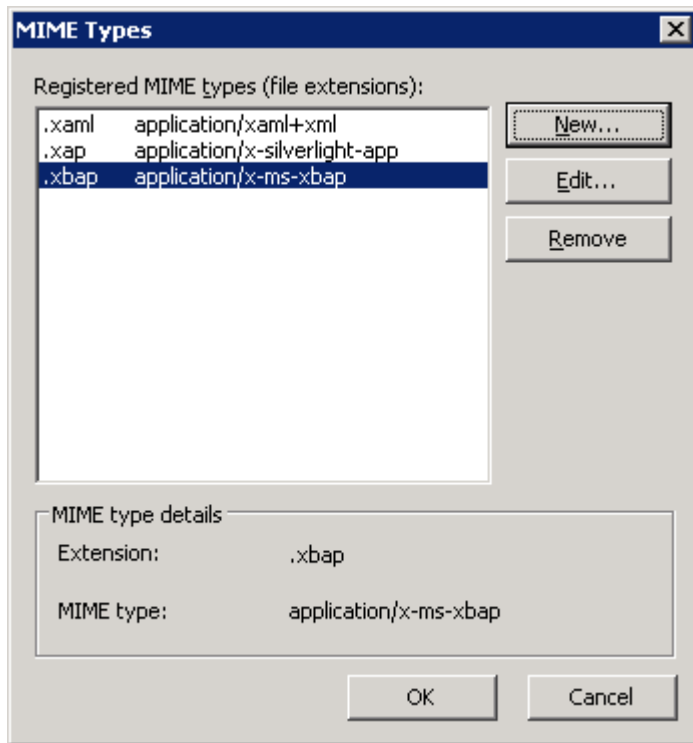
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- e. Click OK.

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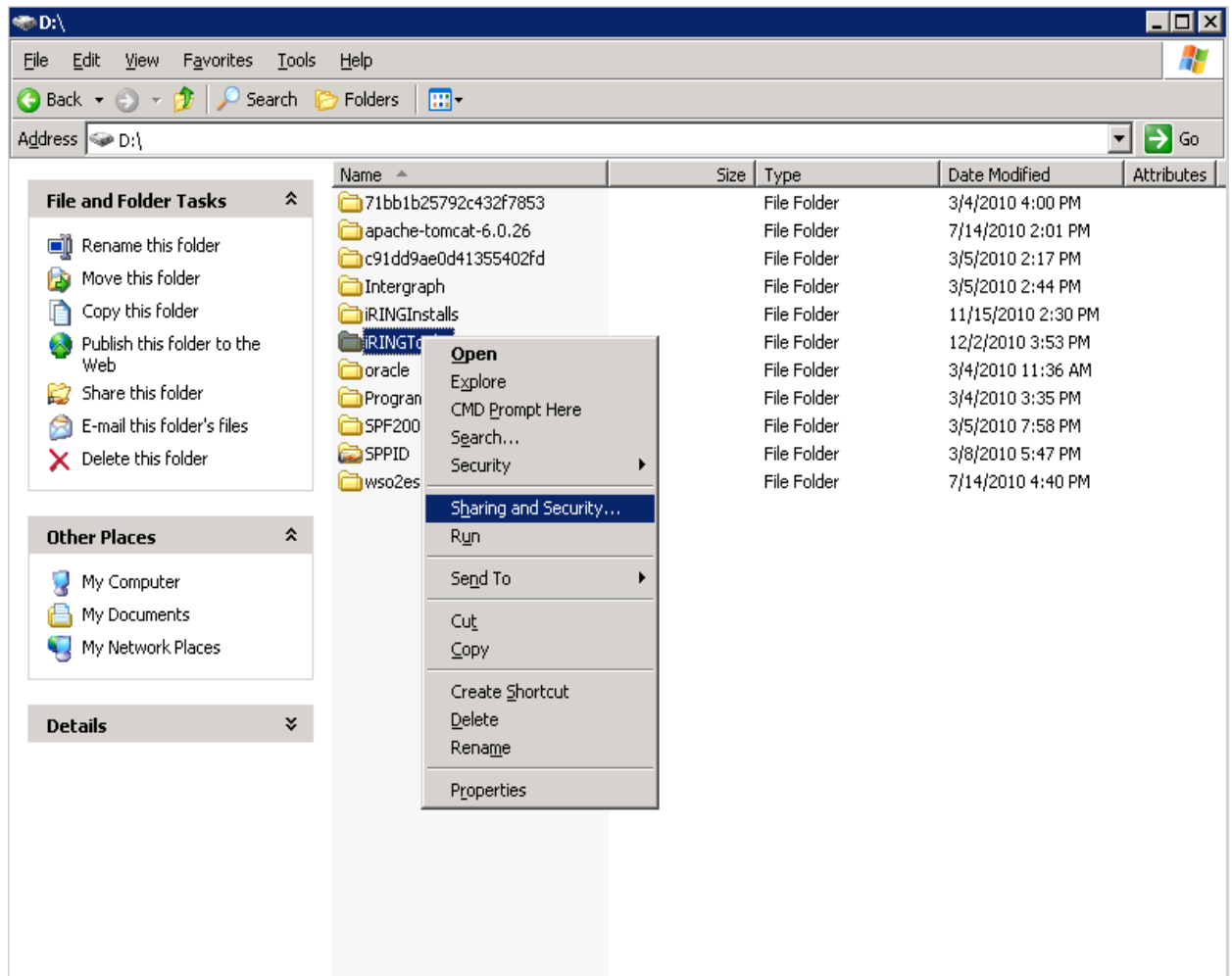
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- f. Click OK again to close the properties window for Apps.
11. Add Network Service to Security of iRINGTools folder.
 - a. Open My Computer & D drive. Right click iRINGTools folder & click Sharing & Securities.

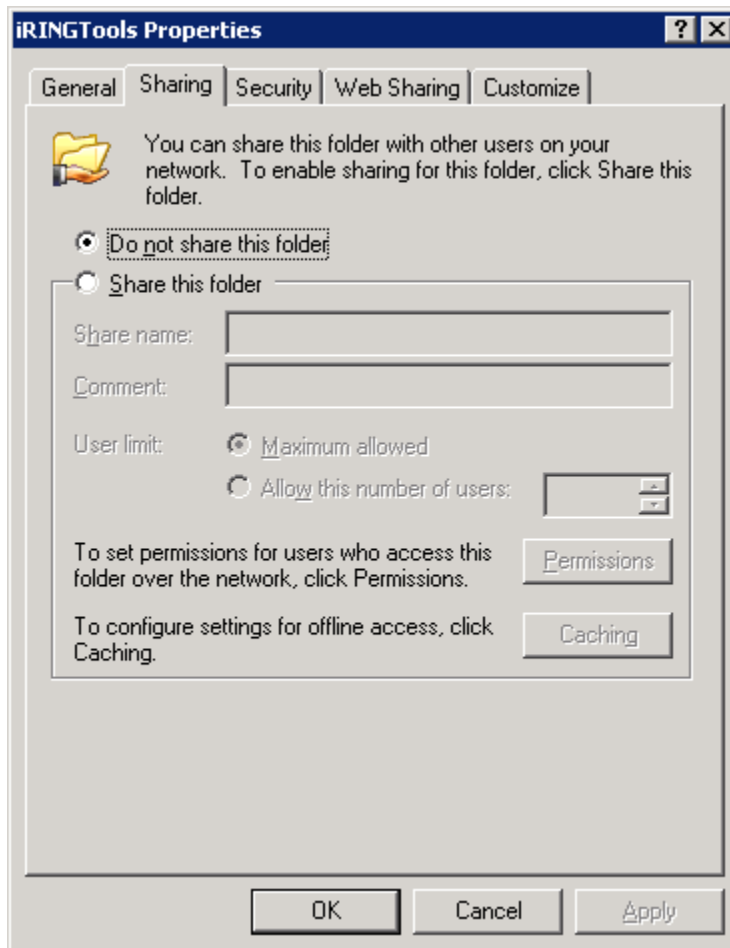
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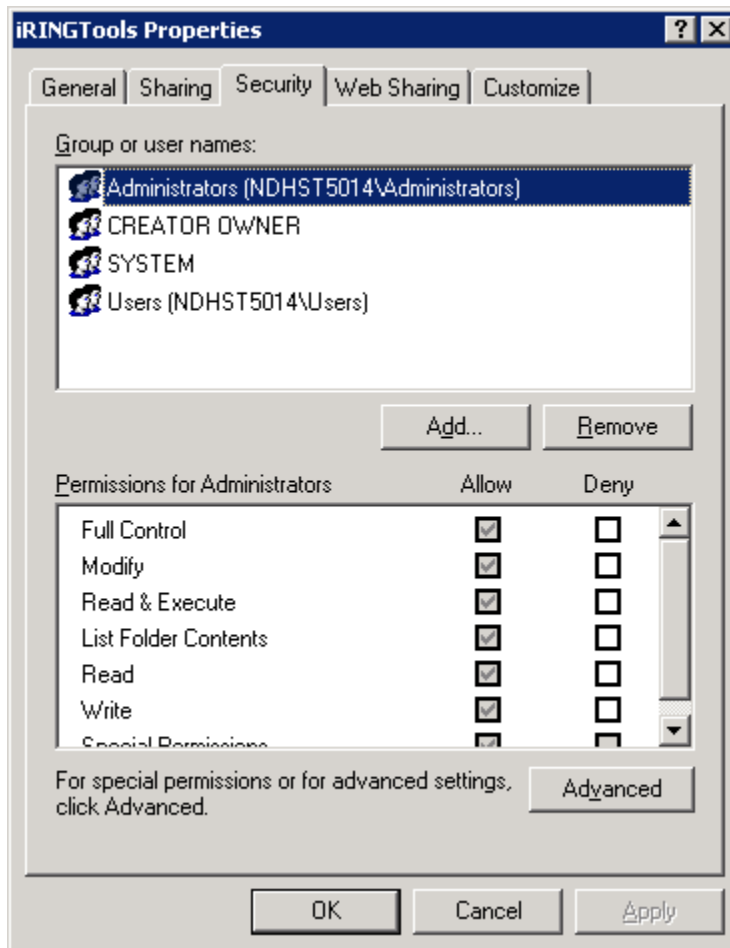
Main



- b. Go to Security Tab & Click Add

OPERATIONS INSTALL INSTRUCTIONS

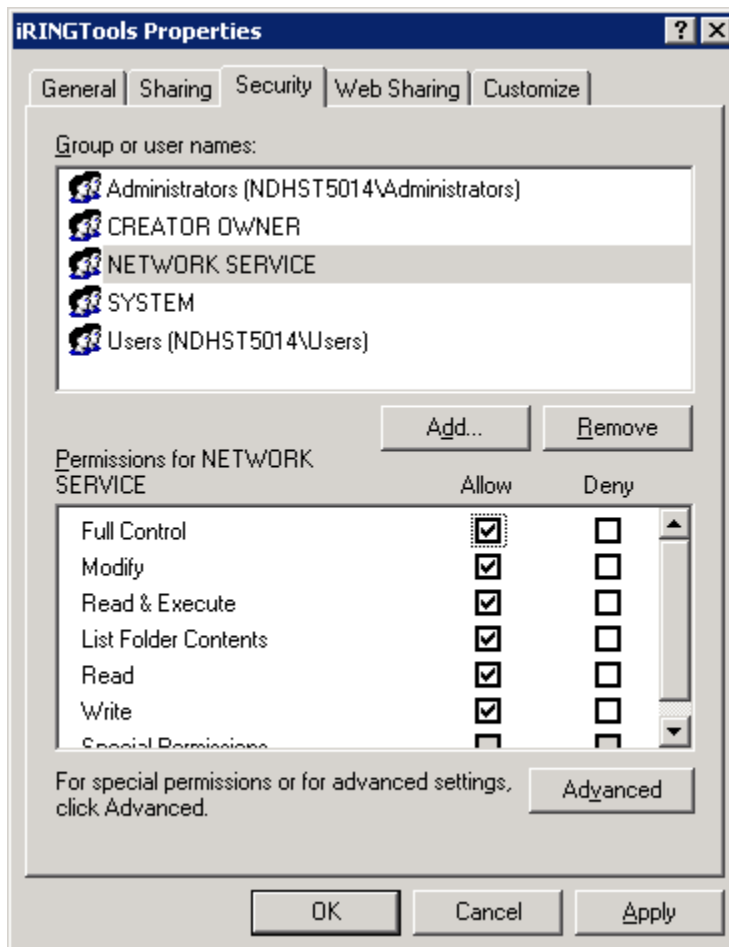
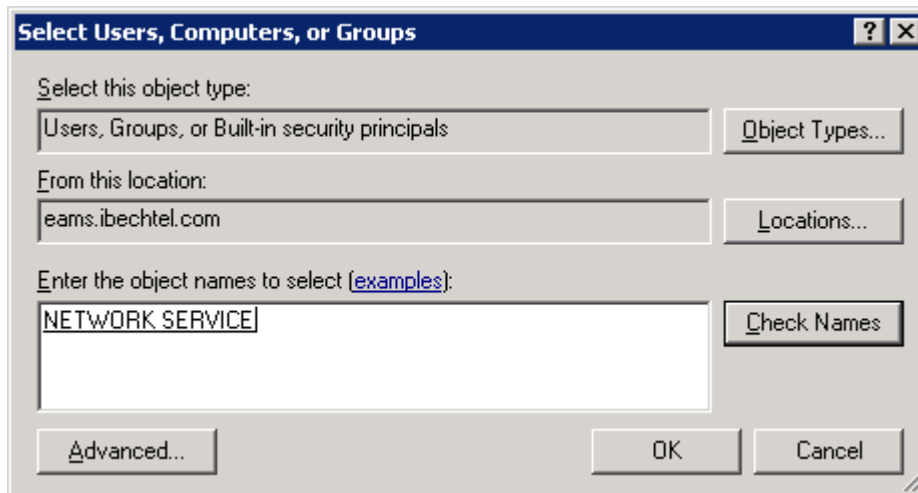
Main



- c. Add user NETWORK SERVICE & give it Full Control on this folder.

OPERATIONS INSTALL INSTRUCTIONS

Main



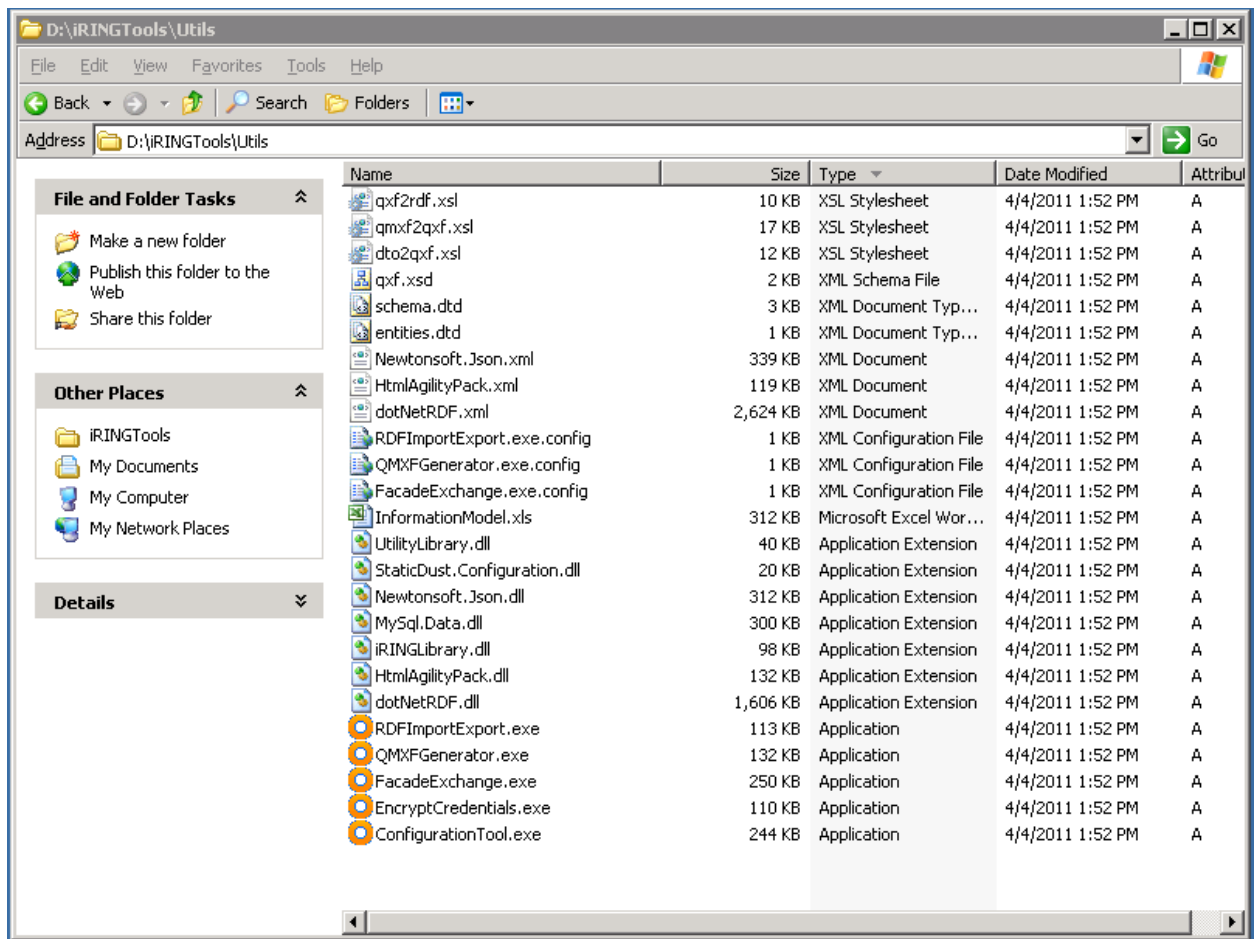
OPERATIONS INSTALL INSTRUCTIONS

Main

d. Click Apply & OK to close the window.

12. Updating Proxy Credentials and Registry Credential (You need to have an IDS ADI username & Password for this).

a. Open My Computer & browse to Utils folder in iRINGTools.



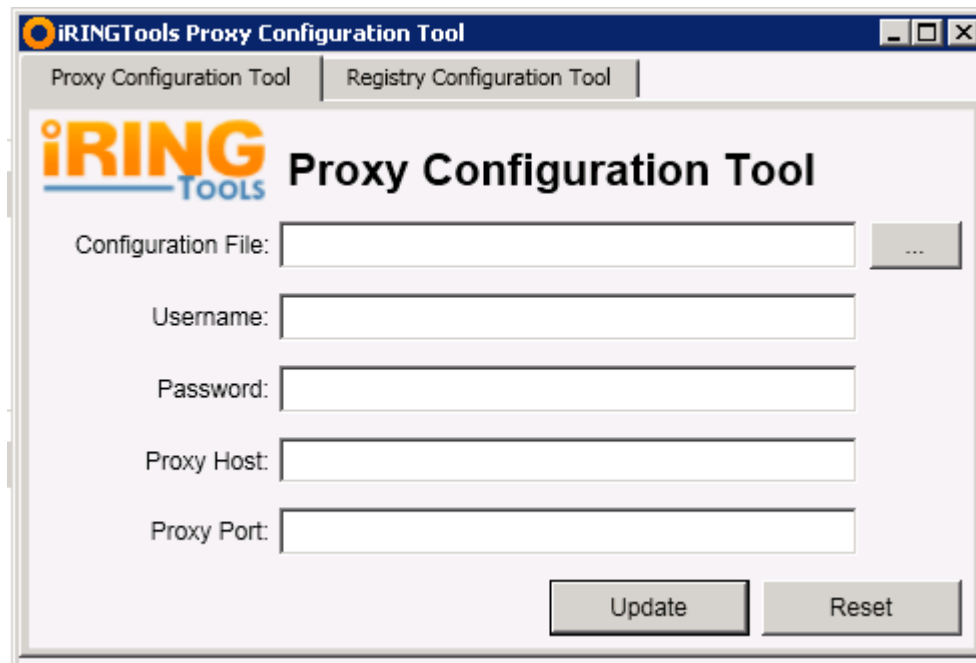
b. Double click ConfigurationTools.exe

OPERATIONS INSTALL INSTRUCTIONS

Main



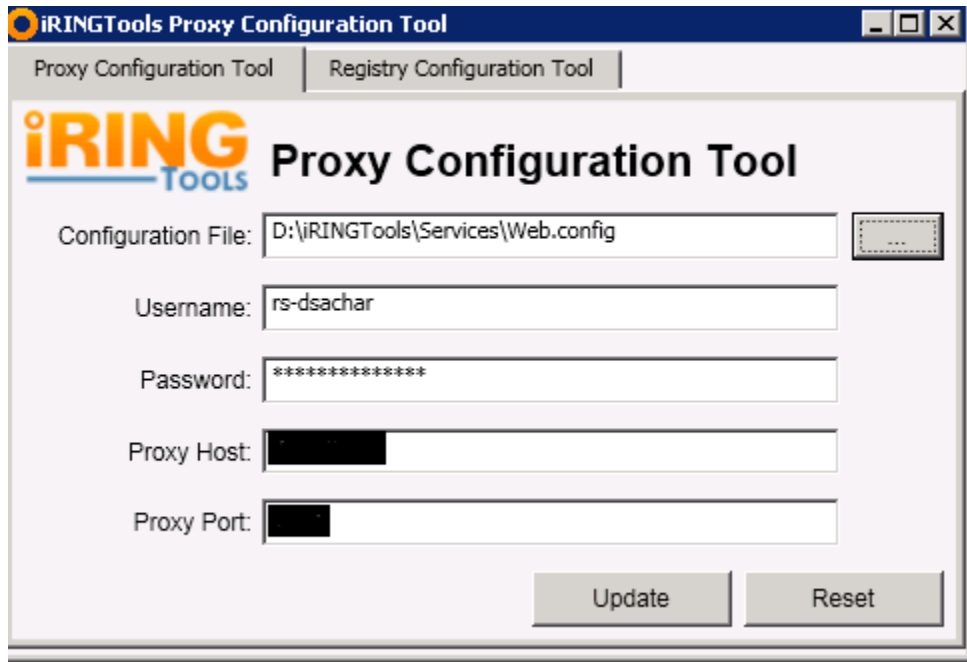
c. Click Run.



d. Give required details on this window & click update.

OPERATIONS INSTALL INSTRUCTIONS

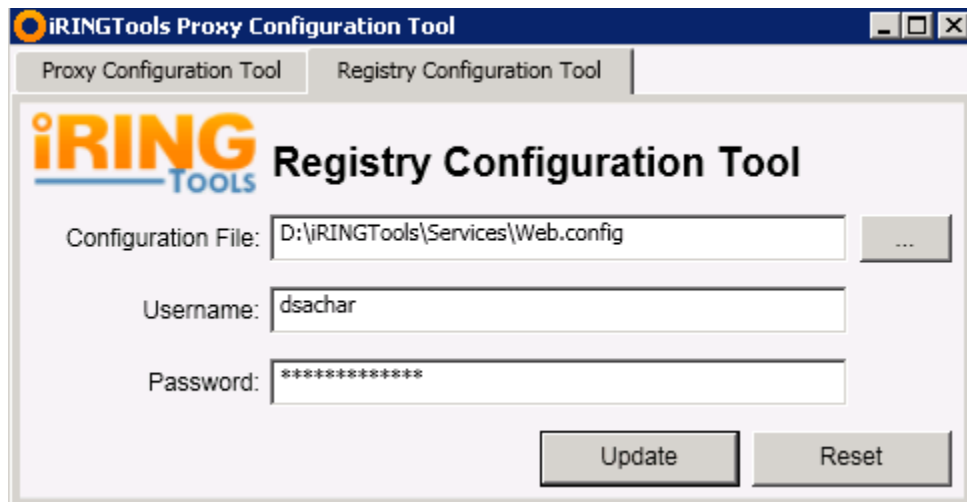
Main



The image shows the 'iRINGTools Proxy Configuration Tool' window. It has two tabs: 'Proxy Configuration Tool' (selected) and 'Registry Configuration Tool'. The window contains the following fields and buttons:

- Configuration File:** D:\iRINGTools\Services\Web.config
- Username:** rs-dsachar
- Password:** *****
- Proxy Host:** [Redacted]
- Proxy Port:** [Redacted]
- Buttons:** Update, Reset

e. Click OK & Click the Registry Configuration Tool.



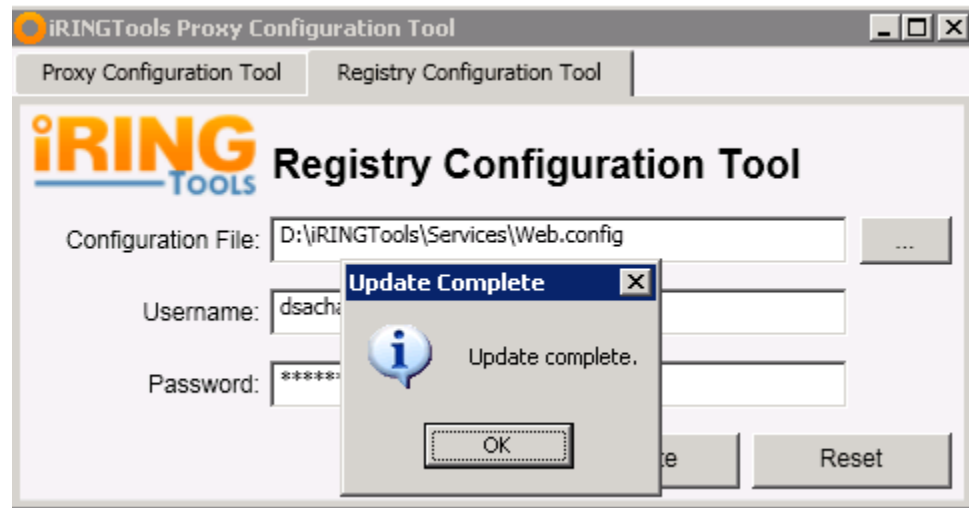
The image shows the 'iRINGTools Registry Configuration Tool' window. It has two tabs: 'Proxy Configuration Tool' and 'Registry Configuration Tool' (selected). The window contains the following fields and buttons:

- Configuration File:** D:\iRINGTools\Services\Web.config
- Username:** dsachar
- Password:** *****
- Buttons:** Update, Reset

f. Give required Details in the windows & click update.

OPERATIONS INSTALL INSTRUCTIONS

Main



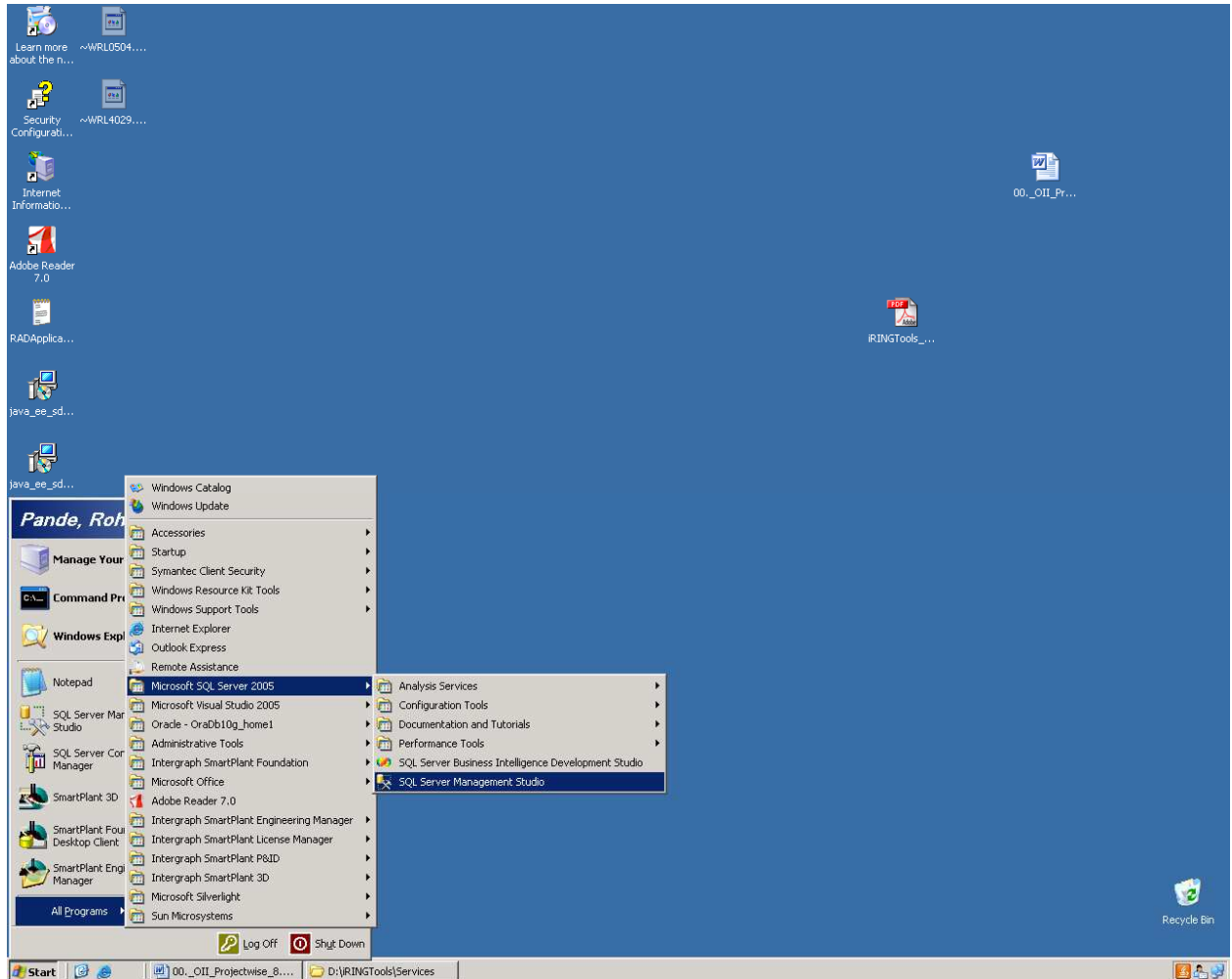
- g. Click ok and close the Configuration window.

OPERATIONS INSTALL INSTRUCTIONS

Main

13. Creating sandbox & interface database.

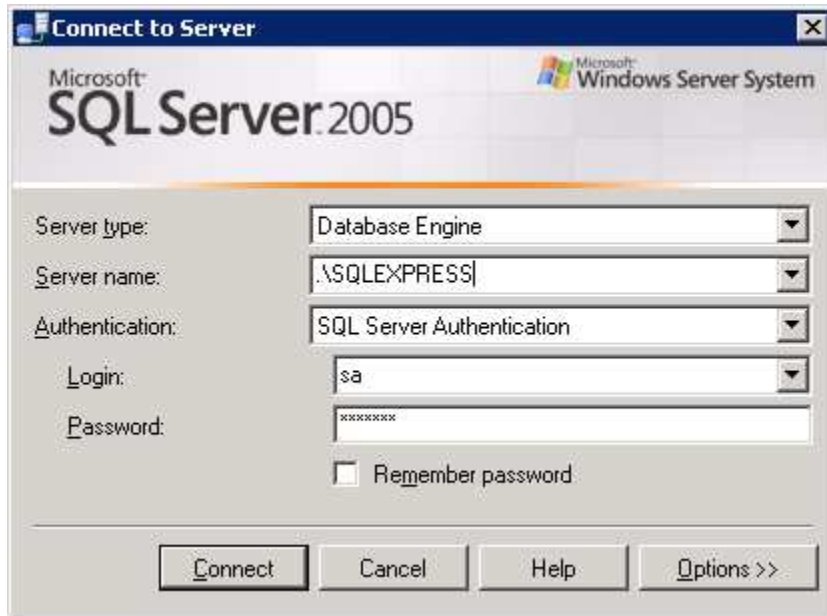
a. Launch the SQL Server Management Studio.



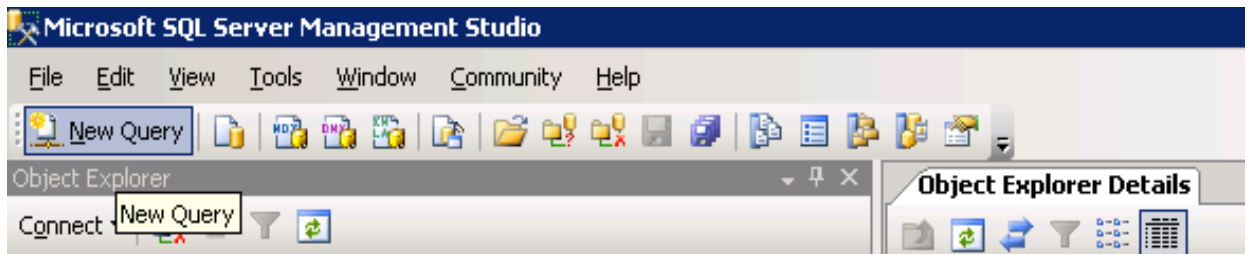
b. Log in using the sa account.

OPERATIONS INSTALL INSTRUCTIONS

Main



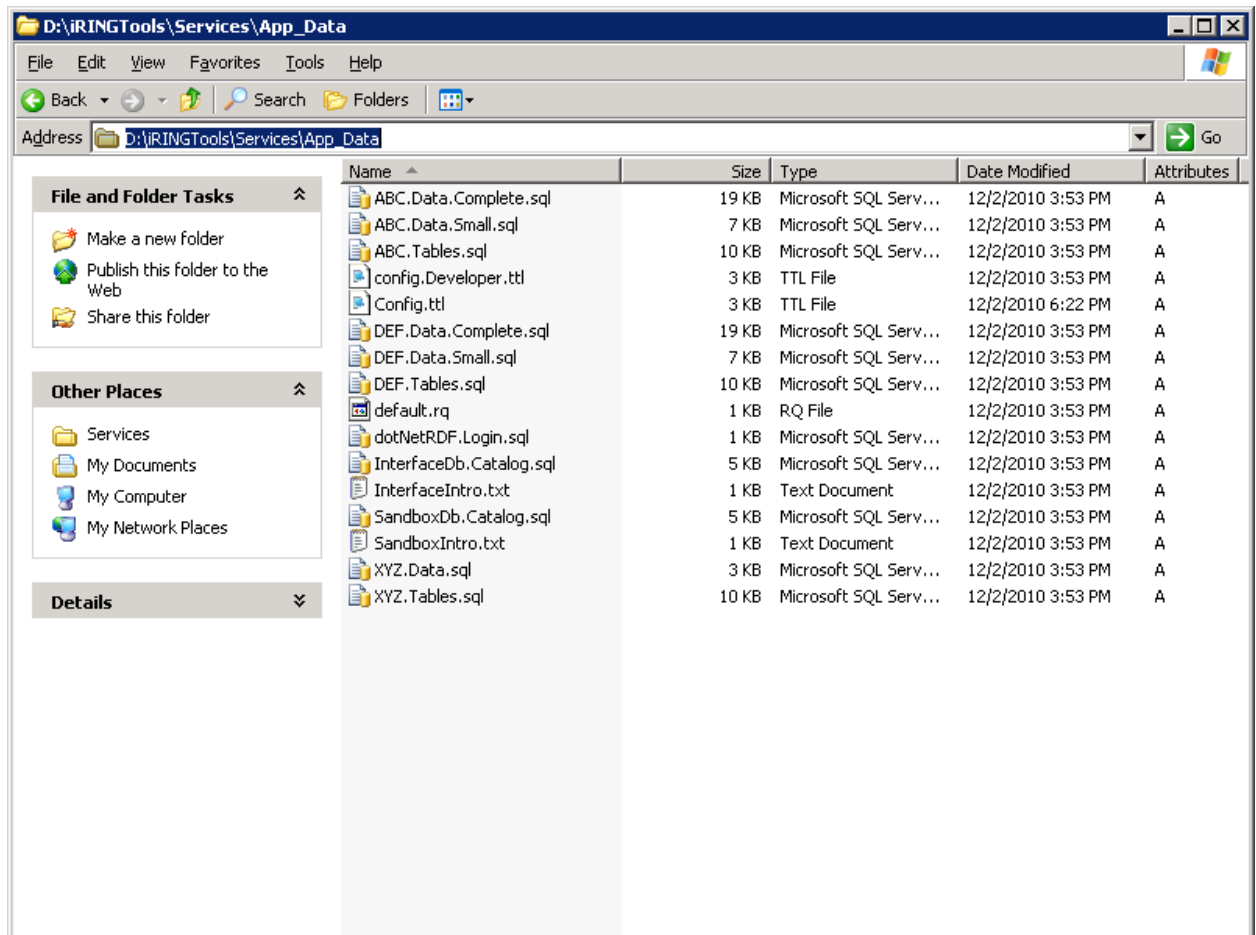
- c. In management Studio console click on New Query.



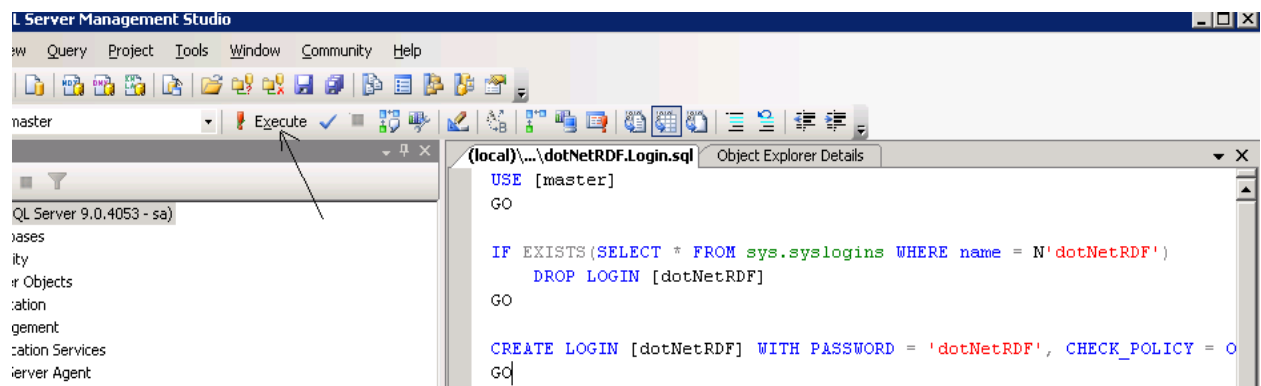
- d. open My Computer & browse to D:\iRINGTools\Services\App_Data

OPERATIONS INSTALL INSTRUCTIONS

Main

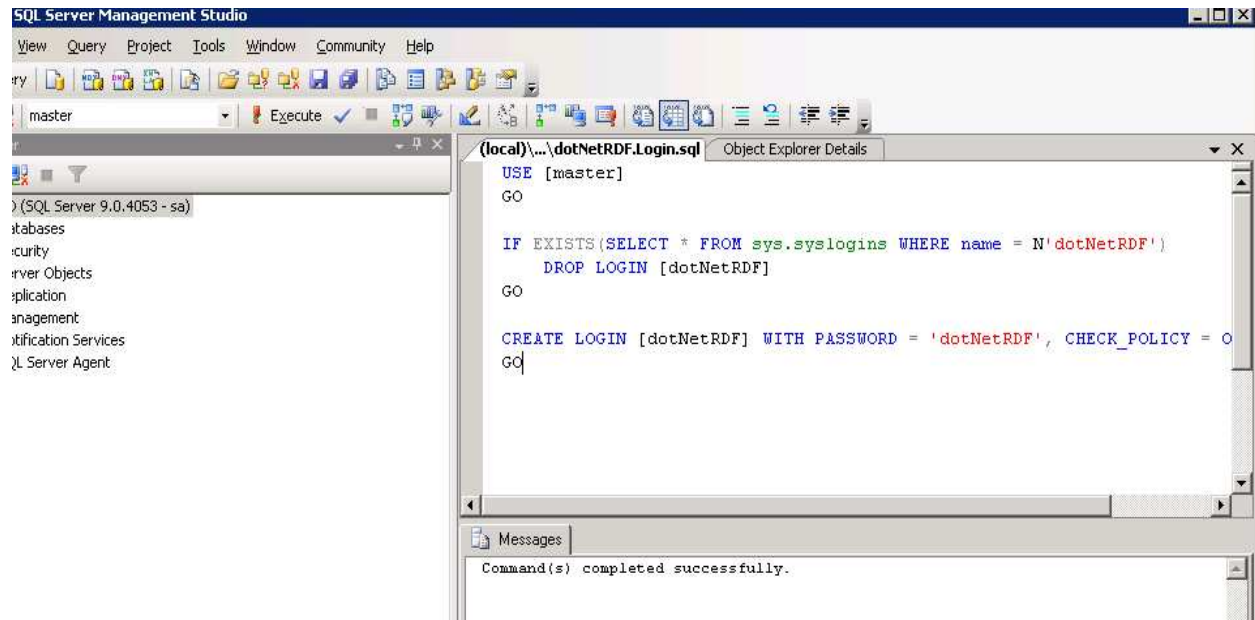


- e. Drag the file dotNetRDF.Login.sql from this folder into new query window of SQL Management Studio & click Execute.



OPERATIONS INSTALL INSTRUCTIONS

Main



- f. again click on New Query & repeat the same step for following scripts (all in same location) in this sequence

InterfaceDb.Catalog.sql
SandboxDb.Catalog.sql
ABC.Tables.sql
ABC.Data.Complete.sql

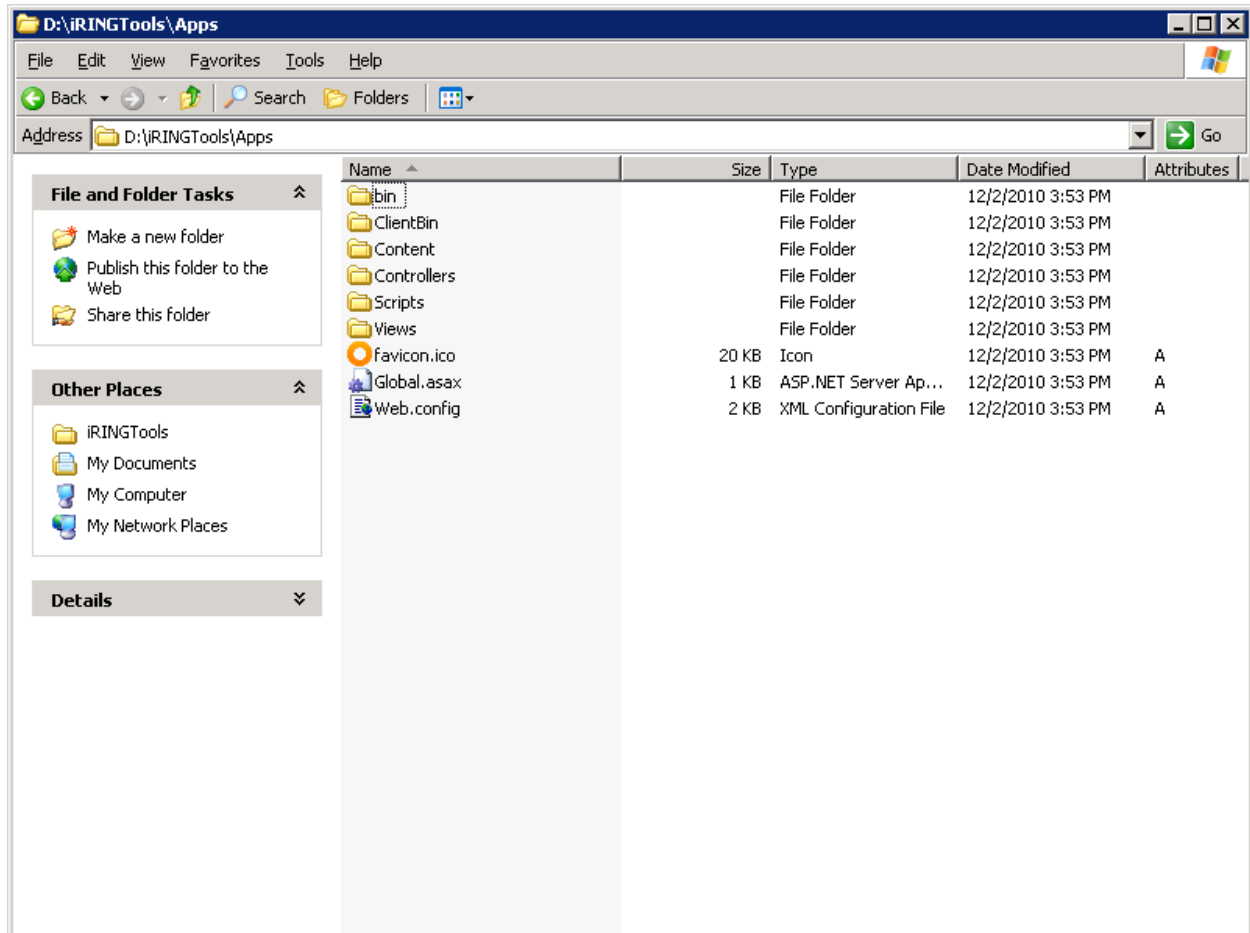
- g. After running these SQL scripts close the SQL server management Studio.

14. Changing Localhost to server name.

- a. Open My Computer & browse to Apps folder in iRINGTools folder.

OPERATIONS INSTALL INSTRUCTIONS

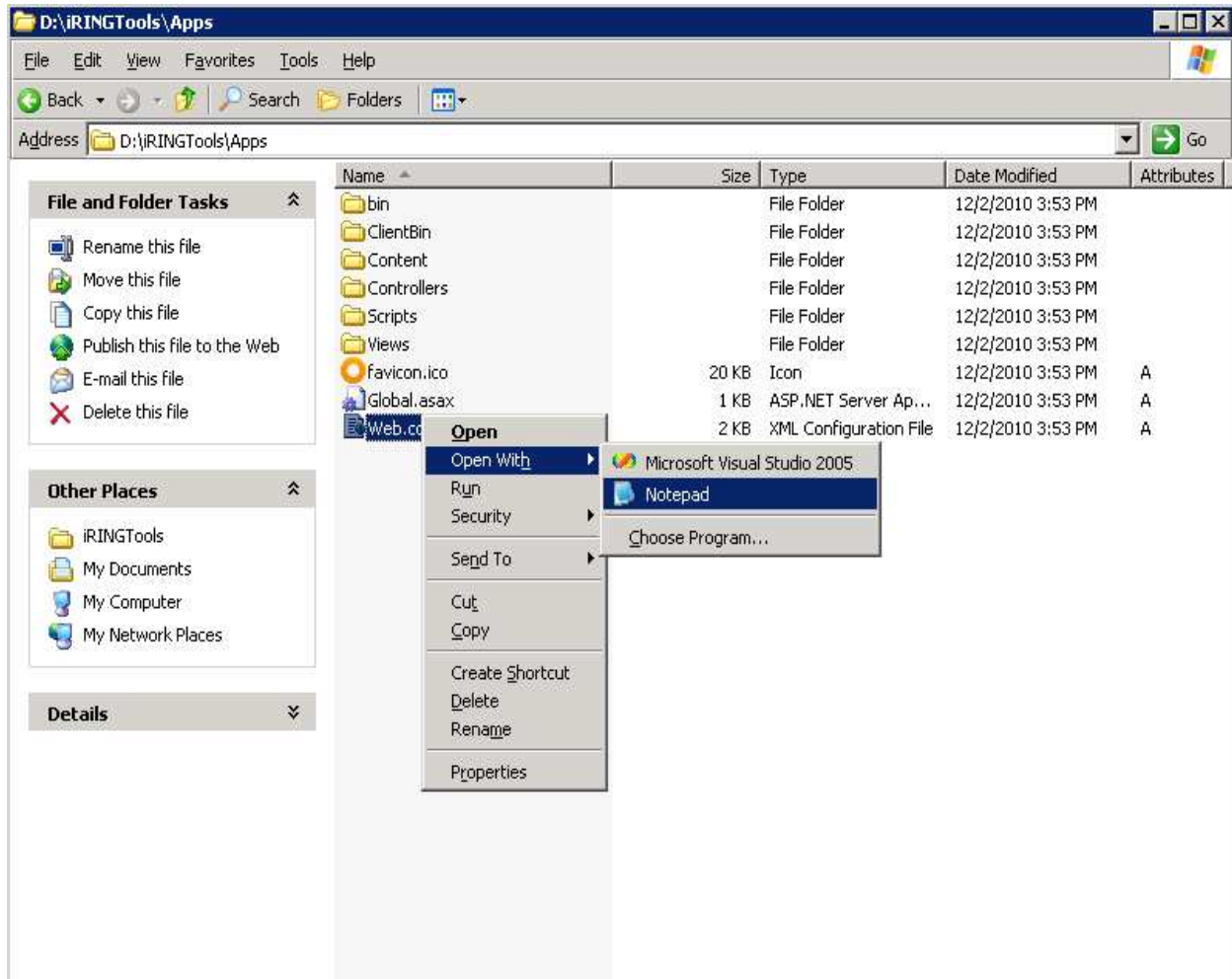
Main



- b. Right click web.config file of Apps folder & open in Notepad.

OPERATIONS INSTALL INSTRUCTIONS

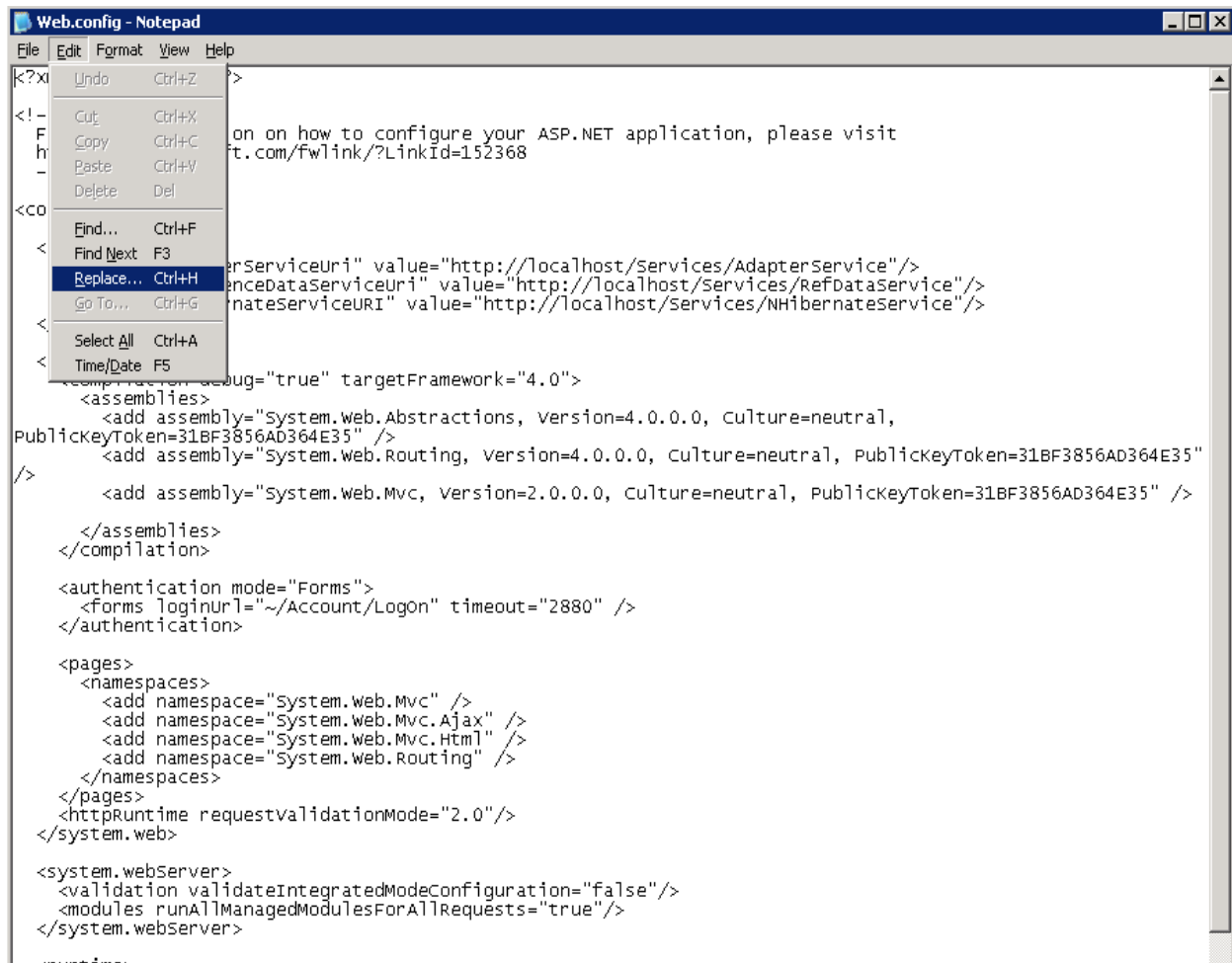
Main



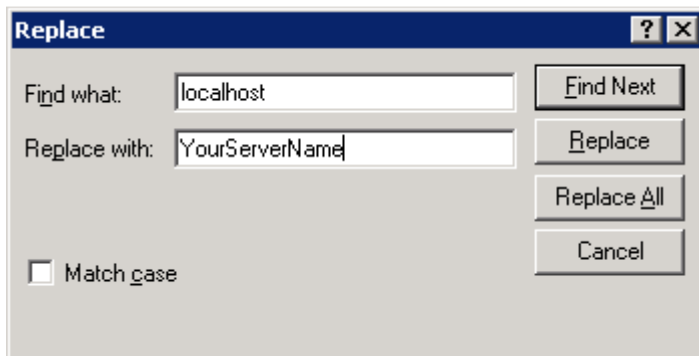
- c. Click on Edit -> Replace.

OPERATIONS INSTALL INSTRUCTIONS

Main



- d. Replace localhost with Your Server Name. Click Replace All.



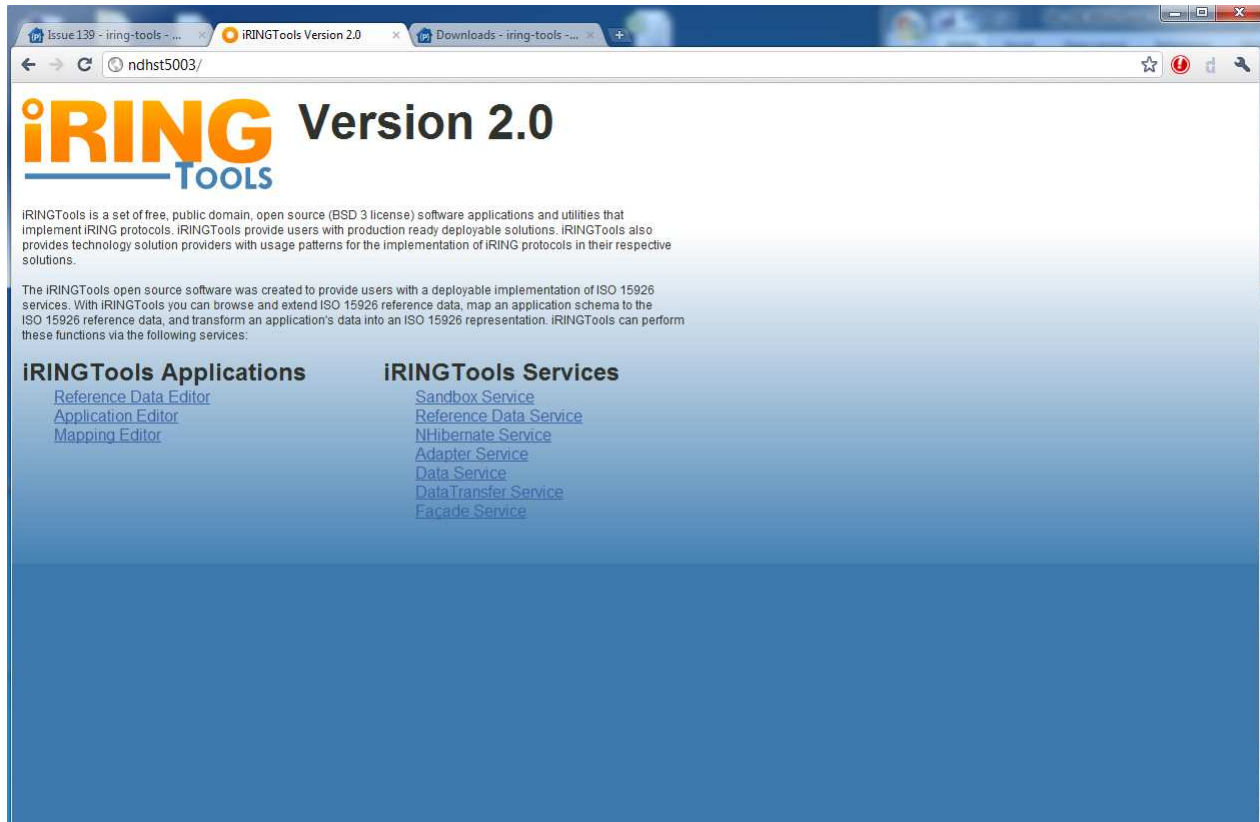
- e. Save & Close the web.config file.

OPERATIONS INSTALL INSTRUCTIONS

Main

15. Testing the Links.

- a. Open Internet Explorer & browse to <http://YourServerName/> as shown in screen shot below. You should see the iRINGTools main landing page.




- b. Test all the Service Links by clicking on them one by one under iRINGTools Services. The desired result for them should be following.

Facade Service.

OPERATIONS INSTALL INSTRUCTIONS

Main



The screenshot shows a web browser window with the address bar displaying "ndhst5003/Services/InterfaceService/query". The page title is "SPARQL Query Interface". The main heading is "iRING TOOLS Facade Query", where "iRING" is in large orange letters and "TOOLS Facade Query" is in smaller blue and black text. Below the heading, a note states: "Seperate forms are available for [SPARQL Query](#) and [SPARQL Update](#)." A text area labeled "Query" contains the following SPARQL query:

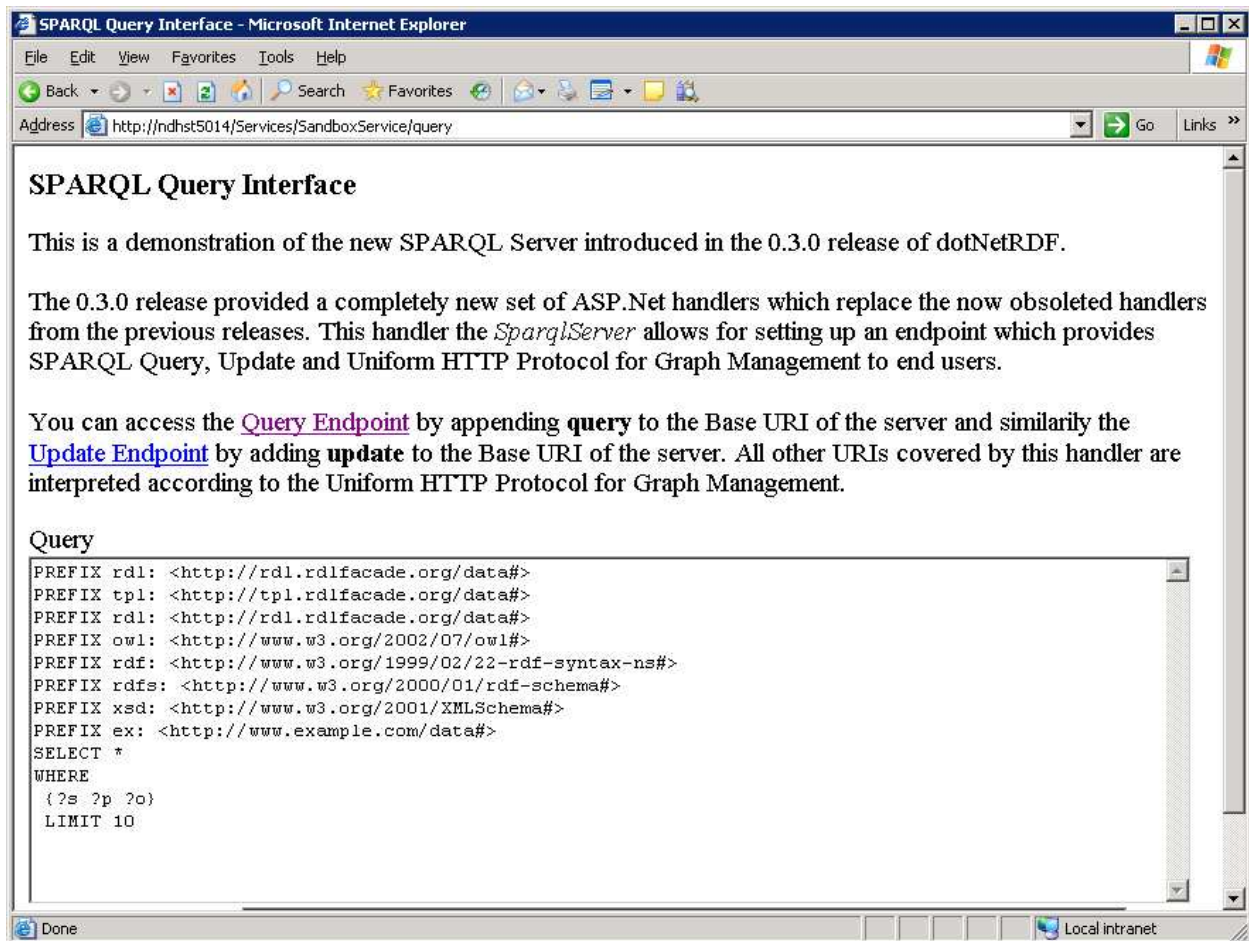
```
PREFIX rd1: <http://rd1.rdlfacade.org/data#>
PREFIX tpl: <http://tpl.rdlfacade.org/data#>
PREFIX rd1: <http://rd1.rdlfacade.org/data#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
SELECT *
WHERE
{ ?s ?p ?o }
LIMIT 10
```

Below the query text area, there is a label "Default Graph URI:" followed by an empty text input field. At the bottom of the interface is a blue button labeled "Make Query".

OPERATIONS INSTALL INSTRUCTIONS

Main

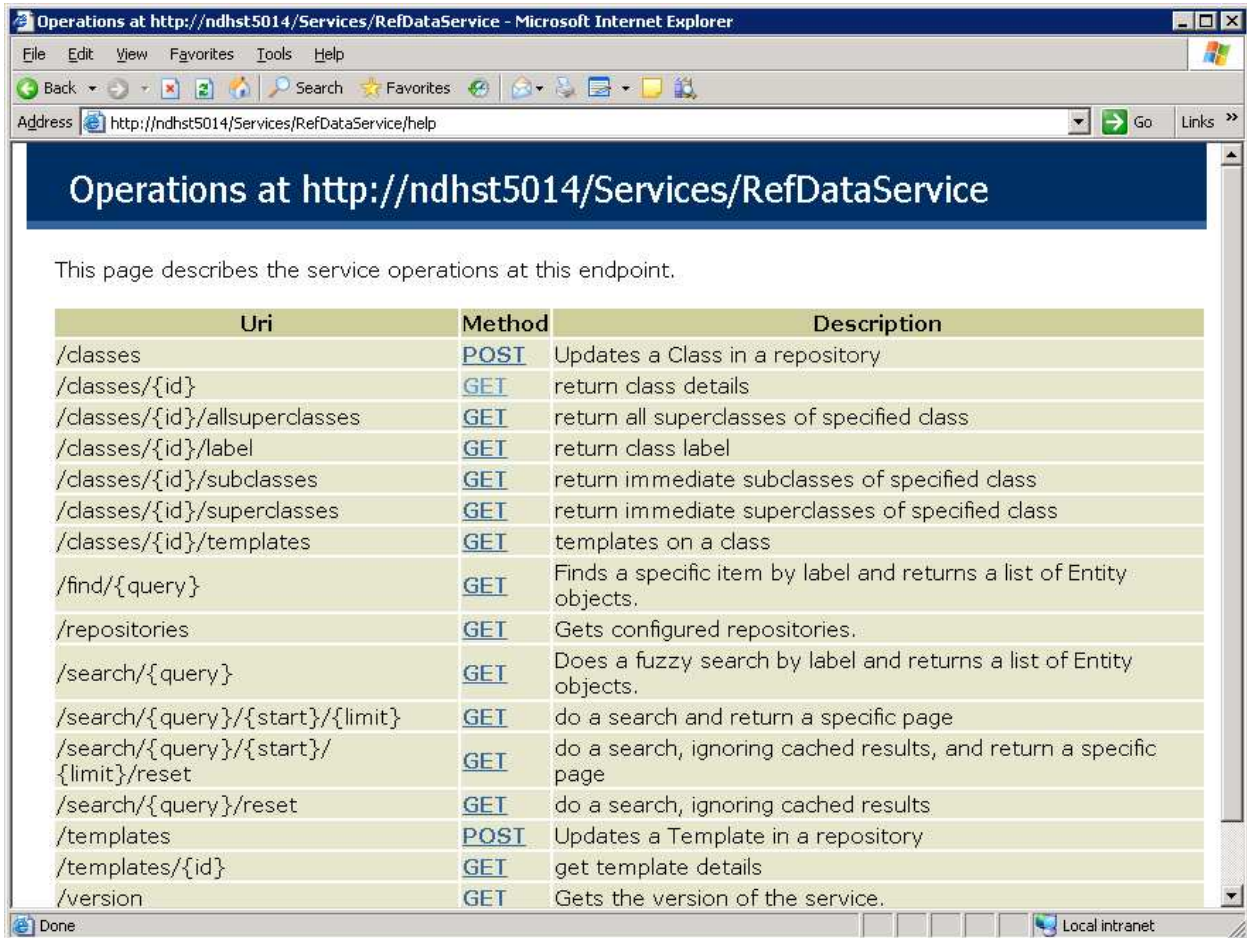
Sandbox Service



OPERATIONS INSTALL INSTRUCTIONS

Main

Reference Data Service



Operations at <http://ndhst5014/Services/RefDataService>

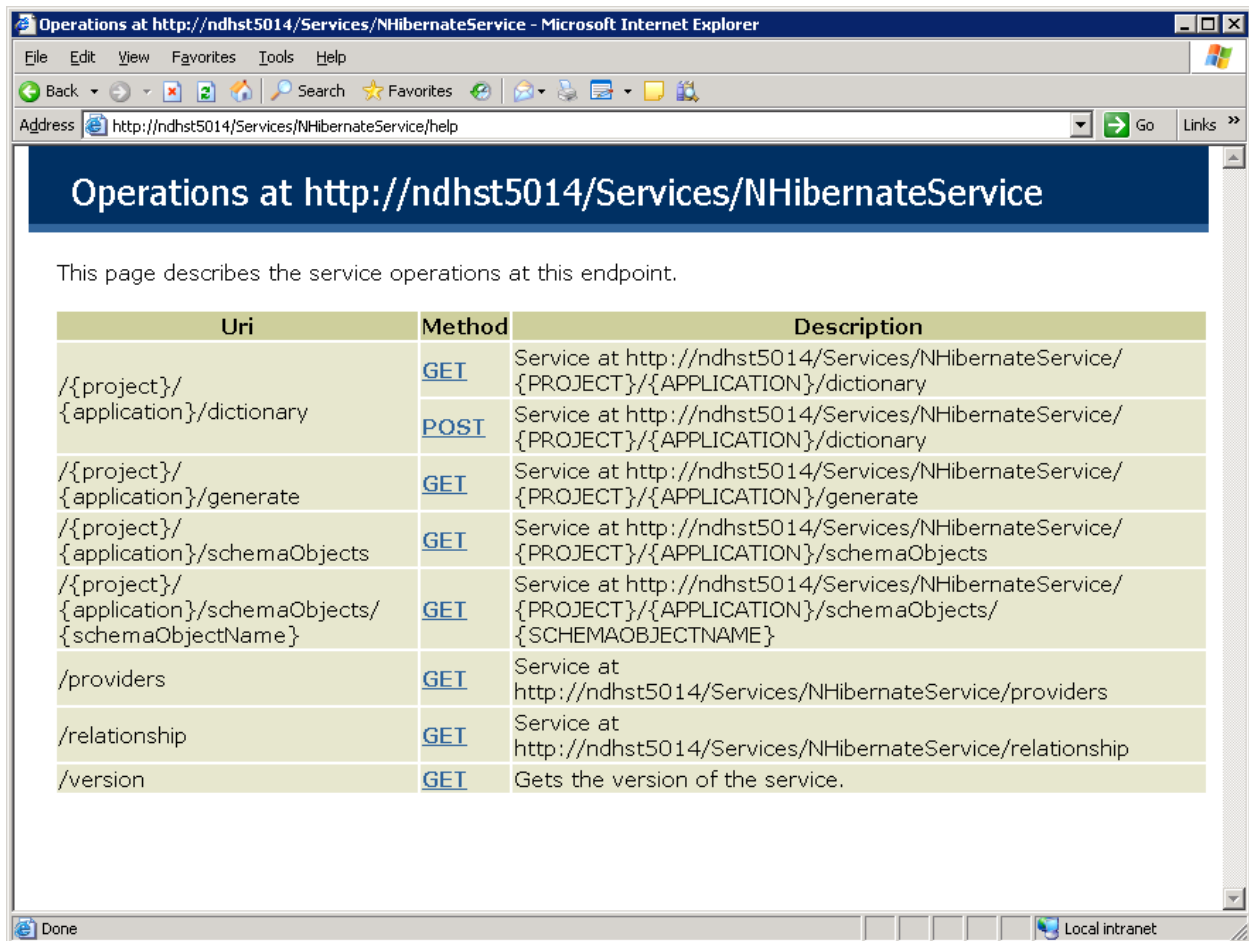
This page describes the service operations at this endpoint.

Uri	Method	Description
/classes	POST	Updates a Class in a repository
/classes/{id}	GET	return class details
/classes/{id}/allsuperclasses	GET	return all superclasses of specified class
/classes/{id}/label	GET	return class label
/classes/{id}/subclasses	GET	return immediate subclasses of specified class
/classes/{id}/superclasses	GET	return immediate superclasses of specified class
/classes/{id}/templates	GET	templates on a class
/find/{query}	GET	Finds a specific item by label and returns a list of Entity objects.
/repositories	GET	Gets configured repositories.
/search/{query}	GET	Does a fuzzy search by label and returns a list of Entity objects.
/search/{query}/{start}/{limit}	GET	do a search and return a specific page
/search/{query}/{start}/{limit}/reset	GET	do a search, ignoring cached results, and return a specific page
/search/{query}/reset	GET	do a search, ignoring cached results
/templates	POST	Updates a Template in a repository
/templates/{id}	GET	get template details
/version	GET	Gets the version of the service.

OPERATIONS INSTALL INSTRUCTIONS

Main

NHibernate Service



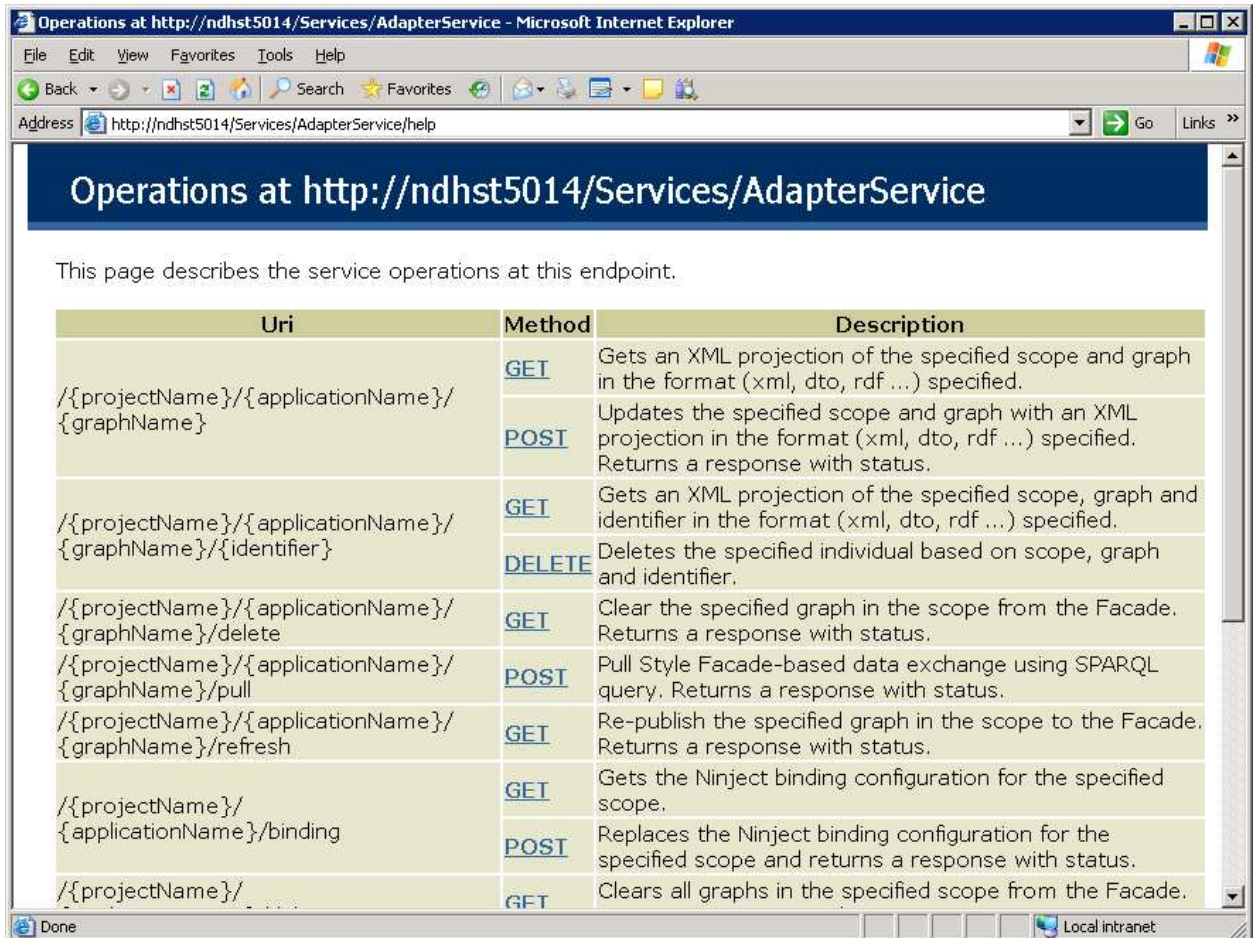
The screenshot shows a Microsoft Internet Explorer browser window with the title "Operations at http://ndhst5014/Services/NHibernateService - Microsoft Internet Explorer". The address bar shows "http://ndhst5014/Services/NHibernateService/help". The main content area has a blue header with the text "Operations at http://ndhst5014/Services/NHibernateService". Below the header, a paragraph states: "This page describes the service operations at this endpoint." A table follows, listing various service operations with their URIs, methods, and descriptions.

Uri	Method	Description
{project}/{application}/dictionary	GET	Service at http://ndhst5014/Services/NHibernateService/{PROJECT}/{APPLICATION}/dictionary
	POST	Service at http://ndhst5014/Services/NHibernateService/{PROJECT}/{APPLICATION}/dictionary
{project}/{application}/generate	GET	Service at http://ndhst5014/Services/NHibernateService/{PROJECT}/{APPLICATION}/generate
{project}/{application}/schemaObjects	GET	Service at http://ndhst5014/Services/NHibernateService/{PROJECT}/{APPLICATION}/schemaObjects
{project}/{application}/schemaObjects/{schemaObjectName}	GET	Service at http://ndhst5014/Services/NHibernateService/{PROJECT}/{APPLICATION}/schemaObjects/{SCHEMAOBJECTNAME}
/providers	GET	Service at http://ndhst5014/Services/NHibernateService/providers
/relationship	GET	Service at http://ndhst5014/Services/NHibernateService/relationship
/version	GET	Gets the version of the service.

OPERATIONS INSTALL INSTRUCTIONS

Main

Adapter Service



Operations at <http://ndhst5014/Services/AdapterService>

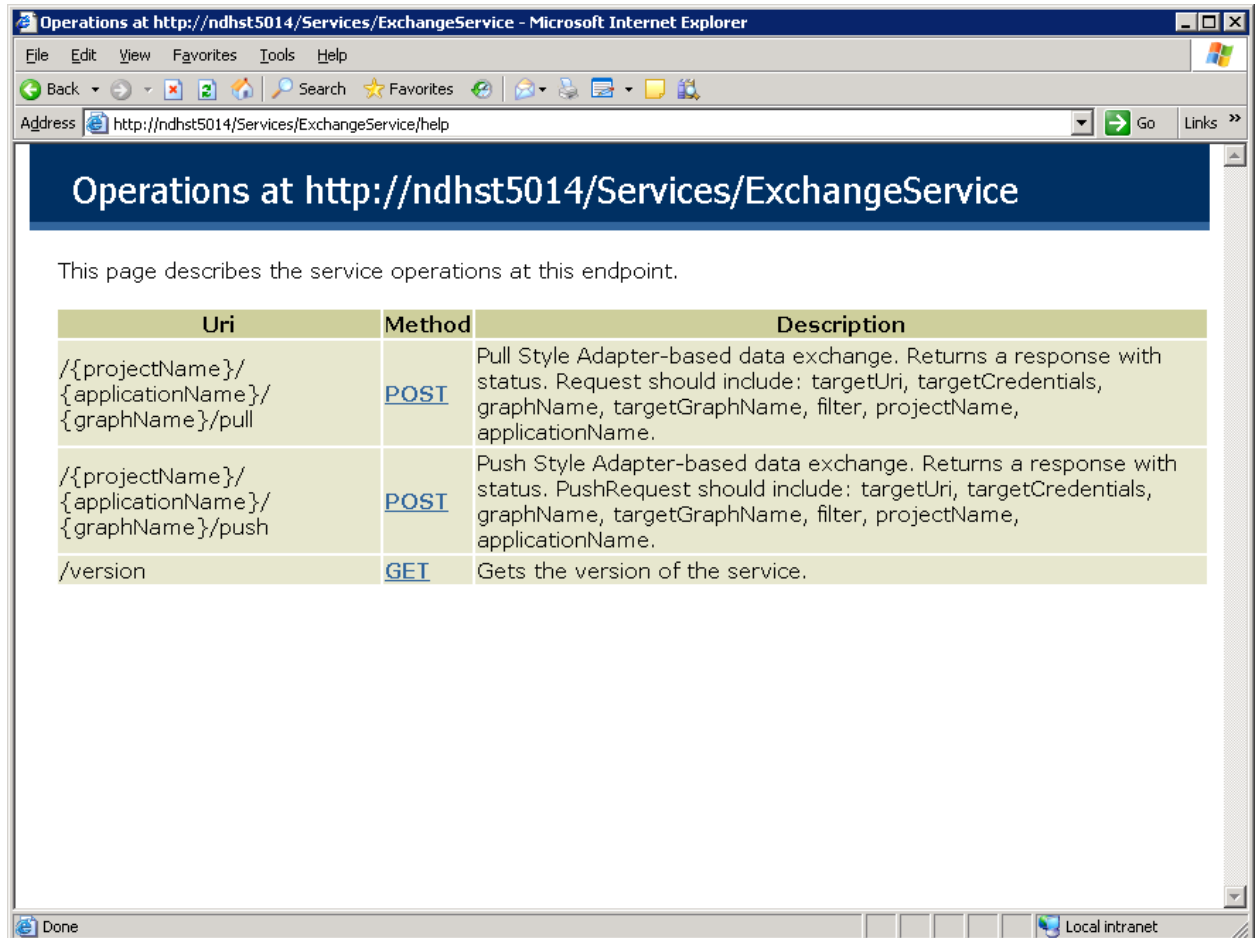
This page describes the service operations at this endpoint.

Uri	Method	Description
{projectName}/{applicationName}/{graphName}	GET	Gets an XML projection of the specified scope and graph in the format (xml, dto, rdf ...) specified.
	POST	Updates the specified scope and graph with an XML projection in the format (xml, dto, rdf ...) specified. Returns a response with status.
{projectName}/{applicationName}/{graphName}/{identifier}	GET	Gets an XML projection of the specified scope, graph and identifier in the format (xml, dto, rdf ...) specified.
	DELETE	Deletes the specified individual based on scope, graph and identifier.
{projectName}/{applicationName}/{graphName}/delete	GET	Clear the specified graph in the scope from the Facade. Returns a response with status.
{projectName}/{applicationName}/{graphName}/pull	POST	Pull Style Facade-based data exchange using SPARQL query. Returns a response with status.
{projectName}/{applicationName}/{graphName}/refresh	GET	Re-publish the specified graph in the scope to the Facade. Returns a response with status.
{projectName}/{applicationName}/binding	GET	Gets the Ninject binding configuration for the specified scope.
	POST	Replaces the Ninject binding configuration for the specified scope and returns a response with status.
{projectName}/_...	GET	Clears all graphs in the specified scope from the Facade.

OPERATIONS INSTALL INSTRUCTIONS

Main

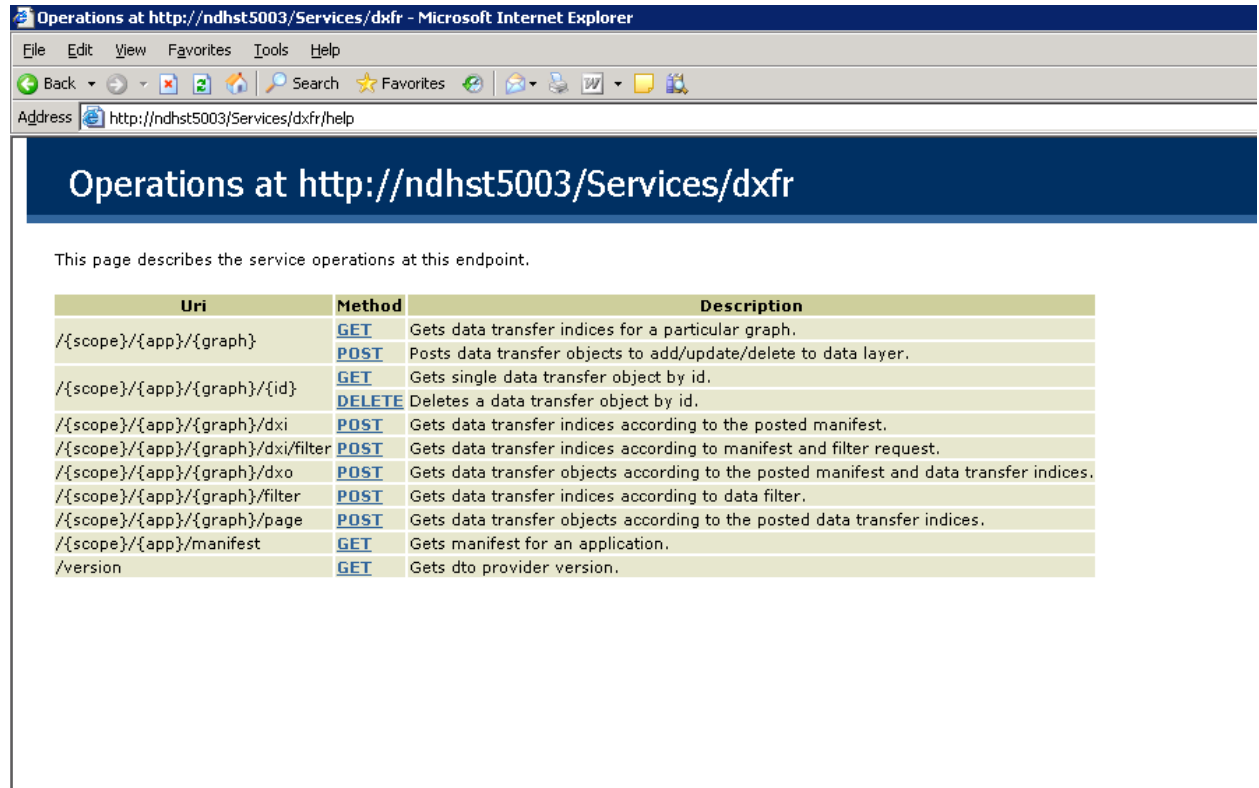
Data Service



OPERATIONS INSTALL INSTRUCTIONS

Main

Data Transfer Service



Operations at <http://ndhst5003/Services/dxfr> - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address <http://ndhst5003/Services/dxfr/help>

Operations at <http://ndhst5003/Services/dxfr>

This page describes the service operations at this endpoint.

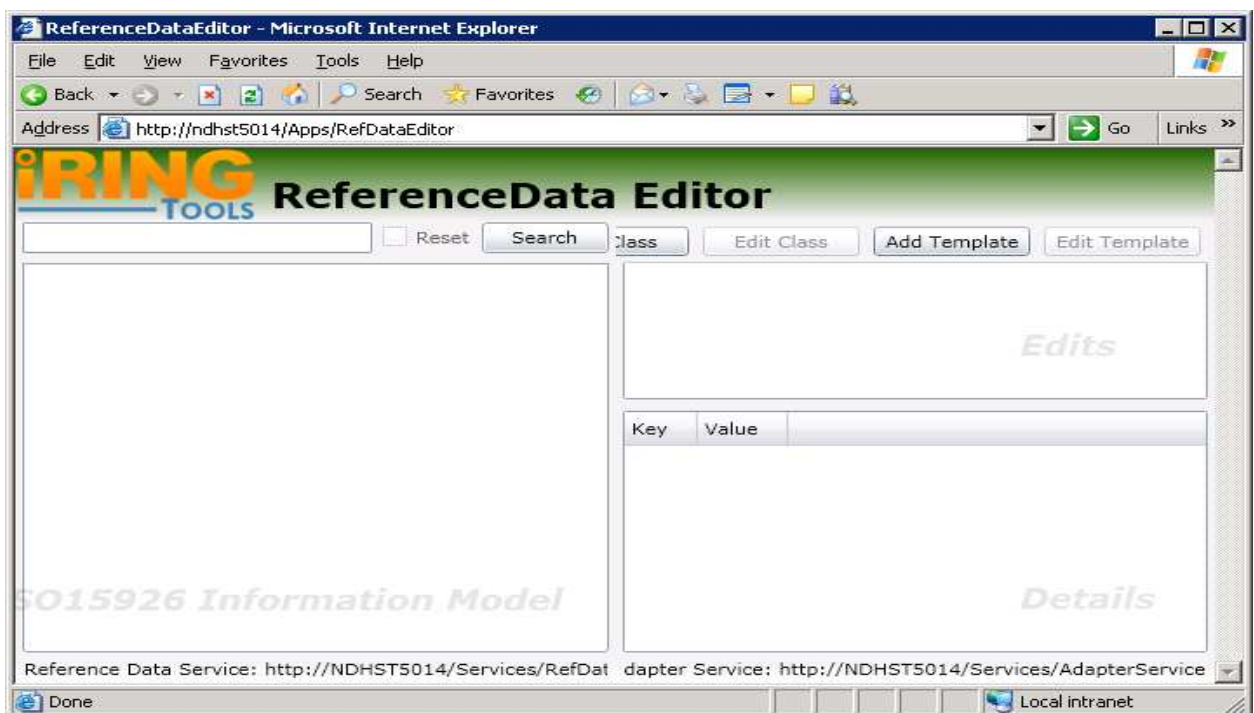
Uri	Method	Description
{scope}/{app}/{graph}	GET	Gets data transfer indices for a particular graph.
	POST	Posts data transfer objects to add/update/delete to data layer.
{scope}/{app}/{graph}/{id}	GET	Gets single data transfer object by id.
	DELETE	Deletes a data transfer object by id.
{scope}/{app}/{graph}/dxi	POST	Gets data transfer indices according to the posted manifest.
{scope}/{app}/{graph}/dxi/filter	POST	Gets data transfer indices according to manifest and filter request.
{scope}/{app}/{graph}/dxo	POST	Gets data transfer objects according to the posted manifest and data transfer indices.
{scope}/{app}/{graph}/filter	POST	Gets data transfer indices according to data filter.
{scope}/{app}/{graph}/page	POST	Gets data transfer objects according to the posted data transfer indices.
{scope}/{app}/manifest	GET	Gets manifest for an application.
/version	GET	Gets dto provider version.

OPERATIONS INSTALL INSTRUCTIONS

Main

- c. Test All Applications link under iRINGTools Applications. The desired result should be as following.

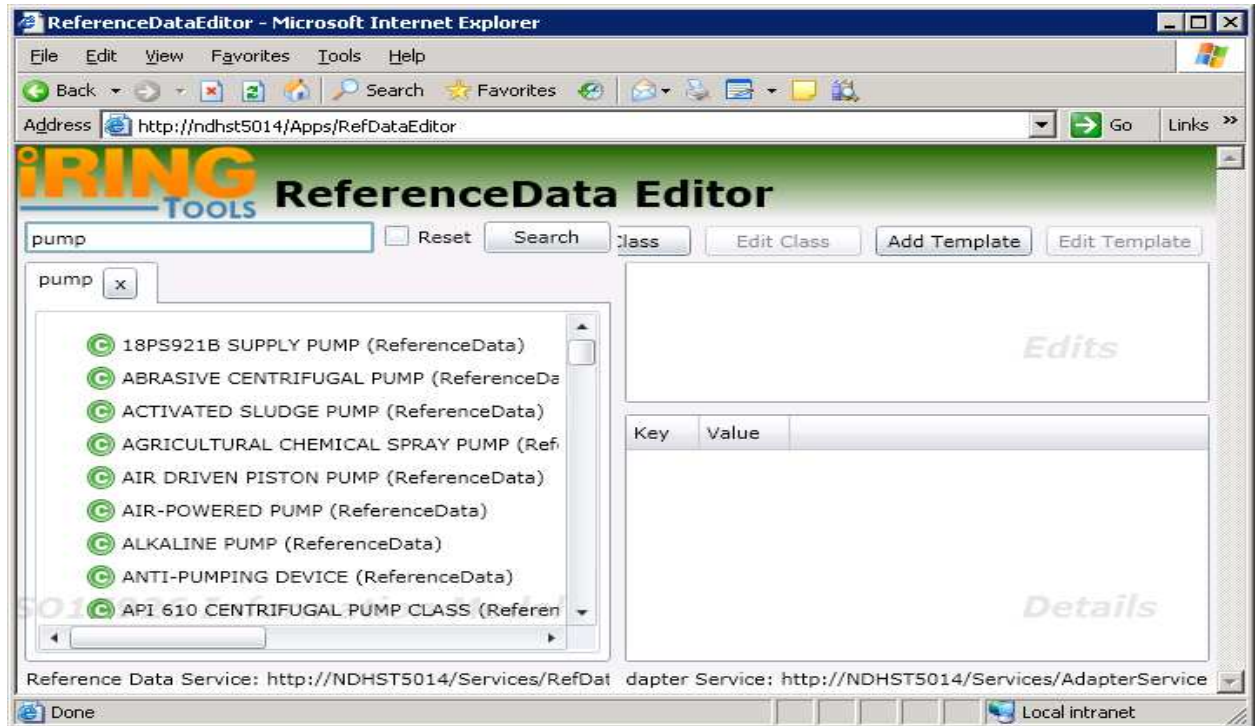
Reference Data Editor



Search for pump & you should get a similar result.

OPERATIONS INSTALL INSTRUCTIONS

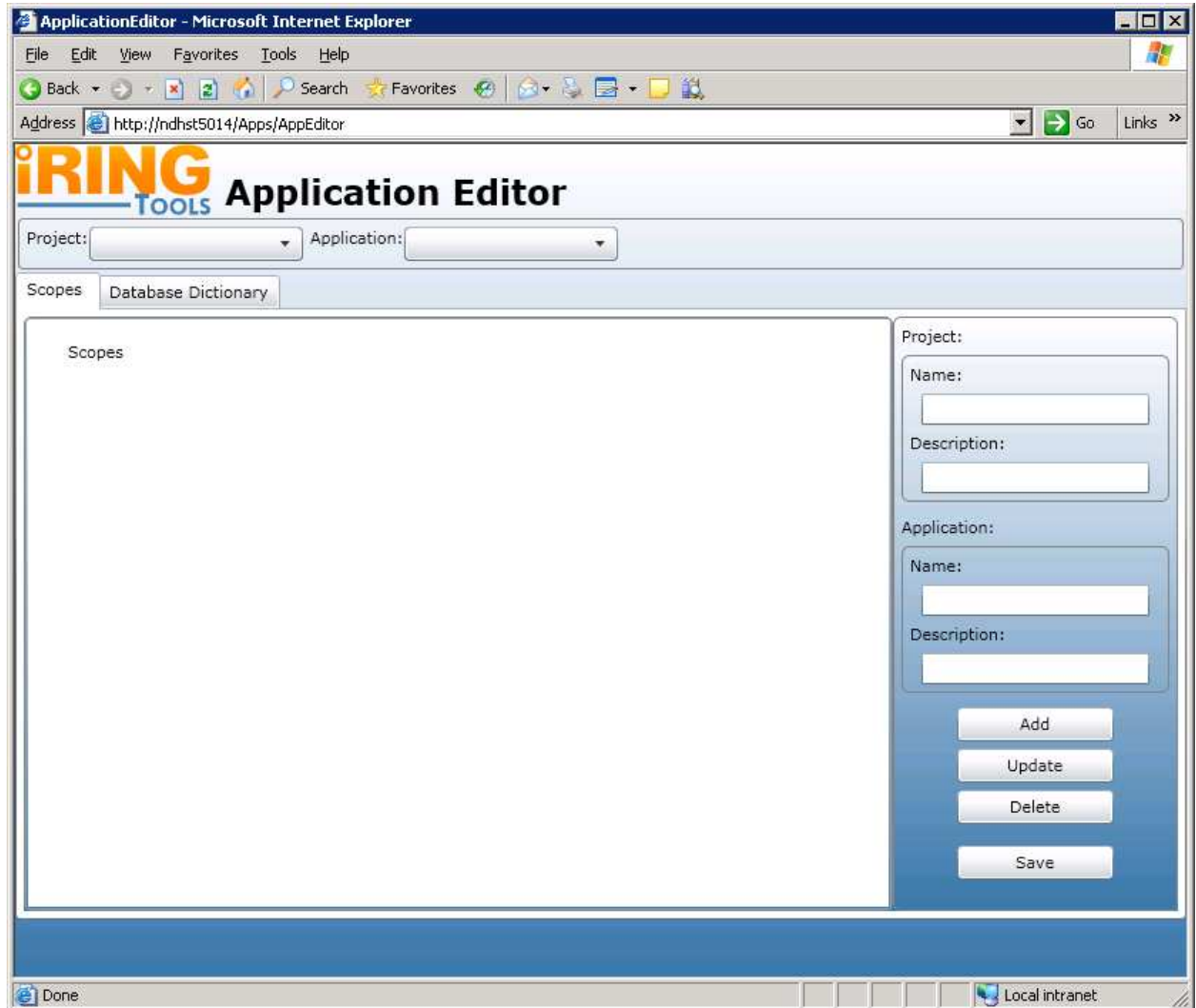
Main



OPERATIONS INSTALL INSTRUCTIONS

Main

Application Editor



OPERATIONS INSTALL INSTRUCTIONS

Main

Mapping Editor

