Legal Information

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Information about installing AdminStudio Enterprise Server is presented in the following sections:

**Table 1-1 • Installing AdminStudio Enterprise Server**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Requirements</strong></td>
<td>Lists the hardware and software requirements for the components of AdminStudio Enterprise Server.</td>
</tr>
<tr>
<td><strong>Installing AdminStudio Enterprise Server</strong></td>
<td>Explains how to perform installation preparation tasks, and how to install AdminStudio Enterprise Server.</td>
</tr>
<tr>
<td><strong>Configuring AdminStudio Enterprise Server</strong></td>
<td>Performing post-installation configuration tasks, including how to use the AdminStudio Configuration Wizard.</td>
</tr>
</tbody>
</table>
Using Help

Help is available both from the product interface and directly from certain individual interface elements.
When you have questions about this product, first consult the / AdminStudio Enterprise Server Help Library, which is the complete user’s guide for using the product.

Web-Based Online Help
Web-based online help is available to you 24 hours a day, seven days a week, on our Web site at:

http://helpnet.flexerasoftware.com

Documentation as PDF
AdminStudio and documentation is also available as a PDF. Visit the Flexera Software Documentation Center at:

https://flexeracommunity.force.com/customer/CCDocumentation

Contacting Us

Flexera Software is headquartered in Itasca, Illinois, and has offices worldwide. To contact us or to learn more about our products, visit our website at:

http://www.flexerasoftware.com
Before beginning the installation, review the following hardware and software requirements. This information is presented in the following sections:

- System Requirements
- Database Server Permissions
- Installing Internet Information Services (IIS)

System Requirements

This section lists the system requirements for AdminStudio Enterprise Server.

- AdminStudio Enterprise Server
- AdminStudio Database Server
- AdminStudio Enterprise Server End User Computers
AdminStudio Enterprise Server

The following table lists the system requirements for the Web server that hosts AdminStudio Enterprise Server.

**Table 2-1 • AdminStudio Enterprise Server**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>32-bit or 64-bit processor at 2 GHz or greater.</td>
</tr>
<tr>
<td>RAM</td>
<td>4 GB or greater (8 GB preferred)</td>
</tr>
<tr>
<td>Hard Disk Space</td>
<td>100 GB or greater</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows Server 2008 R2 or later / English base language (Windows Server 2012 preferred)</td>
</tr>
<tr>
<td>IIS</td>
<td>IIS 7.0 or later</td>
</tr>
<tr>
<td>.NET Framework</td>
<td>.NET Framework 4.6.1 or later</td>
</tr>
<tr>
<td>ASP.NET</td>
<td>ASP.NET 4.0.30319 or later</td>
</tr>
<tr>
<td>MSXML</td>
<td>MSXML 6.0</td>
</tr>
</tbody>
</table>

*Note*: AdminStudio Enterprise Server runs in 32-bit mode on a 64-bit OS.

MSXML is installed by the AdminStudio Enterprise Server installer.

AdminStudio Database Server

This following table lists the recommended system configuration for an AdminStudio Application Catalog database server.

**Table 2-2 • AdminStudio Database Server**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>32-bit or 64-bit processor at 2 GHz or greater.</td>
</tr>
<tr>
<td>RAM</td>
<td>4 GB or greater (8 GB preferred)</td>
</tr>
<tr>
<td>Hard Disk Space</td>
<td>80 GB or greater</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows Server 2008 R2 or later (Windows Server 2012 preferred)</td>
</tr>
</tbody>
</table>
AdminStudio Enterprise Server End User Computers

This following table lists the recommended system configuration for an AdminStudio Enterprise Server end user machine:

Table 2-3 • AdminStudio Enterprise Server End User Computers

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| Browser   | • Microsoft Internet Explorer 9.0 or later  
            • Chrome for Windows 33.0 or later  
            • Firefox for Windows 25.0 or later  
            • Safari for Mac OS X and iOS |
Database Server Permissions

In order to operate some AdminStudio tools, AdminStudio users require specific database permissions. Depending upon the type of user, you may wish to be more selective in the permissions you assign to these users.

You can assign permissions to individual users using the Role functionality in AdminStudio Enterprise Server, as described in the AdminStudio and Roles and Permissions topic in the online help library. Otherwise, you can provide more selective restrictions at the database server level using the information in the following AdminStudio Database Server Permissions table.

Every AdminStudio user will need at least a minimum read privilege to every table in the Application Catalog. The minimum permissions are described below, based upon the type of operation you want the user to perform.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General User Administrative Process</td>
<td>General administrative processes cover a range of activities such as adding groups, moving packages around, adding comments, updating extending attributes, etc. For example, these tables include cstblPackage, cstblGroups, and cstblGroupPackages. Any Application Catalog table which is not referenced explicitly in the discussion for the other AdminStudio processes should be considered a general user administrative table. Most AdminStudio users should have write access to these tables.</td>
</tr>
</tbody>
</table>
| Import Process | The user importing MSI packages, merge modules, or just about anything will require write access to a significant set of Application Catalog tables depending on the type of import. For example:  
- **MSI package file**—For MSI package file import operations, those Application Catalog tables with a csmsi prefix are populated.  
- **Merge modules**—For merge module import operations, the csmsm prefixed tables are used.  
- **Patches**—For patch import operations, the cspch prefix tables are used.  
- **OS snapshots**—For OS snapshot import operations, the osc prefixed tables are used.  
 Occasionally, the Import process will need to create new tables in the Application Catalog to support the import of custom table data. Either the necessary server privileges need to be given for these users, or the import of custom table data needs to be disabled within the Application Manager Options dialog box. |
| Validation Process | For this process, the user will need to be able to write entries into the cstblValidationResults and cstblValidationConfiguration tables. |
| Dependency Scanning Process | For this process, the user will need to be able to write entries into the cstblPackageExeDependencies table. |
| Conflict Detection and Resolution Process | For this process, the user will need to be able to write entries into the cstblConflict prefixed table names. |
### Table 2-4 • AdminStudio Database Server Permissions (cont.)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patch Impact Analysis</strong></td>
<td>For this process, the user will need to be able to write entries into the <code>cstblPatchConflict</code> prefixed table names. This process will create and delete some temporary tables and, as such, the user performing this process should have the necessary server privileges to perform these operations.</td>
</tr>
<tr>
<td><strong>Package Auto Import</strong></td>
<td>The Package Auto Import process will ultimately generate a series of Import operations, and so the user performing these operations should have the Import process rights described above. If the user wants to edit these operations in the Wizard, then they will need write accession to the <code>cstblSubscribed</code> prefixed tables.</td>
</tr>
<tr>
<td><strong>Workflow Operations</strong></td>
<td>For this process, the user will need to be able to write entries into the <code>wftbl</code> prefixed table names.</td>
</tr>
<tr>
<td><strong>Tools Properties</strong></td>
<td>For this process, the user will need to be able to write entries into the <code>wftblTools</code> table name.</td>
</tr>
<tr>
<td><strong>Job Manager Process</strong></td>
<td>For this process, the user will need to be able to write entries into the <code>As</code> prefixed table names.</td>
</tr>
<tr>
<td><strong>Pre-Deployment Testing</strong></td>
<td>For this process, the user will need to be able to write entries into the <code>pdt</code> prefixed table names.</td>
</tr>
</tbody>
</table>

**Note** • A number of processes within AdminStudio generate data which can subsequently be deleted by the AdminStudio user. Any discussion of the minimum privileges required for a specific AdminStudio process will also imply the privileges to delete this same data.
Installing Internet Information Services (IIS)

Internet Information Services (IIS) Version 7 or later is required to be installed on the machine on which you are installing AdminStudio Enterprise Server.

For instructions on how to install IIS, see the following information on the Microsoft web site:

- **Installing IIS 7 on Windows Server 2008 or Windows Server 2008 R2**
  [http://www.iis.net/learn/install/installing-iis-7/installing-iis-7-and-above-on-windows-server-2008-or-windows-server-2008-r2](http://www.iis.net/learn/install/installing-iis-7/installing-iis-7-and-above-on-windows-server-2008-or-windows-server-2008-r2)

- **Installing IIS 8 on Windows Server 2012**
Installing AdminStudio Enterprise Server

This chapter explains how to install AdminStudio Enterprise Server, and also how to use scripts to either create or upgrade an existing database.

- Preparing to Install
- Running the AdminStudio Enterprise Server Installer
- Using Scripts to Create or Update an AdminStudio Database

**Tip** • *For a complete list of known issues that pertain to the AdminStudio, see the AdminStudio Support Knowledge Base.*

Preparing to Install

Before running the AdminStudio Enterprise Server installation, perform these tasks:

- Checking System Requirements
- Obtaining Your License File
- Gathering Required Information
- Enabling Roles and Features in Windows Server 2012
Checking System Requirements

AdminStudio Enterprise Server components should be installed on a dedicated server. To perform a successful installation, check the System Requirements to make sure that the following requirements have been met:

**Table 3-1 • System Requirements Summary**

<table>
<thead>
<tr>
<th>Item</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database Server</td>
<td>Make sure that you have an SQL Server which meets the requirements listed in AdminStudio Database Server. Check that this SQL Server is running properly by launching the Enterprise Manager and connecting to the server.</td>
</tr>
<tr>
<td>Database Server Account</td>
<td>Make sure you have a database owner account ID and password for the SQL Server that you are installing the AdminStudio Enterprise Server database on.</td>
</tr>
<tr>
<td>AdminStudio Enterprise Server</td>
<td>The machine on which you will be installing AdminStudio Enterprise Server must meet the hardware and software requirements specified in AdminStudio Enterprise Server.</td>
</tr>
<tr>
<td>Internet Information Services (IIS)</td>
<td>Internet Information Services (IIS) must be installed on the machine on which you will be installing AdminStudio Enterprise Server before you will be permitted to run the installation. See Installing Internet Information Services (IIS).</td>
</tr>
<tr>
<td>.NET Framework</td>
<td>The .NET framework is required to be installed on the machine on which you will be installing AdminStudio Enterprise Server. However, if the .NET framework has not yet been installed on that machine, it will be installed as part of the installation.</td>
</tr>
<tr>
<td>Domain Account</td>
<td>The Domain Account is used for uploading and downloading files and for sending emails. Any operation that needs higher privileges is performed by impersonating the Domain Account. You can set the name of this Domain Account or specify an existing user as the Domain Account on the Logon Information Panel.</td>
</tr>
</tbody>
</table>
Obtaining Your License File

AdminStudio Enterprise Server is activated by uploading a license file using the AdminStudio Configuration Wizard. When that license expires, or if you purchase additional functionality, you will need to upload an updated license file.

- Obtaining Your License File
- Uploading a License File Using the AdminStudio Configuration Wizard

Obtaining Your License File

License files are attached to your order confirmation email that you received from Flexera Software Orders Department. You can also obtain your license file from the Flexera Software Product and License Center. To obtain your AdminStudio Enterprise Server license file, perform the following steps:

<table>
<thead>
<tr>
<th>Task</th>
<th>To obtain a AdminStudio Enterprise Server license file:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Log on to the Flexera Software Product and License Center:</td>
</tr>
<tr>
<td></td>
<td><a href="https://flexerasoftware.flexnetoperations.com">https://flexerasoftware.flexnetoperations.com</a></td>
</tr>
<tr>
<td>2.</td>
<td>In the left navigation, under Entitlements, click Product List.</td>
</tr>
<tr>
<td></td>
<td>- If you have access to multiple products, the Product List page opens and lists all of the product lines to which your account is entitled. Click the AdminStudio Enterprise Server link to proceed to the Product Information page.</td>
</tr>
<tr>
<td></td>
<td>- If you do not have access to multiple products, clicking the Product List link opens the Product Information page directly.</td>
</tr>
<tr>
<td>3.</td>
<td>In the Product and File Downloads column, click the AdminStudio Enterprise Server link for the version that you want to download a license file for. The Product Download page opens.</td>
</tr>
<tr>
<td>4.</td>
<td>Open the Licenses tab.</td>
</tr>
<tr>
<td>5.</td>
<td>Click the download button next to the license file.</td>
</tr>
</tbody>
</table>

Uploading a License File Using the AdminStudio Configuration Wizard

After installation, the AdminStudio Configuration Wizard automatically opens and you are prompted to upload a license file. Until you upload the license file, you will be unable to open the AdminStudio Enterprise Server website. Also, when you license file is nearing its expiration date, you will need to use the AdminStudio Configuration Wizard to upload an updated license file. For instructions, see Configuring Using the AdminStudio Configuration Wizard.
Gathering Required Information

To complete the installation of AdminStudio Enterprise Server, you will need the following information. Please print this page and fill in the blanks below for use during the setup. You may need to consult with your network administrator to determine some of this information. Details on this information can be found on the following pages.

Enter the following information specific to the SQL Server database that you are going to use for the AdminStudio Enterprise Server.

**Table 3-2 • SQL Server Database Information**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SQL Server Name:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>SQL Database Name:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Database Owner User ID and Password for this SQL Database:</strong></td>
<td></td>
</tr>
</tbody>
</table>
Enabling Roles and Features in Windows Server 2012

If you are installing AdminStudio Enterprise Server on Windows Server 2012, it is recommended that you perform the following steps to enable roles and features.

To enable roles and features in Windows Server 2012:

1. Open the Windows Server 2012 Server Manager.
2. Open the **Add Roles and Features** wizard.
3. Select **Server Roles** in the tree. A list of roles is displayed.
4. Under **Server Roles**, expand **Web Server (IIS)** > **Web Server**, and select all of the roles in the following subsections (except where noted):
   - Application Development
   - Security
   - Performance
   - Health and Diagnostics (select all subroles except ODBC Logging)
   - Common HTTP Features (select all subroles except WebDAV Publishing)
5. Select **Features** in the tree. A list of features is displayed.

6. Under **Features**, select the following features:

   - **.NET Framework 3.5 Features**
     - **.NET Framework 3.5 (includes .NET 2.0 and 3.0)**
     - **HTTP Activation**
   - **.NET Framework 4.5 Features**
     - **.NET Framework 4.5**
     - **ASP.NET 4.5**
     - **WCF Services** (select all subfeatures except **Message Queuing (MSMQ Activation)**)
   - **Background Intelligent Transfer Service**
   - **IIS Server Extension**
   - **Compact Server**
   - **SMB 1.0/CIFS File Sharing Support**
   - **Windows Process Activation Service**
   - **Remote Server Administration Tools > Feature Administration Tools > BITS Server Extensions Tools**
   - **WoW64 Support**
Running the AdminStudio Enterprise Server Installer

This section explains how to run the AdminStudio Enterprise Server installation, how to configure it, and how to launch AdminStudio Enterprise Server after installation is complete.

Note • AdminStudio Enterprise Server 2016 can be installed side-by-side an earlier version of AdminStudio Enterprise Server. If you already have AdminStudio Enterprise Server installed, the AdminStudio Enterprise Server 2016 installer will install the application to the next available port.

To install AdminStudio Enterprise Server, perform the following steps.

Task

To install AdminStudio Enterprise Server:

1. Launch the installation program. The Welcome panel opens.

Note • If you are installing AdminStudio Enterprise Server on a Windows Server 2012 R2 x64 machine and you have not already installed Windows Update for Microsoft KB2919355, you will first see a panel that prompts you to make sure that your machine is up-to-date on all Windows updates before proceeding.
Chapter 3  Installing AdminStudio Enterprise Server
Running the AdminStudio Enterprise Server Installer

**Note** • If installing from a compressed version of the installation software, you may be prompted for a password when you attempt to extract the installation program. This password can be found in the Order Confirmation email you received when you purchased this product.

**Note** • If not already installed, before the **Welcome** panel opens, you will be first prompted to install MSXML, Microsoft .NET Framework Component, and Microsoft ReportViewer.

2. Click **Next**. The **License Agreement** panel opens.
3. Select the **I accept the terms of the license agreement** option and click **Install**. The **Custom Setup** panel opens.

4. Select **Application Website** and click **Next**. The **Destination Folder** panel opens.
5. If you want to change the default installation directory of AdminStudio Enterprise Server, click the Change button and select a different directory.

**Important** • It is recommended that you do not install AdminStudio Enterprise Server in the Program Files or Program Files (x86) directory.

6. Click Install. The Installing AdminStudio Enterprise Server panel opens.

![Installing AdminStudio Enterprise Server](image)

**Note** • A reboot may be required during installation.

When installation is complete, InstallShield Wizard Completed is displayed.

7. Click Finish to close the installer and launch the AdminStudio Configuration Wizard.

8. Continue with the steps in Configuring Using the AdminStudio Configuration Wizard.
Using Scripts to Create or Update an AdminStudio Database

Because of security concerns, some database administrators may be hesitant to grant to AdminStudio users the database rights necessary to create or upgrade an Application Catalog database using SQL Server. Consequently, the database administrator must manually create or upgrade the database using scripts and provide the necessary read and write access for users to that database.

AdminStudio is shipped with database creation and upgrade SQL scripts to make it easy for database administrators to manually create or upgrade AdminStudio databases.

- Using Scripts to Create the AdminStudio Database
- Using Scripts to Upgrade Existing AdminStudio Tables
Using Scripts to Create the AdminStudio Database

You can choose to create the AdminStudio Enterprise Server Application Catalog database as part of the main installation, or you can choose to create an SQL Server database manually using scripts.

Scripts to Run

When creating an AdminStudio database using scripts, you need to execute both standard scripts and scripts for plug-ins:

- **Standard Scripts**
- **Plug-In Scripts**

**Standard Scripts**

AdminStudio is shipped with the following database creation SQL scripts:

<table>
<thead>
<tr>
<th>Table 3-3 • Scripts to Create AdminStudio Databases on SQL Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS_System_Schema.SQL</td>
</tr>
<tr>
<td>WFM_System_Data.SQL</td>
</tr>
<tr>
<td>AMSCreateIndex.SQL</td>
</tr>
<tr>
<td>WFM_SampleTemplates.SQL</td>
</tr>
<tr>
<td>AS_System_Schema.SQL</td>
</tr>
<tr>
<td>AS_ApplicationModel.SQL</td>
</tr>
<tr>
<td>OsSecurityPatch.SQL</td>
</tr>
<tr>
<td>MergeModule.SQL</td>
</tr>
<tr>
<td>PredeploymentTest.SQL</td>
</tr>
<tr>
<td>SystemManagementServer.sql</td>
</tr>
<tr>
<td>WFM_JobManager.SQL</td>
</tr>
<tr>
<td>AS_TestCenter_Schema.SQL</td>
</tr>
<tr>
<td>Seed_Data.SQL</td>
</tr>
<tr>
<td>AS_ApplicationModelSeedData.SQL</td>
</tr>
<tr>
<td>AS_TestCenter_SeedsData.SQL</td>
</tr>
<tr>
<td>CustomReportWizard.SQL</td>
</tr>
<tr>
<td>AS_StoredProcedures.SQL</td>
</tr>
<tr>
<td>VirtualizationReadiness.SQL</td>
</tr>
<tr>
<td>AS_UI_Support.sql</td>
</tr>
<tr>
<td>GroupPackageTree.SQL</td>
</tr>
<tr>
<td>AS_TestCenter_StoredProcedures.SQL</td>
</tr>
<tr>
<td>Reporting.StoredProcedures.SQL</td>
</tr>
<tr>
<td>ApplicationExtendedAttributes.SQL</td>
</tr>
<tr>
<td>MobileTables.sql</td>
</tr>
<tr>
<td>MobileProgrammability.sql</td>
</tr>
<tr>
<td>MobileSeedData.sql</td>
</tr>
<tr>
<td>DAR_Schema.sql</td>
</tr>
<tr>
<td>AS_ShimDB_Schema.sql</td>
</tr>
<tr>
<td>AS_ShimDB_SeedsData.sql</td>
</tr>
</tbody>
</table>
The scripts that you can use to create databases can be found in subdirectory called **SQL_Scripts** in the following locations:

**Table 3-4 • Location of Database Creation Scripts**

<table>
<thead>
<tr>
<th>Installation</th>
<th>Default Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdminStudio Client Tools</td>
<td>[AdminStudioInstallDirectory]\Support\SQL_Scripts</td>
</tr>
<tr>
<td>AdminStudio Enterprise Server</td>
<td>C:\AdminStudioWebComponents_2016\Support\SQL_Scripts</td>
</tr>
</tbody>
</table>

**Note** • You can also find the list of the standard scripts that you are required to run to create a new database in the following nodes of the **upgrade.xml** file (in the AdminStudio **Support** folder):

//AdminStudioUpgrade/WorkflowManager/Create/SQLServer
//AdminStudioUpgrade/AdminStudio/Create/SQLServer

**Plug-In Scripts**

In addition to the standard scripts, you also need to run all of the SQL script files for plug-ins, which are found in the following directories:

**Table 3-5 • Location of Plug-in Scripts**

<table>
<thead>
<tr>
<th>Installation</th>
<th>Default Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdminStudio Client Tools</td>
<td>[AdminStudioInstallDirectory]\Common\Plugins</td>
</tr>
<tr>
<td>AdminStudio Enterprise Server</td>
<td>C:\WorkflowManager\Support\SQL_Scripts</td>
</tr>
</tbody>
</table>

Because AdminStudio provides extensible plug-in functionality, the list of SQL scripts in this directory is not fixed. However, the following table lists the plug-in scripts that are shipped with the product:

**Table 3-6 • Plug-In Scripts**

AirWatch.sql  
Altiris.sql  
ApkDeepLink.sql  
AppV.sql  
AppV5Conversion.sql  
AppvServer.sql  
AutomatedApplicationConverter.sql  
Casper.sql  
IpaDeepLink.sql  
Msi.sql  
WebDeploy.sql  
XenApp.sql  
Xpf.sql
Important • The order in which these scripts are run is not important; however, they must be run after the set of scripts listed in Standard Scripts.

Creating an Application Catalog Using Scripts

To create an AdminStudio Application Catalog database on SQL Server, perform the following steps:

Task

1. Log on to your SQL Server.
2. Launch the Enterprise Manager and Query Analyzer.
3. In Query Analyzer, execute a CREATE DATABASE command to create and identify the new Application Catalog database.
4. Select the newly created database in Query Analyzer.
5. Execute the following scripts in this order:

   AMS_System_Schema.SQL
   WFM_System_Data.SQL
   AMSCreateIndex.SQL
   WFM_SampleTemplates.SQL
   AS_System_Schema.SQL
   AS_ApplicationModel.SQL
   OsSecurityPatch.SQL
   MergeModule.SQL
   PredeploymentTest.SQL
   SystemManagementServer.sql
   WFM_JobManager.SQL
   AS_TestCenter_Schema.SQL
   Seed_Data.SQL
   AS_ApplicationModelSeedData.SQL
   AS_TestCenter_SeedData.SQL
   CustomReportWizard.SQL
   AS_StoredProcedures.SQL
   VirtualizationReadiness.SQL
   AS_UI_Support.sql
   GroupPackageTree.SQL
   AS_TestCenter_StoredProcedures.SQL
   Reporting_StoredProcedures.SQL
   ApplicationExtendedAttributes.SQL
   MobileTables.sql
   MobileProgrammability.sql
   MobileSeedData.sql
   DAR_Schema.sql
   AS_ShimDB_Schema.sql
   AS_ShimDB_SeedData.sql
Chapter 3 Installing AdminStudio Enterprise Server
Using Scripts to Create or Update an AdminStudio Database

6. Execute all of the SQL Plug-In Scripts. By default, the following plug-in scripts are shipped with the product:

AirWatch.sql
Altiris.sql
ApkDeepLink.sql
AppV.sql
AppV5Conversion.sql
AppvServer.sql
AutomatedApplicationConverter.sql
Casper.sql
IpaDeepLink.sql
Msi.sql
WebDeploy.sql
XenApp.sql
Xpf.sql

Note • Running these scripts will create an Application Catalog that is compatible with AdminStudio 2016.

Using Scripts to Upgrade Existing AdminStudio Tables

Before running the setup, if you created the database manually in a previous release, perform these steps to upgrade the database to the existing AdminStudio tables.

Note • It is recommended that you use the AdminStudio Configuration Wizard to upgrade your database. However, if you created it manually in a previous release, and want to continue to do so, perform these steps.

Important • This is an advanced method of upgrading a database which requires running scripts manually on a database server.

Task To upgrade an existing Application Catalog database:

1. Open the CSSYSSCHEMAINFO table of your existing Application Catalog database, and locate the record with the highest SchemaVersion value. This is the SchemaVersion that you are upgrading from.

2. Locate the same SchemaVersion number in the table below, and note the corresponding Product Version number.

3. Run all of the scripts listed in the Scripts to Run column for that Product Version, in order.
4. Next, run all of the scripts listed in the **Scripts to Run** column for subsequent product versions. If a script listed in a subsequent product version has already been run, it does not need to be run again.

For example, if you are upgrading from **SchemaVersion** 13286609, first run all of the scripts in the **14.0** row of the table, and then run all of the scripts in the **14.01** row of the table that have not already been run.

<table>
<thead>
<tr>
<th>Product Version (SchemaVersion) Upgrading From</th>
<th>Product Version Upgrading To</th>
<th>Scripts to Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.00 (13286602)</td>
<td>12.01</td>
<td>1201Upgrade.sql</td>
</tr>
<tr>
<td>12.01 (13286603)</td>
<td>12.02</td>
<td>DarwinFixes.sql, 1202Upgrade.sql, 1202UpgradeWFM.sql, 1202UpgradeWFMEmailTemplate1.sql, 1202UpgradeWFMEmailTemplate2.sql</td>
</tr>
<tr>
<td>12.02 (13286605)</td>
<td>13.00</td>
<td>AS_System_Schema.sql, AS_ApplicationModel.sql, OsSecurityPatch.sql, MergeModule.sql, PredeploymentTest.sql, SystemManagementServer.sql, WFM_JobManager.sql, AS_TestCenter_Schema.sql, CustomReportWizard.sql, AS_StoredProcedures.sql, VirtualizationReadiness.sql, GroupPackageTree.sql, AS_TestCenter_StoredProcedures.sql, Reporting.StoredProcedures.sql, ApplicationExtendedAttributes.sql, MobileTables.sql, MobileProgrammability.sql, 1300Upgrade.sql, MobileSeedDataEUCLID.sql, 1301UpgradeWFM.sql, 1302UpgradeWFM.SQL</td>
</tr>
</tbody>
</table>

You also need to run any SQL scripts that are found in the **Common\Plugins** directory. The following plug-in scripts are shipped with the product:

- AirWatch.sql
- Altiris.sql
- AppV.sql
- AppvServer.sql
- Msi.sql
- XenApp.sql
- Xpf.sql
Using Scripts to Create or Update an AdminStudio Database

<table>
<thead>
<tr>
<th>Product Version (SchemaVersion) Upgrading From</th>
<th>Product Version Upgrading To</th>
<th>Scripts to Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.00 (13286607)</td>
<td>14.00</td>
<td>AS_System_Schema.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AS_ApplicationModel.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OsSecurityPatch.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MergeModule.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PredeploymentTest.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SystemManagementServer.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WFM_JobManager.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AS_TestCenter_Schema.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CustomReportWizard.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AS_StoredProcedures.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VirtualizationReadiness.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AS_UI_Support.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GroupPackageTree.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AS_TestCenter_StoredProcedures.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reporting.StoredProcedures.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ApplicationExtendedAttributes.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MobileTables.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MobileProgrammability.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1400Upgrade.sql</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DARSchemaUpdate.sql</td>
</tr>
</tbody>
</table>

You also need to run any SQL scripts that are found in the **Common\Plugins** directory. The following plug-in scripts are shipped with the product:

- AirWatch.sql
- Altiris.sql
- AppV.sql
- AppvServer.sql
- Msi.sql
- XenApp.sql
- Xpf.sql
Using Scripts to Create or Update an AdminStudio Database

<table>
<thead>
<tr>
<th>Product Version (SchemaVersion)</th>
<th>Product Version Upgrading To</th>
<th>Scripts to Run</th>
</tr>
</thead>
</table>
| 14.0 (13286609)                 | 14.01                       | AS_System_Schema.sql
|                                 |                             | AS_ApplicationModel.sql
|                                 |                             | OsSecurityPatch.sql
|                                 |                             | MergeModule.sql
|                                 |                             | PredeploymentTest.sql
|                                 |                             | SystemManagementServer.sql
|                                 |                             | WFM_JobManager.sql
|                                 |                             | AS_TestCenter_Schema.sql
|                                 |                             | CustomReportWizard.sql
|                                 |                             | AS_StoredProcedures.sql
|                                 |                             | VirtualizationReadiness.sql
|                                 |                             | AS_UI_Support.sql
|                                 |                             | GroupPackageTree.sql
|                                 |                             | AS_TestCenter_StoredProcedures.sql
|                                 |                             | Reporting.StoredProcedures.sql
|                                 |                             | ApplicationExtendedAttributes.sql
|                                 |                             | MobileTables.sql
|                                 |                             | MobileProgrammability.sql
|                                 |                             | AS_ShimDB_Schema.sql
|                                 |                             | AS_ShimDB_SeedData.sql
|                                 |                             | 1401Upgrade.sql
|                                 |                             | 1401UpgradeWFM.sql
|                                 |                             | 1401UpgradeAIR.sql
|                                 |                             | 1401UpgradeAIRProjectData.sql

You also need to run any SQL scripts that are found in the `Common\Plugins` directory. The following plug-in scripts are shipped with the product:

- AirWatch.sql
- Altiris.sql
- AppV.sql
- AppvServer.sql
- Msi.sql
- WebDeploy.sql
- XenApp.sql
- Xpf.sql
### Chapter 3 Installing AdminStudio Enterprise Server

#### Using Scripts to Create or Update an AdminStudio Database

**Note** • All of the information in this table can be found in the *Upgrade.xml* file, which is installed in the *Support* subdirectory of the AdminStudio installation directory. This file also includes information on upgrading from versions prior to version 12.0 (AdminStudio 2013).

<table>
<thead>
<tr>
<th>Product Version (SchemaVersion)</th>
<th>Upgrading From</th>
<th>Product Version</th>
<th>Upgrading To</th>
<th>Scripts to Run</th>
</tr>
</thead>
</table>
| 14.01 (13286611)                |                | 15.00           |              | AS_System_Schema.sql  
|                                 |                |                 |              | AS_ApplicationModel.sql  
|                                 |                |                 |              | OsSecurityPatch.sql  
|                                 |                |                 |              | MergeModule.sql  
|                                 |                |                 |              | PredeploymentTest.sql  
|                                 |                |                 |              | SystemManagementServer.sql  
|                                 |                |                 |              | WFM_JobManager.sql  
|                                 |                |                 |              | AS_TestCenter_Schema.sql  
|                                 |                |                 |              | CustomReportWizard.sql  
|                                 |                |                 |              | AS_StoredProcedures.sql  
|                                 |                |                 |              | VirtualizationReadiness.sql  
|                                 |                |                 |              | AS_UI_Support.sql  
|                                 |                |                 |              | GroupPackageTree.sql  
|                                 |                |                 |              | AS_TestCenter_StoredProcedures.sql  
|                                 |                |                 |              | Reporting.StoredProcedures.sql  
|                                 |                |                 |              | ApplicationExtendedAttributes.sql  
|                                 |                |                 |              | MobileTables.sql  
|                                 |                |                 |              | MobileProgrammability.sql  
|                                 |                |                 |              | 1500Upgrade.sql  
|                                 |                |                 |              | 1500UpgradeWFM.sql  
|                                 |                |                 |              | 1500UpgradeAIR.sql  

You also need to run any SQL scripts that are found in the *Common\Plugins* directory. The following plug-in scripts are shipped with the product:

- AirWatch.sql
- Altiris.sql
- ApkDeepLink.sql
- AppV.sql
- AppV5Conversion.sql
- AppvServer.sql
- AutomatedApplicationConverter.sql
- Casper.sql
- IpaDeepLink.sql
- Msi.sql
- WebDeploy.sql
- XenApp.sql
- Xpf.sql
Configuring AdminStudio Enterprise Server

This chapter explains how to perform post-installation AdminStudio Enterprise Server configuration.

- Configuring Using the AdminStudio Configuration Wizard
- Launching AdminStudio Enterprise Server

Tip • For a complete list of known issues that pertain to the AdminStudio Enterprise Server, see the AdminStudio Support Knowledge Base.

Configuring Using the AdminStudio Configuration Wizard

The AdminStudio Configuration Wizard automatically opens after you close the installer and prompts you to set AdminStudio Enterprise Server’s mandatory configuration settings: SQL Server database information, default connection, and location of your license file.

You can also open the AdminStudio Configuration Wizard at any time to update mandatory configuration settings, connect to the Flexera Service Gateway or set optional advanced configuration settings.

- Specifying Mandatory Configuration Settings
- Setting Advanced Configuration Settings
Specifying Mandatory Configuration Settings

After running the installer, as described in Running the AdminStudio Enterprise Server Installer, the AdminStudio Configuration Wizard automatically opens. You will be prompted to enter the information described in Gathering Required Information, and you will be prompted to upload the license file that was attached to your email from Flexera Software Orders.

Note • You are required to specify these mandatory settings immediately after installation. You can also update these settings at any time by launching the AdminStudio Configuration Wizard manually and selecting Create/update AdminStudio database and/or Activate AdminStudio license on the Welcome panel of the wizard. To manually launch the AdminStudio Configuration Wizard, open the following file:

C:\AdminStudioWebComponents_2015\Support\Config\Config.exe

Task To specify settings in the AdminStudio Configuration Wizard:

1. When installation is complete, the AdminStudio Configuration Utility will automatically launch. The Create or Update an AdminStudio database panel opens.
2. On the **Create or Update an AdminStudio Database** panel, you are prompted to enter the database server and database name of the database where you will be storing your AdminStudio Enterprise Server data, and login the credentials to that database. Enter the following information:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option</td>
<td>Select one of the following options:</td>
</tr>
<tr>
<td></td>
<td>• Create a new database</td>
</tr>
<tr>
<td></td>
<td>• Update/connect to an existing or AdminStudio database</td>
</tr>
<tr>
<td>Server</td>
<td>Either select a server from the list of available SQL Servers on the network, or manually enter the name of the SQL Server to which you want to connect.</td>
</tr>
<tr>
<td>Authentication</td>
<td>Select one of the following options:</td>
</tr>
<tr>
<td></td>
<td>• Windows Authentication—Choose to use Windows network authentication (your network login ID) to log into this database.</td>
</tr>
<tr>
<td></td>
<td>• Server Authentication—Choose to use SQL Server login identification for authentication. If you choose this option, you need to also enter the appropriate User ID and Password.</td>
</tr>
<tr>
<td>Database</td>
<td>If creating a new database, enter its name. If connecting to an existing database, enter its name or select the database name from the list.</td>
</tr>
</tbody>
</table>

3. Click **Next**. The **Set Default Connection** panel opens, prompting you to enter the default connection information for web site users.
4. Do one of the following based upon the Authentication selection you made on the previous panel:

- **Windows Authentication**—Enter the **User ID** and **Password** that the Web Sites Application Pool will run as in order to access the database.

- **SQL Server Authentication**—Confirm that the **User ID** and **Password** that you entered in the previous panel are displayed here.

5. Click **Next**. The **Configuration Settings: Administrative** panel opens.

![Configuration Settings: Administrative panel](image)

6. Specify the following settings:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rollback keep condition</td>
<td>![Rollback keep condition icon]</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> • N/A for AdminStudio Enterprise Server</td>
</tr>
<tr>
<td>Disable step-level SLA</td>
<td>![Disable step-level SLA icon]</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> • N/A for AdminStudio Enterprise Server</td>
</tr>
<tr>
<td>Show performance parameters</td>
<td>![Show performance parameters icon]</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong> • N/A for AdminStudio Enterprise Server</td>
</tr>
<tr>
<td>Login page timeout value</td>
<td>Identifies the length of time that you can leave the login page open before it times out.</td>
</tr>
</tbody>
</table>

8. Enter the following information:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User name</td>
<td>Enter a user name and password for the system account. Enter the user name in DOMAIN_NAME\USER_NAME format.</td>
</tr>
<tr>
<td>Password</td>
<td></td>
</tr>
<tr>
<td>Local file share directory will be created and shared on network</td>
<td>Note • N/A for AdminStudio Enterprise Server</td>
</tr>
</tbody>
</table>

Note • N/A for AdminStudio Enterprise Server
Chapter 4 Configuring AdminStudio Enterprise Server

Configuring Using the AdminStudio Configuration Wizard

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local file share install directory</td>
<td>![Folder Icon]</td>
</tr>
<tr>
<td></td>
<td><em>Note</em> • N/A for AdminStudio Enterprise Server</td>
</tr>
<tr>
<td>Network share name</td>
<td>![Folder Icon]</td>
</tr>
<tr>
<td></td>
<td><em>Note</em> • N/A for AdminStudio Enterprise Server</td>
</tr>
<tr>
<td>UNC path to existing shared folder on local or remote machine</td>
<td>![Folder Icon]</td>
</tr>
<tr>
<td></td>
<td><em>Note</em> • N/A for AdminStudio Enterprise Server</td>
</tr>
</tbody>
</table>

9. Click **Next**. The **Activation** panel opens.
10. Click the browse button and upload the license file that was attached to your email from Flexera Software Orders, and then click **Next**. The configuration begins and messages are displayed.

11. When the configuration steps are complete, click **Finish** to close the wizard.
Setting Advanced Configuration Settings

To set advanced AdminStudio Enterprise Server settings, perform the following steps:

**Task**  
*To set advanced configuration settings:*

1. Launch the following file on the machine where you installed:

   C:\AdminStudioWebComponents_2016\Support\Config\Config.exe

   The AdminStudio Configuration Wizard Welcome panel opens.

   ![AdminStudio Configuration Wizard](image)
2. Select **Update website configuration settings (Advanced)** and click **Next**. The **Set Default Connection** panel opens, prompting you to enter the default connection information for web site users.

![Set Default Connection panel](image)

3. Do one of the following based upon whether you are using Windows authentication or server authentication when connecting to the AdminStudio database:
   - **Windows Authentication**—Enter or edit the **User ID** and **Password** that the Web Sites Application Pool will run as in order to access the database.
   - **SQL Server Authentication**—Confirm that the **User ID** and **Password** that you entered when you configured the database connection are displayed here.
4. Click **Next**. The **Configuration Settings: Administrative** panel opens.

![AdminStudio Configuration Wizard](image)

5. Specify the following options:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rollback keep condition</td>
<td><img src="image" alt="Note" /> <strong>N/A for AdminStudio Enterprise Server</strong></td>
</tr>
<tr>
<td>Disable step-level SLA</td>
<td><img src="image" alt="Note" /> <strong>N/A for AdminStudio Enterprise Server</strong></td>
</tr>
<tr>
<td>Show performance parameters</td>
<td><img src="image" alt="Note" /> <strong>N/A for AdminStudio Enterprise Server</strong></td>
</tr>
<tr>
<td>Login page timeout value</td>
<td>Identifies the length of time that you can leave the login page open before it times out.</td>
</tr>
<tr>
<td>Default AdminStudio user work assignment</td>
<td><img src="image" alt="Note" /> <strong>N/A for AdminStudio Enterprise Server</strong></td>
</tr>
</tbody>
</table>
6. Click **Next**. The **Configuration Settings: Network Share** panel opens.

7. Enter the following information:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SMTP Server Address</strong></td>
<td><strong>Note</strong> • N/A for AdminStudio Enterprise Server</td>
</tr>
<tr>
<td><strong>Web Server Address</strong></td>
<td>Edit to modify the AdminStudio Enterprise Server website IP address. By default, it is <code>http://localhost/</code>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>User name</strong></td>
<td>Enter a user name and password for the system account. Enter the user name in <code>DOMAIN_NAME\USER_NAME</code> format.</td>
</tr>
<tr>
<td><strong>Password</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Local file share directory will be created and shared on network</strong></td>
<td><strong>Note</strong> • N/A for AdminStudio Enterprise Server</td>
</tr>
<tr>
<td><strong>Local file share install directory</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Note</strong> • N/A for AdminStudio Enterprise Server</td>
<td></td>
</tr>
</tbody>
</table>
Chapter 4 Configuring AdminStudio Enterprise Server

Launching AdminStudio Enterprise Server

After you perform the steps in Specifying Mandatory Configuration Settings, you are now ready to launch AdminStudio Enterprise Server.

**Task**

To launch AdminStudio Enterprise Server:

1. Do one of the following:
   
   a. If you are on the machine where you installed AdminStudio Enterprise Server, select AdminStudio Web Components from the Start menu.
   b. If you are on another machine in the network, open a browser window and enter the Web Site IP Address you specified on the IP Address panel, such as:
      
      http://111.22.333.44
      
      The AdminStudio Enterprise Server Login page opens:
   
2. You can log on using the default account of the default workflow administrator company.
   
   - **User Name**: admin@company.com
   - **Password**: admin

8. Click **Next**. The configuration begins and messages are displayed.

9. When the configuration steps are complete, click **Finish** to close the wizard.
Performing Other Configuration Tasks

You may want to perform some of the following configuration tasks:

- Additional Verification Steps After Installation
- Enabling Login to AdminStudio Enterprise Server Using Windows NT Authentication

Additional Verification Steps After Installation

You may want to perform these additional verification steps after the installation is complete to ensure that AdminStudio Enterprise Server was installed properly.

<table>
<thead>
<tr>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>To verify that installation was successful:</strong></td>
</tr>
<tr>
<td>1. Open <strong>Internet Information Services (IIS) Manager.</strong></td>
</tr>
<tr>
<td>2. Select your server name in the tree. The <strong>Home</strong> view opens.</td>
</tr>
<tr>
<td>3. Under <strong>IIS</strong>, select <strong>ISAPI and CGI Restrictions</strong> and select <strong>Open Feature</strong> from the context menu.</td>
</tr>
<tr>
<td>4. Make sure that all ASP.NET features have <strong>Allowed</strong> listed in the <strong>Restriction</strong> column.</td>
</tr>
<tr>
<td>5. In the tree under <strong>Sites</strong>, make sure that there is a node named <strong>AdminStudio Web Components 2016 Application</strong>.</td>
</tr>
<tr>
<td>6. In the tree, select <strong>Application Pools</strong>. The <strong>Application Pools</strong> view opens.</td>
</tr>
<tr>
<td>7. Make sure that <strong>AdminStudioWebComponents2016</strong> is listed and that its <strong>Status</strong> is set to <strong>Started</strong>.</td>
</tr>
<tr>
<td>8. Open the Windows <strong>Services</strong> dialog box.</td>
</tr>
<tr>
<td>9. In the <strong>Services (Local)</strong> list, make sure that the <strong>Status</strong> of <strong>ASP.NET State Service</strong> is set to <strong>Started</strong>.</td>
</tr>
</tbody>
</table>
Enabling Login to AdminStudio Enterprise Server Using Windows NT Authentication

To enable login to the AdminStudio Enterprise Server website using Windows NT authentication, perform the following steps:

**Task**

**To enable Windows NT Authentication without using a portal:**

1. On the AdminStudio Enterprise Server web server, open the Control Panel.
2. Click Administrative Tools. The Administrative Tools dialog box opens.
3. In the list, select Internet Information Services (IIS) Manager and select Open from the context menu. The Internet Information Services (IIS) Manager dialog box opens.
5. Under IIS, select Authentication and select Open Feature from the context menu. The Authentication view opens.
7. Set Windows Authentication to Enabled.
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  minimum privileges 10
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  domain account 14
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  launching 44
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  creation permissions 24
  using scripts to create for SQL Server 24

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