

Web Human Resources (WebHR)

Version 1.0

C3-C1 Conversion Project

Installation Guide



September 2011

(WEBH*)

Department of Veterans Affairs
Office of Information and Technology (OIT)
Product Development (PD)

Revision History

Date	Revision	Description	Author
February 2011	1.0	Initial version (template)	C Beynon
March 2011	1.0	Copied WebHR install guide into template	C Beynon
June 2011	1.1	Added updates from CJ and RA	C Beynon
July 2011	1.2	Prepped for ESE Checklist	C Beynon
August 2011	1.3	Changed dates to August 2011	C Beynon
September 2011	1.4	<ul style="list-style-type: none">• Changed dates to September 2011• Prepped for IOC Testing• Added namespace: WEBH*	C Beynon
October 2011	1.5	<ul style="list-style-type: none">• Changed dates to October 2011• Prepped for national release	C Beynon

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Introduction

Web Human Resources (WebHR) is a Class 3 (C3) automated human resources system that creates an electronic request for personnel actions, Standard Form 52 (SF-52) and tracks the document through the process. WebHR contains the elements necessary to process an SF-52 within a personnel office. This includes initiating, tracking, showing results, and finalizing a personnel action.

WebHR is a web-based, integrated module that brings workforce components together for Human Resources (HR) staff and managers to conduct online HR business activities. The application is designed with two interfaces: Customer Edition and Automated Human Resources Edition. The application also contains several reports, which assist both managers and HR staff with managing employees and recruitment activities.

There are two WebHR links on the WebHR SharePoint: <http://vaww.htm.wmc.va.gov/HRIS/default.aspx>

- **WebHR Customer Edition** for customers (service lines) to electronically submit an SF-52 to Human Resources.
- **WebHR Automated Human Resources (HR) Edition** for the HR staff to process an electronically submitted SF-52; and includes a Staffing Module that enables HR staff to enter and track hiring milestones and metrics.

WebHR receives data from the national Personnel and Accounting Integrated Data (PAID)/Veterans Health Information System Technology Architecture (VistA) system. WebHR is linked to the PAID database, which is a data warehouse for all VA personnel employee information. PAID is updated at the close of each pay period. The update allows employee-data to auto-populate an SF-52 when a form is initiated. The WebHR application, in its association with PAID data, allows for review of employee information.

Because WebHR operates in an integrated, secure, web-based environment, access and processes follow conventions dictated by an integrated, secure, web-based environment. Users interact with WebHR through Internet Explorer (IE) toolbars and menus.

Note: The WebHR application contains sensitive information and you must employ safeguards to ensure the security of the data contained within. Access to WebHR is granted through a formal request process.

WebHR is in production at all Veterans Health Administration (VHA) sites and at several VHA Program Offices. The Healthcare Talent Management (HTM) Office handles WebHR enhancements, training, and support.

Note: Contact your local WebHR Administrator with issues/concerns for the Web HR application.

Documentation

WebHR is compatible with Microsoft (MS) Office products and uses features like copy, paste, etc. The Microsoft Office link: <http://office.microsoft.com/en-us/help/default.aspx> provides training, demos, and guides, as well as provides assistance with the variety of Microsoft versions used at individual sites.

There are three user manuals associated with the two editions of WebHR. The WebHR user manuals are available in MS Word (.docx) format and the Portable Document Format (.pdf) on the **VA Software Documentation Library** <http://www4.va.gov/vdl/>

1. WebHR Human Resources specialists use the *WebHR User Manual for the Automated Human Resources Edition*
2. Local WebHR administrators use the *WebHR User Manual for the Administrator Role*
3. WebHR customers (approvers/requesters/delegates) use the *WebHR User Manual for the Customer Edition*

Pre-installation Considerations

The installation prerequisites for the WebHR server, workstation software dependencies, and the operating system are:

1. Windows Server 2008R2 installed and joined to a VA domain
2. Infragistics Net Advantage 2010 Web Client license
3. SQL Server 2008 Enterprise license
4. The WebHR installation files with the following directory structure
 - ADAM
 - Applications
 - Infragistics
 - MicrosoftDOTNet4
 - Services
 - SQLDatabases
 - SQLReports
 - SQLServer2008

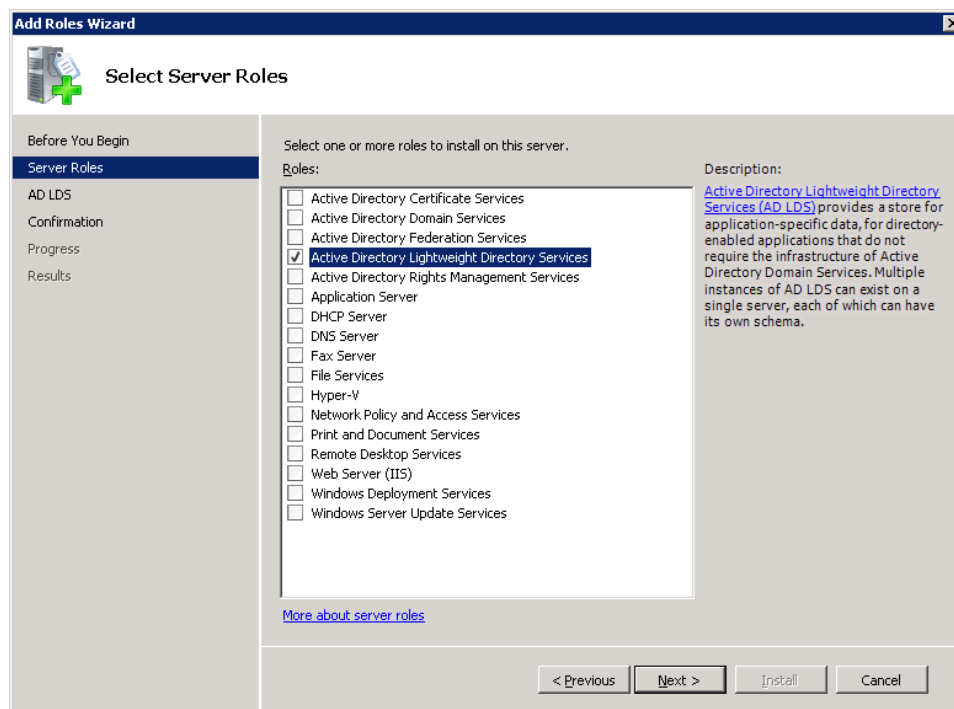
Note: This guide uses **%WEBHR_FILES%** when referencing the location of the WebHR installation files.

Installation Procedures

Install the Active Directory Lightweight Directory Services Role

To install the Active Directory Lightweight Directory Services (AD/LDS) Role:

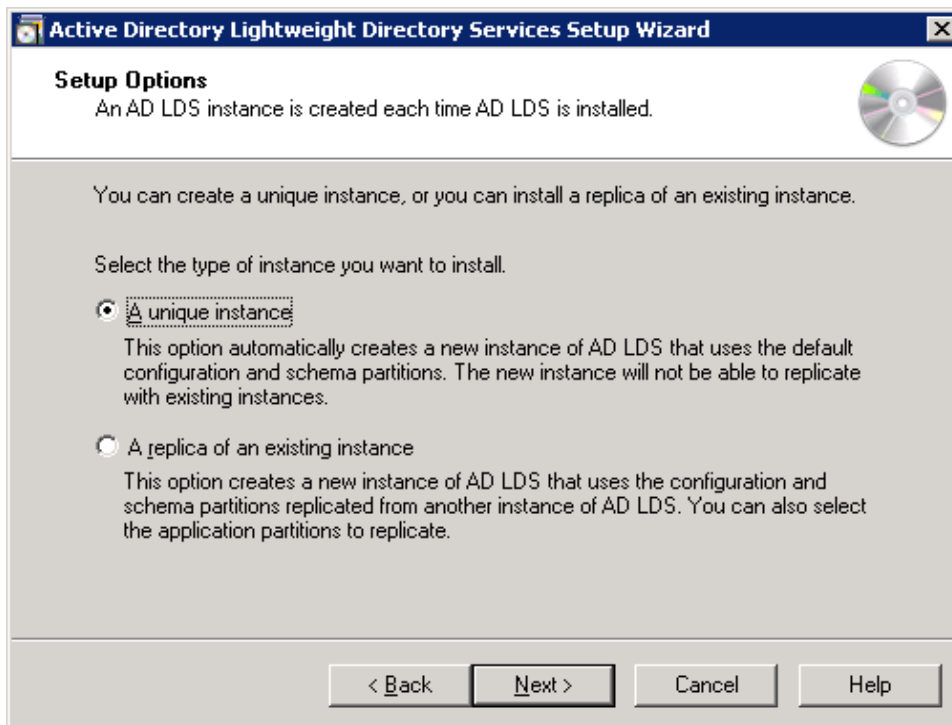
1. In **Server Manager**, click **Add Roles**.
2. Select Active Directory Lightweight Directory Services.
3. Click **Next**.
4. Click **Install**.



**Add Roles Wizard window
Select Server Roles**

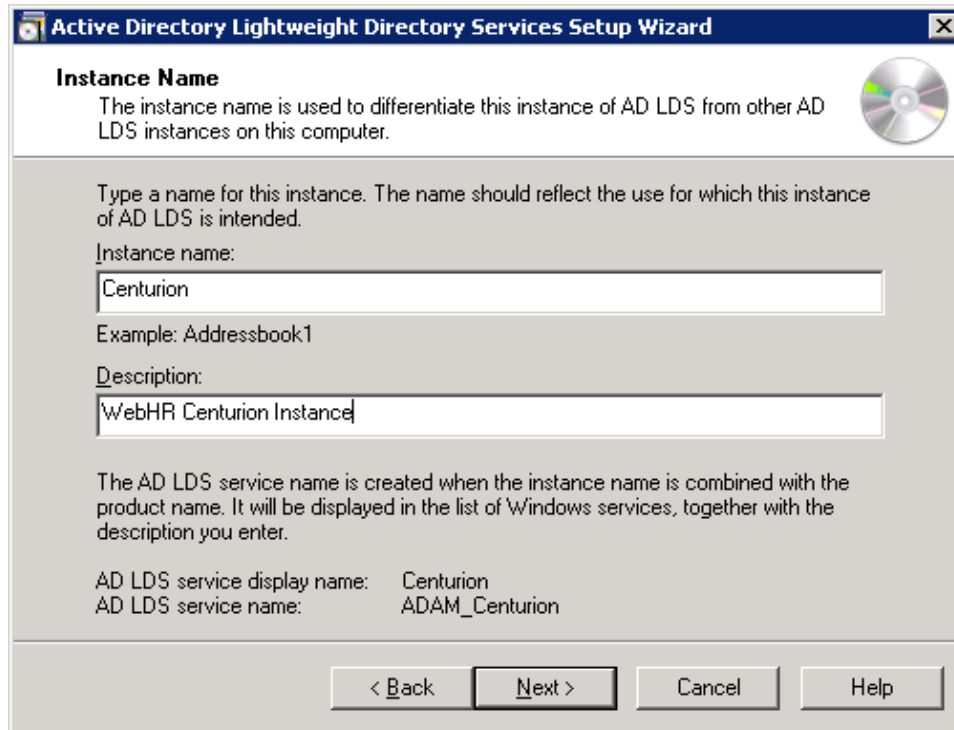
Create the AD/LDS Instance

1. To create the AD/LDS instance:
 - a. Click **Start Menu**.
 - b. Select to **Administrative Tools**.
2. On Administrative Tools:
 - a. Select the **Active Directory Lightweight Directory Services Setup Wizard**.
 - b. Click **Next**.
3. On Setup Options:
 - a. Select the type of instance: **A unique instance**.
 - b. Click **Next**.



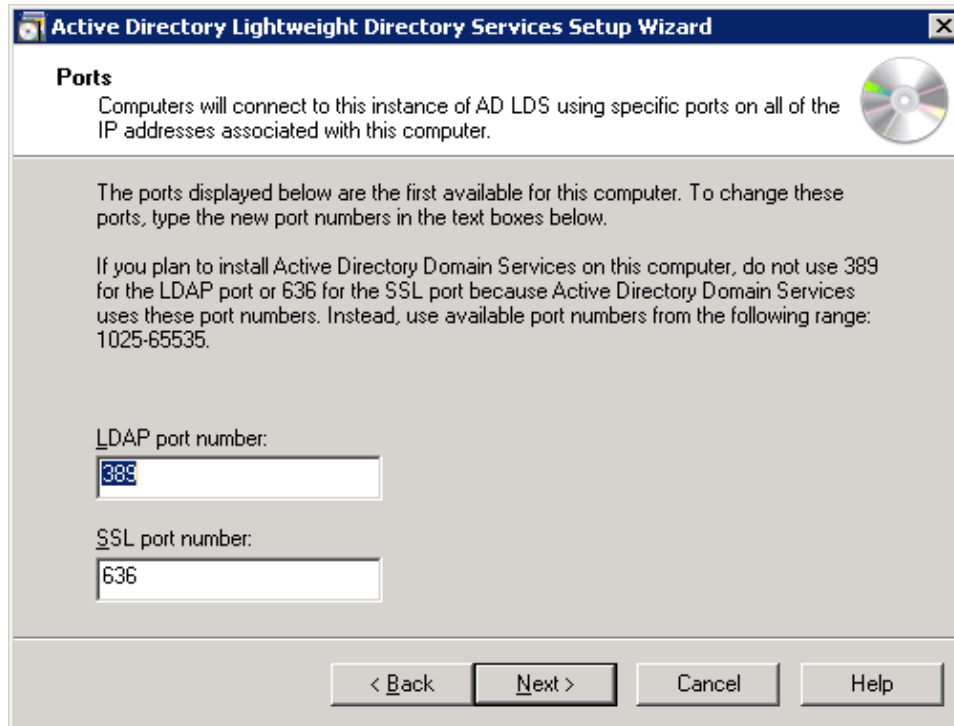
**Active Directory Lightweight Directory Services Setup Wizard window
Select Options**

4. On Instance Name:
 - a. In the Instance name box, type **Centurion**.
 - b. In the Description box, type **WebHR Centurion Instance**.
 - c. Click **Next**.



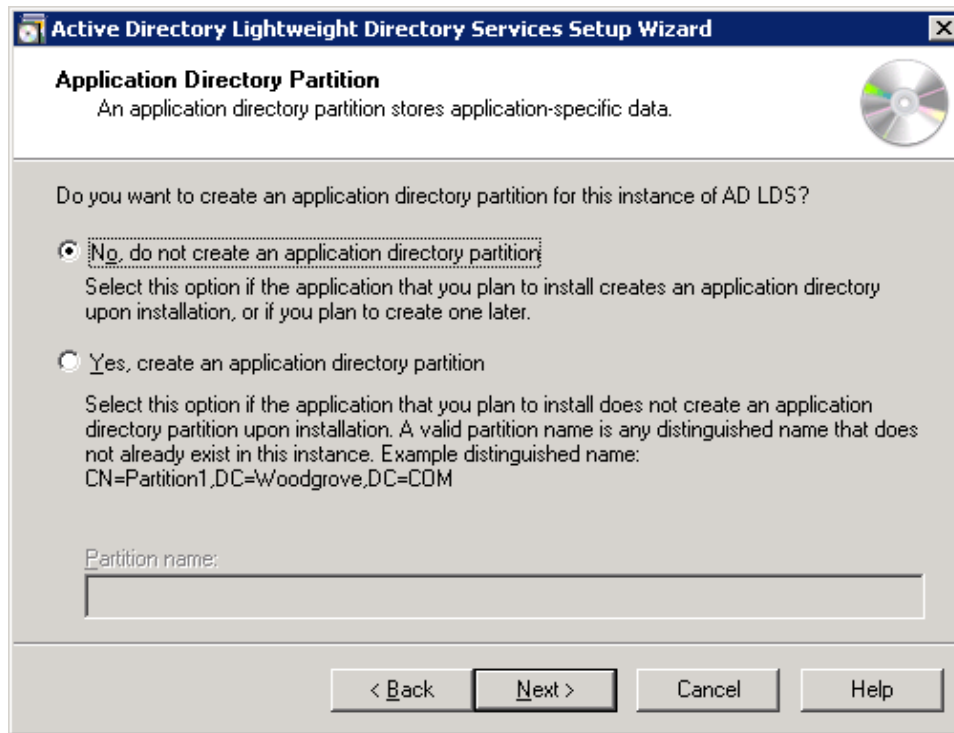
**Active Directory Lightweight Directory Services Setup Wizard window
Instance Name**

5. On Ports:
 - a. In the LDAP port number box, type **389**.
 - b. In the SSL port number box, type **636**.
 - c. Click **Next**.



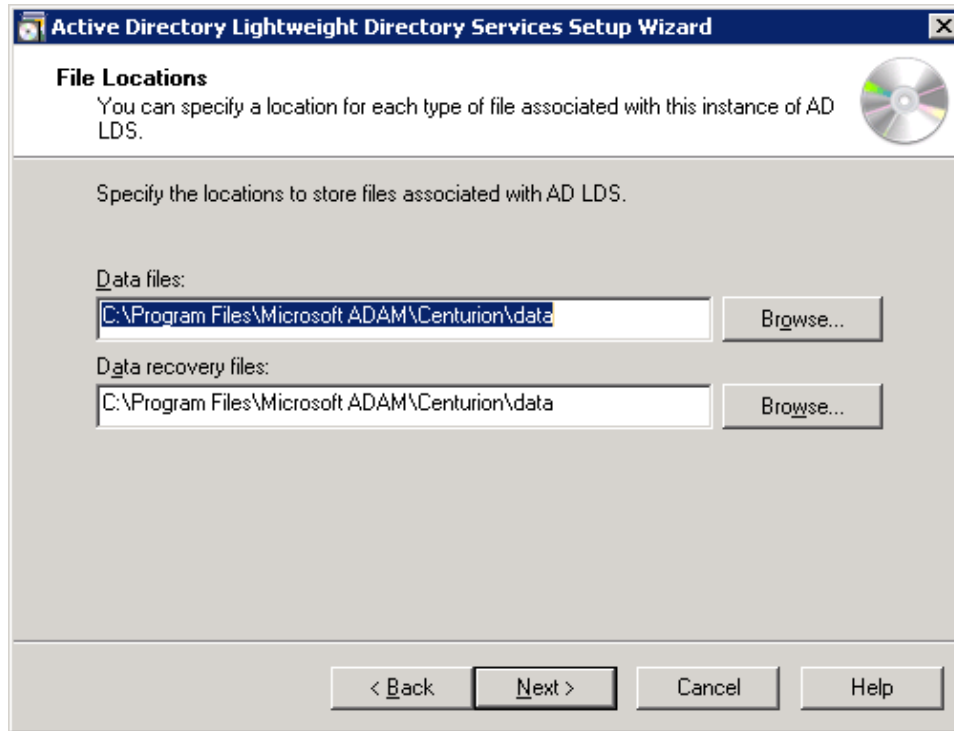
**Active Directory Lightweight Directory Services Setup Wizard window
Ports**

6. On Application Directory Partition:
 - a. Select **No, do not create an application directory partition.**
 - b. Click **Next.**



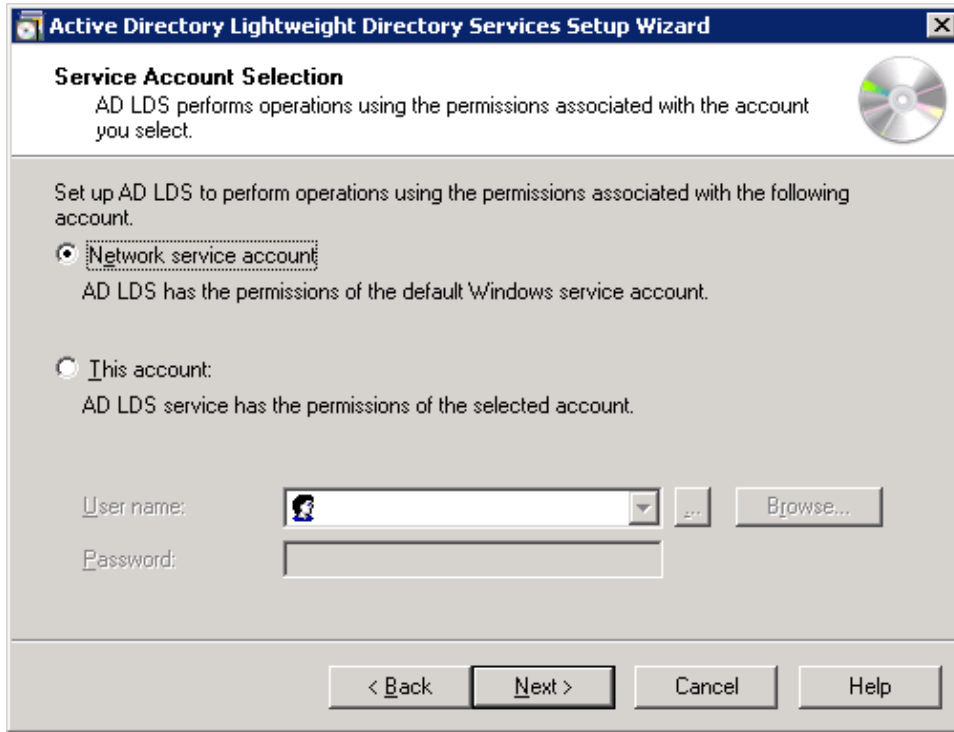
**Active Directory Lightweight Directory Services Setup Wizard window
Application Directory Partition**

7. On File Locations:
 - a. Browse to a location to store the data files associated with AD LDS.
C:\Program Files\Microsoft ADAM\Centurion\data
 - b. Browse to a location to store the data recovery files associated with AD LDS.
C:\Program Files\Microsoft ADAM\Centurion\data
 - c. Click **Next**.



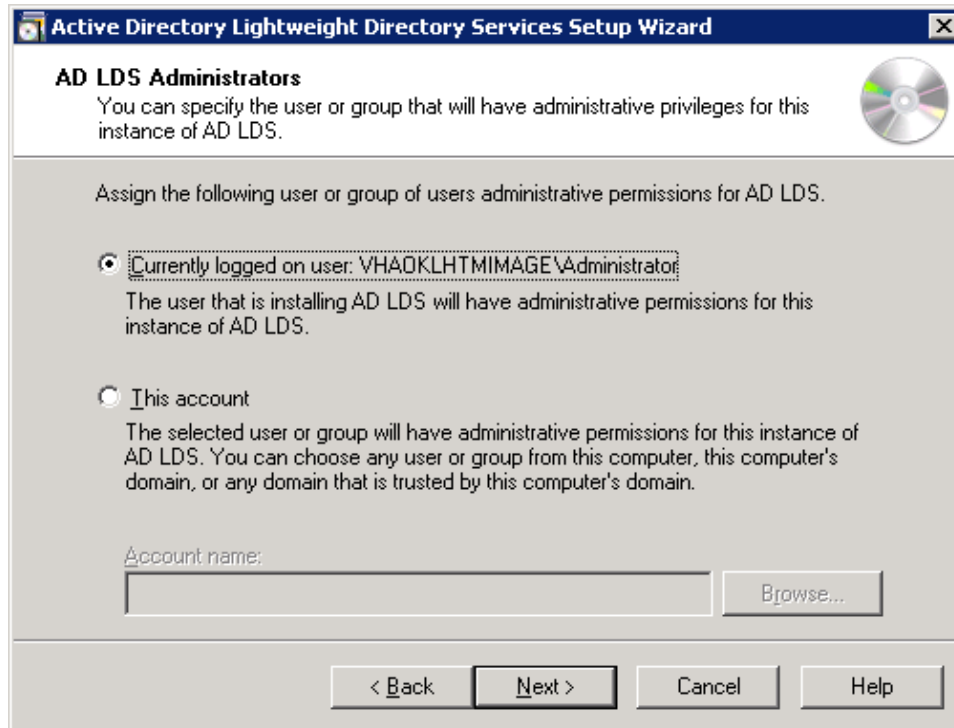
**Active Directory Lightweight Directory Services Setup Wizard window
File Locations**

8. On Service Account Selection:
 - a. To identify the account with which permissions are associated, select **Network Service Account**.
 - b. Click **Next**.



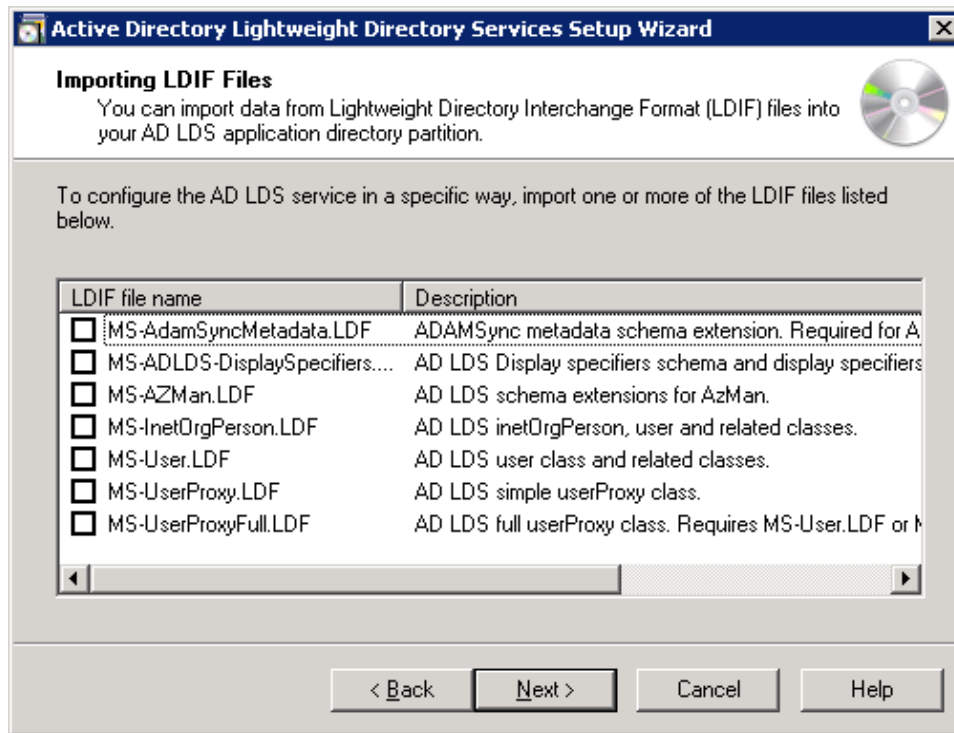
**Active Directory Lightweight Directory Services Setup Wizard window
Service Account Selection**

9. On AD LDS Administrators:
 - a. To assign administrative permission to AD LDS, select **Currently logged on user:** <user/group of users>\Administrator.
 - b. Click **Next**.



**Active Directory Lightweight Directory Services Setup Wizard window
AD LDS Administrators**

10. On Importing LDIF Files:
 - a. Do not select any file names.
 - b. Click **Next**.



**Active Directory Lightweight Directory Services Setup Wizard window
Importing LDIF Files**

11. Click **Next** on the screens that follow, until the AD LDS instance is installed.

Replace the AD/LDS Instance with Centurion Files

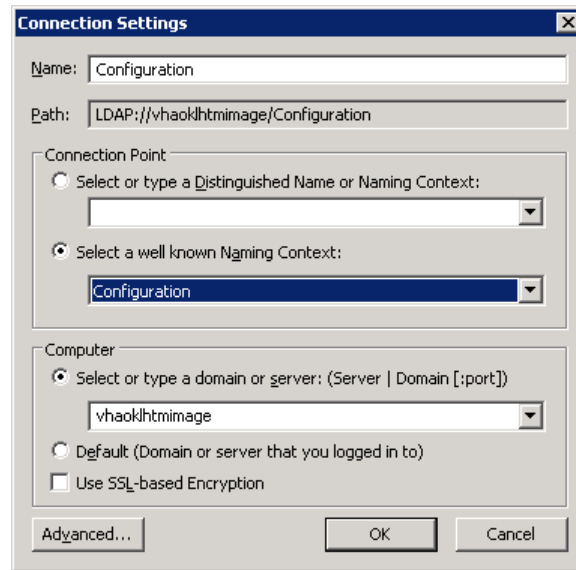
To replace the AD/LDS instance with the Centurion data files:

1. **Stop** the Centurion AD/LDS service just installed.
Go into the **Services** section in **Server Manager**.
2. Browse to the directory: **C:\Program Files\Microsoft ADAM\Centurion\data**.
Create a new directory and name it: **old**.
3. Move all the files from **C:\Program Files\Microsoft ADAM\Centurion\data** to **C:\Program files\Microsoft ADAM\Centurion\data\old**.
4. Copy the files from the **%WEBHR_FILES%\ADAM** directory to **C:\Program Files\Microsoft ADAM\Centurion\data**.
5. Start the **Centurion** service.

Change the Server Name

On the Connection Settings window, change the server name of the **AD/LDS Configuration**.

1. Use **adsiedit.msc** to connect to the Configuration Naming Context of the Centurion instance.
2. In the Computer section, remove **vhaoklhtmime** and replace with the machine name of the server that is running the Centurion AD/LDS instance.
3. Click **OK**.

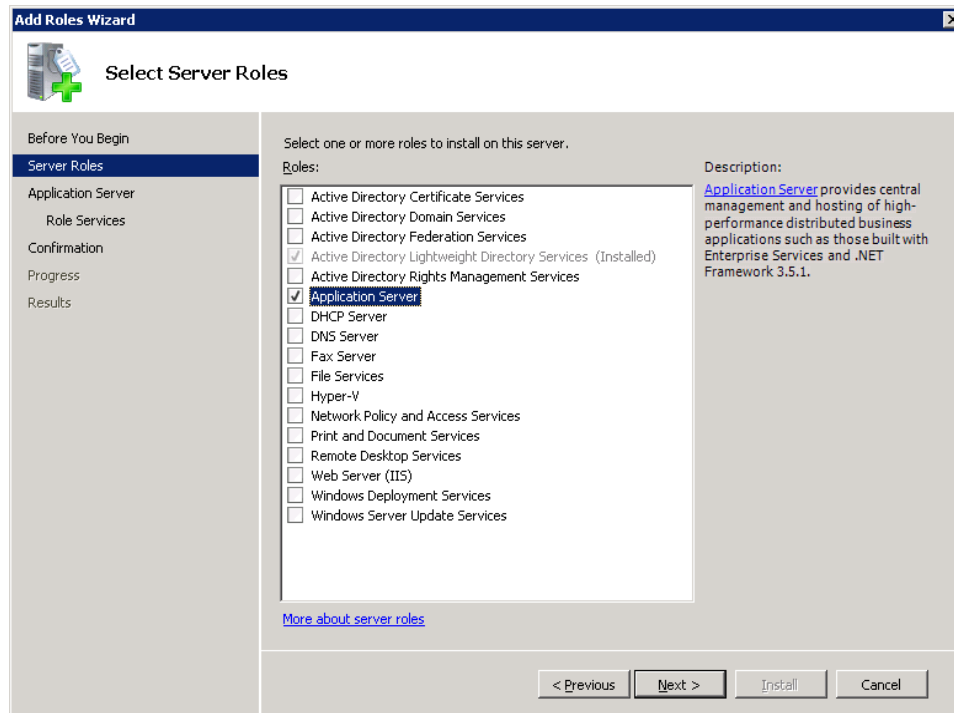


**Connection Settings window
Configuration**

4. Navigate to the following key: **CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,CN={A5A4D5CC-DDCE-44CF-842C-12203E2FDC00}**
5. Right-click: **CN=VHAV16HPDM1\$Centurion** and select **rename**.
6. Remove **VHAV16HPDM1** and replace with the machine name of the server that is hosting the Centurion instance.
7. Click **OK**.

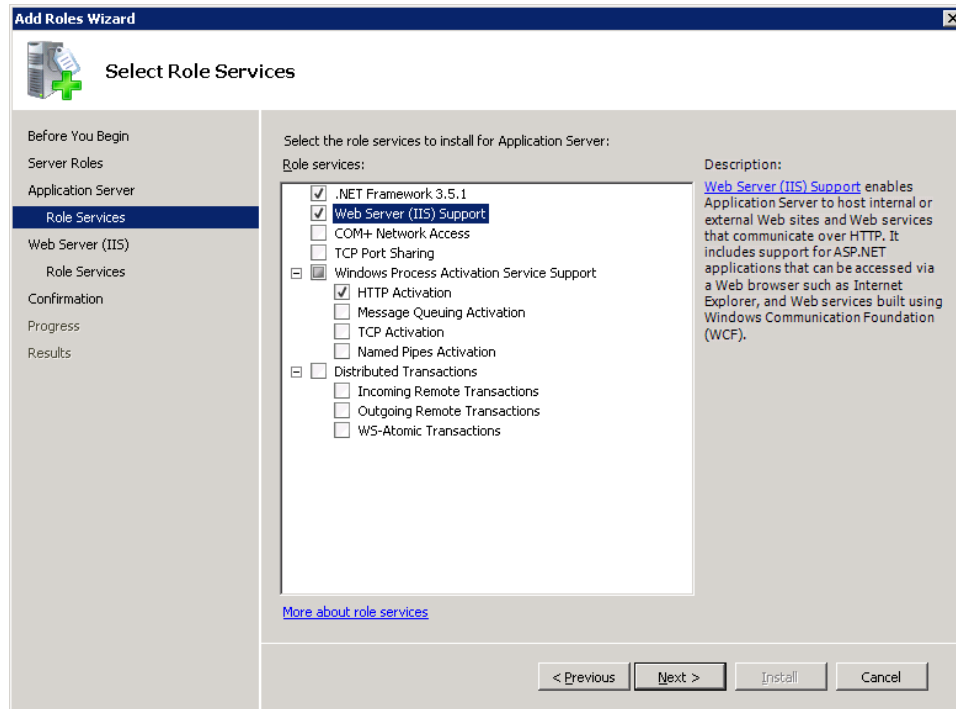
Install the Application Server Role

1. To install the Application Server Role:
 - a. In **Server Manager**, click **Add Roles**.
 - b. On **Select Server Roles**:
 - i. Select **Server Roles**.
 - ii. Select **Application Server**.
 - c. Click **Next**.



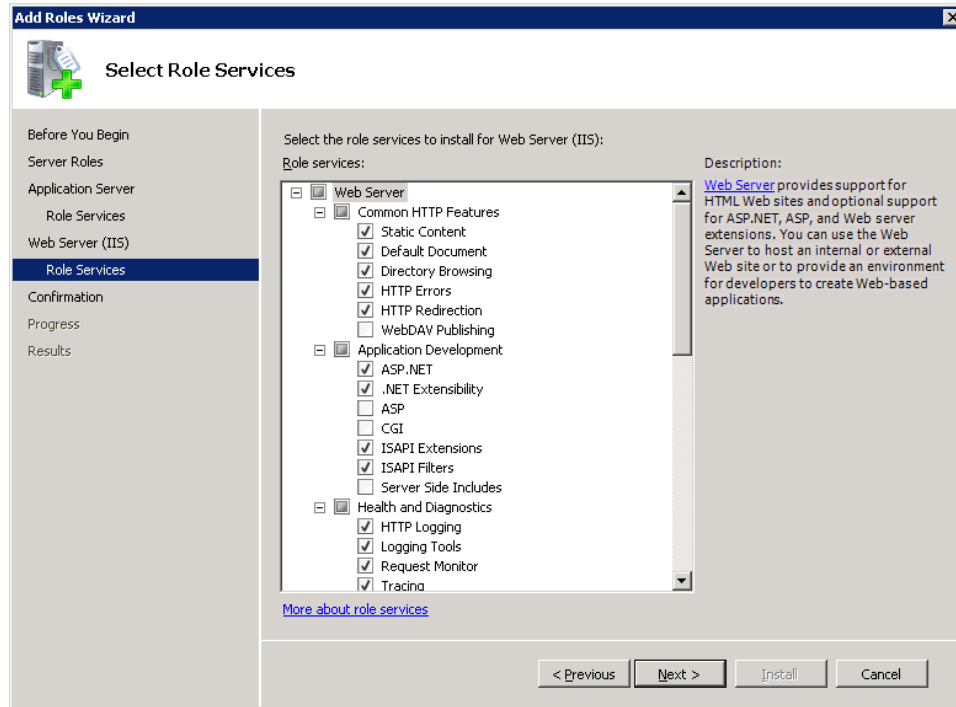
**Add Roles Wizard window
Select Server Roles for Application Server**

2. On Select Server Services:
 - a. Select **Role Services**.
 - b. Select **Web Server (IIS) Support**.
3. Click **Next**.



**Add Roles Wizard window
Select Role Services for Web Server (IIS) Support**

4. **Role Services** defaults are selected for Web Server (IIS).
Do not remove the selected defaults.
5. Click **Next**.
6. Click **Install**.

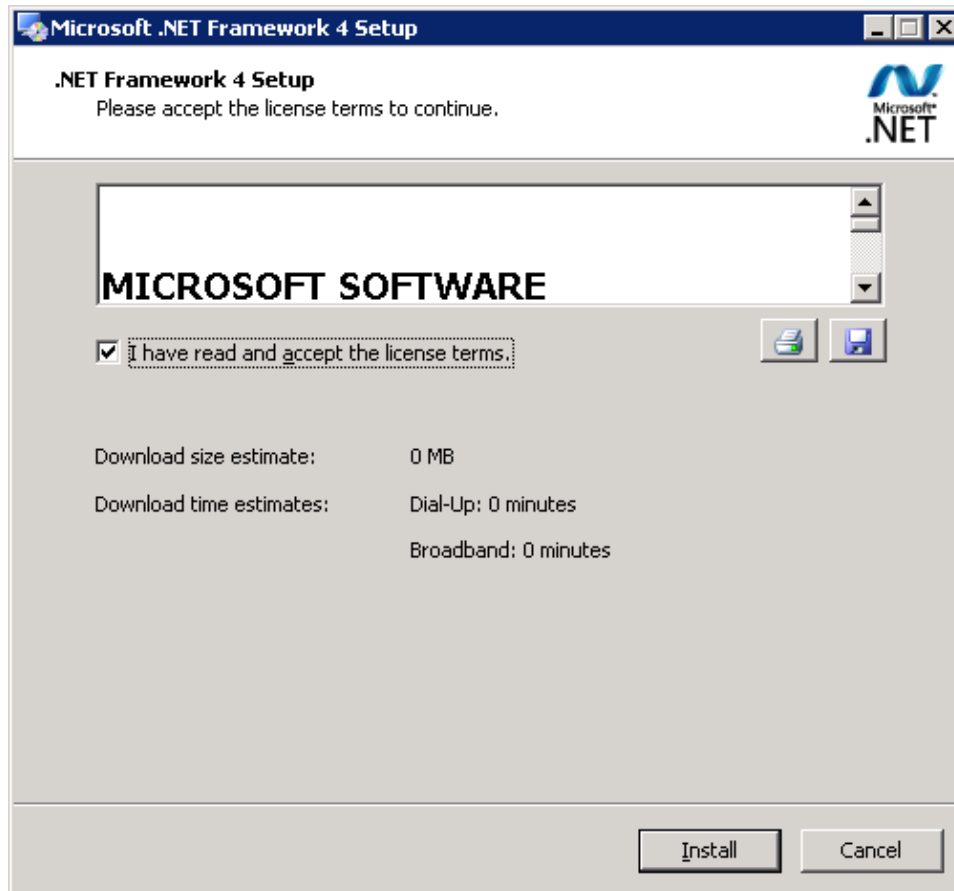


**Add Roles Wizard window
Select Role Services for Web Server (IIS)**

Install Microsoft .NET 4.0- Framework

To install the **Microsoft .NET 4.0 Framework**, if it is not installed already:

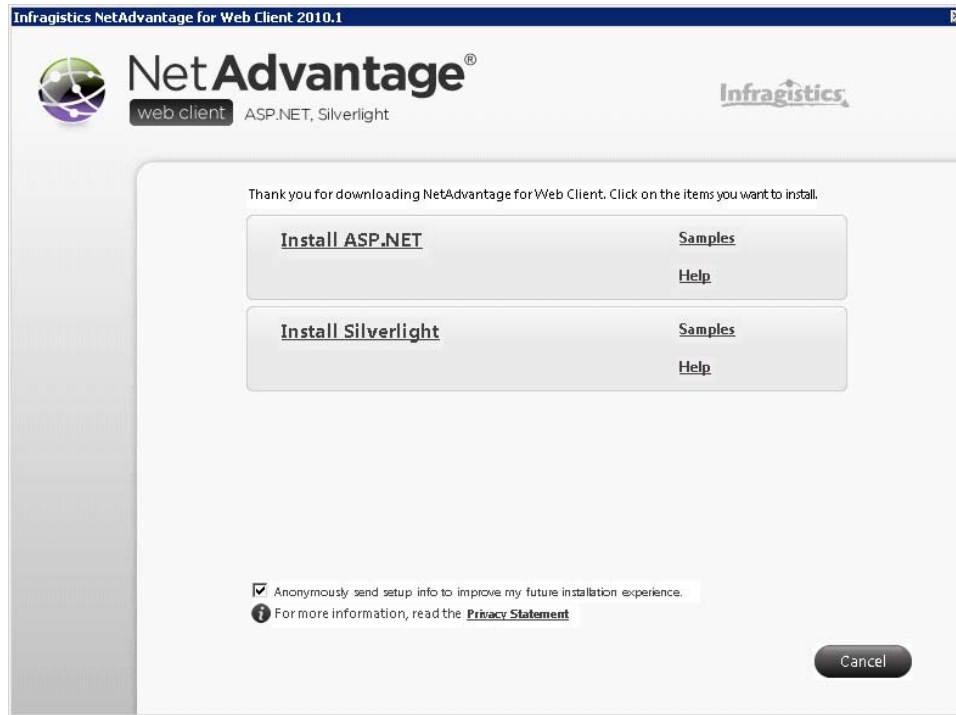
1. The install files are located at: %WEBHR_FILES%\MicrosoftDotNet4
2. Accept the installation defaults and the license terms.
3. Click **Install**.



.NET Framework 4 Setup window>Accept the license terms

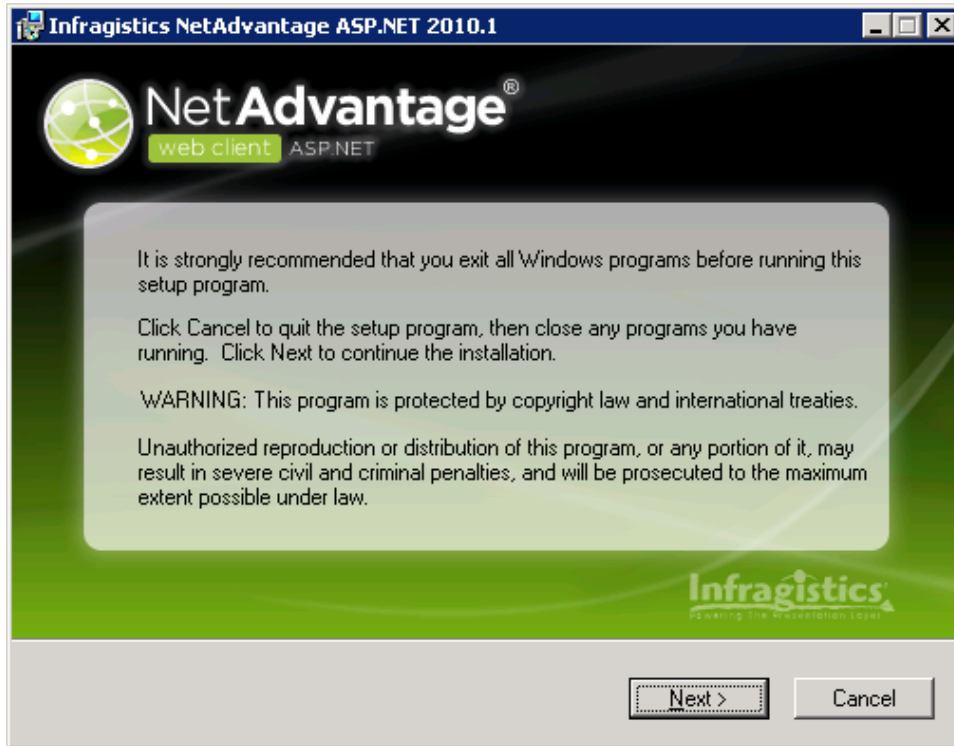
Install the Infragistics Net Advantage Web Client 2010

1. Install the **Infragistics Net Advantage Web Client 2010**.
 - a. The install files are located at: `%WEBHR_FILES%\Infragistics`
 - b. Click **Install ASP.NET**.



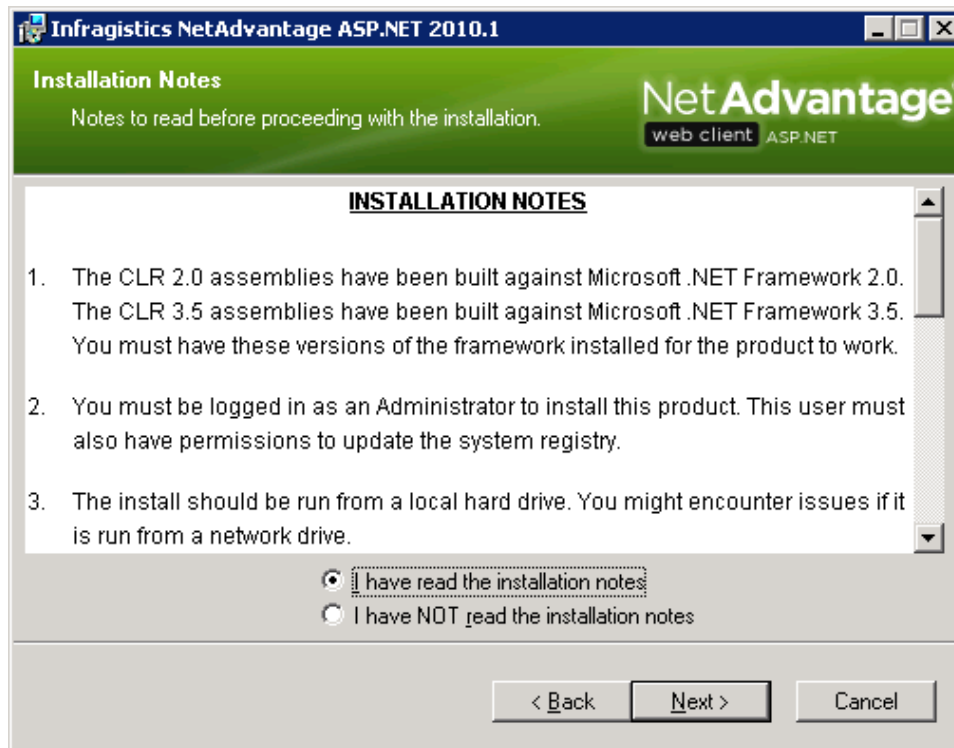
Infragistics Net Advantage Web Client>Install ASP.NET

c. Click **Next**.



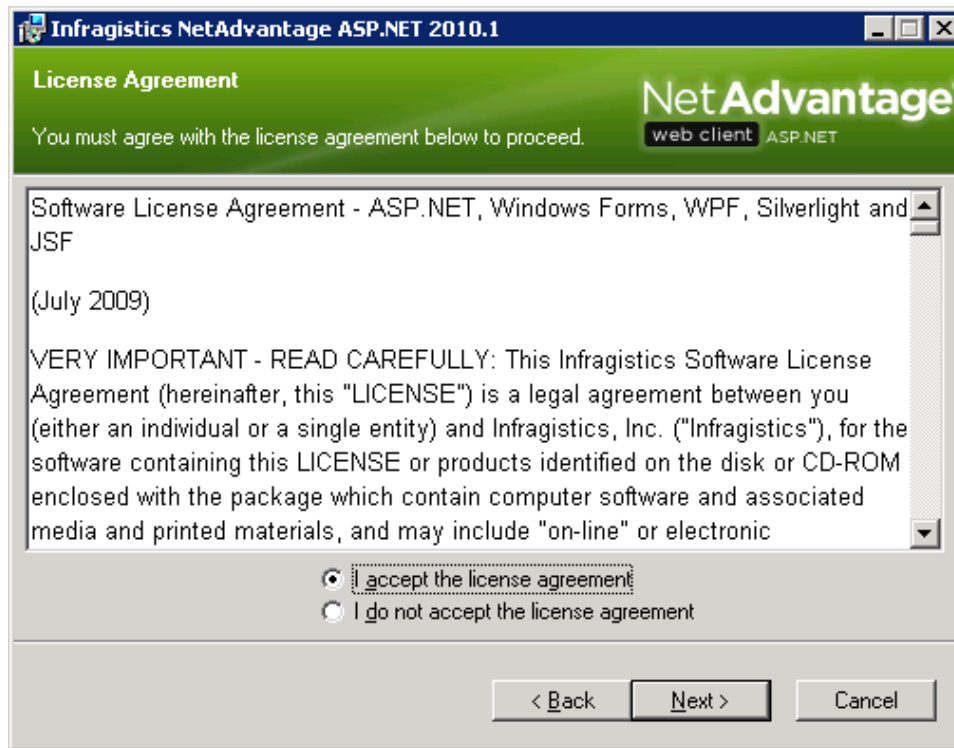
Infragistics Net Advantage Web Client>Warning page

- d. On Installation Notes:
- Select the radio button, **I have read the installation notes.**
 - Click **Next**.



Infragistics Net Advantage Web Client>Installation Notes

- e. On License Agreement:
 - i. Select the radio button, **I accept the license agreement.**
 - ii. Click **Next**.



Infragistics Net Advantage Web Client>License agreement

- f. On User Information:
- i. Enter your:
 - Full Name
 - Organization
 - Product Key
 - ii. Select the radio button, **Anyone who uses this computer**.
 - iii. Click **Next**.

User Information

Enter the following information to personalize your installation.

Full Name: HTM Program Office

Organization: Department of Veterans Affairs

Product Key: XXXXXXXXXXXXXXXXXXXX

(Find on DVD packaging or online under My Keys and Downloads. Leaving the Product Key field blank will install Infragistics NetAdvantage ASP.NET 2010.1 for trial use.)

The settings for this application can be installed for the current user or for all users that share this computer. You must have administrator rights to install the settings for all users. Install this application for:

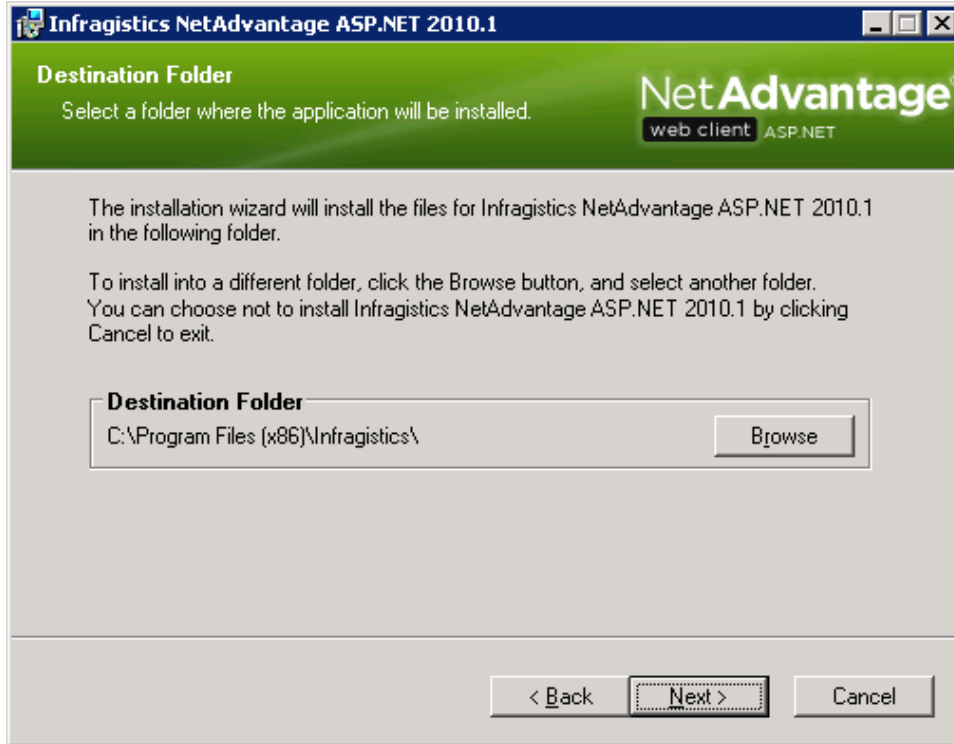
Anyone who uses this computer

Only for me (HTM Program Office)

< Back Next > Cancel

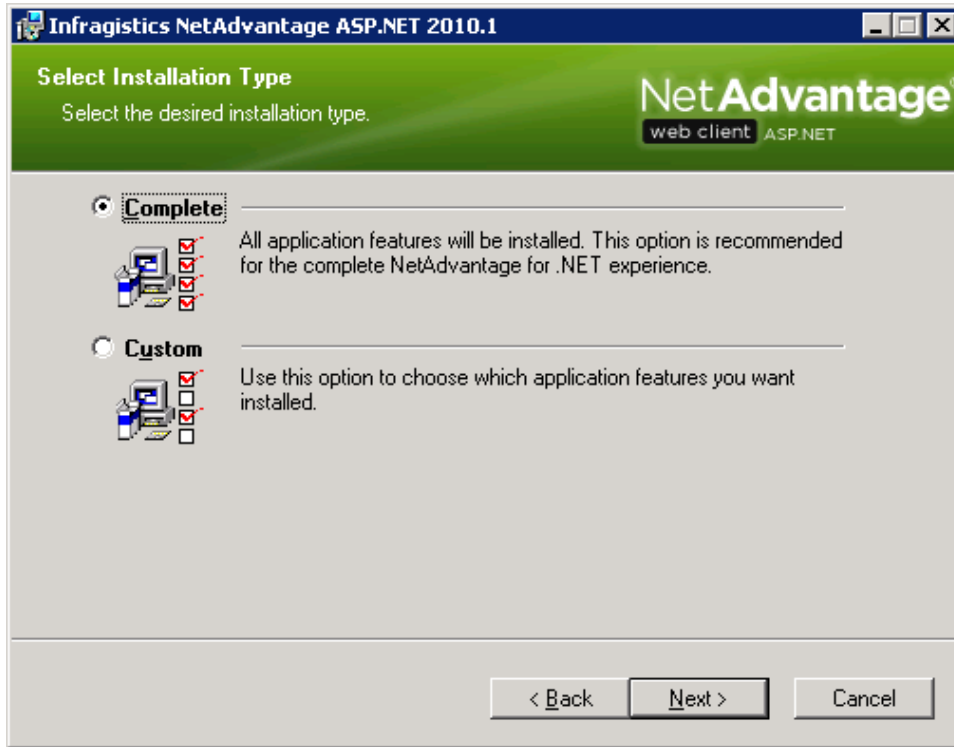
Infragistics Net Advantage Web Client>User Information page

- g. On Destination Folder:
 - i. The default destination folder for Infragistics Net Advantage Web Client displays. Do not change the default.
 - ii. Click **Next**.



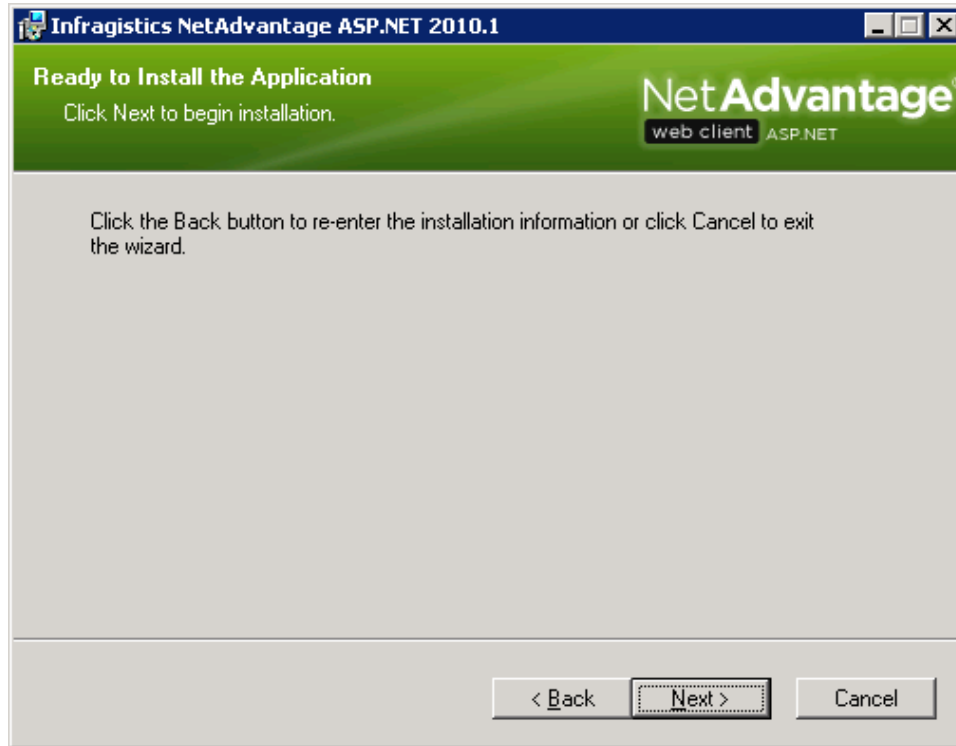
Infragistics Net Advantage Web Client>Destination Folder

- h. On Select Installation Type:
 - i. Select the radio button, **Complete**.
 - ii. Click **Next**.



Infragistics Net Advantage Web Client>Select Installation Type

- i. On Ready to Install the Application, click **Next**.



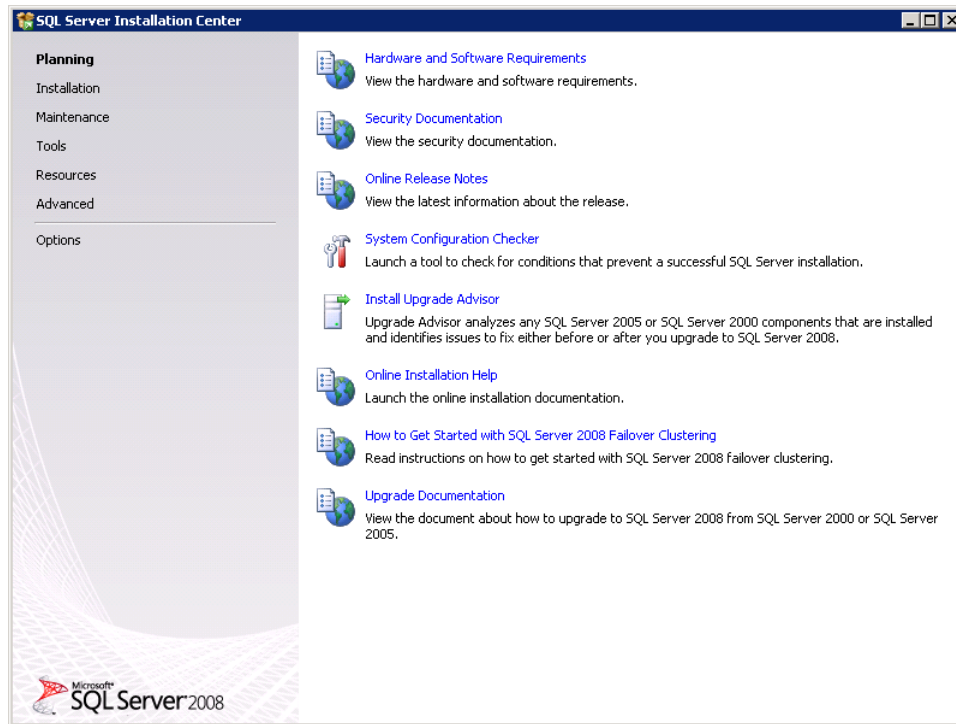
Infragistics Net Advantage Web Client>Ready to Install the Application

Install SQL Server 2008

To install SQL Server 2008:

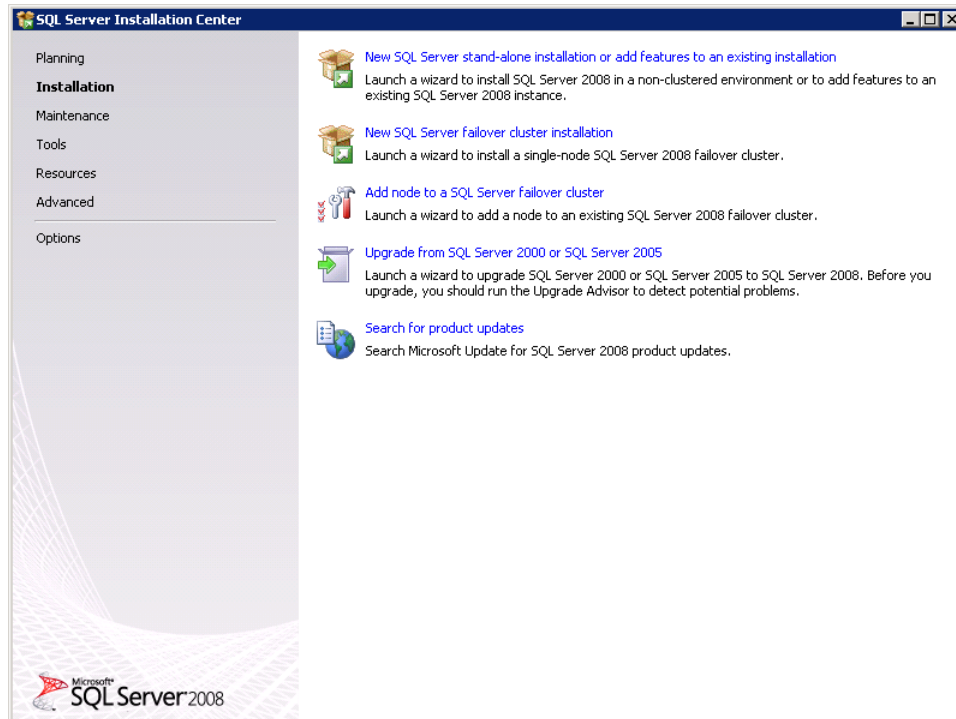
Notes: The install files are located at: **%WEBHR_FILES%\SQLServer2008**.
Install SQL Server 2008 on the *same machine* that is running IIS.

1. On SQL Server Installation Center>Planning, select **Installation**.



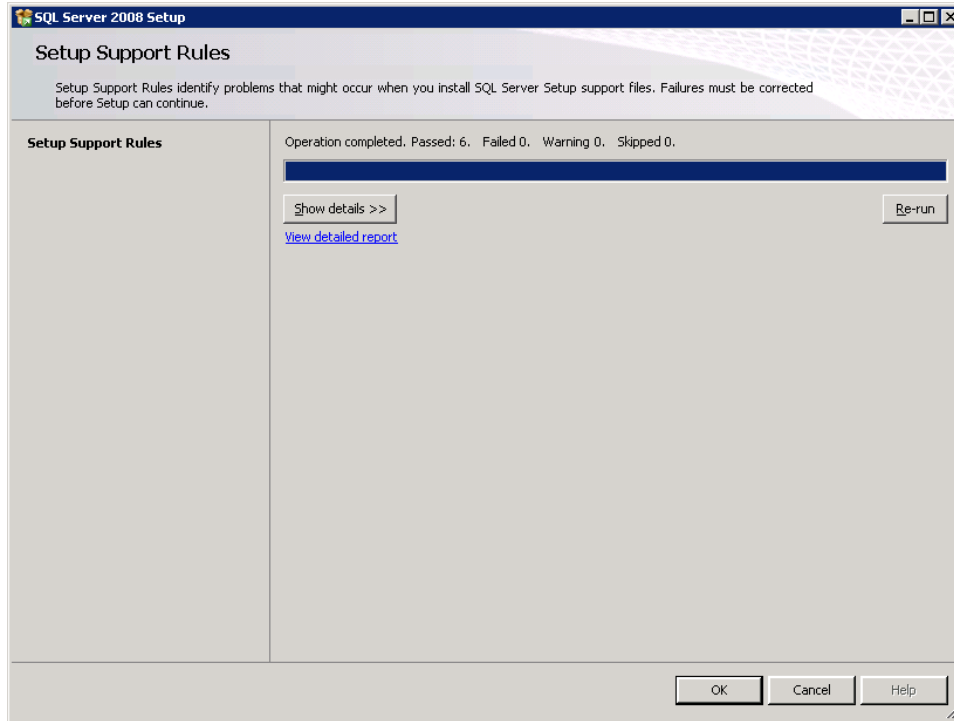
SQL Server Installation Center window>Planning

2. On SQL Server Installation Center>Installation, select **New SQL Server stand-alone installation or add features to an existing installation**.



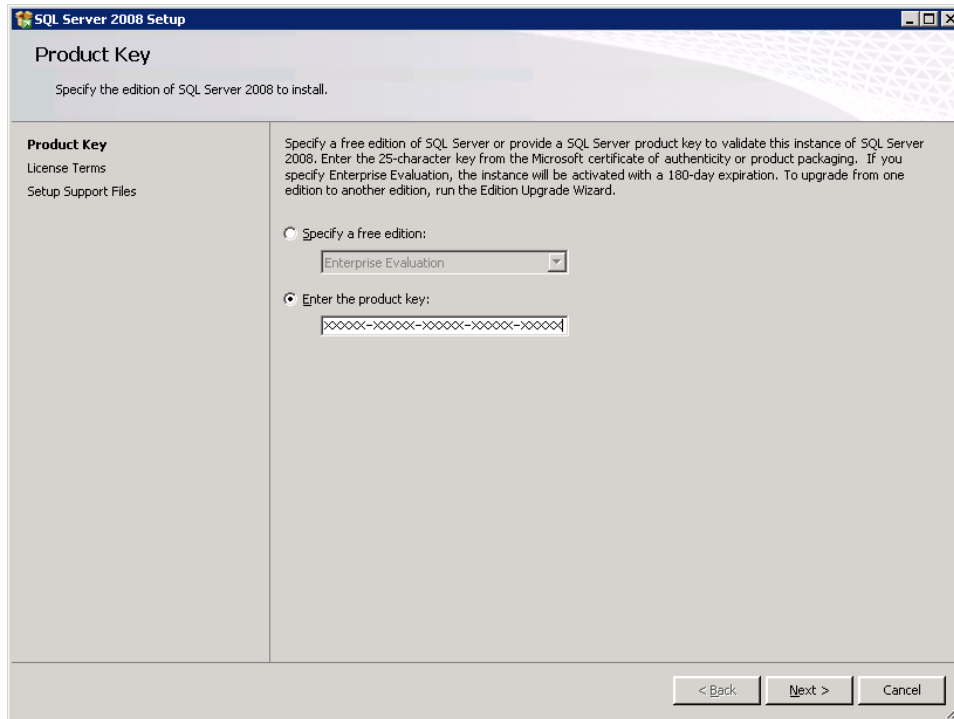
SQL Server Installation Center window>Installation

3. On SQL Server 2008 Setup>Setup Support Rules, click **OK**.



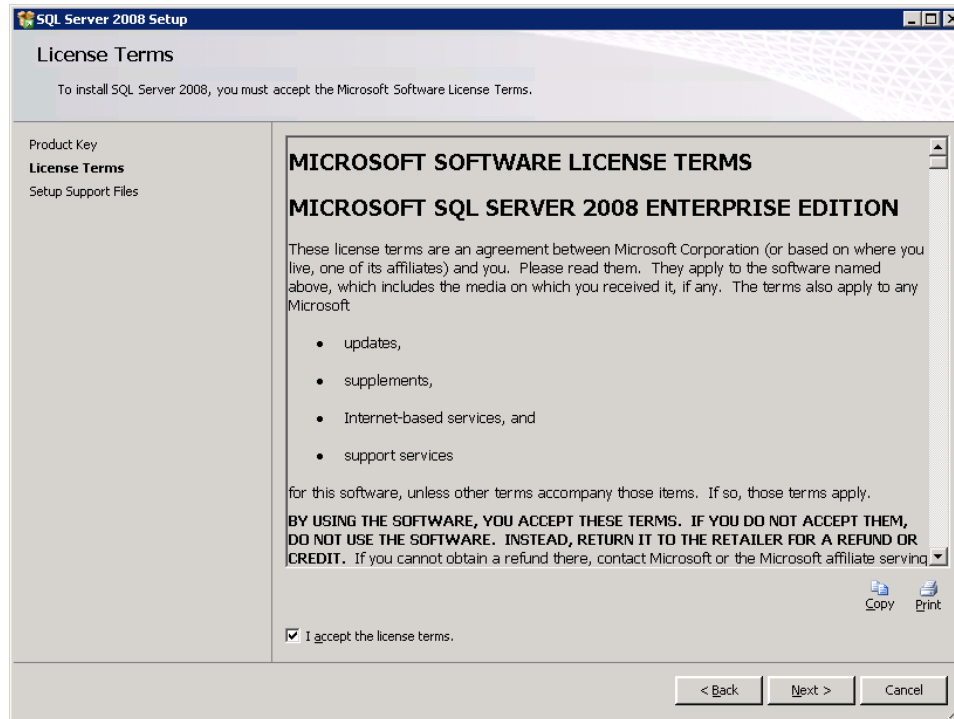
SQL Server 2008 Setup>Setup Support Rules window

4. On SQL Server 2008 Setup>Product Key, enter the product key in the **Enter the product key** text box and click **Next**.



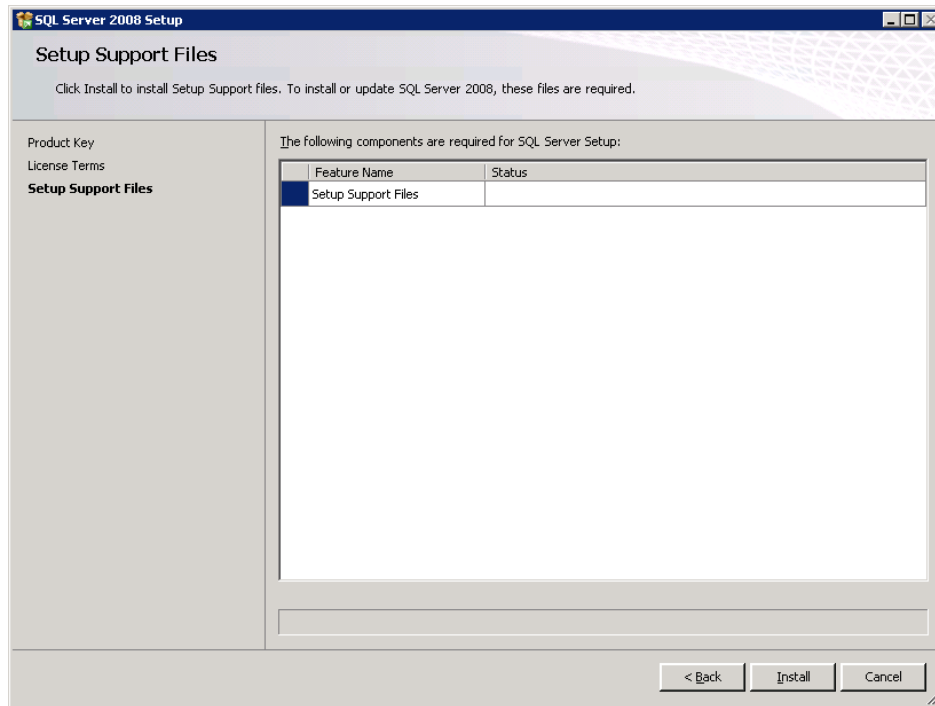
SQL Server 2008 Setup>Product Key window

5. On SQL Server 2008 Setup>License Terms, select the checkbox, **I accept the license terms** and click **Next**.



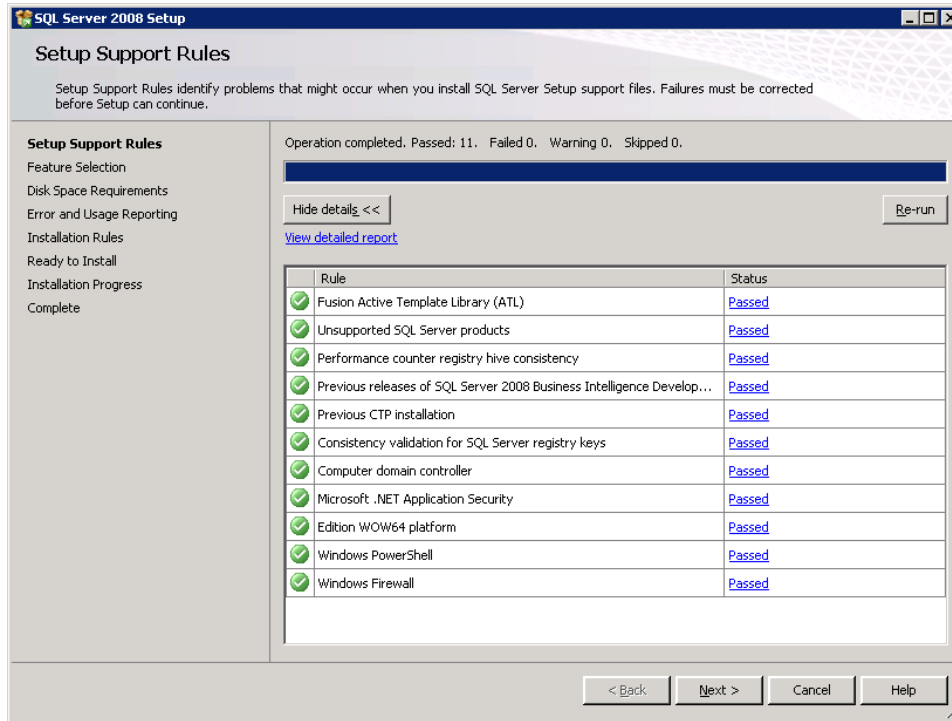
SQL Server 2008 Setup>License Terms window

6. On SQL Server 2008 Setup>Setup Support Files, click **Install**.



SQL Server 2008 Setup>Setup Support Files window

7. On SQL Server 2008 Setup>Setup Support Rules, click **Next**.



SQL Server 2008 Setup>Setup Support Rules window

8. On SQL Server 2008 Setup>Feature Selection, select the following features and click **Next**.

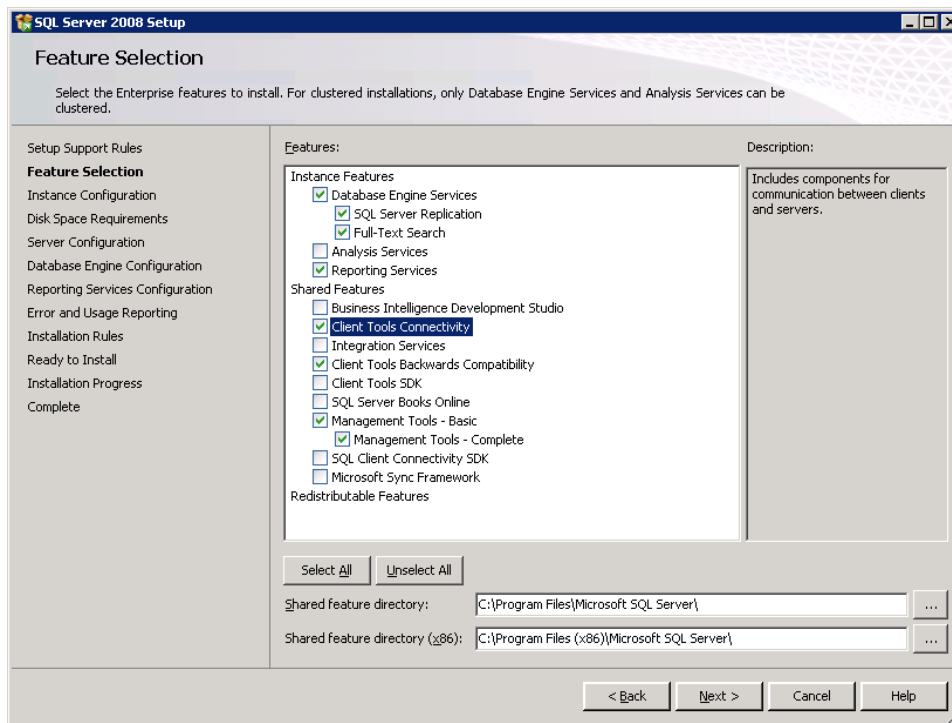
Instance Features

- Database Engine Services
 - SQL Server Replication
 - Full-Text Search
- Analysis Services
- Reporting Services

Shared Features

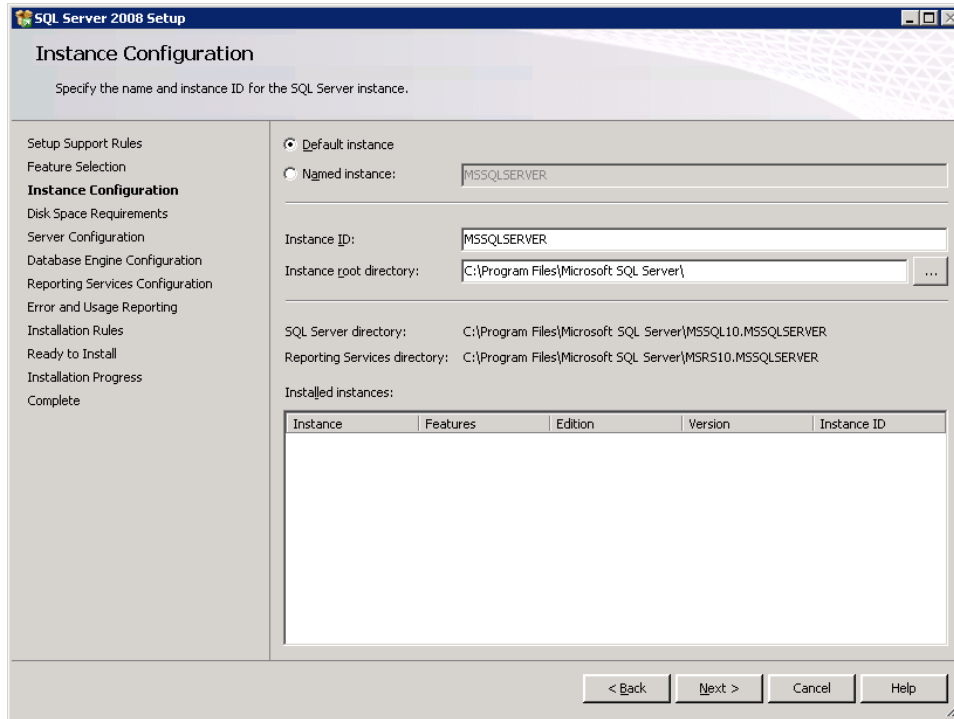
- Business Intelligence Development Studio
- Client Tools Connectivity
- Integration Services
- Client Tools Backwards Compatibility
- Client Tools SDK
- SQL Server Books Online
- Management Tools - Basic
 - Management Tools - Complete
- SQL Client Connectivity SDK
- Microsoft Sync Framework

Redistributable Features



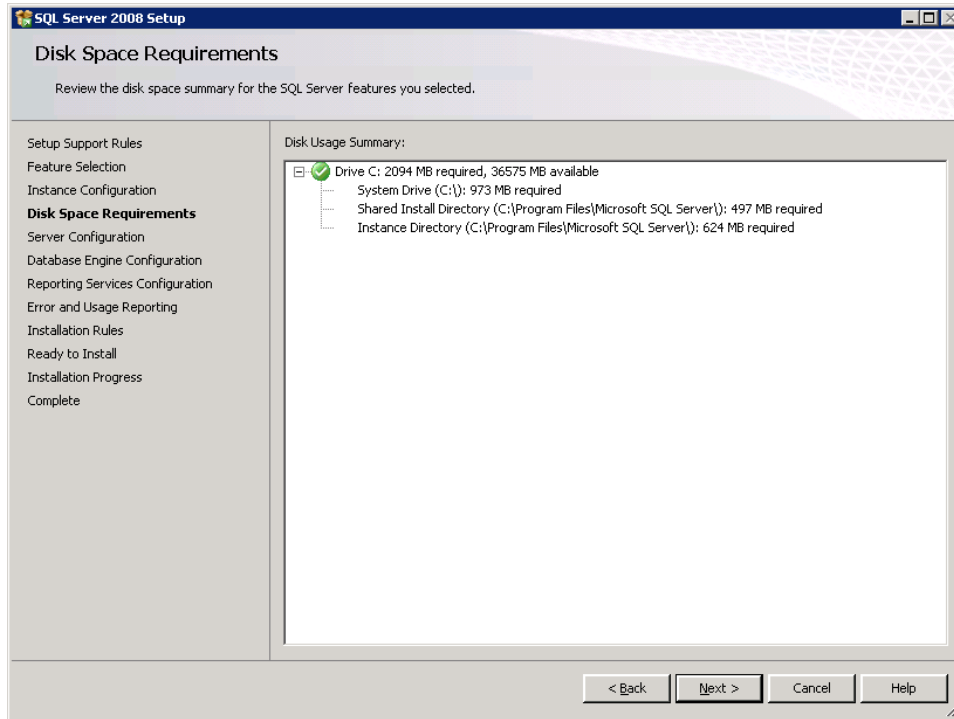
SQL Server 2008 Setup>Feature Selection window

9. On SQL Server 2008 Setup>Instance Configuration, click **Next**.



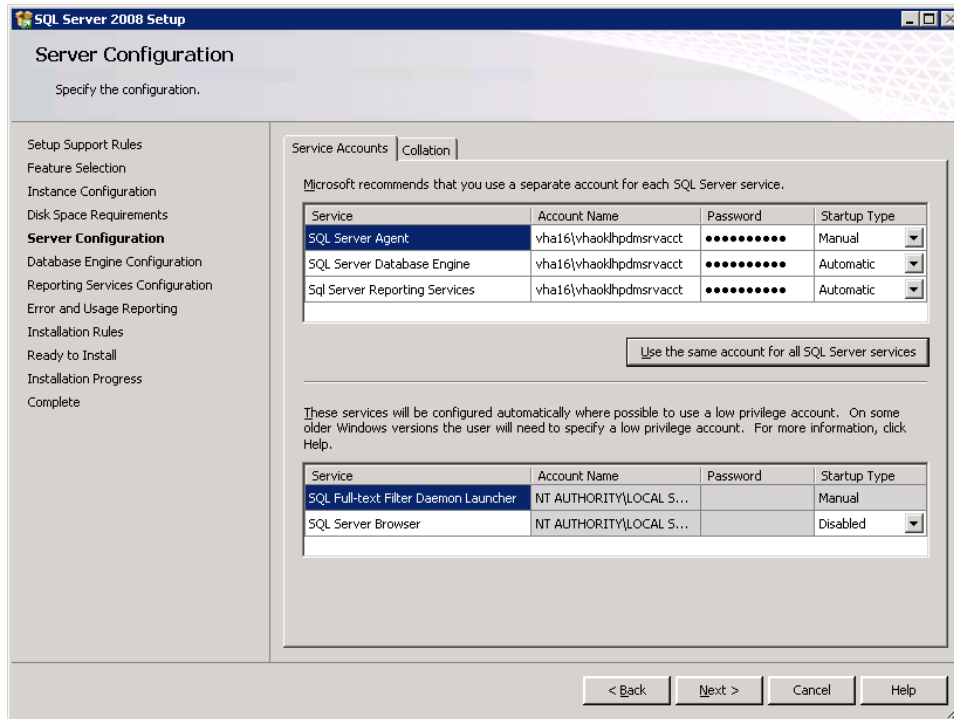
SQL Server 2008 Setup>Instance Configuration window

10. On SQL Server 2008 Setup>Disk Space Requirements, click **Next**.



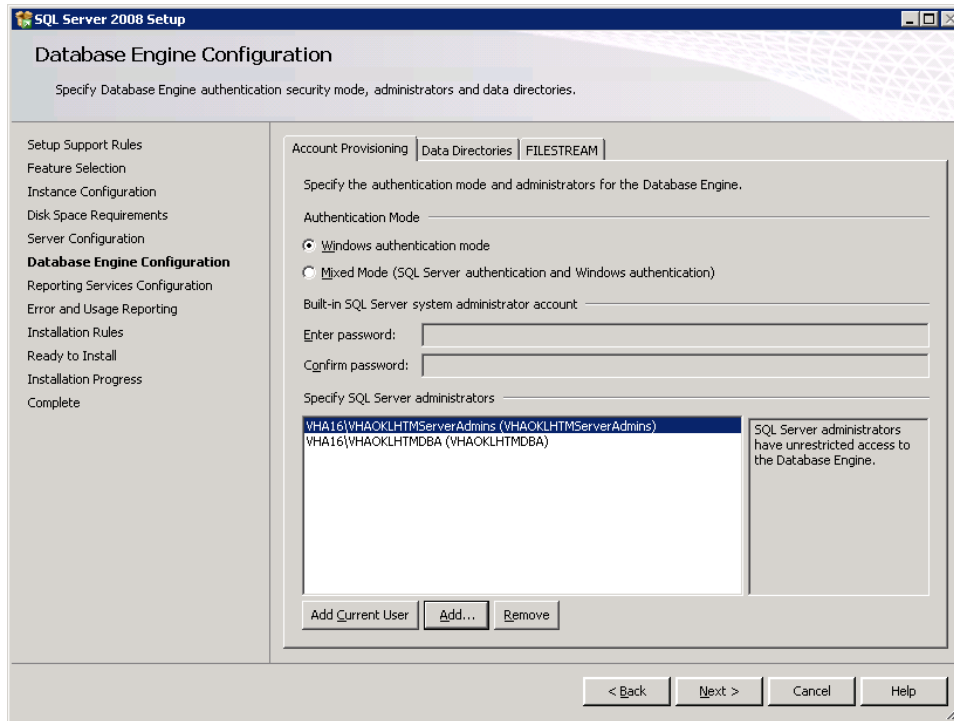
SQL Server 2008 Setup>Disk Space Requirements window

- On SQL Server 2008 Setup>Server Configuration, enter the credentials of a **domain service account** for: **SQL Server Agent**, **SQL Server Database Engine**, and **Sql Server Reporting Services**, and click **Next**.



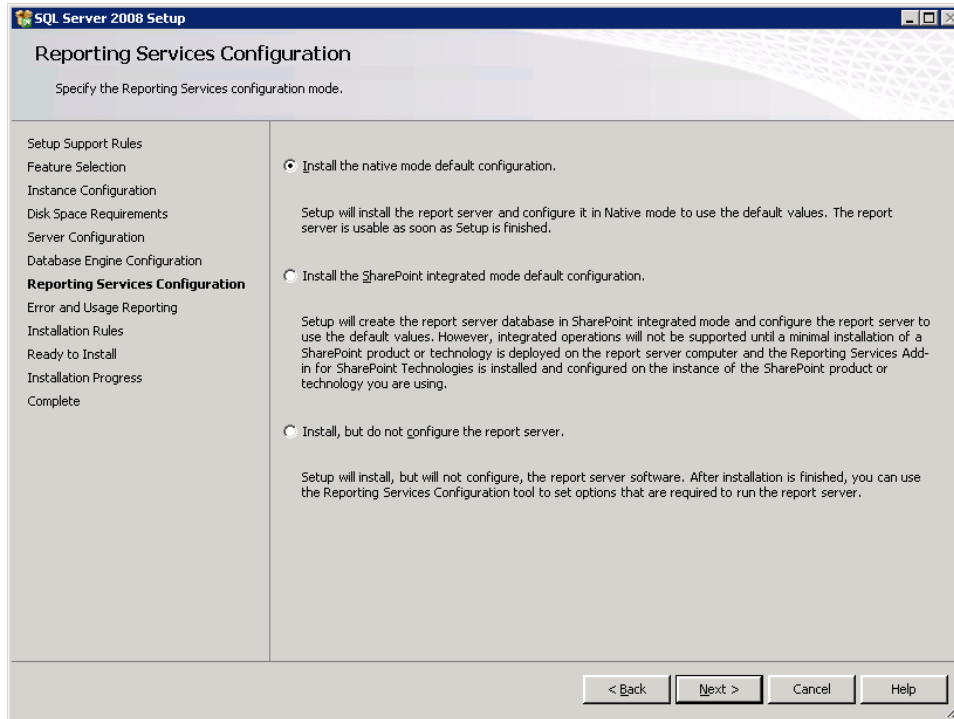
SQL Server 2008 Setup>Server Configuration window

12. On SQL Server 2008 Setup>Database Engine Configuration:
 - a. Select the radio button, **Windows authentication mode**.
 - b. Enter your administrator(s) into the **Specify SQL Server administrators** text box and click **Add**.
 - c. Click **Next**.



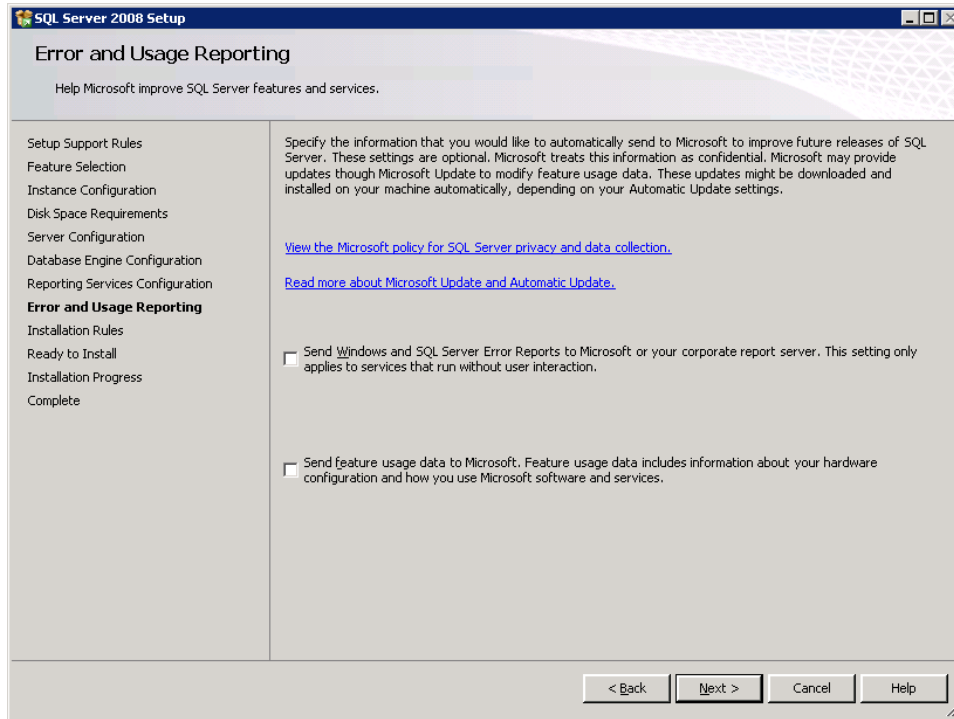
SQL Server 2008 Setup>Database Engine Configuration window

13. On SQL Server 2008 Setup>Reporting Services Configuration, select the radio button, **Install the native mode default configuration** and click **Next**.



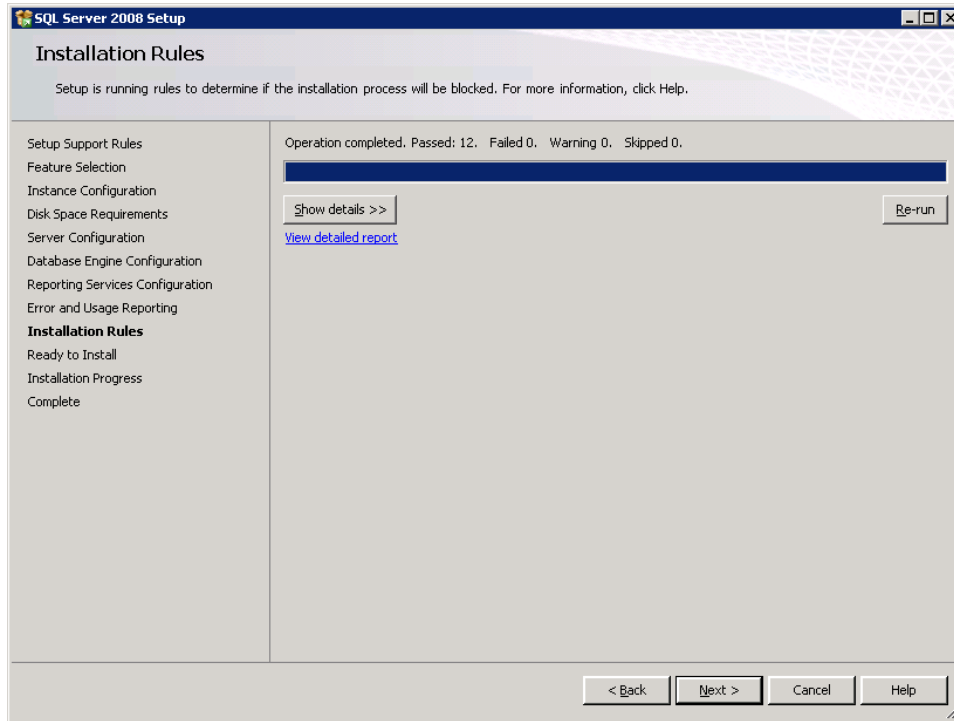
SQL Server 2008 Setup>Reporting Services Configuration window

14. On SQL Server 2008 Setup>Error and Usage Reporting, click **Next**.



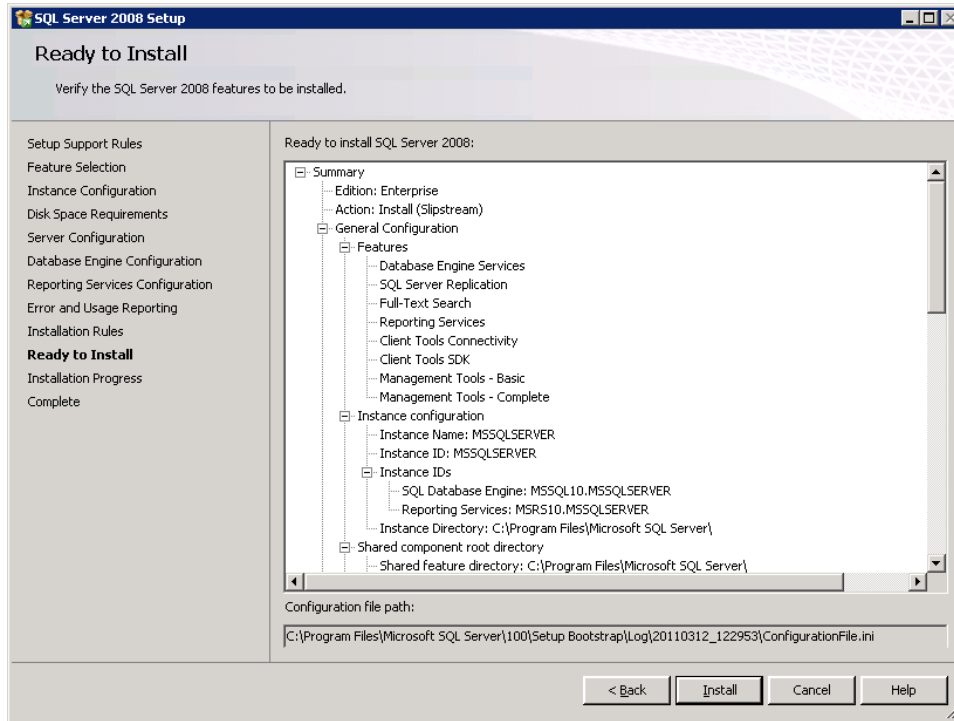
SQL Server 2008 Setup>Errors and Usage Reporting window

15. On SQL Server 2008 Setup>Installation Rules, click **Next**.



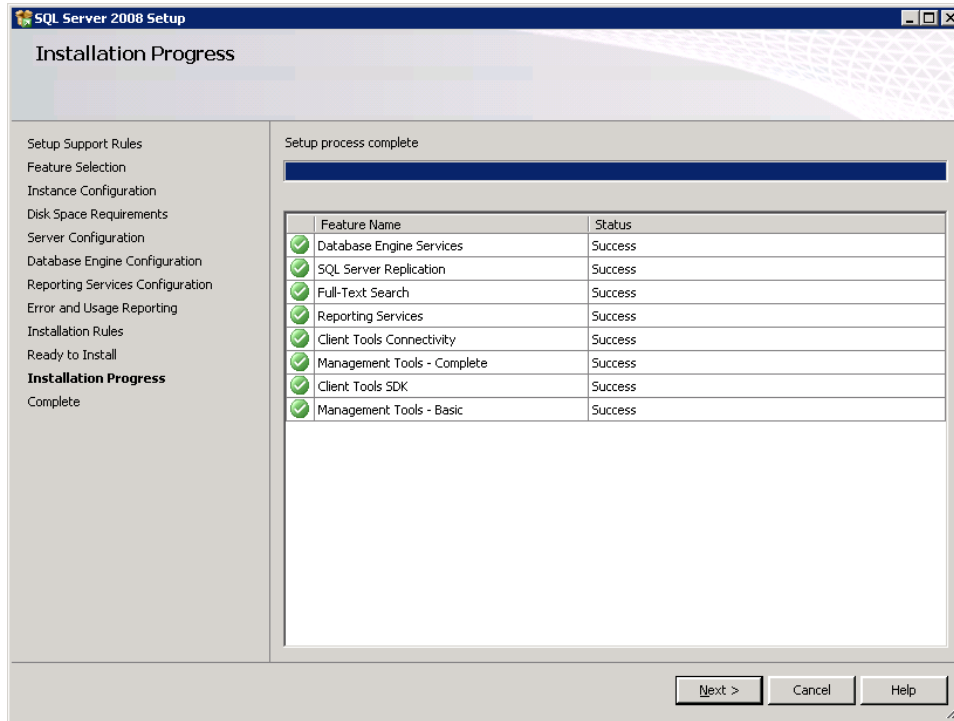
SQL Server 2008 Setup>Installation Rules window

16. On SQL Server 2008 Setup>Ready to Install, click **Install**.



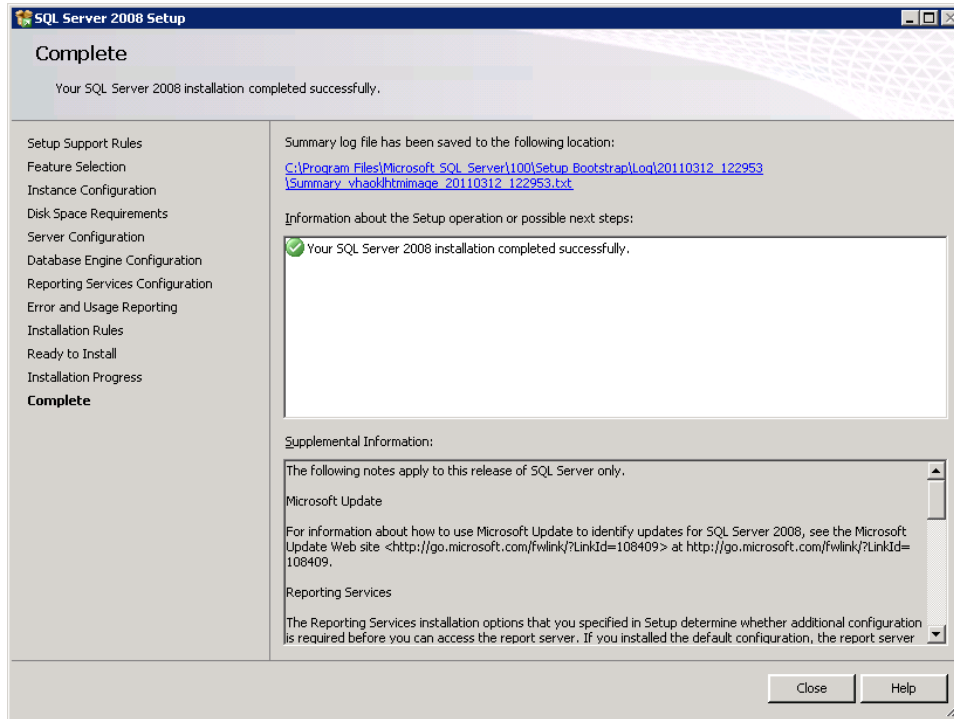
SQL Server 2008 Setup>Ready to Install window

17. On SQL Server 2008 Setup>Installation Progress, click **Next**.



SQL Server 2008 Setup>Installation Progress window

18. On SQL Server 2008 Setup>Complete, click **Close**.



SQL Server 2008 Setup>Complete window

Create SQL Login

To create an SQL login for WebHR:

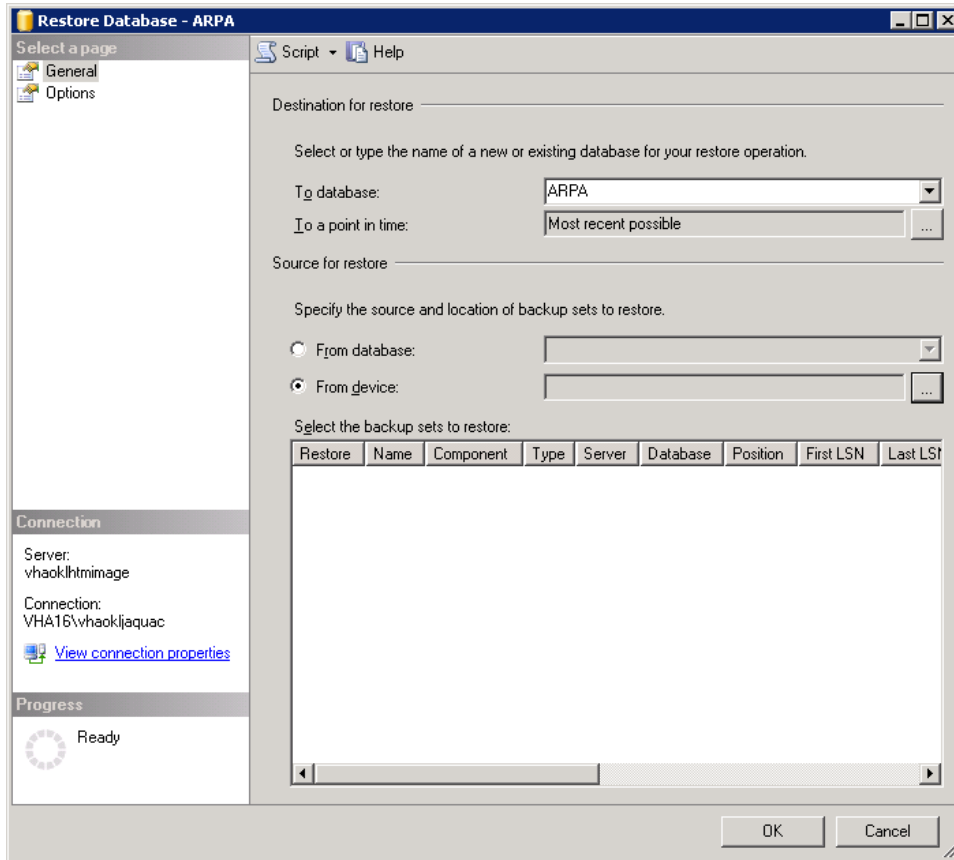
1. Use SQL Management Studio to connect to your SQL Database Engine instance.
2. Open a new query window and paste in the following
**CREATE LOGIN [VHA16\VHAOKLVHALWDUsers] FROM WINDOWS WITH
DEFAULT_DATABASE=[master], DEFAULT_LANGUAGE=[us_english]**
3. Click **GO**.

Restore Database Backup Files


To restore all the database backup files:

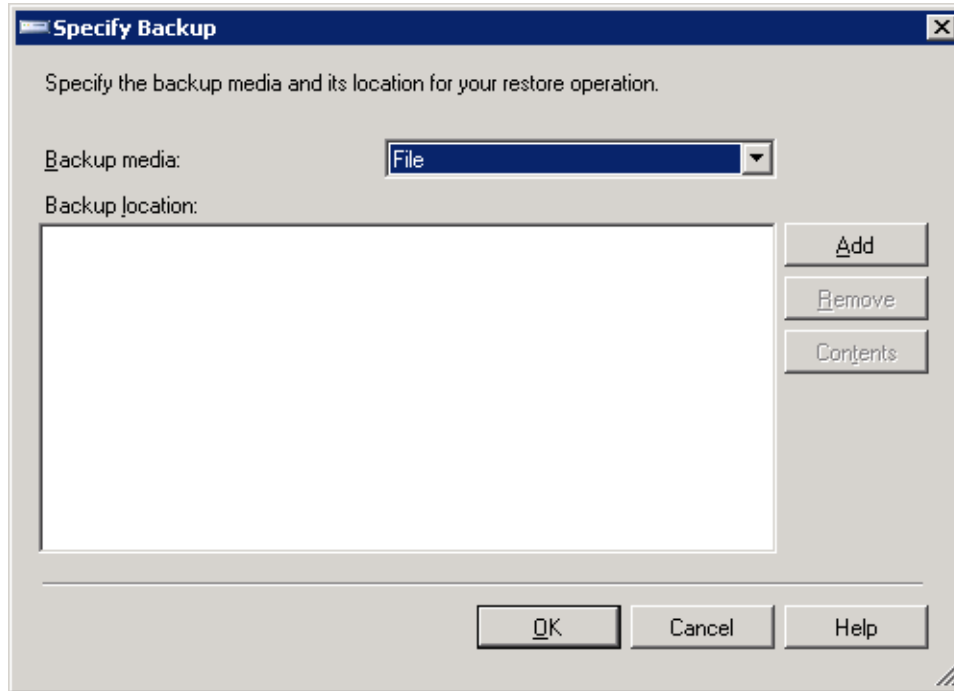
1. Copy all the files in %**WEBHR_FILES%**\SQL**Databases** to the default backup directory for your SQL Server installation.
The default backup directory is at registry key:
**HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL10.MSSQLSERVER\MSSQLServer\BackupDirectory.**
2. Connect to the appropriate instance of your Microsoft SQL Server Database Engine.
In **Object Explorer**, click the server name to expand the server tree.
3. Right-click **Databases** and select **Restore Database....In the To Database.**

4. On Restore Database>General:
 - a. **Destination for restore:** at **To database** type in **ARPA**.
 - b. **Source for restore:** select radio button, **From device**.



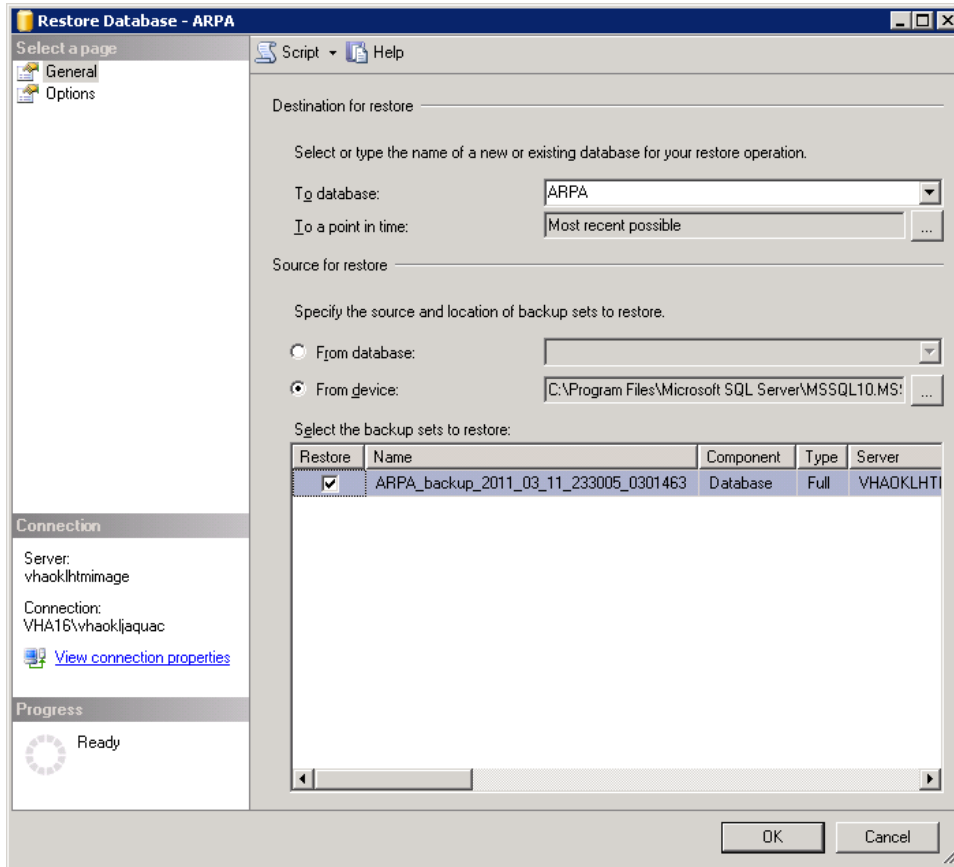
Database Restore>General

5. Click  directly to the right of **From device**.
The Specify Backup window displays.
 - a. On Specify Backup, click **Add**.
 - b. Select the **ARPA** database backup file.
 - c. Click **OK**.
Specify Backup redisplay; click **OK** again.



Database Restore>Specify Backup

6. To start the database restore process:
 - a. In the **Select the backup sets to restore** section, select the **Restore** check box for the item displayed in the text box.
 - b. Click **OK**.



Database Restore>General

7. Repeat steps 3-6 to restore each of the databases listed.
 - a. ErrorHandling
 - b. HR_Administration
 - c. HR_Classification
 - d. HR_EmployeeLabor
 - e. HR_Forms
 - f. HR_Global
 - g. HR_Processing
 - h. HR_Reports
 - i. HR_Staffing
 - j. HR_Workforce
 - k. PAID
 - l. PAID_Reports
 - m. VA_Organizations
 - n. vhalwd

Turn on Database Chaining

Turn on database chaining for each restored database.

1. ALTER DATABASE ARPA SET DB_CHAINING ON
2. ALTER DATABASE ErrorHandling SET DB_CHAINING ON
3. ALTER DATABASE HR_Administration SET DB_CHAINING ON
4. ALTER DATABASE HR_Classification SET DB_CHAINING ON
5. ALTER DATABASE HR_EmployeeLabor SET DB_CHAINING ON
6. ALTER DATABASE HR_Forms SET DB_CHAINING ON
7. ALTER DATABASE HR_Global SET DB_CHAINING ON
8. ALTER DATABASE HR_Processing SET DB_CHAINING ON
9. ALTER DATABASE HR_Reports SET DB_CHAINING ON
10. ALTER DATABASE HR_Staffing SET DB_CHAINING ON
11. ALTER DATABASE HR_Workforce SET DB_CHAINING ON
12. ALTER DATABASE PAID SET DB_CHAINING ON
13. ALTER DATABASE PAID_Reports SET DB_CHAINING ON
14. ALTER DATABASE VA_Organizations SET DB_CHAINING ON
15. ALTER DATABASE VHALWD SET DB_CHAINING ON

Deploy WebHR Reports to the Report Server

Deploy the WebHR reports to the report server:

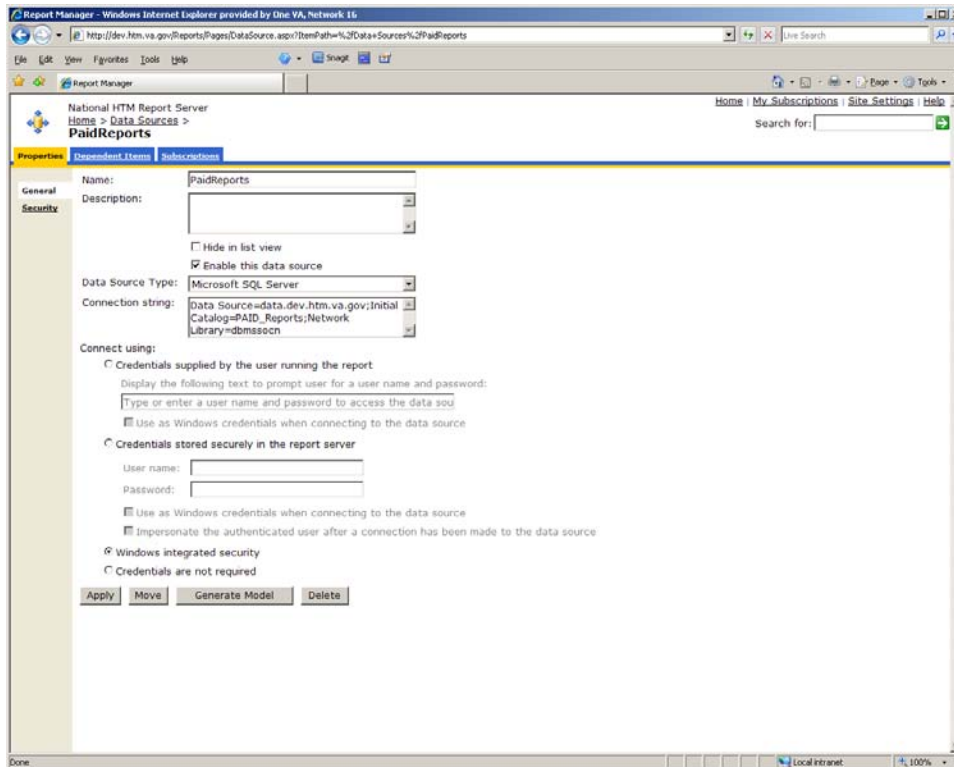
1. Connect to the report server: **http://<servername>/Reports**.
2. Create a directory called **HTMCheckUP**.
3. Assign the Browser role to **vha16\vhaoklvhalwdusers** in the **HTMCheckUP** folder.
4. Upload the WebHR report files in **%WEBHR_FILES%\SQLReports** to the **HTMCheckUP** folder.

5. Create a data source with the following settings and click **Apply**.

- **Name:** PaidReports
Select **Enable this data source**
- **Data Source Type:**
Select **Microsoft SQL Server**
- **Connection string:**

Note: Remove **data.dev.htm.va.gov** and replace with your SQL server name.

- **Connect using:**
 - i. **Data Source= data.dev.htm.va.gov;Initial**
 - ii. **Catalog=PAID_Reports;Network**
 - iii. **Library=dbmssocn**
- **Connect using:**
Select **Windows integrated security**



**Report Manager window
PaidReports example**

6. Assign this data source to each new report you upload to the **HTMCheckUP** folder.

Deploy the WebHR Code

To deploy the WebHR code:

1. Copy the %WEBHR_FILES%\Applications folder to c:\inetpub\Applications.
2. Copy the %WEBHR_FILES%\Services folder to c:\inetpub\Services.

Disable IIS Anonymous Authentication

To disable IIS Anonymous Authentication:

1. Open the Internet Information Services (IIS) Manager.
2. Select the name of your IIS server from the tree on the left.
3. Double-click the **Authentication** icon on the right.
4. Set **Anonymous Authentication** to **Disabled**.

Change Authentication Methods

To allow the changing of authentication methods from **web.config**:

1. Edit c:\windows\system32\inetsrv\config\applicationHost.config
2. Find section: <sectionGroup name="authentication">
3. Modify all items in this section, so **overrideModeDefault** is set to **"Allow"**:

```
<sectionGroup name="authentication">
    <section name="anonymousAuthentication"
overrideModeDefault="Allow" />
    <section name="basicAuthentication"
overrideModeDefault="Allow" />
    <section name="clientCertificateMappingAuthentication"
overrideModeDefault="Allow" />
    <section name="digestAuthentication"
overrideModeDefault="Allow" />
    <section name="iisClientCertificateMappingAuthentication"
overrideModeDefault="Allow" />
    <section name="windowsAuthentication"
overrideModeDefault="Allow" />
</sectionGroup>
```

Modify Default Application Pool

To modify the default application pool:

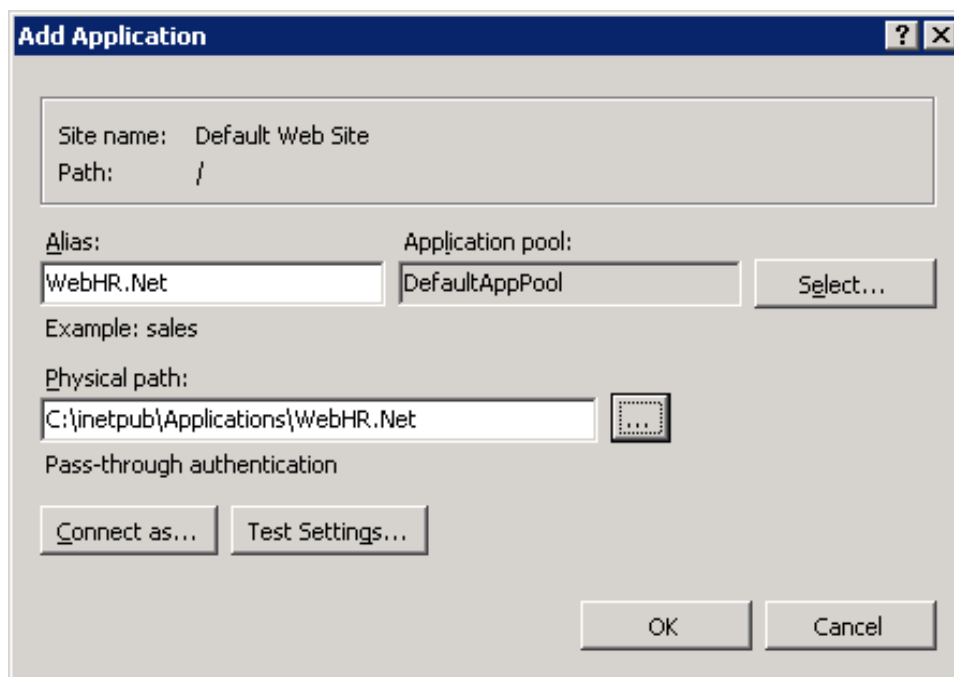
1. In the application pools section, change the **.Net Framework** version of the **DefaultAppPool** to **v4.0**.
2. In IIS Manager, drill down to the **Default Web Site** section.

Add Applications to Pool

Add applications to the default application pool.

For WebHR.Net

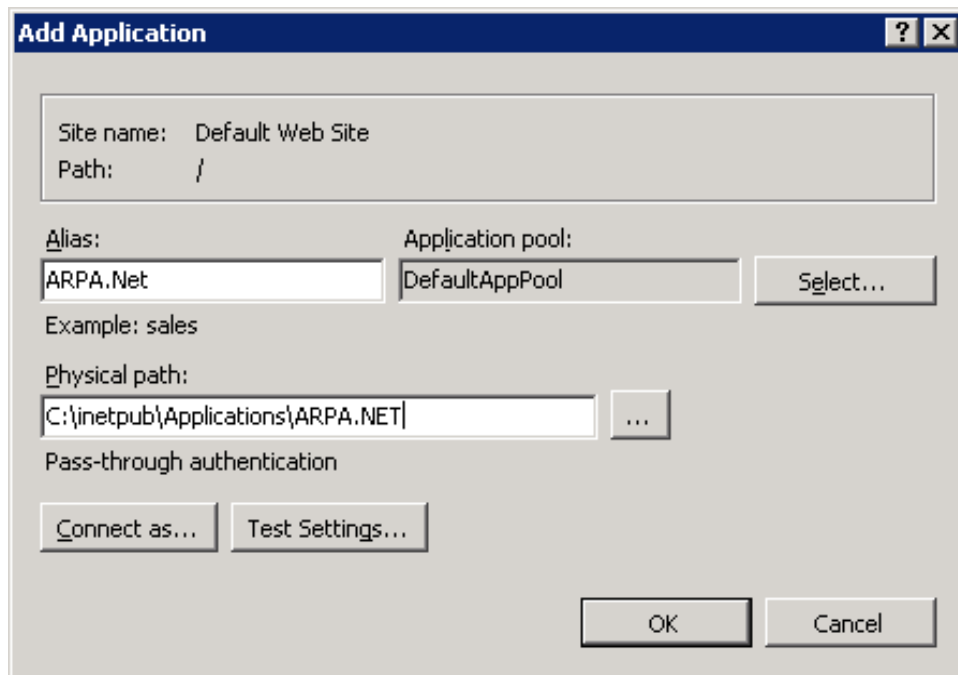
1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **WebHR.Net**
 - Physical path: **C:\inetpub\Application\WebHR.Net**
3. Click **OK**.



**Add Application window
WebHR.Net**

For ARPA.Net

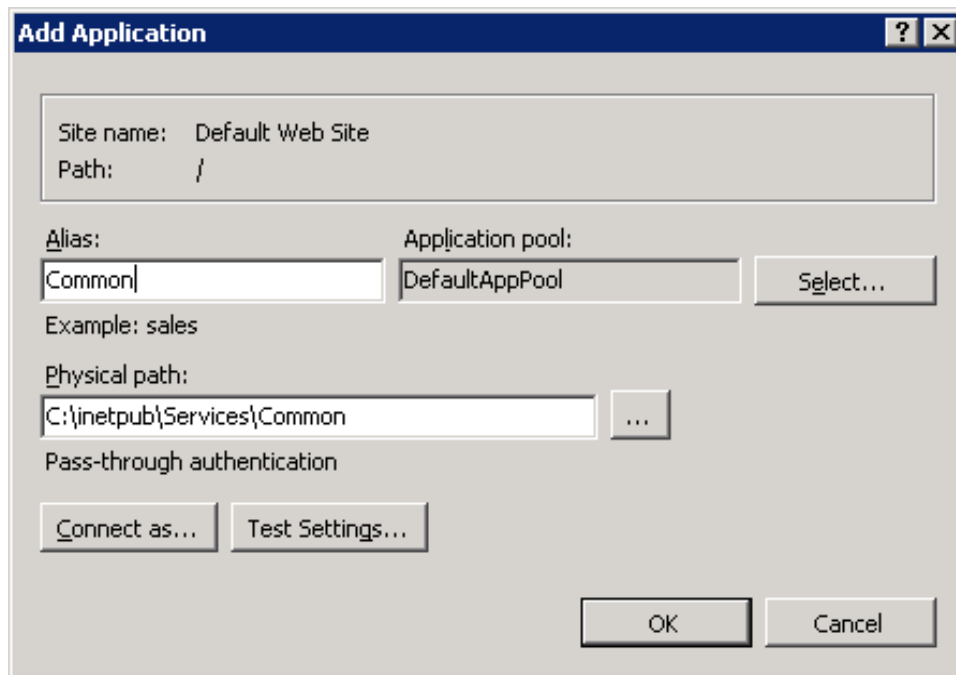
1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **ARPA.Net**
 - Physical path: **C:\inetpub\Applications\ARPA.NET**
3. Click **OK**.



**Add Application window
ARPA.Net**

For Common

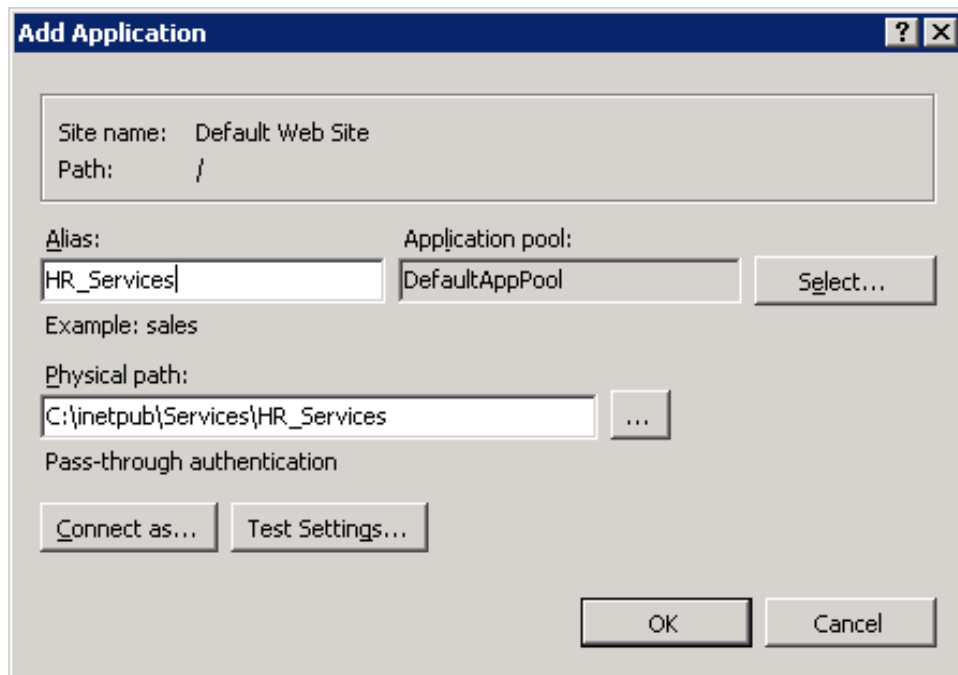
1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **Common**
 - Physical path: **C:\inetpub\Services\Common**
3. Click **OK**.



**Add Application window
Common**

For HR_Services

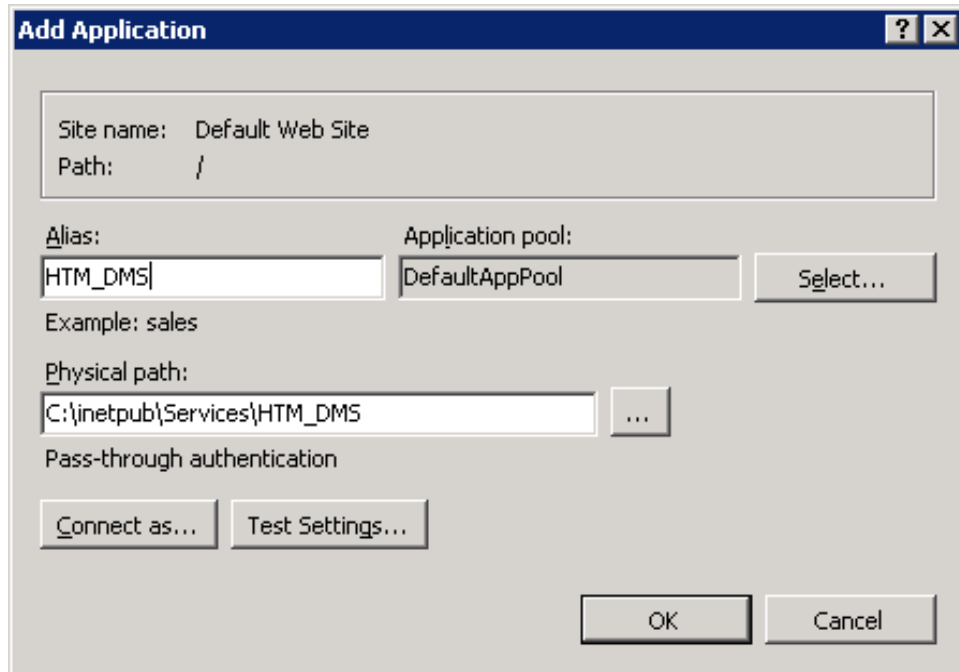
1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **HR_Services**
 - Physical path: **C:\inetpub\Services\HR_Services**
3. Click **OK**.



**Add Application window
HR_Services**

For HTM_DMS

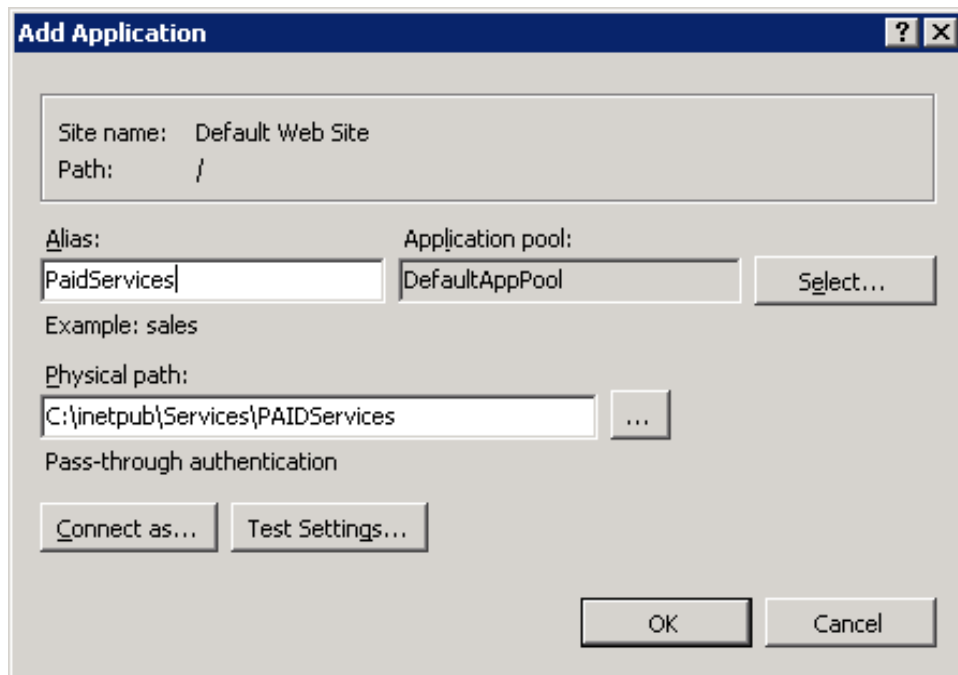
1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **HTM_DMS**
 - Physical path: **C:\inetpub\Services\HTM_DMS**
3. Click **OK**.



**Add Application window
HTN_DMS**

For PaidServices

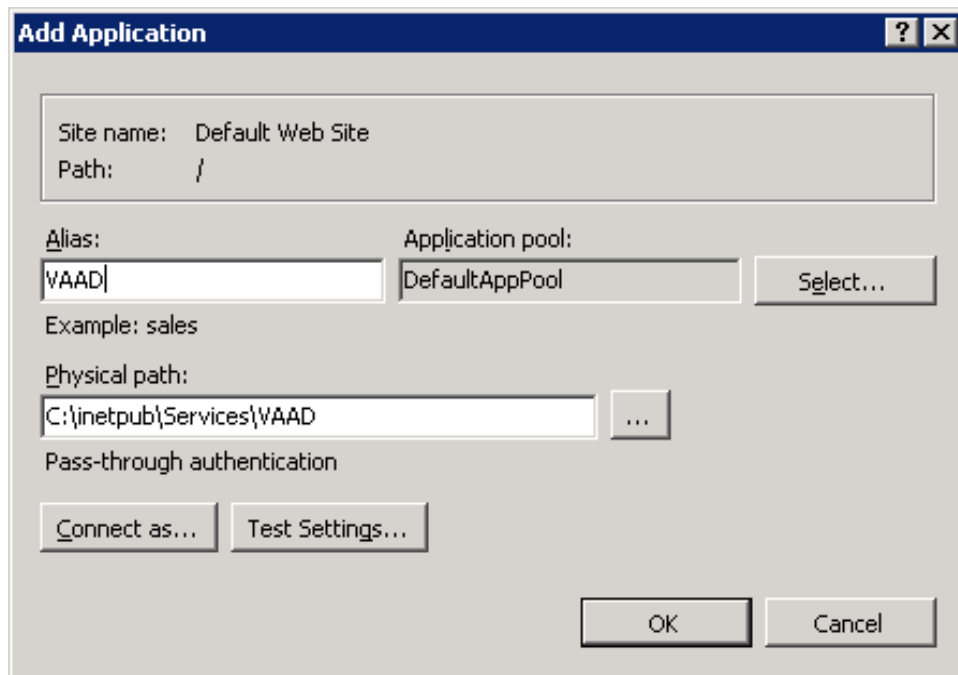
1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **PaidServices**
 - Physical path: **C:\inetpub\Services\PAIDServices**
3. Click **OK**.



**Add Application window
PaidServices**

For VAAD

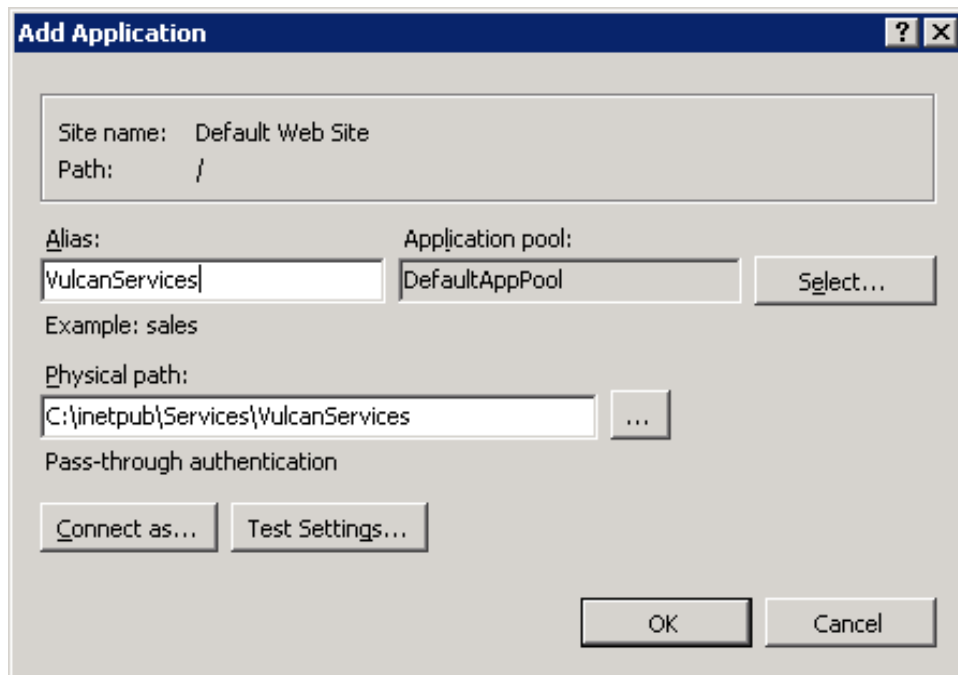
1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **VAAD**
 - Physical path: **C:\inetpub\Services\VAAD**
3. Click **OK**.



**Add Application window
VAAD**

For VulcanServices

1. Right-click **Default Web Site** and select **Add Application**.
2. For **Site name: Default Web Site**, enter the following values.
 - Alias: **VulcanServices**
 - Physical path: **C:\inetpub\Services\VulcanServices**
3. Click **OK**.



**Add Application window
VulcanServices**

Change uploadReadAheadSize

For SSL, change `uploadReadAheadSize`.

1. `cd c:\windows\system32\inetsrv`
2. `appcmd.exe set config-section:system.webServer/serverRuntime /uploadReadAheadSize:"1048576" /commit:apphost`

Change Machine Configuration

If running the server in FIPS mode, change the machine configuration.

1. Edit:
`C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Config\machine.config`
2. Inside the `<system.web>` section, add:

```
<machineKey validationKey="AutoGenerate,IsolateApps"  
decryptionKey="AutoGenerate,IsolateApps" validation="3DES" decryption="3DES" />
```

Test Installation

To test your installation, use the following links to access WebHR:

1. `http[s]://<servername>/WebHR.Net`
2. `http[s]://<servername>/ARPA.Net`

Post-installation Considerations

Updating WebHR

A WebHR update can contain database changes, application build changes, and SQL Server report changes. These changes are deployed and tested on a QA server prior to being placed into Production. A tester is assigned to testing the new version.

Once the new version of WebHR passes the testing processing, the WebHR developer provides the Production deployment team with the database changes, application build changes, and report changes for the new version. The Production deployment team schedules downtime for the changes to be applied to the Production system.

Example

1. The testers notify the Production deployment team that the next version of WebHR has passed QA testing.
2. The WebHR developer informs the Production deployment team:
 - The update affects WebHR.Net, ARPA.Net, and HR_Services
 - About the database changes included in this update
 - About a report file (.rdl) that requires updating on the report server.
3. The WebHR web sites are taken off line.
4. The following directories are backed up on the server:
 - c:\inetpub\Applications\WebHR.Net,
 - c:\inetpub\Applications\ARPA.Net
 - c:\inetpub\Services\HR_Services
5. The contents of the three directories are deleted.
6. The new application build is copied into the three directories.
7. While this is occurring:
 - The DBA applies an SQL script to make the necessary database changes
 - The report file is deployed to the production report server.
8. The web site is brought back on line.

Back-out/Uninstall Procedures

If any problems are encountered during or after an update/installation, the Production deployment team rolls back WebHR to the previous version, using backups that were generated before an update/installation.

Troubleshooting Common Installation Issues

WebHR logs error messages to an ErrorHandling Database in the SQL Database Engine instance.

- Inside the ErrorHandling database, there is a table called **ELMAH_Error**.
- The **ELMAH_Error** table logs the error message, user that received the error message, and the date/time of the error message.

Problem	Cause	Solution
Error: Page cannot be displayed	When running a server in FIPS mode, https: uses TLS 1.0	Enable TLS 1.0 in Internet Explorer 1. Tools->Internet Options->Advanced tab 2. Select TLS 1.0
Username/Password dialog box when accessing WebHR	Integrated security credentials are not passed to WebHR	Add *. va.gov to the Local Intranet Sites in Internet Explorer
	User does not have <i>permission</i> to the WebHR page	Add the user account to the correct WebHR Role
Login fails for user NT AUTHORITY\ANONYMOUS LOGON	WebHR is trying to access an SQL database that does not reside on the same server as the IIS server	Modify the WebHR build, so it connects to the correct SQL database engine server
	The user account is not in the vha16\vhoklvhalwdusers group. Therefore, the group does not have <i>permission</i> to access the database.	In Active Directory, add the user account to the vha16\vhaoklvhalwdusers group
Error: Permission denied when running stored procedures that access tables or stored procedures contained in another database	Database chaining is not turned on for the databases	ALTER DATABASE <DatabaseName> SET DB_CHAINING ON
	The databases you are trying to access have different owners	1. In SQL Management Studio, right-click the Database and select Properties . 2. Go to the Files Section and set the owner of the database to the same owner as the other databases.