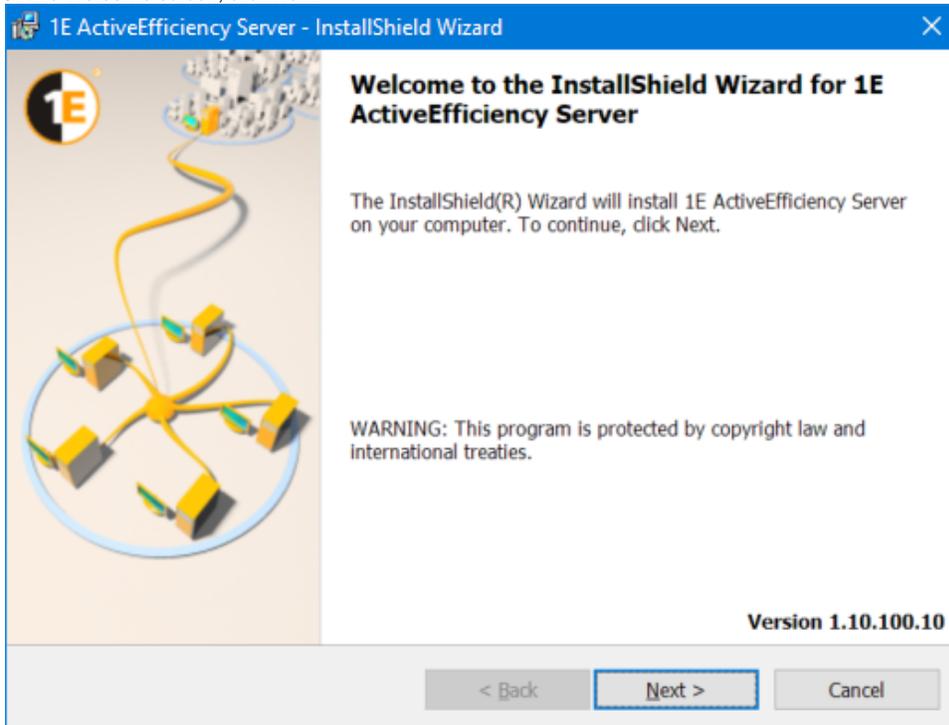


# Installing and upgrading ActiveEfficiency

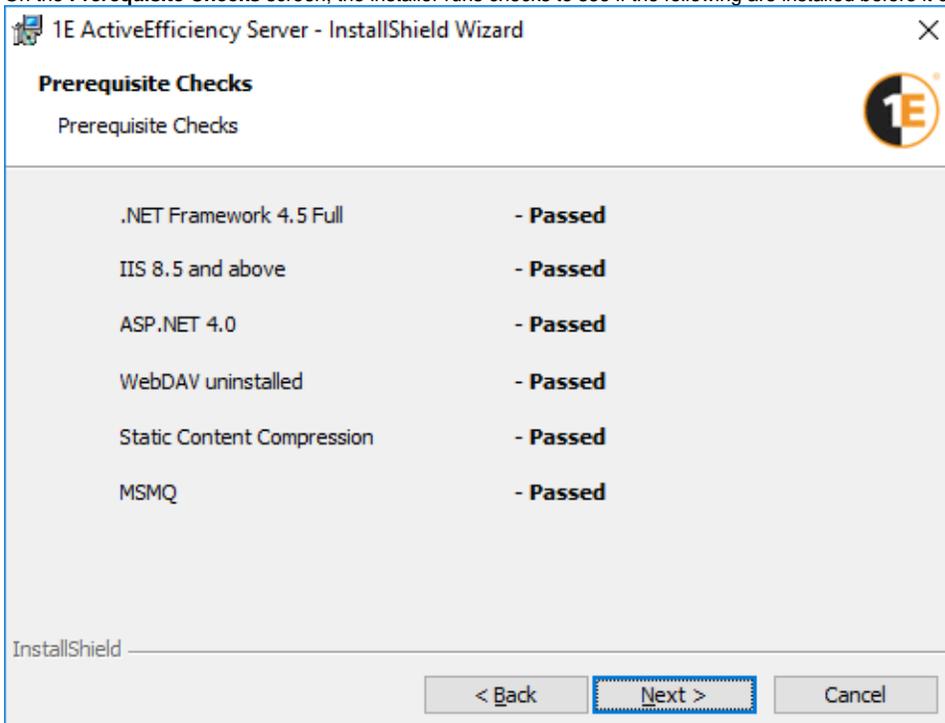
## Installing ActiveEfficiency

To install ActiveEfficiency:

1. Run the **ActiveEfficiencyServer.msi**. If you are running the installer on a server where UAC is enabled, start it from a command-prompt with elevated permissions – you may need to reboot the server.
2. On the **Welcome** screen, click **Next**.



3. On the **License Agreement** screen, accept the license agreement and click **Next**.
4. On the **Prerequisite Checks** screen, the installer runs checks to see if the following are installed before it continues:





All prerequisites must pass in order to continue, except for MSMQ which is recommended if you are using Nomad.

If the Windows MSMQ feature is not enabled then the 1E ActiveEfficiency service component is not installed, then some Nomad features of ActiveEfficiency will not work. This service is required by:

- Nomad Sync (dashboard and pre-cache features) even though it does not use MSMQ
- Nomad integration with WakeUp feature, which does use MSMQ and requires MSMQ to also be enabled on the NightWatchman server

5. On the **Destination Folder screen**, choose the folder where you want ActiveEfficiency installed. By default, it installs to C:\Program Files (x86)\1E\ActiveEfficiency\. You can choose a different location by clicking **Change...** Click **Next** to continue.
6. On the **Database Server screen**, enter the name of the server where you want the ActiveEfficiency database installed and click **Next**. Checks are made to see if the specified machine is an SQL server.

1E ActiveEfficiency Server - InstallShield Wizard

**Database Server**  
Select the database server

Database server that you are installing to:  
DBServer

Drop any existing ActiveEfficiency Database (this will delete all old data)

Name of database:  
ActiveEfficiency

**TLS 1.1 /1.2 support**  
 TLS 1.0 disabled - install using TLS 1.1 / 1.2  
Note: You must install SQL Server Native Client 11.0 before selecting this option.

InstallShield

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- If you have an existing ActiveEfficiency database you can optionally delete the existing data by checking the **Drop any existing ActiveEfficiency database** checkbox - if you select this option the existing data will be lost. ActiveEfficiency does not support database mirroring.
- You can use a named instance with: <ServerName>\<InstanceName>. For example, if there is an SQL Server named instance called Admin on the server SMS01, set the SQL Server Name: field to SMS01\Admin.



If you want to install ActiveEfficiency database on a SQL Server cluster or SQL Always-On:

- **Option 1 - SQL Server cluster** - Specify the name of the SQL Server cluster in Step 6
- **Option 2 - SQL Always-On** - Complete the setup from Step 1 to 9 and move the database to an **Always-On availability listener group**

Edit the following config files, search for the **<connectionStrings>** tag, and replace each **Server=name of the Always-On availability listener group**:

- <AE Install Directory>\Service\ **ServiceHost.exe.config**
- <AE Install Directory>\Web\WebService\ **Web.config**

The following is an example:

#### Old Connection String

```
<connectionStrings>
  <add name="ActiveEfficiencyDataContext" providerName="System.Data.SqlClient"
connectionString="Server=DBServer;Database=ActiveEfficiency;Integrated Security=True;" />
  <add name="MassTransit" connectionString="Server=DBServer;Database=ActiveEfficiency;
Integrated Security=True;" providerName="System.Data.SqlClient" />
</connectionStrings>
```

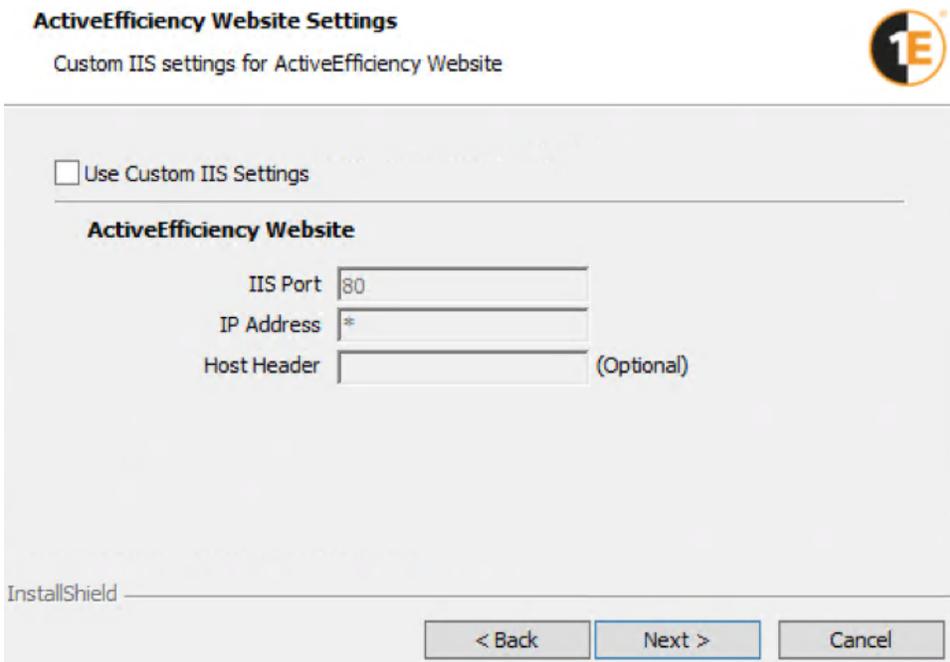
#### New Connection String

```
<connectionStrings>
  <add name="ActiveEfficiencyDataContext" providerName="System.Data.SqlClient"
connectionString="Server=SQLHADBServer;Database=ActiveEfficiency;Integrated
Security=True;" />
  <add name="MassTransit" connectionString="Server=SQLHADBServer;
Database=ActiveEfficiency;Integrated Security=True;" providerName="System.Data.SqlClient"
/>
</connectionStrings>
```

- If your SQL server is remote and TLS 1.0 is disabled in your environment you **must install** the SQL Server Native Client 11.0 (also known as **SQL Server 2012 Native Client**) on the Web server hosting the ActiveEfficiency application. If your SQL server is local you will likely already have the SQL Server Native Client installed, but you should check that this is the case.

Check the **TLS 1.0 disabled - install using TLS 1.1/1.2** checkbox. [Further information can be found in the prerequisites for Web servers.](#)

7. On the **ActiveEfficiency Website Settings** screen, accept the defaults and Click **Next** or modify the default settings for the ActiveEfficiency Website by ticking the Use Custom IIS Setting checkbox.



**ActiveEfficiency Website Settings**

Custom IIS settings for ActiveEfficiency Website

Use Custom IIS Settings

---

**ActiveEfficiency Website**

IIS Port:

IP Address:

Host Header:  (Optional)

InstallShield

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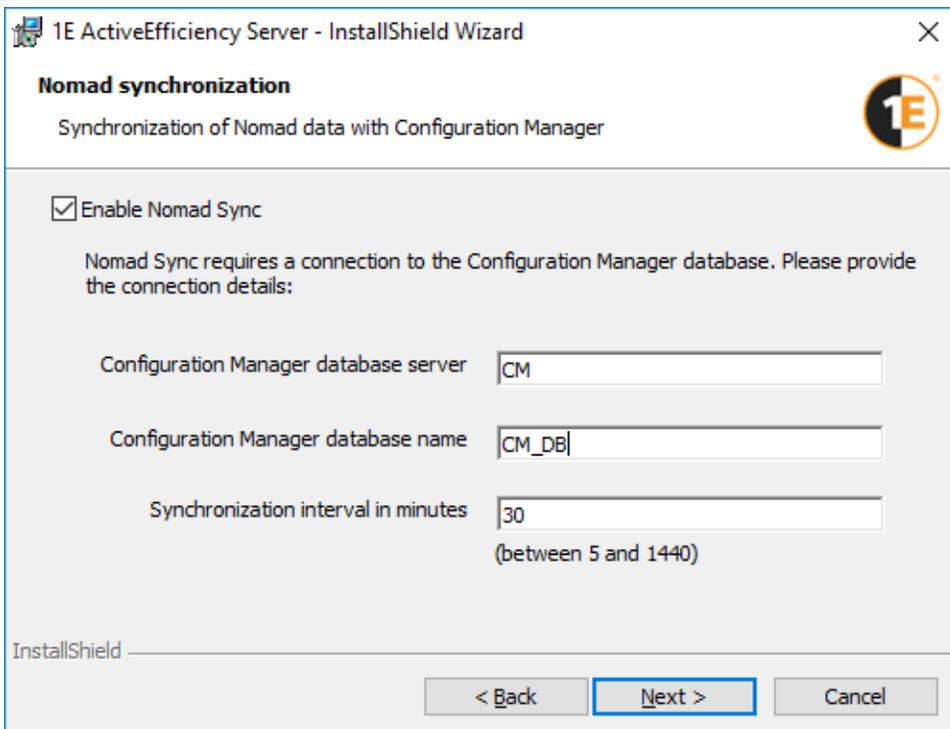
Exercise caution when doing this and ensure that any changes you make are reflected in the DNS, router and firewall. If you want to customize the settings, select the **Use Custom IIS Settings** option and update:

- **IIS Port** – port used by the ActiveEfficiency Web API
- **IP Address** – IP Address for the ActiveEfficiency Web API
- **Host Header** – host reader for the ActiveEfficiency Web API. This is the server name used to locate the ActiveEfficiency Web API.

Any customizations to the ActiveEfficiency Web API will need to be used in all the consumers of data from the ActiveEfficiency Server when configuring the connection to ActiveEfficiency server.

In order to use a customized host header name, ensure the changes are reflected in your DNS settings.

8. On the **Nomad Sync** screen:



1E ActiveEfficiency Server - InstallShield Wizard

**Nomad synchronization**

Synchronization of Nomad data with Configuration Manager

Enable Nomad Sync

Nomad Sync requires a connection to the Configuration Manager database. Please provide the connection details:

Configuration Manager database server:

Configuration Manager database name:

Synchronization interval in minutes:   
(between 5 and 1440)

InstallShield

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- a. Tick the **Enable Nomad Sync** checkbox.



Nomad Sync is required for the Nomad Pre-cache and Nomad Dashboard features of ActiveEfficiency.

- b. In **Configuration Manager database server**, enter the name of the server hosting your Configuration Manager database.

If you are installing ActiveEfficiency on the same server as the Configuration Manager database, do not use its Fully Qualified Domain Name. Use `local` or the name of the server instead.



Option 1- If you are installing a new setup for ActiveEfficiency and CM database on SQL Server cluster or Always-On please provide the name of the **SQL Server cluster** or **Always-On availability listener group** .

Option 2- If you already have a ActiveEfficiency installed with CM database on standalone instance, which was moved to a SQL Server cluster or an Always-On availability group, you will have to uninstall and re-install ActiveEfficiency using the name of the **SQL Server cluster** or **Always-On availability listener group**.

Add ActiveEfficiency server name in **ConfigMgr\_DViewAccess group** on all nodes.

- c. In **Configuration Manager database name**, enter the name of your Configuration Manager database.  
d. Set the **synchronization interval in minutes**. The default is 30 minutes.  
e. Click **Next**.

9. On the **Ready to Install the Program** screen, click **Install**.

Post-installation, you may want to consider [securing the ActiveEfficiency Website](#).

## Upgrading ActiveEfficiency

You should upgrade both the ActiveEfficiency Server and the ActiveEfficiency Scout at the same time.

If you made customizations to site bindings, the ActiveEfficiency service account or the `servicehost.exe.config` file, you must note these and reapply them after the upgrade.

- To upgrade the ActiveEfficiency Server, [follow its installation procedure and do not drop the existing database](#).
- To upgrade the ActiveEfficiency Scout, [follow its installation procedure](#).
- There may be instances where you are prompted to restart the server in order to complete the ActiveEfficiency Server installation. In the event that this happens, we recommend you do.