



Configuring IIS for use with ePortal

Version 1



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1 Configuring IIS 6 (Windows 2003)

1.1 Introduction

Configuring IIS version 6 to use with ePortal requires 5 steps:

1. Add ePortal's ISAPI filter.
2. Create jakarta virtual directory.
3. Create eportal virtual directory.
4. Add Web Service Extension.
5. Reset IIS.

1.2 Note for schools with a 64-bit Windows 2003 server

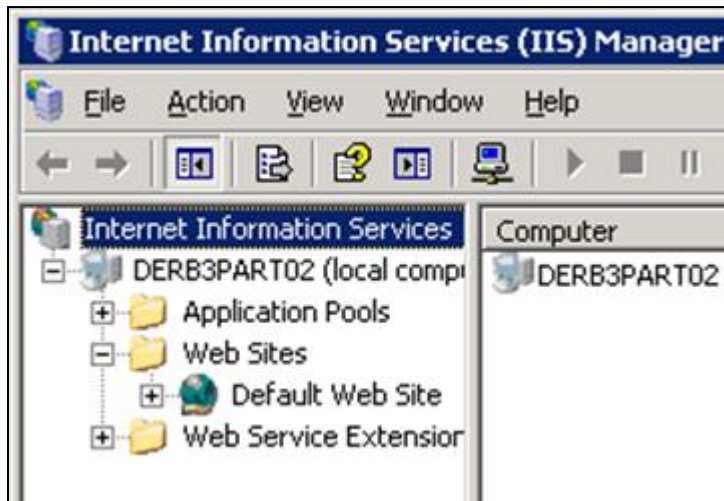
If you wish to configure IIS 6 on a 2003 server with 64bit architecture you will need to enable the default application pool to run 32bit applications.

This is achieved with the following process:

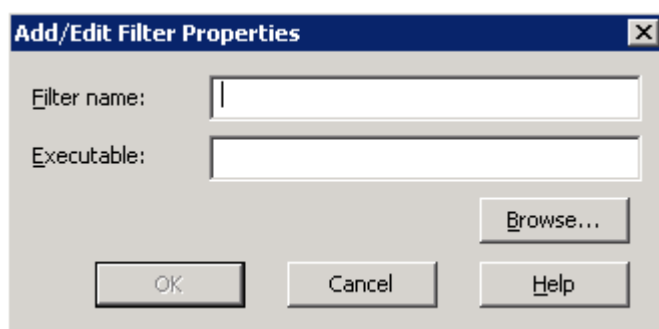
1. Open a command prompt and navigate to the %systemdrive%\inetpub\AdminScripts directory.
2. Type the following command:
Cscript.exe adsutil.vbc set W3SVC/AppPools/Enable32BitAppOnWin64 true
3. Press **Enter**.

1.3 Add ePortal's ISAPI Filter

1. Select **Start | Administrative tools | Internet Information Services (IIS) Manager**.
Alternatively, you can select 'Administrative tools' from within 'Windows Control Panel' and then double-click Internet Information Services (IIS) Manager, or you can select **Start | Run**, enter 'inetmgr' and click **OK**.
2. Expand the top-level node (labelled with your server name), then 'Web Sites'.



3. Right click 'Default Website'
4. Click **Properties**. The 'Default Web Site Properties' dialog is displayed.
5. Select the 'ISAPI Filters' tab.
6. Click **Add**.



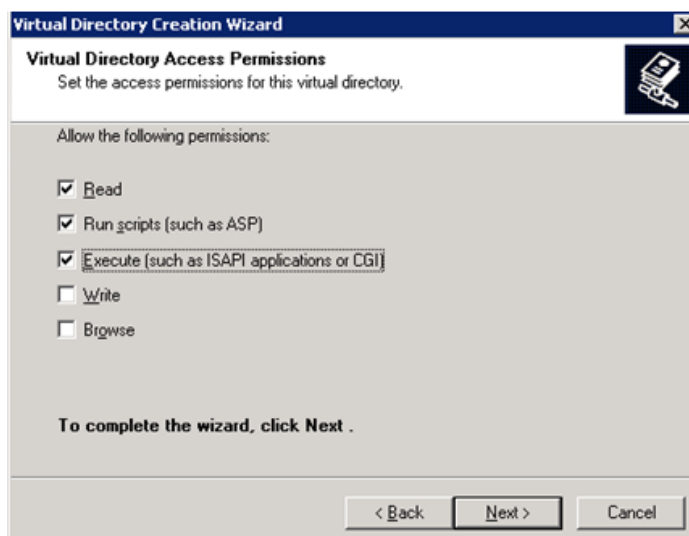
7. Enter 'ePortal' in the 'Filter name' field.
8. Click **Browse**.
9. Navigate to 'C:\Facility\ePortal\bin\win32\i386\'.
10. Select the isapi_redirect.dll file.
11. Click **OK**. ePortal will be added to the list of allowed filters.
12. Click **OK**.

1.4 Create the jakarta Virtual Directory

1. Right click 'Default Web Site'.
2. Select **New | Virtual Directory**. This will start the 'Virtual Directory Creation Wizard'.



3. Click **Next**.
4. Enter 'Jakarta' In the 'Alias' field.
5. Click **Next**.
6. Browse to C:\Facility\ePortal\bin\win32\i386.
7. Click **Next**.
8. Select the following check boxes as shown:
 - Read
 - Run scripts (such as ASP)
 - Execute (such as ISAPI applications or CGI)



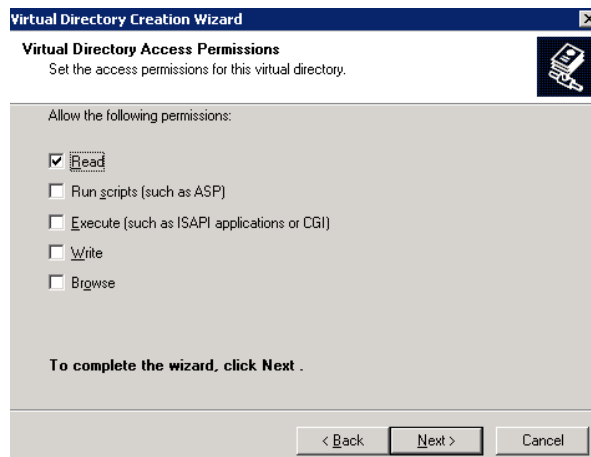
9. Click **Next**.
10. Click **Finish**.

1.5 Creating the eportal Virtual Directory

1. Right click 'Default Web Site'.
2. Select **New | Virtual Directory**. This will start the 'Virtual Directory Creation Wizard'.



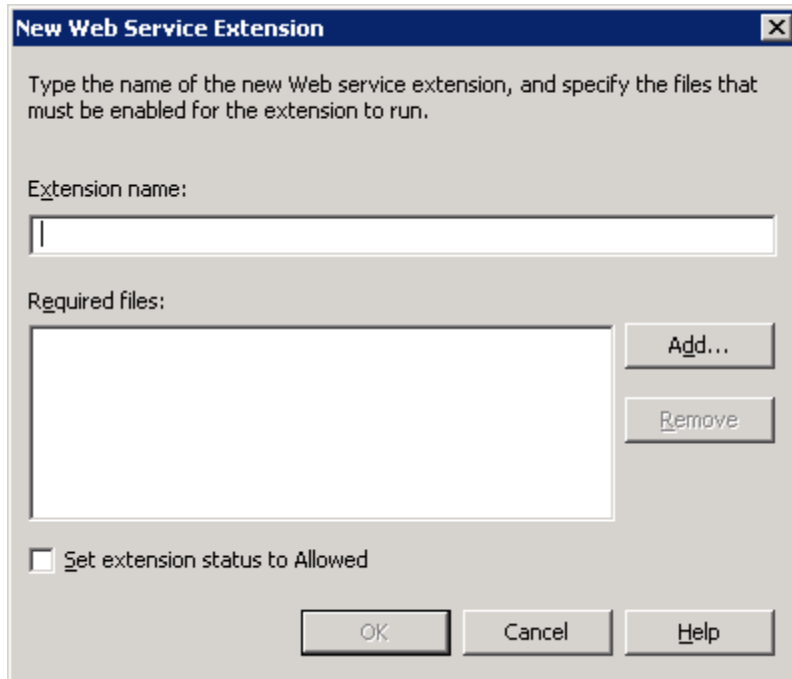
3. Click **Next**.
4. Enter 'eportal' in the 'Alias' box.
5. Click **Next**.
6. Browse to C:\Facility\eportal\webapps\eportal.
7. Click **Next**.
8. Select the 'Read' checkbox as shown:



9. Click **Next**.
10. Click **Finish**.

1.6 Add Web Service Extension

1. Select 'Web Service Extensions' from the tree on the left hand side.
2. Right click in the right hand pane.
3. Choose 'Add a New Web Service Extension'.



4. Enter 'ePortal' as the extension name.
5. Click **Add**.
6. Browse to the ISAPI filter as per your installation (default: C:\facility\eportal\bin\win32\i386\isapi_redirect.dll), select it and click **Open**.
7. Select the 'Set extension status to Allowed' checkbox.
8. Click **OK**.

1.7 Reset IIS

The final stage of the process is to reset IIS, this can be done in 2 different ways:

1. Select the Default website node, click the  button, followed by .
2. Open a command prompt and type 'iisreset', followed by the ENTER key.

Note: To continue setting up IIS go to section 3: Implementing SSL/HTTPS in IIS

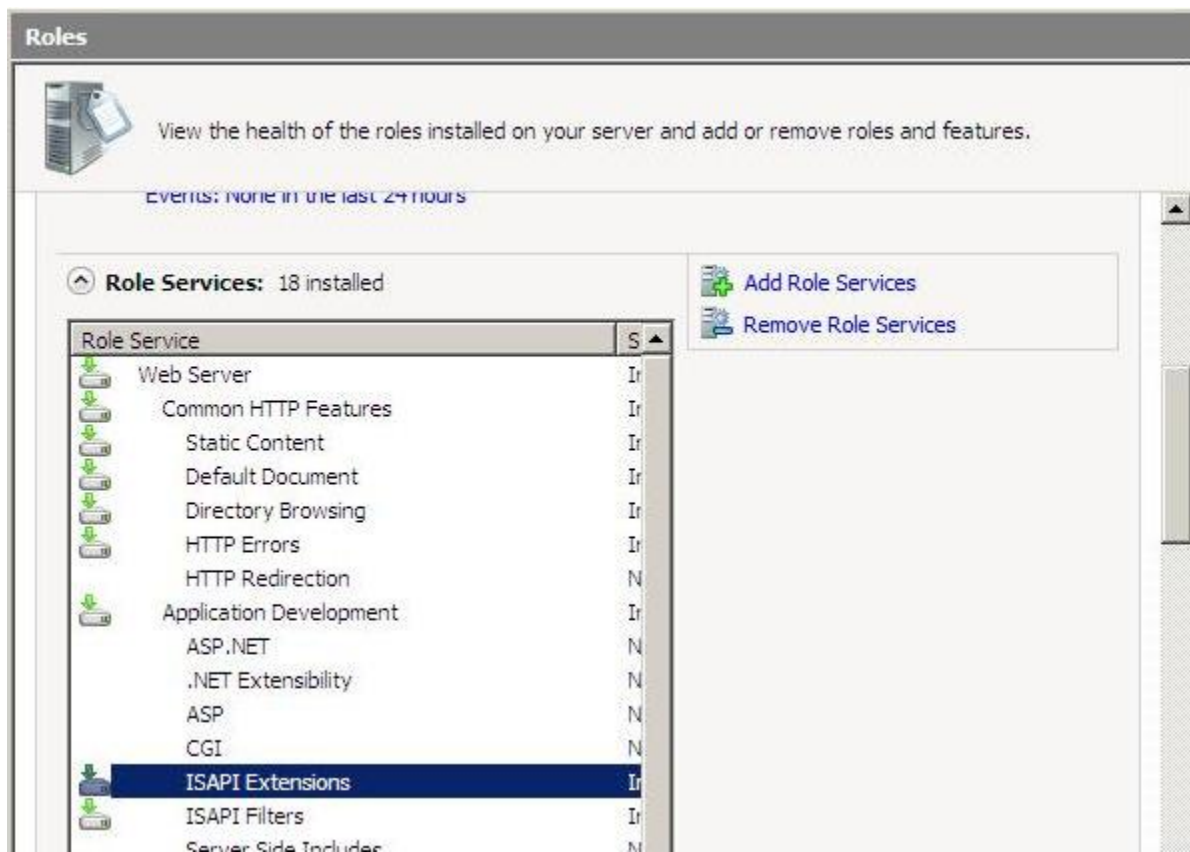
2 Configuring IIS 7 or 7.5 (Windows 2008 / 2008 R2)

2.1 Prerequisites

Before you can configure IIS v7.0 for use with your ePortal system it is assumed that your IIS installation has the following features installed:

- ISAPI Filters
- ISAPI Extensions

These modules can be installed by adding them to the IIS server role in 'Server Manager' under 'Role Services'.



Please consult the relevant Microsoft® documentation for more information on how to do this.

2.2 Introduction

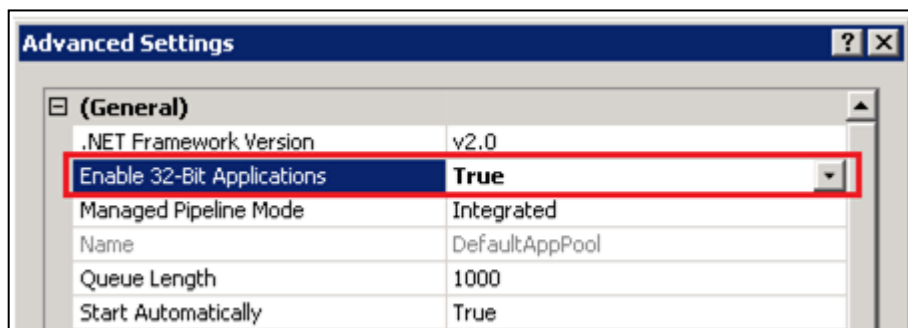
Configuring IIS version 7 to use with ePortal requires 6 steps:

1. Add ePortal's ISAPI filter.
2. Create jakarta virtual directory.
3. Create eportal virtual directory.
4. Configure Handler Mappings.
5. Configure ISAPI Restrictions.
6. Reset IIS.

2.3 Note for schools with a 64-bit Windows 2008 or Windows 2008 R2 server

If you wish to configure IIS 7 on a 2008 server with 64bit architecture you will need to enable the default application pool to run 32bit applications:

1. Select **Start | Administrative tools | Internet Information Services (IIS) Manager**, or select **Start | Run** and type 'inetmgr' and click **OK**
2. Select 'Application Pools' from the tree in the left pane.
3. Select 'DefaultAppPool' from the centre pane.
4. Click **Set Application Pool Defaults...** in the 'Actions' pane.
5. Select True from the 'Enable 32-Bit Applications' drop-down list.

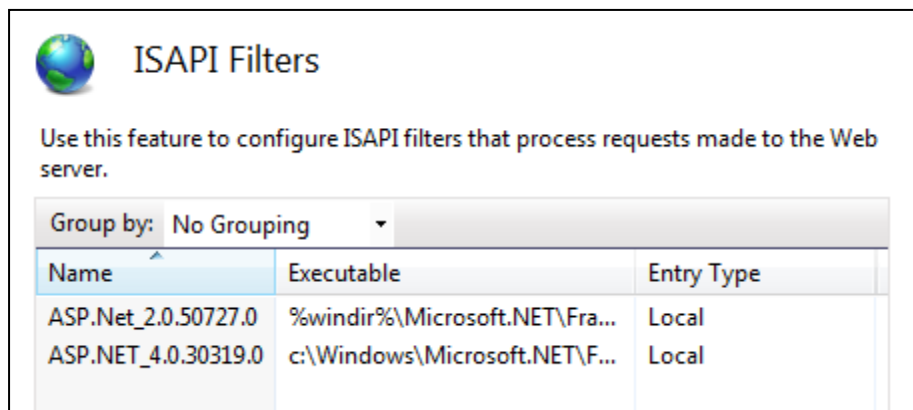


6. Click **OK**.

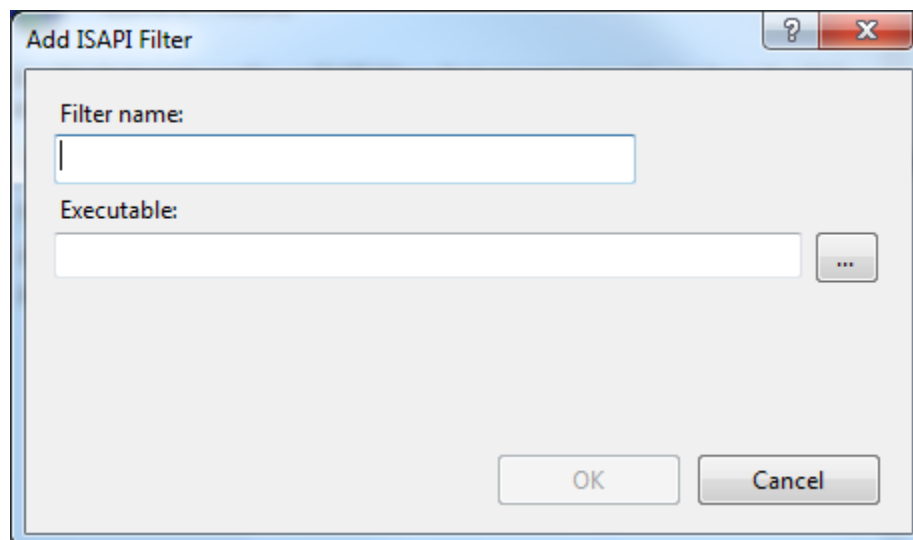
Note: If you have already added the ISAPI filter to IIS it will need removing and re-adding before this setting will take effect.

2.4 Add ePortal's ISAPI Filter

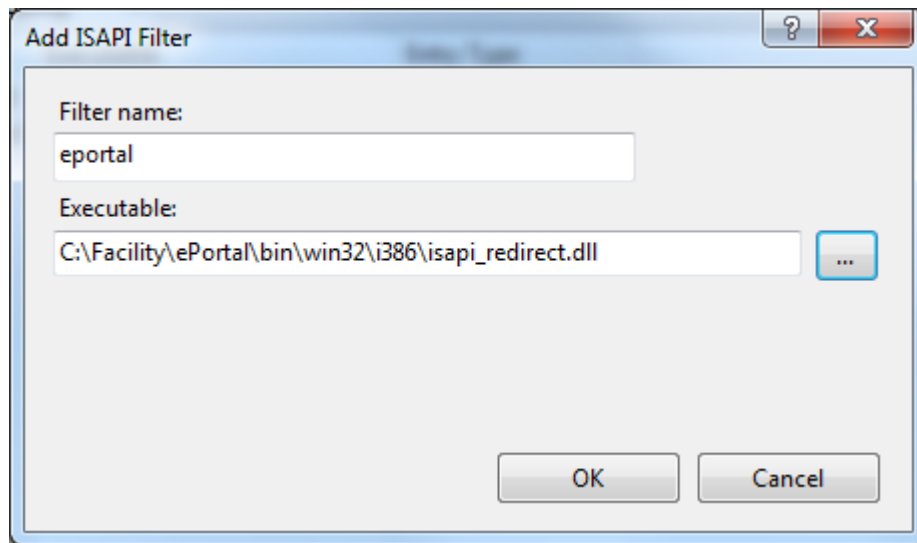
1. Open IIS Manager.
2. Expand the top-level node (labelled with your server name).
3. Select 'Sites'.
4. Select 'Default Web Site'.
5. Double click **ISAPI Filters** in the right hand pane.



6. Right click in the right hand pane and choose 'Add'.



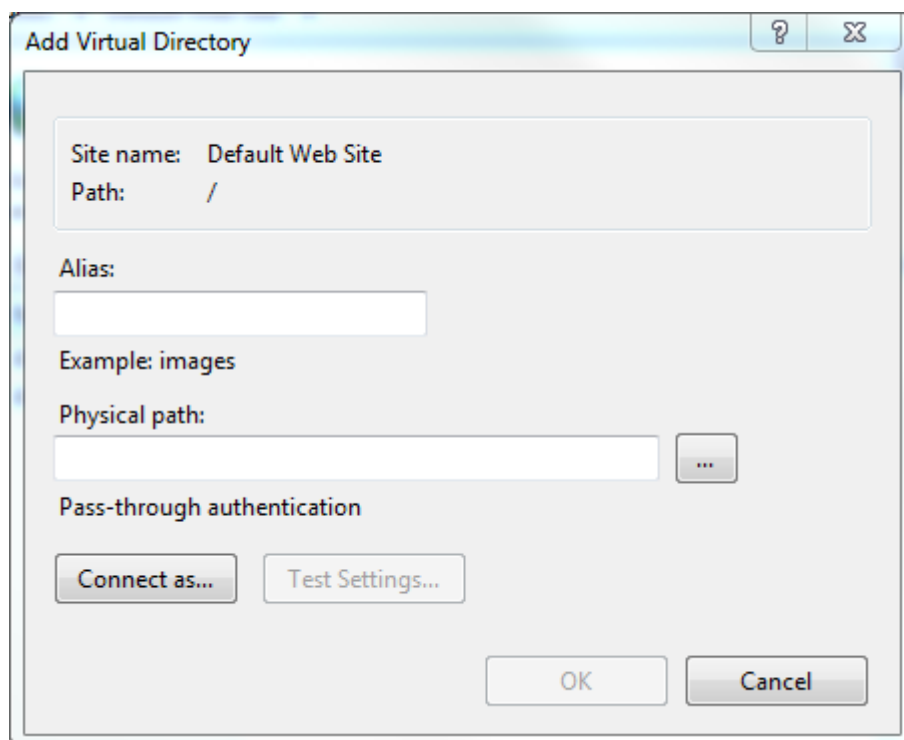
7. Enter 'eportal' in the 'Filter name' field.
8. Click ... and browse to C:\Facility\ePortal\bin\win32\i386\ (adjust as appropriate to your installation).
9. Select isapi_redirect.dll
10. Click **Open**.



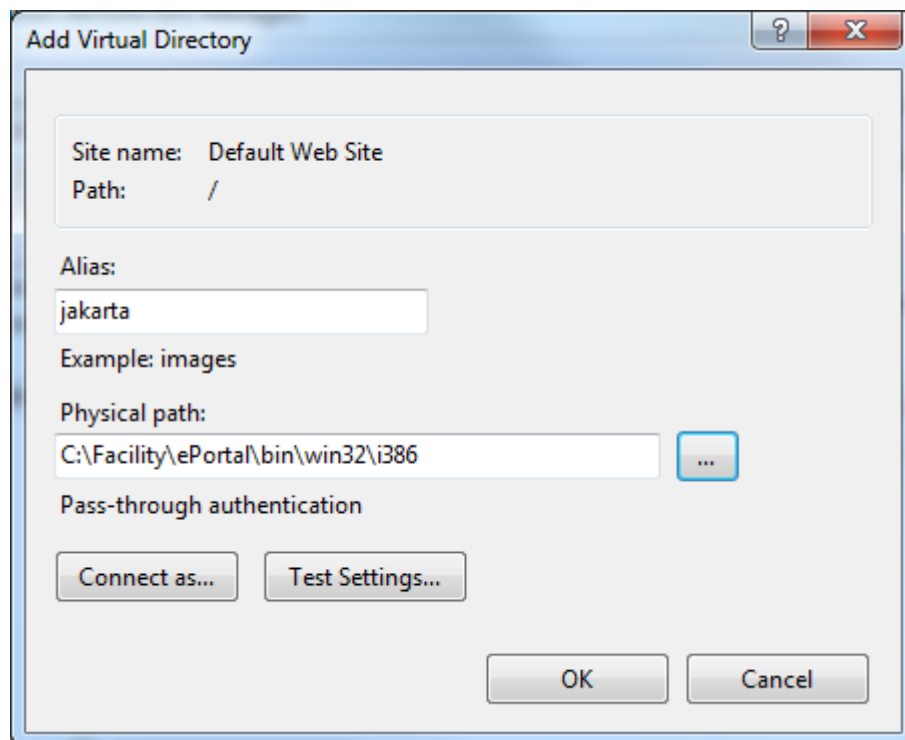
11. Click **OK**.

2.5 Create jakarta Virtual Directory

1. Right click 'Default Web Site' in the left hand panel.
2. Select 'Add Virtual Directory'.



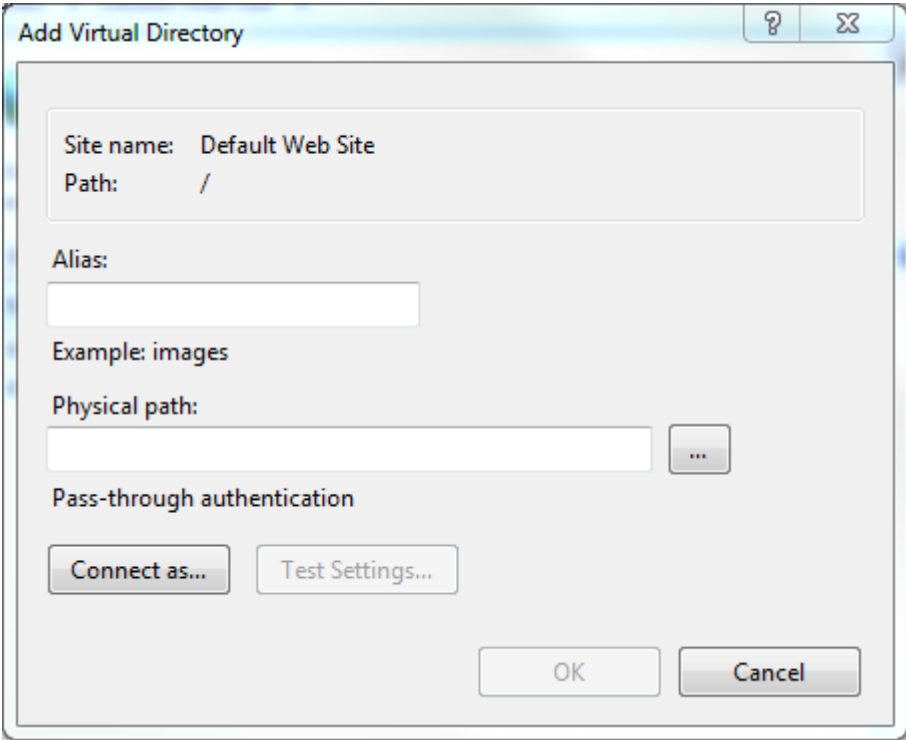
3. Enter 'jakarta' in the 'Alias' field.
4. Click ... and browse to C:\Facility\ePortal\bin\win32\i386\ (adjust as appropriate to your installation).
5. Click **OK**.



6. Click **OK**.

2.6 Create eportal Virtual Directory

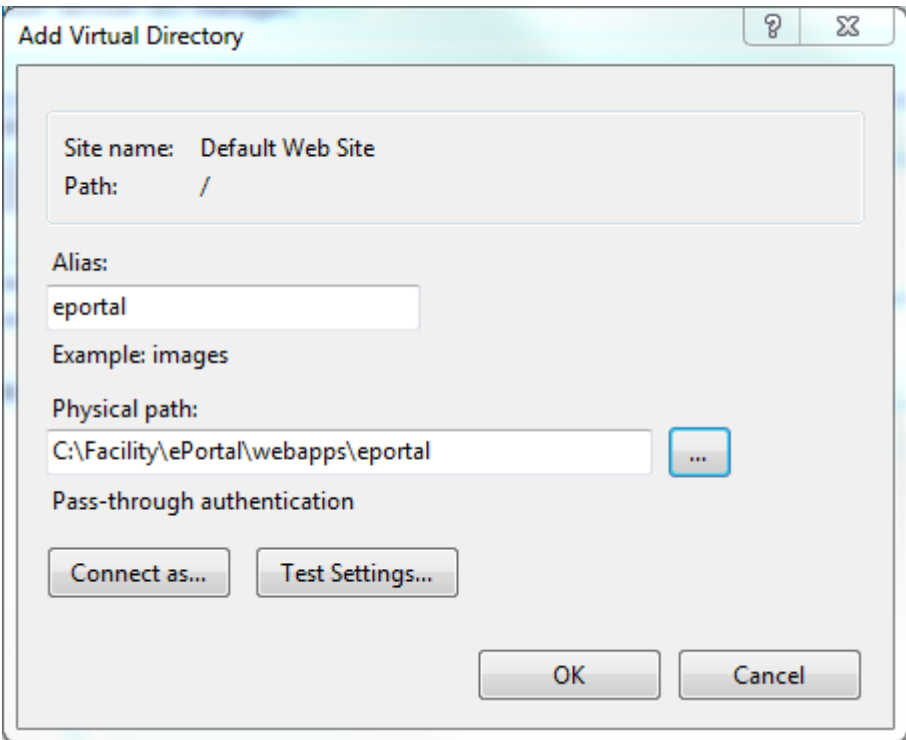
1. Right click 'Default Web Site' in the left hand panel.
2. Select 'Add Virtual Directory'.



The 'Add Virtual Directory' dialog box is shown. It has a title bar with a question mark and a close button. The main area contains the following fields and buttons:

- Site name:** Default Web Site
- Path:** /
- Alias:** (empty text box)
- Example:** images
- Physical path:** (empty text box with a browse button '...')
- Pass-through authentication:** (checkbox, currently unchecked)
- Buttons:** 'Connect as...', 'Test Settings...', 'OK', and 'Cancel'.

3. Enter 'eportal' in the 'Alias' field.
4. Click ... and browse to C:\Facility\ePortal\webapps\ePortal\ (adjust as appropriate to your installation).
5. Click **OK**.



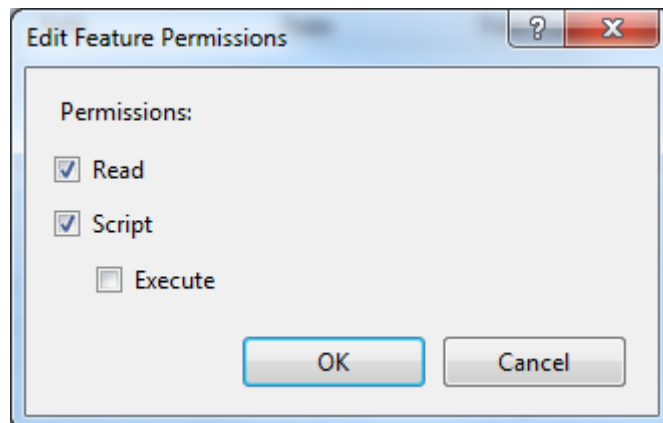
The 'Add Virtual Directory' dialog box is shown again, but with the following fields filled in:

- Site name:** Default Web Site
- Path:** /
- Alias:** eportal
- Example:** images
- Physical path:** C:\Facility\ePortal\webapps\eportal (with the browse button '...' highlighted)
- Pass-through authentication:** (checkbox, currently unchecked)
- Buttons:** 'Connect as...', 'Test Settings...', 'OK', and 'Cancel'.

6. Click **OK**.

2.7 Configure Handler Mappings

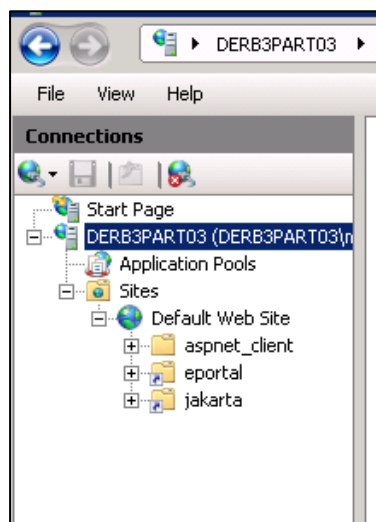
1. Click 'Default Web Site' to list all the configuration modules in the centre panel.
2. Double click 'Handler Mappings'.
3. Select 'ISAPI-dll' from the list. It may be in the greyed out 'Disabled' section at the top.
4. Select 'Edit Feature Permissions' from the 'Actions' panel on the right hand side.



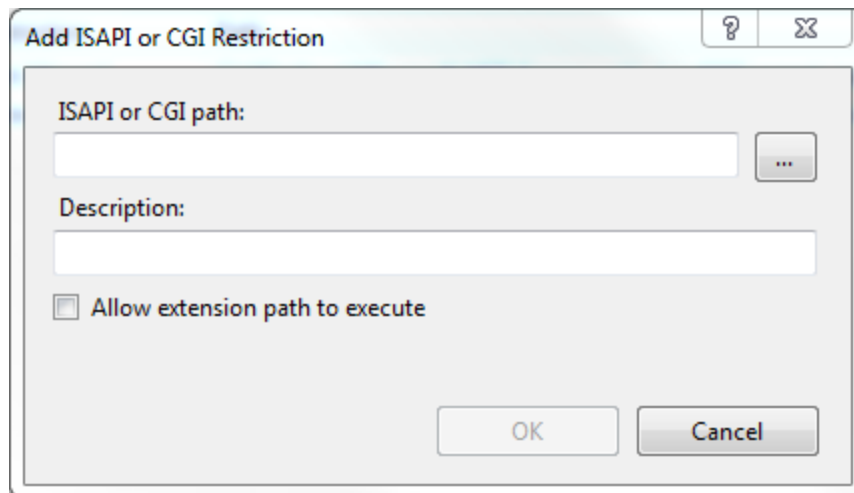
5. Select the 'Execute' checkbox.
6. Click **OK**.

2.8 Add ISAPI Restriction

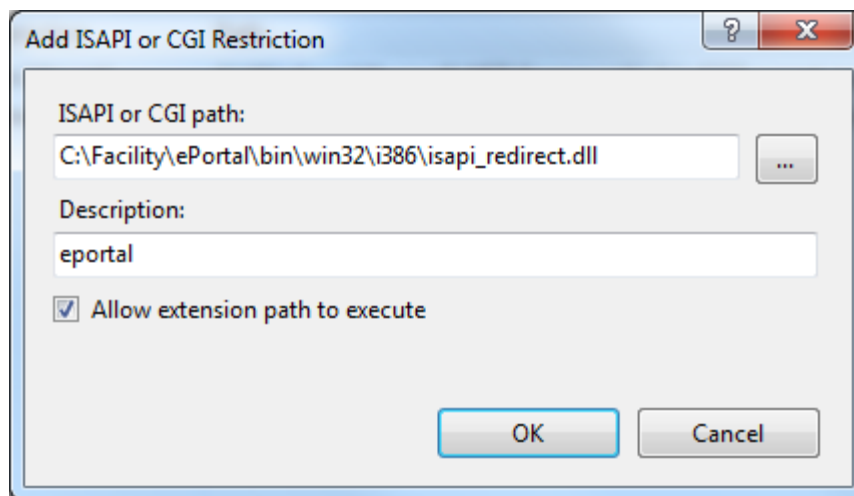
1. Select the server level node on the tree.



2. Double click 'ISAPI and CGI Restrictions' from the right hand pane.
3. Right click in the centre hand pane.
4. Select 'Add'.



5. Click ... and browse to C:\facility\eportal\bin\win32\i386\ (adjust as appropriate to your install).
6. Select the 'isapi_redirect.dll' file.
7. Click **Open**.
8. Enter 'eportal' in the 'Description' field.
9. Select the 'Allow extension path to execute' checkbox.



10. Click **OK**.

2.9 Reset IIS

The final stage of the process is to reset IIS, this can be done in 2 different ways:

1. Select the Default website node, click the  button, followed by .
2. Open a command prompt and type 'iisreset', followed by the ENTER key.

3 Implementing SSL/HTTPS in IIS

When using any form of communication you have to consider the sensitive information that will be transmitted. To ensure sensitive information is transmitted securely over the web we strongly recommend implementing SSL/HTTPS in IIS and disabling HTTP, in both IIS and TomCat.

3.1 Enable SSL in IIS

1. Obtain a security certificate.

There are a number of certificate providers available to choose from. A quick search online for 'SSL certificate' will list these providers who will be able to recommend the right certificate for you.

2. Configure web site to use SSL/HTTPS.

Due to the security around configuring SSL, please consult the relevant Microsoft® documentation for more information on how to do this.

3.2 Disabling HTTP in IIS

Please consult the relevant Microsoft® documentation for more information on how to disable HTTP in IIS.

3.3 Disabling HTTP in TomCat

1. Browse to C:\Facility\ePortal\conf
2. Open the 'server.xml' file
3. Locate the following text:

```
<Connector executor="tomcatThreadPool"
```

```
port="8080" maxHttpHeaderSize="8192" enableLookups="false"  
protocol="HTTP/1.1"
```

```
connectionTimeout="20000" acceptCount="100"
```

```
redirectPort="8443" disableUploadTimeout="true" />
```

4. Comment out the text:

```
<!-- <Connector executor="tomcatThreadPool"
```

```
port="" maxHttpHeaderSize="8192" enableLookups="false" protocol="HTTP/1.1"
```

```
connectionTimeout="20000" acceptCount="100"
```

```
redirectPort="8443" disableUploadTimeout="true" /> -->
```


5. Restart the Facility services

You should now be able to access ePortal by navigating to <https://<servername>/eportal> from any computer on the network, or by navigating to <https://localhost/eportal> on the server itself.