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| <b>A</b> | Achenbach   |
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| <b>E</b> | Empirically |
| <b>B</b> | Based       |
| <b>A</b> | Assessment  |

**ASEBA**®

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# ASEBA-Network™ Installation and Configuration Instructions

Please read all installation instructions before proceeding with an ASEBA-Network™ installation.

## Introduction

ASEBA-Network™ is deployed in several common configurations. The RCCYF also provides ASEBA-Network™ customers an installer and several configuration scripts to assist in product installation. This document outlines the use of the installer and configuration scripts, and also provides manual instructions for situations where customers choose not to use the configuration scripts.

The following are the minimum server or virtual machine requirements for installation of ASEBA-Network™:

- Microsoft Windows Server® 2016 or greater.
- Microsoft® Internet Information Services (IIS) 10.0 or greater.
- Microsoft® SQL Server 2016 or greater, or Microsoft® SQL CE 4.0
- 2 GB of RAM
- 2 GB of disk space
- Dual-core processing

Most customers will provision ASEBA-Network™ servers with greater or more recent requirements than these. ASEBA-Network™ may be installed on servers that share resources with other applications, but only one ASEBA-Network™ instance can be installed on a server.

ASEBA-Network™ supports two database configurations: SQL Server or SQL CE. Most ASEBA-Network™ customers prefer to use SQL Server as the backing database. ASEBA-Network™ can be configured to use SQL Server on the same server instance where it is installed, or can be installed on a separate server instance. Clustered SQL Server configurations are also supported.

ASEBA-Network™ will be installed on the following path: C:\Program Files (x86)\ASEBA\. This path cannot be changed during installation. Moving ASEBA-Network™ post-installation to a new location will

remove the ability of future ASEBA-Network™ installers to find and update an existing implementation of ASEBA-Network™.

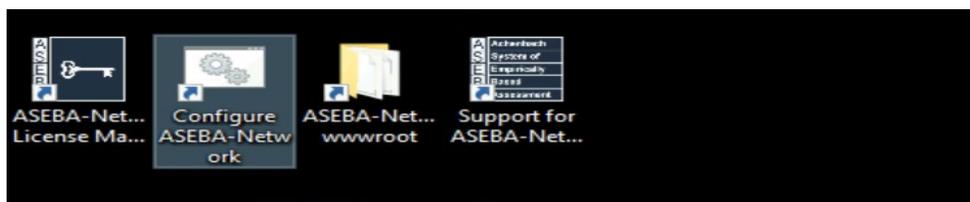
The RCCYF provides installation videos to assist with ASEBA-Network installation. They are found at <https://howtovideos.aseba.org>. Technical support for ASEBA-Network™ is found at <https://answers.aseba.org>. Our technical service team can be reached at [techsupp@aseba.org](mailto:techsupp@aseba.org) or by telephone at 802.735.1540.

## Instructions for Installing and Configuring ASEBA-Network™ on a Single Server Using the Configuration Script

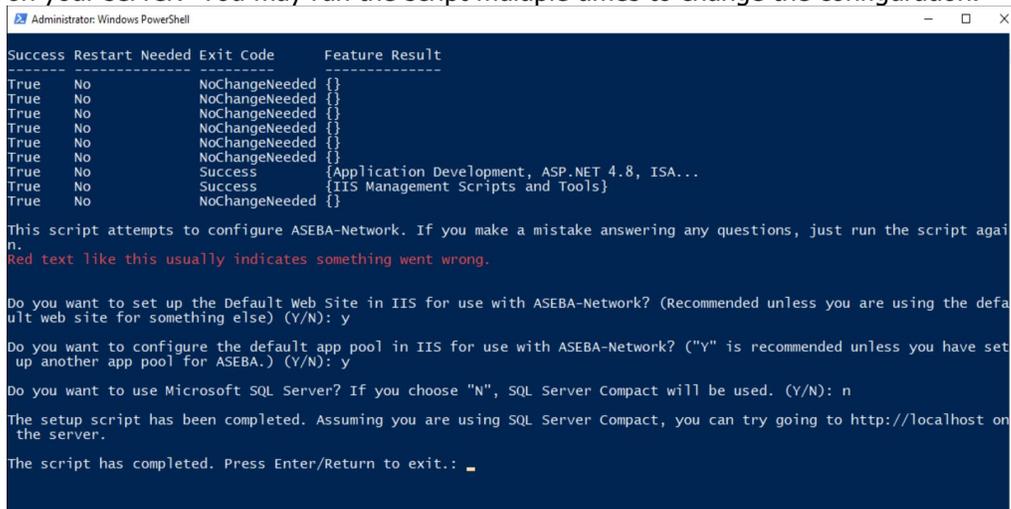
This is the most common way for customers to install ASEBA-Network™ on their server instance. If you are using SQL Server as the backing database, install SQL Server and SQL Server Management Studio prior to installing ASEBA-Network™.

Complete the steps below to install and configure ASEBA-Network™:

1. Gain access to the ASEBA-Network™ installer. If installing from a CD, insert the CD and if it does not auto-start, click "Setup.exe". If installing from a download, download the installer from the provided path and click on the downloaded ".exe" file to start the installer.
2. Read, accept, and click "Next" on the license agreement window.
3. Click "Install" to start installation.
4. Click "Finish" when done.
5. The "License Key Manager" will open automatically when the installer finishes.
6. Enter all of your ASEBA-Network™ license keys in the license key manager. You may have been issued a single license key or multiple license keys. You may also add any administrative contact information.
7. The installer will place a series of shortcuts on your desktop. Double-click on the "Configure ASEBA-Network" icon to start the configuration script.



8. This will open PowerShell as an administrator. Follow the prompts to configure ASEBA-Network™ on your server. You may run the script multiple times to change the configuration.



```
Administrator: Windows PowerShell
-----
Success Restart Needed Exit Code      Feature Result
-----
True      No           NoChangeNeeded {}
True      No           Success        {Application Development, ASP.NET 4.8, ISA...
True      No           Success        {IIS Management Scripts and Tools}
True      No           NoChangeNeeded {}

This script attempts to configure ASEBA-Network. If you make a mistake answering any questions, just run the script again.
Red text like this usually indicates something went wrong.

Do you want to set up the Default Web Site in IIS for use with ASEBA-Network? (Recommended unless you are using the default web site for something else) (Y/N): y

Do you want to configure the default app pool in IIS for use with ASEBA-Network? ("Y" is recommended unless you have set up another app pool for ASEBA.) (Y/N): y

Do you want to use Microsoft SQL Server? If you choose "N", SQL Server Compact will be used. (Y/N): n

The setup script has been completed. Assuming you are using SQL Server Compact, you can try going to http://localhost on the server.

The script has completed. Press Enter/Return to exit.: _
```

If you are using SQL CE, the configuration is complete and you can sign into ASEBA-Network™ to configure your user accounts. If you are using SQL Server, additional configuration is necessary and is outlined below.

If you cannot run the Powershell script or you prefer to configure manually, skip to the section "Instructions for Configuring ASEBA-Network™ Manually Without Using the Configuration Script".

## Configure SQL Server for use with ASEBA-Network™ Either on Single Server or Separate Server using Configuration SQL Script

If you have not already, install "SQL Server" and "SQL Server Management Studio" on the server where the ASEBA-Network™ database is to be stored. If you are installing the database on a separate server from where the application is stored, you will need to copy the files in the locations below to the database server instance:

- C:\Program Files (x86)\ASEBA\ASEBA-Network\2015\Scripts\Configuration\
- C:\Program Files (x86)\ASEBA\ASEBA-Network\2015\wwwroot\App\_data\Databases\SQL\_Server\. This should be copied to where the database files will reside in the new server.

Here are the instructions to run the configuration SQL script:

1. Run SQL Server Management Studio (SSMS) as administrator. (If your user account is not an administrator, you can elevate your privileges by right clicking the SSMS icon and selecting "Run as Administrator").
2. Click on "Open File" icon and find the "Configuration.sql" file. If you are on the same server as the ASEBA-Network™ application, the default location is "C:\Program Files (x86) \ASEBA\ASEBA-Network\2015\Scripts\Configuration\".

3. The configuration file will create a SQL user with the listed username and password. It is important to change the password from default. These credentials need to match what was entered in the application configuration script.

```
declare @username nvarchar(max)
declare @password nvarchar(max)
declare @installationpath nvarchar(max)
set @username = 'aseba'
/* *** UPDATE THIS PASSWORD *** */
set @password = 'Password77'
set @installationpath = 'C:\Program Files (x86)\ASEBA'
```

4. After making the username and password changes, execute the configuration script by clicking on "Execute" or pressing the "F5" key."

The databases for ASEBA-Network™ will now be configured. You can skip to the section "Set Up your ASEBA-Network™ User Accounts." If you cannot use the script or prefer to configure the database manually, go to "Configure SQL Server for use with ASEBA-Network™ Manually Without Using Configuration SQL Script".

## Instructions for Configuring ASEBA-Network™ Manually Without Using the Configuration Script

If prefer to install and configure Internet Information Server (IIS) manually, perform the following steps:

1. Open "Server Manager".
2. Click "Add Roles and Features".
3. Click "Next" and then Choose "Role Based or Feature Based Installation".
4. Select your server.
5. In server roles, select "Web Server IIS".
6. Under "Web Server", click "Application Development" and choose "ASP.NET 4.8".
7. Under "Common HTTP Features", make sure "Static Content" is installed.
8. Click "Add Features".
9. Click "Next", then "Install".
10. If the PowerShell script fails or you prefer to configure the ASEBA-Network™ website manually, perform the following steps:
11. Open IIS.
12. Find your server in the list of nodes and click on it to expand.
13. Select "Sites".
14. Click "Default Website". Alternatively, you can select or create a different website.

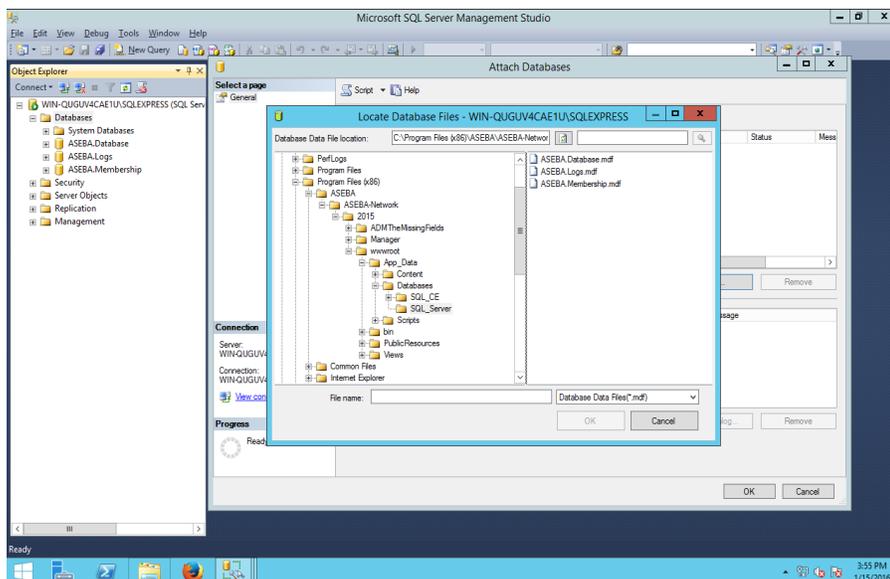
15. Click "Basic Settings". It is located on the right-hand side of the application screen.
16. Click the "..." button next to the physical path.
17. Select the folder location where ASEBA-Network™ is installed. This should be set to "C:\ProgramFiles(x86)\ASEBA\ASEBA-Network\2015\wwwroot".
18. Click on "Application Pool" and choose "Default App Pool".
19. Click OK.

## Configure SQL Server for use with ASEBA-Network™ Manually Without Using Configuration SQL Script

Make sure that users have full control of the ASEBA installation folder before starting (read, write, modify, delete). The service account user also needs "modify" access to the database folders if it does not already have that access. See below to check what user account is the service account user if it is not known.

If you prefer to configure SQL Server manually, perform the following steps to attach the database files:

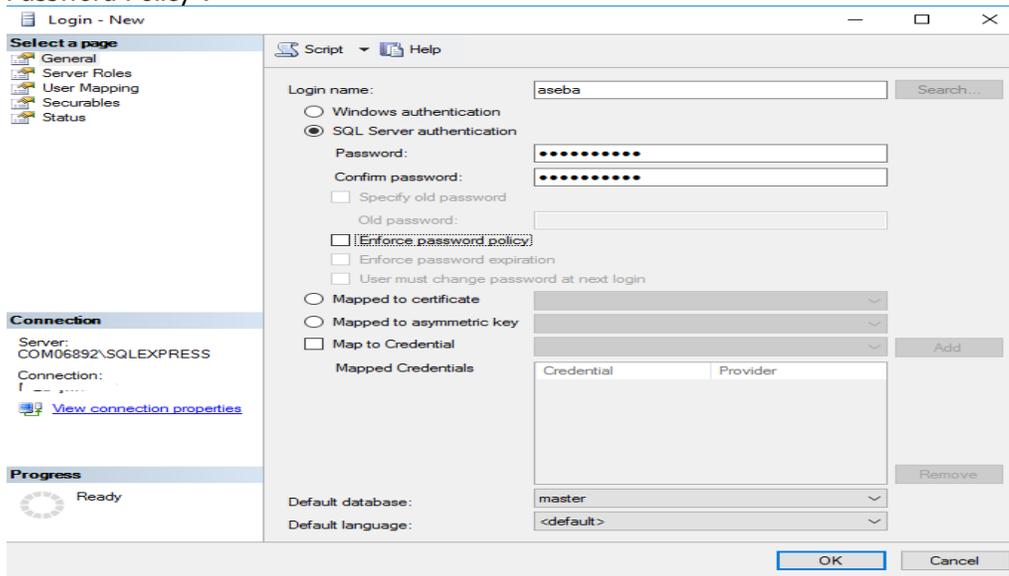
1. Run SQL Server Management Studio (SSMS) as administrator. (If your user account is not an administrator, you can elevate your privileges by right clicking the SSMS icon and selecting "Run as Administrator")
2. If the name of the service account user is needed, this query run in Query Analyzer will return the name: "SELECT servicename, service\_account FROM sys.dm\_server\_services".
3. Under the server list on the left, right-click on "Databases" and select "Attach". Click "Add" under "Databases to attach." Go to "C:\Program Files (x86) \ASEBA\ASEBA-Network\2015\wwwroot\AppData\Databases\SQL\_Server" (or where you copied the database files to) and select "ASEBA.Database.mdf" on the right.



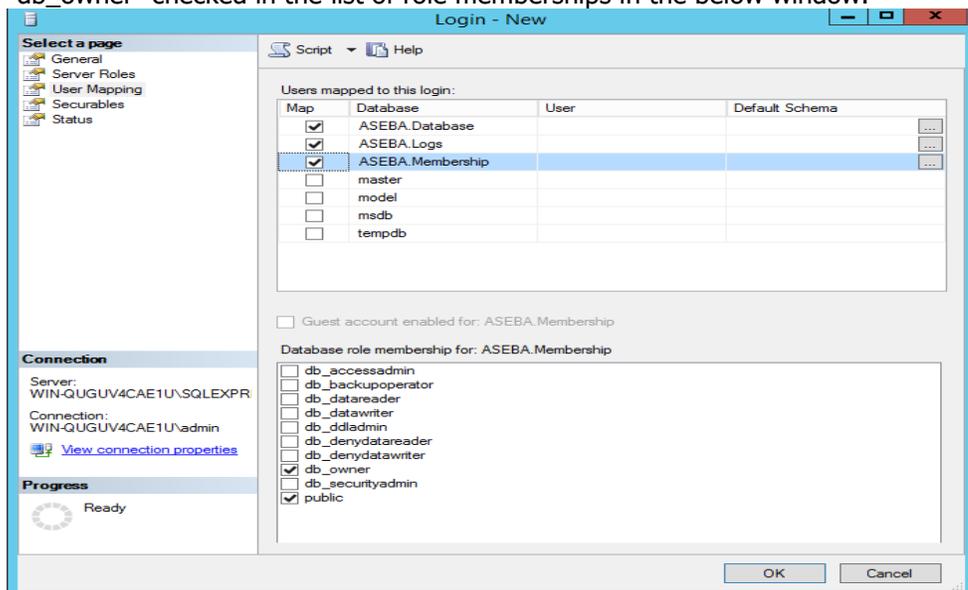
4. Under "Database Details", select the "\_log.ldf" file and click "Remove". Then, click "OK" to attach the database.
5. Repeat steps 3 and 4 for "ASEBA.Logs.mdf" and "ASEBA.Membership.mdf".

Perform the following steps to create a SQL Server user account for ASEBA-Network™:

1. Open SQL Management Studio and the instance of your server where the three ASEBA-Network™ databases have been attached.
2. Open the "Security" folder and right-click on "Logins". Choose "New Login".
3. Enter in a login name. Select the radio button for "SQL Server Authentication". Uncheck "Enforce Password Policy".



4. Select "User Mapping" from the list on the left. Click the "Map" checkbox for each of the three ASEBA-Network™ databases. As you are clicking on each database, also ensure that the user had "db\_owner" checked in the list of role memberships in the below window.



5. Click "OK" to create the new user.

Now that the database is set up, make sure the file permissions on the database folders are correct:

1. Specifically, the service account user needs access to the directory where the database resides. If you need the "name" of the service account user, run the following command from a query window in SQL Server Management Studio: "SELECT servicename, service\_account FROM sys.dm\_server\_services".
2. If you know the service account user, open file explorer, and go to the directory where the databases reside. Normally the directory is this: "C:\Program Files (x86) \ASEBA\ASEBA-Network\2015\wwwroot\App\_Data\Databases."
3. "Right-click" on that folder, then select "Properties". Select the "Security" tab, find the service account user in the list, then click "Edit". You will need "administrator" privileges to do so. Add the "full control" of privileges to the user account and click "OK".
4. To point the ASEBA-Network™ front end to use the databases, open the "ConnectionStrings.config" file in a text editor with administrator ("C:\Program Files (x86)\ASEBA\ASEBA-Network\2015\wwwroot"). If you are using SQL Server, you can delete the SQL CE connection strings to look like this:

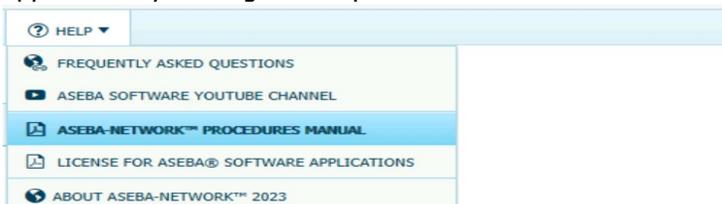
```
ConnectionStrings.config - Notepad
File Edit Format View Help
<connectionStrings>
  <!-- MS SQL Server Connection Strings -->
  <add name="ASEBA.SQLDatabaseConnectionString" connectionString="Server={My Server}; Database=ASEBA.Database; User Id={My User name}; Password={My Password}; " providerName="System.Data.SqlClient" />
  <add name="ASEBA.LogsDatabaseConnectionString" connectionString="Server={My Server}; Database=ASEBA.Logs; User Id={My User name}; Password={My Password}; " providerName="System.Data.SqlClient" />
  <add name="MembershipReboot" connectionString="Server={My Server}; Database=ASEBA.Membership; User Id={My User name}; Password={My Password}; " providerName="System.Data.SqlClient" />
</connectionStrings>
```

5. In the "connection string tags", replace "{my server}" with your server's name and instance of it, replace "{my user name}" with the server username and replace "{my password}" with the server password. Remove the curly braces for all and "save" this file.

## Set Up your ASEBA-Network™ User Accounts.

The final step is to set up Your ASEBA-Network™ User accounts:

1. First, open your preferred browser and go to http://localhost/ (or the binding you created if it is different).
2. Log into ASEBA-Network™ with the initial log in credentials (on the CD case, or if electronically downloaded, in the "Read me first...." file).
3. Follow the instructions for adding users. These instructions can also be found within the application by clicking on "Help" and "ASEBA-Network™ Procedures Manual".



You have now successfully installed and configured ASEBA-Network™. If you have any further questions, please visit <https://answers.aseba.org> or contact our technical support team at [techsupp@aseba.org](mailto:techsupp@aseba.org) or by telephone 802.735.1540.

## Revision History

| Version | Date of Revision                | Author         | Description of Changes                                 |
|---------|---------------------------------|----------------|--|
| 1.0     | March 20 <sup>th</sup> , 2017   | John Hutchins  | Initial version.                                       |
| 1.1     | July 28 <sup>th</sup> , 2017    | John Hutchins  | Revisions to instructions.                             |
| 1.2     | March 28 <sup>th</sup> , 2018   | John Hutchins  | Revisions to instructions.                             |
| 1.3     | January 31 <sup>st</sup> , 2019 | David Deforge  | Add instructions for separate database and web server. |
| 1.4     | April 17 <sup>th</sup> , 2019   | David Deforge  | Format and presentation changes.                       |
| 2.0     | January 19 <sup>th</sup> , 2024 | Diwas Gartaula |  |
| 2.1     | March 18 <sup>th</sup> , 2024   | David Deforge  | Format and presentation changes.                       |
|         |                                 |                |  |
|         |                                 |                |  |