

# Gora LEYE ~ Expert C#.NET

## Archives de Tag: *Application Services*

### Creating the Application Services Database for SQL Server

21 Samedi sept 2013

PUBLIÉ PAR GORALEYE IN DATABASE, MEMBERSHIP, SECURITY, SQL SERVER

≈ UN COMMENTAIRE

#### Tags

Application Services, aspnet\_regsql, database, MemberShip, Security, sql server

ASP.NET includes a tool for installing the SQL Server database used by the SQL Server providers, named Aspnet\_regsql.exe. The Aspnet\_regsql.exe tool is located in the drive: \WINDOWS\Microsoft.NET\Framework\versionNumber folder on your Web server. Aspnet\_regsql.exe is used to both create the SQL Server database and add or remove options from an existing database.

You can run Aspnet\_regsql.exe without any command line arguments to run a wizard that will walk you through specifying connection information for the computer running SQL Server and installing or removing the database elements for all the supported features. You can also run Aspnet\_regsql.exe as a command-line tool to specify database elements for individual features to add or remove.

#### Note

The database elements that are installed in the feature database will always be owned by the SQL Server database owner account (dbo). In order to install the feature database, a SQL Server login must be permitted to the db\_ddladmin and dd\_securityadmin roles for the SQL Server database. However, you do not need to be a system administrator for the SQL Server in order to install the feature database.

To run the Aspnet\_regsql.exe wizard, run Aspnet\_regsql.exe without any command line arguments, as shown in the following example:

```
C:\WINDOWS\Microsoft.NET\Framework\<versionNumber>\aspnet_regsql.exe
```

You can also run the `Aspnet_regsql.exe` tool as a command-line utility. For example, the following command installs the database elements for membership and role management on the local computer running SQL Server:

```
aspnet_regsql.exe -E -S localhost -A mr
```

The following table describes the command line options supported by the `Aspnet_regsql.exe` tool.

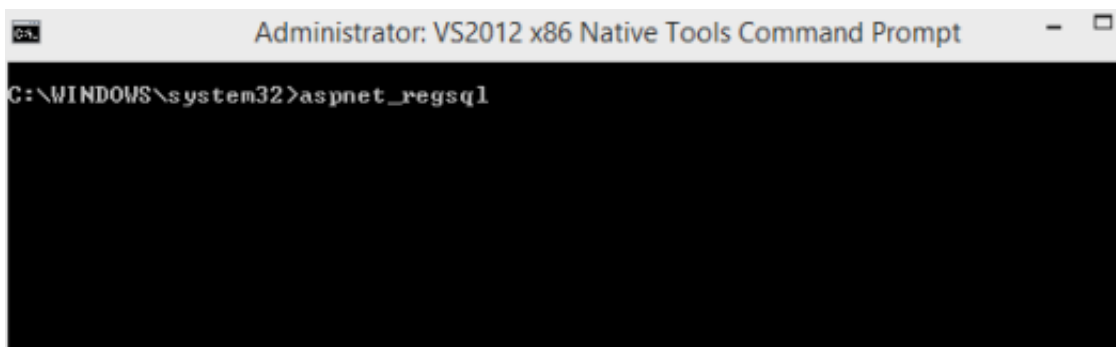
Option	Description
-?	Prints <code>Aspnet_regsql.exe</code> tool Help text in the command window.
-W	Runs the tool in wizard mode. This is the default if no command line arguments are specified.
-C connection string	The connection string to the computer running SQL Server where the database will be installed, or is already installed. This option is not necessary if you only specify the server (-S) and login (-U and -P, or -E) information.
-S server	The name of the computer running SQL Server where the database will be installed, or is already installed. The server name can also include an instance name, such as <code>.\INSTANCENAME</code> .
-U login id	The SQL Server user id to log in with. This option also requires the password (-P) option. This option is not necessary if you are authenticating using Windows credentials (-E).
-P password	The SQL Server password to log in with. This option also requires the login id (-U) option. This option is not necessary if authenticating using Windows credentials (-E).
-E	Authenticates using the Windows credentials of the currently logged-in user.
-d database	The name of the database to create or modify. If the database is not specified, the default database name of "aspnetdb" is used.
-sqllexportonlyfilename	Generates a SQL script file that can be used to add or remove the specified features. The specified actions are not performed.
-A all m r p c w	<p>Adds support for one or more features. The following identifiers are used for ASP.NET features.</p> <p>IdentifierAffects  allAll features  mMembership  rRole management  pProfile  cWeb Parts personalization  wWeb events</p> <p>Feature identifiers can be specified together or separately, as shown in the following examples.</p> <pre>aspnet_regsql.exe -E -S localhost -A mp</pre>

	<code>aspnet_regsql.exe -E -S localhost -A m -A p</code>
<code>-R all m r p c w</code>	<p>Removes support for one or more features. The following identifiers are used for ASP.NET features.</p> <p>IdentifierAffects  allAll features  mMembership  rRole management  pProfile  cWeb Parts personalization  wWeb events</p> <p>Feature identifiers can be specified together or separately, as shown in the following examples.</p> <p><code>aspnet_regsql.exe -E -S localhost -R mp</code></p> <p><code>aspnet_regsql.exe -E -S localhost -R m -R p</code></p>
<code>-Q</code>	Runs the tool in quiet mode and does not confirm before removing a feature.

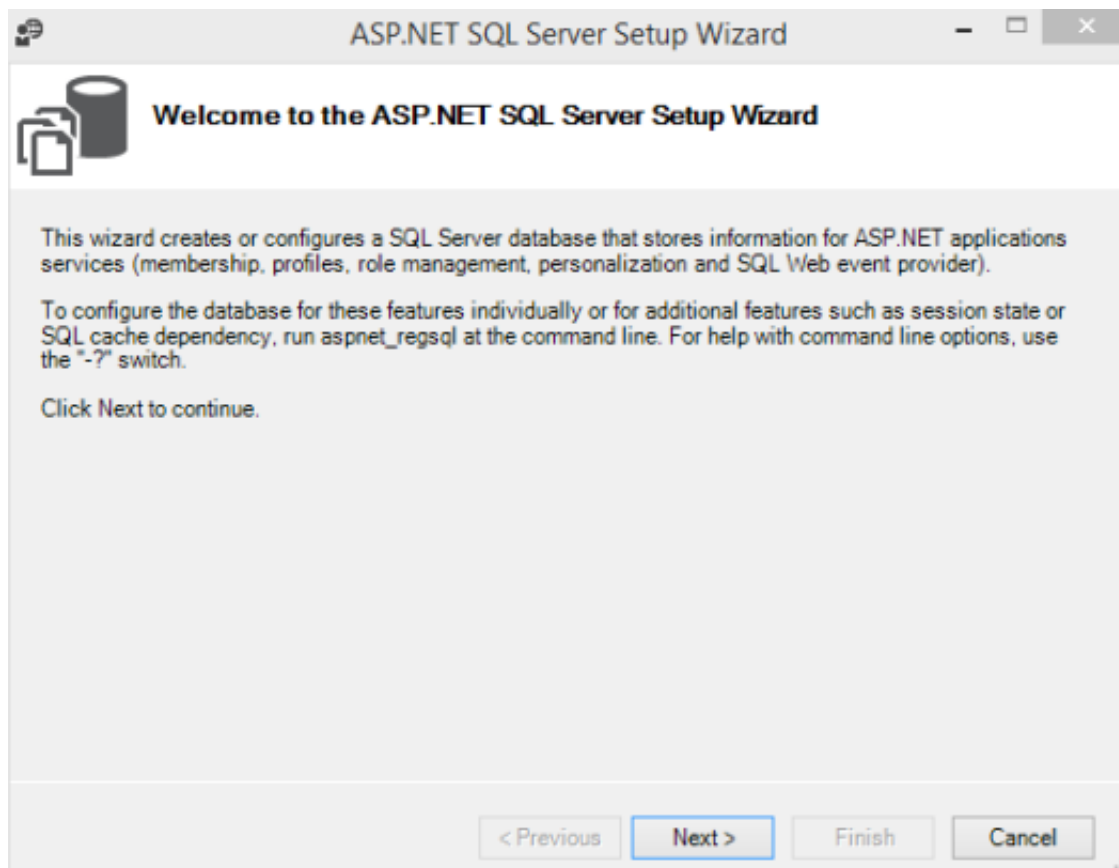
In this section , we can create our security database according to our business model and store it on sql server, oracle, mysql or other.

*If you have already a security database, go to the next section.*

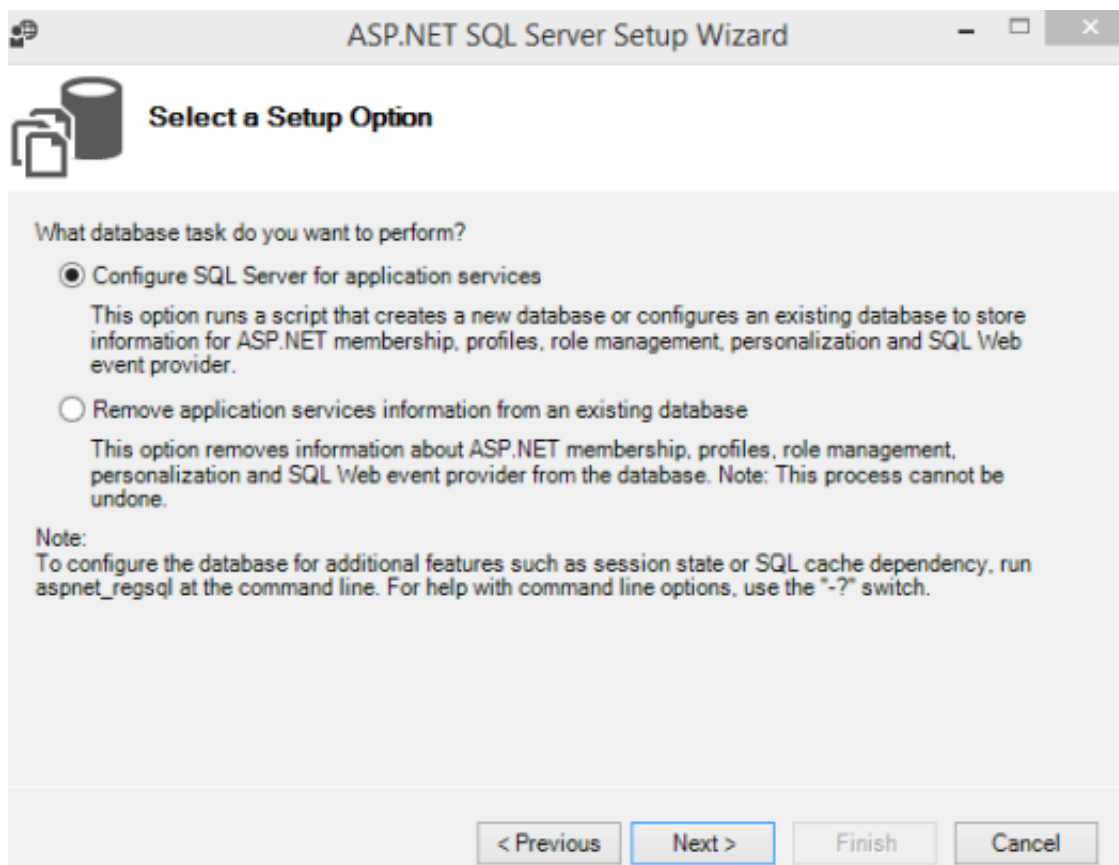
Open visual studio prompt command tool and run command line **aspnet\_regsql** as following



The screen explain the wizard scenario so Click next

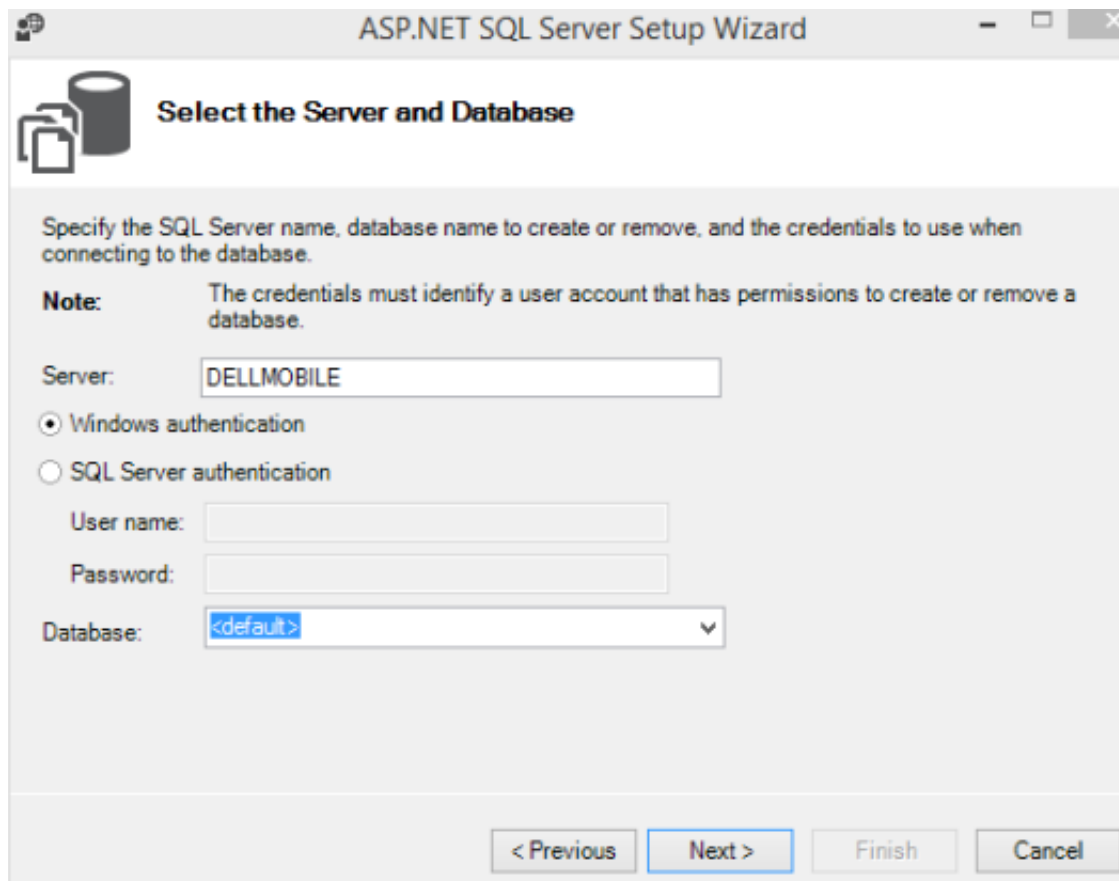


Here we can remove existing security database or create a new one. We want to create a new security database. So check the first option and click next



Enter our database server name .\SQLEXPRESS ( enter the appropriate server name). if you already an existing database, you can select it. So the wizard will create the security tables on the selected datase.

If you do not have a database, let default. the default database name that will be created is aspnetdb

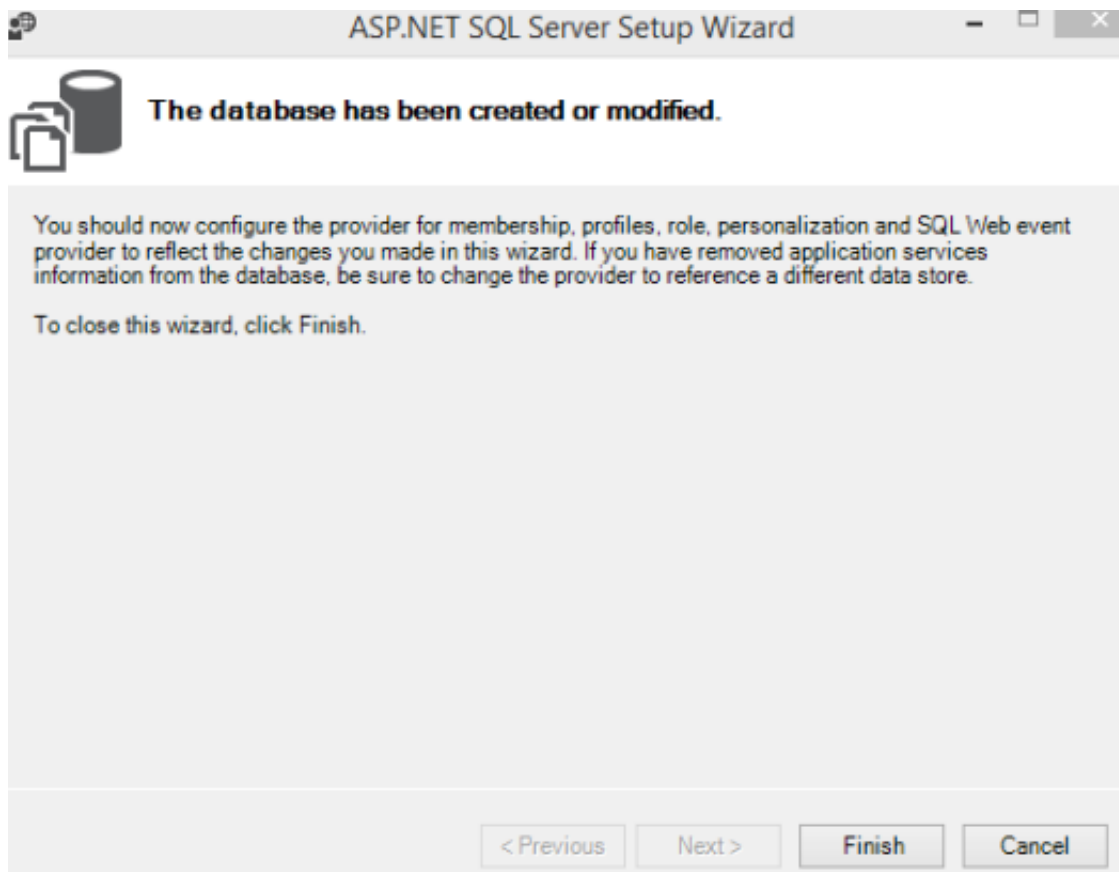
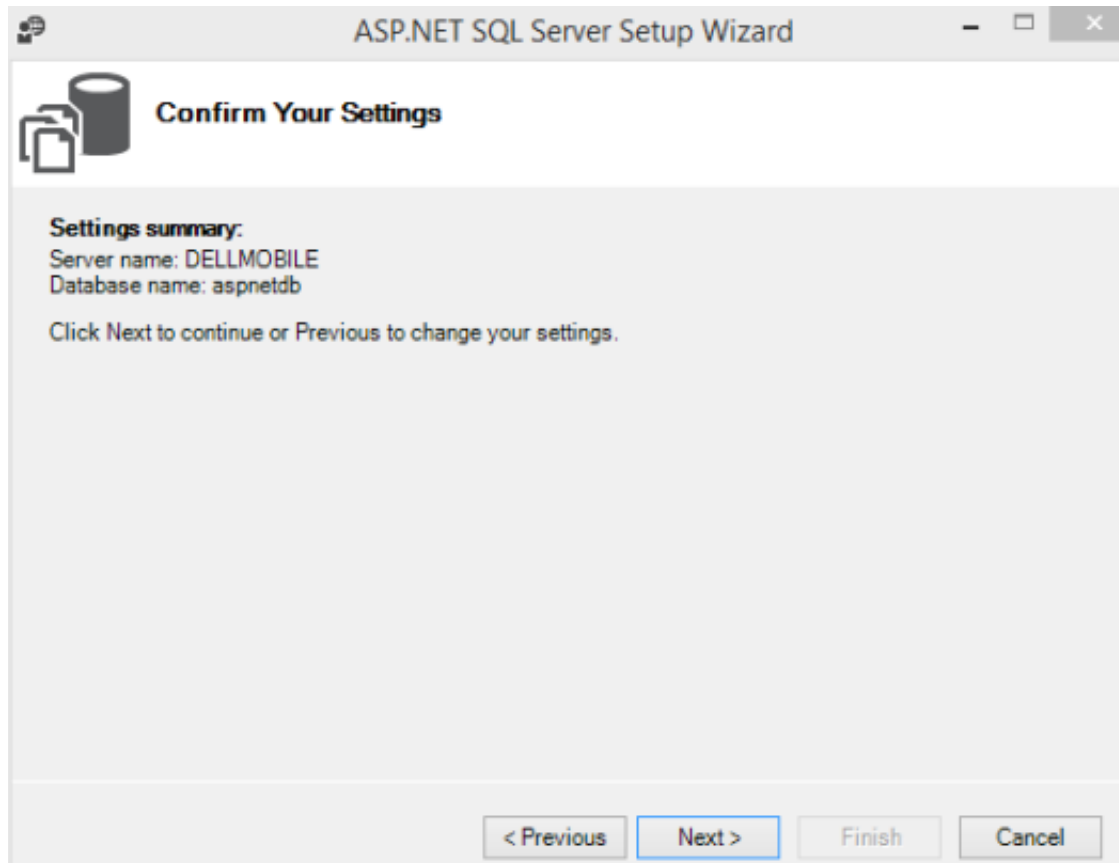


The image shows a screenshot of the 'ASP.NET SQL Server Setup Wizard' window. The title bar reads 'ASP.NET SQL Server Setup Wizard'. The main heading is 'Select the Server and Database'. Below the heading, there is an icon of a server and a database cylinder. The instructions state: 'Specify the SQL Server name, database name to create or remove, and the credentials to use when connecting to the database.' A note follows: 'Note: The credentials must identify a user account that has permissions to create or remove a database.' The form contains the following fields and options:

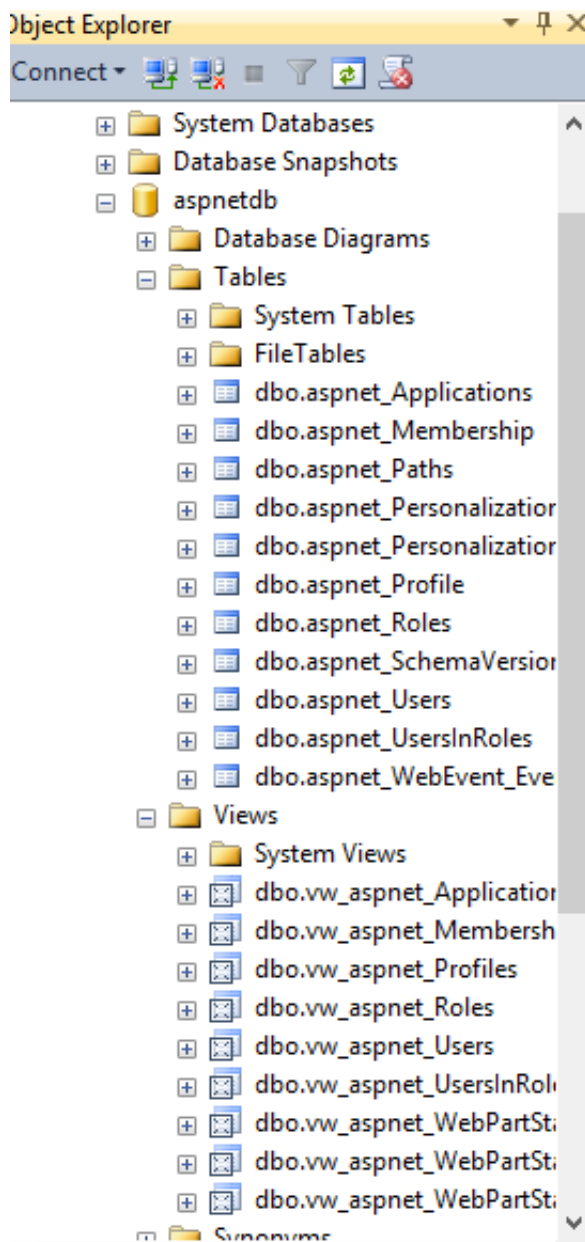
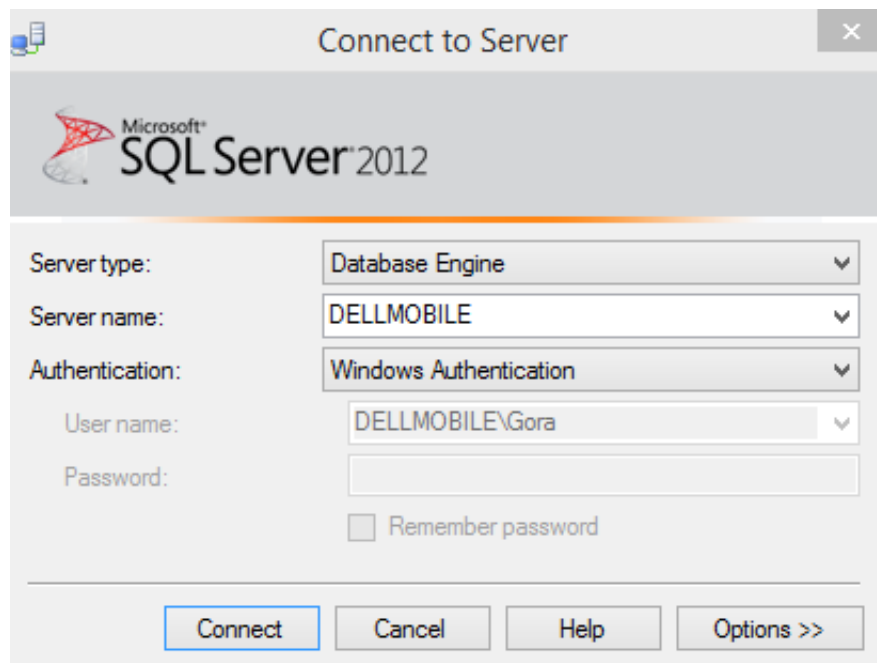
- Server:** A text box containing 'DELLMOBILE'.
- Authentication:** Two radio buttons. 'Windows authentication' is selected (indicated by a filled circle). 'SQL Server authentication' is unselected (indicated by an empty circle).
- User name:** An empty text box.
- Password:** An empty text box.
- Database:** A dropdown menu with '<default>' selected.

At the bottom of the window, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

The wizard displays the summary action, so click next to confirm and finish the action



Connect to sql server , locate aspnetdb database, expand tables, views, stored procedure. you can now explore the default microsof security database business model.



for more informations please visit [msdn web site](http://msdn.microsoft.com)

This tutorial is the first of a series [Mastering Custom ASP.NET Membership Provider using ASP.NET MVC](#), please see next [Introduction to entity framework database first](#)

# How to configure Custom Membership and Role Provider using ASP.NET MVC4

29 Jeudi août 2013

PUBLIÉ PAR [GORALEYE](#) IN [ARCHITECTURE](#), [ASP.NET](#), [C#.NET](#), [MEMBERSHIP](#), [ROLE PROVIDER](#), [SECURITY](#)

≈ [3 COMMENTAIRES](#)

## Tags

[Application Services](#), [Architecture](#), [ASP.NET](#), [C#.NET](#), [Custom Membership Provider](#), [Role provider](#), [Security](#)

ASP.NET membership is designed to enable you to easily use a number of different membership providers for your ASP.NET applications. You can use the supplied membership providers that are included with the .NET Framework, or you can implement your own providers.

There are two primary reasons for creating a custom membership provider.

- You need to store membership information in a data source that is not supported by the membership providers included with the .NET Framework, such as a MySQL database, an Oracle database, or other data sources.
- You need to manage membership information using a database schema that is different from the database schema used by the providers that ship with the .NET Framework. A common example of this would be membership data that already exists in a SQL Server database for a company or Web site.

In this tutorial, we are going to implement and configure a custom Membership Provider using ASP.NET MVC4

Let's go

## A. Create a Custom MemberShip Application class Library

1. Create a class Library Project (our sample Project name is **LogCorner.SoftwareStore.Security**)
2. Reference the assembly **System.Web.ApplicationServices** (Right Click Reference → Add



- reference => Select Assemblies => navigate to System.Web.ApplicationServices and add it)
3. Create a Class **CustomMembershipProvider** and derive it from **MembershipProvider**
  4. Override ValidateUser as follow

```
using System;
using System.Collections.Generic;
using System.Web.Security;

namespace LogCorner.SoftwareStore.Security.Infrastructure
{
    public class User
    {
        public string Username { get; set; }
        public string Password { get; set; }
    }

    public class CustomMembershipProvider : MembershipProvider
    {
        #region Private Fields
        // For simplicity, just working with a static in-memory collection
        // In any real app you'd need to fetch credentials from a database

        private static readonly List<User> Users = new List<User> {
            new User { Username = "Yves", Password = "123456" },
            new User { Username = "Jean", Password = "123456" },
            new User { Username = "Georges", Password = "123456" }
        };

        public override string ApplicationName
        {
            get
            {
                throw new NotImplementedException();
            }
            set
            {
                throw new NotImplementedException();
            }
        }

        public override bool ValidateUser(string username, string password)
        {
            return Users.Exists(u => u.Username == username && u.Password == password);
        }

        public override bool ChangePassword(string username, string oldPassword, string newPassword)
        {
            throw new NotImplementedException();
        }

        public override bool ChangePasswordQuestionAndAnswer(string username, string password, string newPasswor
        {
            throw new NotImplementedException();
        }
    }
}
```

For now we have what we need for our application security. To go further in the implementation of Custom Membership Provider, please see our tutorial [\*Mastering Custum ASP.NET MemberShip Provider using ASP.NET MVC\*](#)

## B. Create an ASP.NET MVC4 application Client

1. Create an ASP.NET MVC4 application Client ( Add New projet è ASP.NET MVC4 Web Application è Select Template Internet Web Application and Click OK)
2. Open Web.config file
3. Add or Replace membership section as follow

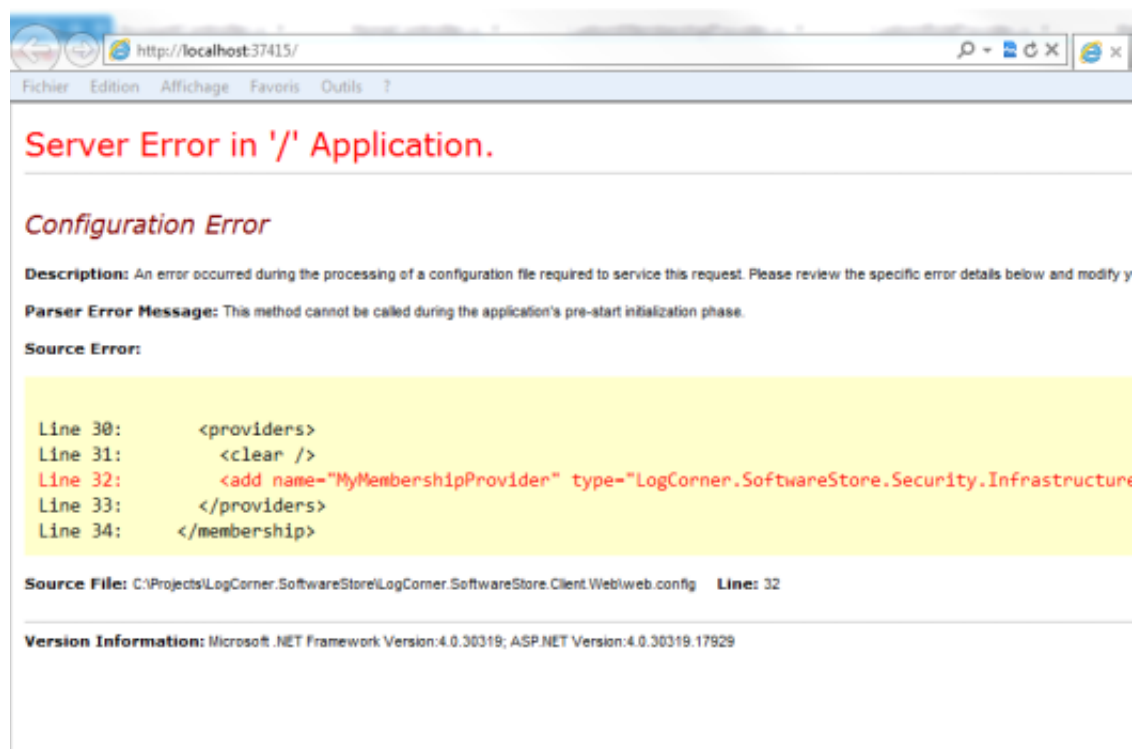
```
<authentication mode="Forms">
  <forms loginUrl "~/Account/Login" timeout="2880" />
</authentication>

<membership defaultProvider="MyMembershipProvider">
  <providers>
    <clear />
    <add name="MyMembershipProvider" type="LogCorner.SoftwareStore.Security.Infrastructure.CustomMembershipProvider"
        connectionStringName="ApplicationServices"
        enablePasswordRetrieval="false"
        enablePasswordReset="true"
        requiresQuestionAndAnswer="false"
        requiresUniqueEmail="false"
        maxInvalidPasswordAttempts="5"
        minRequiredPasswordLength="6"
        minRequiredNonalphanumericCharacters="0"
        passwordAttemptWindow="10"
        applicationName="LogCorner.SoftwareStore.Client.Web" />
  </providers>
</membership>
```

#### 4. Open **HomeController** and **Authorize** Attribute to Index **ActionResult**

```
namespace LogCorner.SoftwareStore.Client.Web.Controllers
{
    public class HomeController : Controller
    {
        [Authorize]
        public ActionResult Index()
        {
        }
    }
}
```

#### 5. Run the application ASP.NET MVC4 application Client, you ll have the errors below



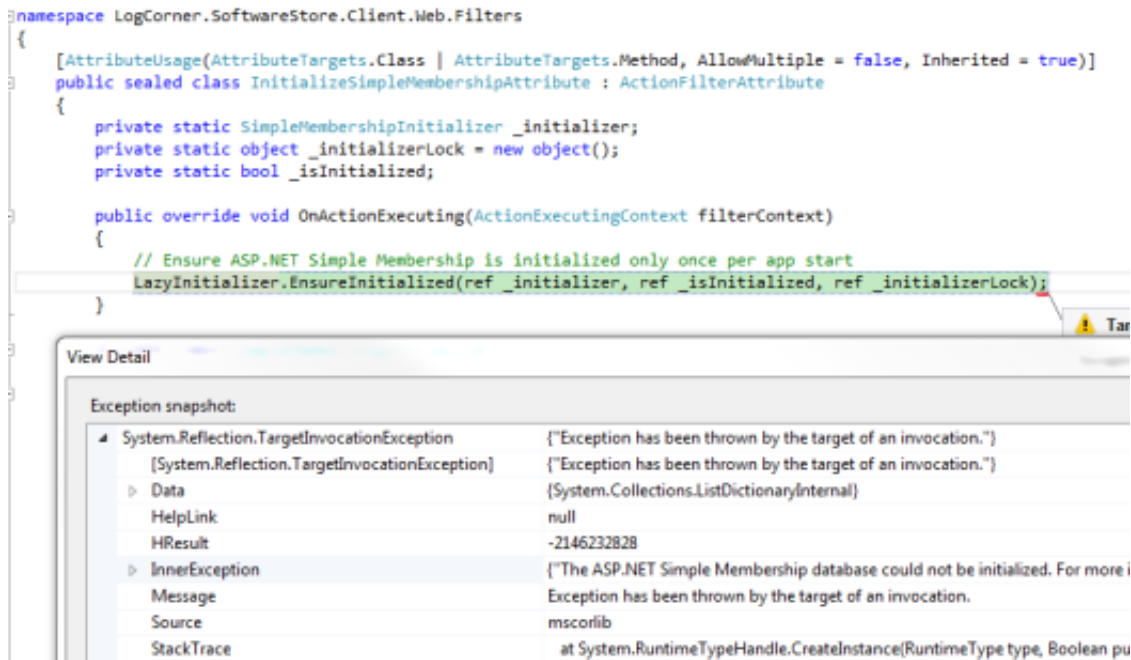
#### 6. do not panic, proceed as follows :

Add this in your web.config (in the appSettings section):

```
<add key="enableSimpleMembership" value="false"/>
```

```
<add key="autoFormsAuthentication" value="false"/>
```

#### 7. Run the application ASP.NET MVC4 application Client, you ll have another error



8. To fix it Open **AccountController** and comment **InitializeSimpleMembership** , because we using Custom Membership Provider instead of Simple Membership

9. Override **Login** Action of **AccountController** as follow :

```
//
// POST: /Account/Login

[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid && Membership.ValidateUser(model.UserName, model.Password))
    {
        return RedirectToLocal(returnUrl);
    }

    // If we got this far, something failed, redisplay form
    ModelState.AddModelError("", "The user name or password provided is incorrect.");
    return View(model);
}
```

10. Run the application ASP.NET MVC4 application Client, you'll have the form authentication below

your logo here

# Log in.

## Use a local account to log in.

User name

Password

☐

Remember me?

Log in

11. Enter user credentials and click Log In, then you will have the execution workflow below :

```
[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid && Membership.ValidateUser(model.UserName, model.Password))
    {
        return RedirectToLocal(returnUrl);
    }

    // If we got this far, something failed, redisplay form
    ModelState.AddModelError("", "The user name or password provided is incorrect.");
    return View(model);
}

public override bool ValidateUser(string username, string password)
{
    return Users.Exists(m => m.Username == username && m.Password == password);
}
```

```

[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid && Membership.ValidateUser(model.UserName, model.Password))
    {
        return RedirectToLocal(returnUrl);
    }

    // If we got this far, something failed, redisplay form
    ModelState.AddModelError("", "The user name or password provided is incorrect.");
    return View(model);
}

```

## C. Configuration of Custom Role Provider

To configure custom role provider, please proceed as follow :

1. create a class **CustomRoleProvider** that inherits from **RoleProvider**
2. Overrides **GetRolesForUser** method

```

namespace LogCorner.SoftwareStore.Security.Infrastructure
{
    public class CustomRoleProvider : RoleProvider
    {
        public override string[] GetRolesForUser(string username)
        {
            switch (username)
            {
                case "Yves":
                {
                    return new[] { "Manager", "Administrator" };
                }
                case "Jean":
                {
                    return new[] { "Operator", "Manager" };
                }
                case "Georges":
                {
                    return new[] { "Customer" };
                }
                default:
                    return new string[] { };
            }
        }

        public override void AddUsersToRoles(string[] usernames, string[] roleNames)
        {
            throw new NotImplementedException();
        }

        public override string ApplicationName
        {
            get
            {
                throw new NotImplementedException();
            }
        }
    }
}

```

3. Now open web.config file of your client asp.net web application and add a **RoleManager**

```

<roleManager enabled="true" defaultProvider="MyRoleProvider">
  <providers>
    <clear/>
    <add name="MyRoleProvider" type="LogCorner.SoftwareStore.Security.Infrastructure.CustomRoleProvider"/>
  </providers>
</roleManager>

```

section

4. Open HomeController and change Authorization as follow :

```

public class HomeController : Controller
{
    [Authorize(Roles = "Administrator")]
    public ActionResult Index()
    {

```

5. Now test your sample. Only users who have approved login credentials and who belong to role Administrator can view Index page

## Log in.

### Use a local account to log in.

User name

Password

☐

Remember me?

```

[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid)
    {
        if (Membership.ValidateUser(model.UserName, model.Password))
        {
            FormsAuthentication.SetAuthCookie(model.UserName, false);
            return Redirect(returnUrl ?? Url.Action("Index", "Admin"));
        }
        else
        {
            ModelState.AddModelError("", "Incorrect username or password");
            return View();
        }
    }
    else
    {
        return View();
    }
}

```

```

namespace LogCorner.SoftwareStore.Security.Infrastructure
{
    public class CustomRoleProvider : RoleProvider
    {
        public override string[] GetRolesForUser(string username)
        {
            switch (username)
            {
                case "Yves":
                {
                    return new[] { "Manager", "Administrator" };
                }
                case "Jean":
                {
                    return new[] { "Operator", "Manager" };
                }
                case "Georges":
                {
                    return new[] { "Customer" };
                }
                default:
                    return new string[] { };
            }
        }
    }

    public class HomeController : Controller
    {
        [Authorize(Roles = "Administrator")]
        public ActionResult Index()
        {
            ViewBag.Message = "Modify this template to jump-start your ASP.NET MVC application.";

            return View();
        }
    }
}

```

Thank you for reading us, our next tutorial is to [configure Custom Membership Provider using ASP.NET MVC4 with external login like facebook, yahoo, google or other relying party accounts.](#)

If you seek information about encoding and decoding password, please read our article [ASP.NET Custom Membership Password Encoding and Decoding based on key SALT using SHA-3 algorithm](#)

## How to configure Custom Membership Provider using ASP.NET MVC4 with external login like facebook, yahoo, google or other relying party accounts.

28 Mercredi août 2013

PUBLIÉ PAR GORALEYE IN [ARCHITECTURE](#), [ASP.NET](#), [C#.NET](#), [EXTERNAL LOGIN](#), [MEMBERSHIP](#), [OAUTH PROVIDERS](#), [ROLE PROVIDER](#), [SECURITY](#)

Tags

Application Services, Architecture, ASP.NET, C#.NET, Custom Membership Provider, OAuth Providers, Role provider, Security

ASP.NET membership is designed to enable you to easily use a number of different membership providers for your ASP.NET applications. You can use the supplied membership providers that are included with the .NET Framework, or you can implement your own providers.

There are two primary reasons for creating a custom membership provider.

- You need to store membership information in a data source that is not supported by the membership providers included with the .NET Framework, such as a MySQL database, an Oracle database, or other data sources.
- You need to manage membership information using a database schema that is different from the database schema used by the providers that ship with the .NET Framework. A common example of this would be membership data that already exists in a SQL Server database for a company or Web site.

In this tutorial, we are going to implement and configure a custom Membership Provider using ASP.NET MVC4 that enable external login like facebook, yahoo , google or other relying party accounts.

Let's go

## A. Create a Custom MemberShip Application class Library

1. Create a class Library Project (our sample Project name is **LogCorner.SoftwareStore.Security**)
2. Reference the assembly **System.Web.ApplicationServices** (Right Click Reference => Add reference and Select Assemblies => navigate to System.Web.ApplicationServices and add it)
3. Create a Class **CustomMembershipProvider** . Here we are going to enable external login like facebook, yahoo , google or other relying party accounts. So derive our custom class from **ExtendedMembershipProvider** whose base class is **MembershipProvider**
4. So reference the assembly **WebMatrix.WebData** or get it via nuget Packages



## Reference Manager - LogCorner.SoftwareStore.Security

Assemblies			Targeting: .NET Framework 4.5
Framework	Name	Version	
Extensions	<input checked="" type="checkbox"/> WebMatrix.WebData	2.0.0.0	
Recent	WebMatrix.WebData	1.0.0.0	
	WebMatrix.Data	2.0.0.0	
▸ Solution	WebMatrix.Data	1.0.0.0	
▸ COM	VsWebSite.Interop90	9.0.0.0	
	VsWebSite.Interop90	9.0.0.0	
	VsWebSite.Interop90	9.0.0.0	
▸ Browse	VsWebSite.Interop90	9.0.0.0	
	VsWebSite.Interop100	10.0.0.0	
	VsWebSite.Interop100	10.0.0.0	
	VsWebSite.Interop100	10.0.0.0	
	VsWebSite.Interop	8.0.0.0	
	VsWebSite.Interop	8.0.0.0	

5.

6. Override ValidateUser as follow

```

namespace LogCorner.SoftwareStore.Security.Infrastructure
{
    public class User
    {
        public string Username { get; set; }
        public string Password { get; set; }
    }

    public class CustomMembershipProvider : ExtendedMembershipProvider
    {
        #region Private Fields
        // For simplicity, just working with a static in-memory collection
        // In any real app you'd need to fetch credentials from a database. Password Must be encrypted
        private static readonly List<User> Users = new List<User> {
            new User { Username = "Yves", Password = "123456" },
            new User { Username = "Jean", Password = "123456" },
            new User { Username = "Georges", Password = "123456" }
        };

        public override bool ValidateUser(string username, string password)
        {
            return Users.Exists(e => e.Username == username && e.Password == password);
        }

        public override bool ConfirmAccount(string accountConfirmationToken)
        {
            throw new NotImplementedException();
        }

        public override bool ConfirmAccount(string userName, string accountConfirmationToken)
        {
            throw new NotImplementedException();
        }

        public override string CreateAccount(string userName, string password, bool requireConfirmationToken)
        {
            throw new NotImplementedException();
        }

        public override string CreateUserAndAccount(string userName, string password, bool requireConfirmation, IDictionary<string, object> userProperties)
        {
            throw new NotImplementedException();
        }

        public override bool DeleteAccount(string userName)
        {
            throw new NotImplementedException();
        }
    }
}

```

For now we have what we need for our application security. To go further in the implementation of Custom Membership Provider, please see our tutorial [Mastering Custom ASP.NET Membership Provider using ASP.NET MVC](#)

## B. Create an ASP.NET MVC4 application Client

1. Create an ASP.NET MVC4 application Client ( Add New projet è ASP.NET MVC4 Web Application è Select Template Internet Web Appplication and Click OK)
2. Open Web.config file
3. Add or Replace membership section as follow

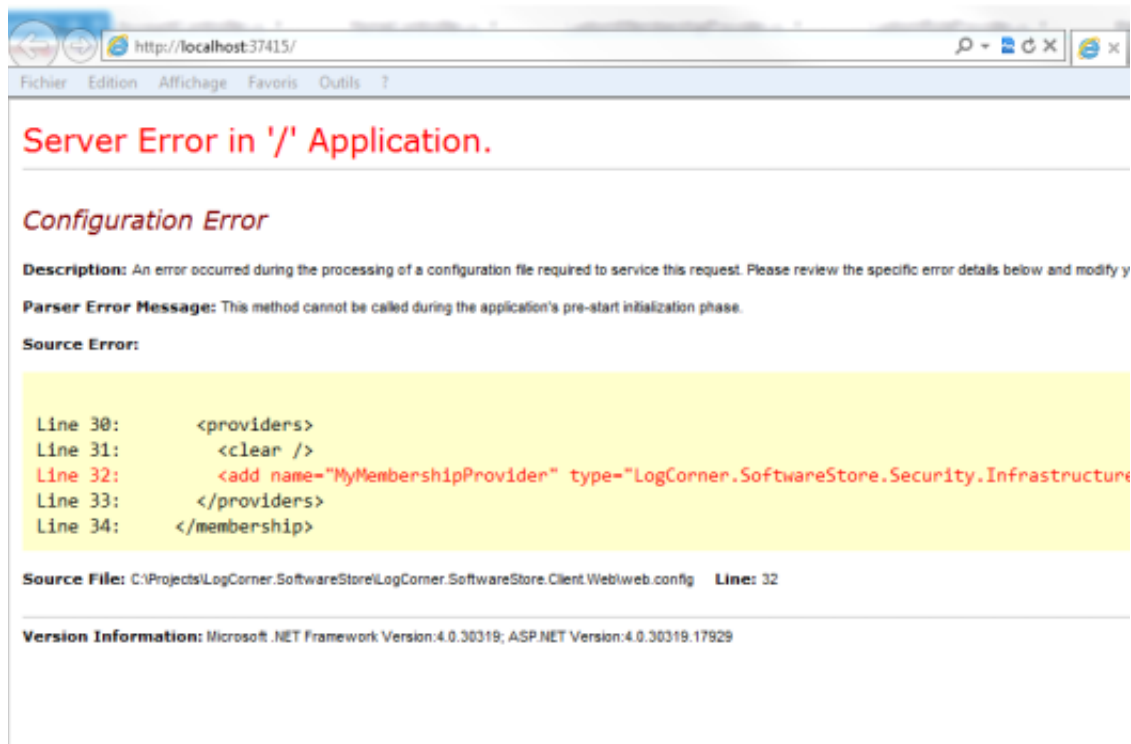
```
<authentication mode="Forms">
  <forms loginUrl "~/Account/Login" timeout="2880" />
</authentication>

<membership defaultProvider="MyMembershipProvider">
  <providers>
    <clear />
    <add name="MyMembershipProvider" type="LogCorner.SoftwareStore.Security.Infrastructure.CustomMembershipProvider"
        connectionStringName="ApplicationServices"
        enablePasswordRetrieval="false"
        enablePasswordReset="true"
        requiresQuestionAndAnswer="false"
        requiresUniqueEmail="false"
        maxInvalidPasswordAttempts="5"
        minRequiredPasswordLength="6"
        minRequiredNonalphanumericCharacters="0"
        passwordAttemptWindow="10"
        applicationName="LogCorner.SoftwareStore.Client.Web" />
  </providers>
</membership>
```

4. Open **HomeController** and **Authorize** Attribute to Index **ActionResult**

```
namespace LogCorner.SoftwareStore.Client.Web.Controllers
{
    public class HomeController : Controller
    {
        [Authorize]
        public ActionResult Index()
        {
        }
    }
}
```

5. Run the application ASP.NET MVC4 application Client, you ll have the errors below



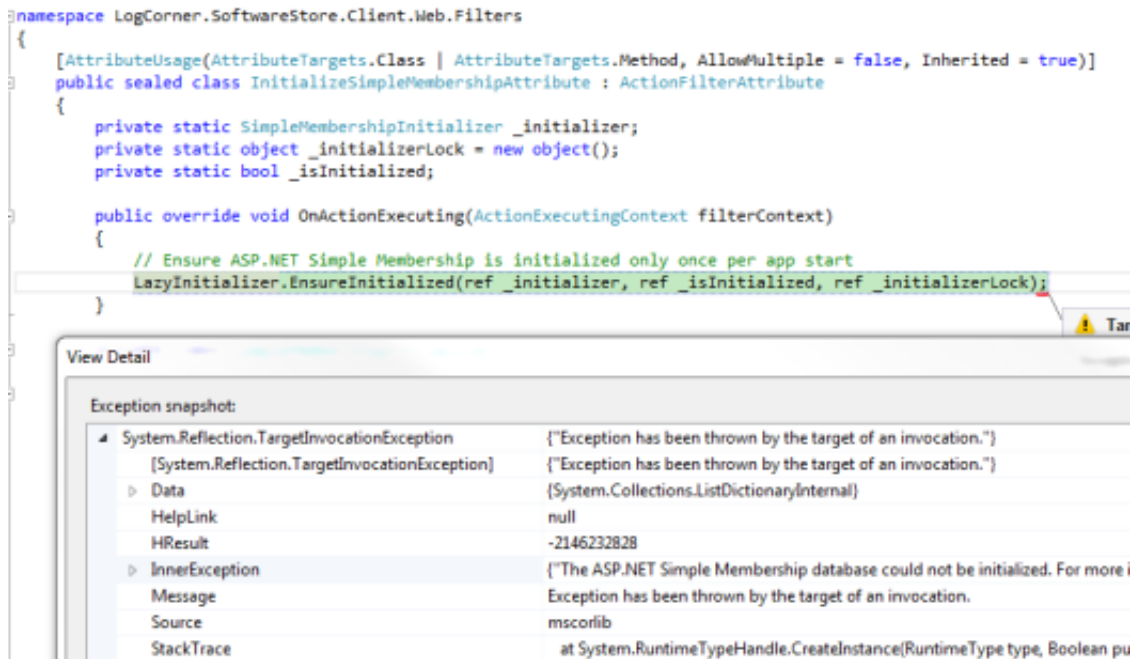
6. do not panic, proceed as follows :

Add this in your web.config (in the appSettings section):

```
<add key="enableSimpleMembership" value="false"/>
```

```
<add key="autoFormsAuthentication" value="false"/>
```

7. Run the application ASP.NET MVC4 application Client, you ll have another error



8. To fix it Open **AccountController** and comment **InitializeSimpleMembership** , because we using Custom Membership Provider instead of Simple Membership

9. Override **Login** Action of **AccountController** as follow :

```
//
// POST: /Account/Login

[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid && Membership.ValidateUser(model.UserName, model.Password))
    {
        return RedirectToLocal(returnUrl);
    }

    // If we got this far, something failed, redisplay form
    ModelState.AddModelError("", "The user name or password provided is incorrect.");
    return View(model);
}
```

10. Run the application ASP.NET MVC4 application Client, you'll have the form authentication below. Note that external logins are disabled. Will going to configure external logins further

your logo here

Register Login

Home About Contact

## Log in.

### Use a local account to log in.

User name

Password

☐ Remember me?

[Register](#) if you don't have an account.

### Use another service to log in.

There are no external authentication services configured. See [this article](#) for details on setting up this ASP.NET application to support logging in via external services.

11. Enter user credentials and click Log In, then you will have the execution workflow below :

```
// POST: /Account/Login
[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid && WebSecurity.Login(model.UserName, model.Password, persistCookie: model.RememberMe))
    {
        return RedirectToLocal(returnUrl);
    }

    // If we got this far, something failed, redisplay form
    ModelState.AddModelError("", "The user name or password provided is incorrect.");
    return View(model);
}

public class CustomMembershipProvider : ExtendedMembershipProvider
{
    #region Private Fields
    // For simplicity, just working with a static in-memory collection
    // In any real app you'd need to fetch credentials from a database. Password Must be encrypted
    private static readonly List<User> Users = new List<User> {
        new User { Username = "Yves", Password = "123456" },
        new User { Username = "Jean", Password = "123456" },
        new User { Username = "Georges", Password = "123456" }
    };

    public override bool ValidateUser(string username, string password)
    {
        return Users.Exists(e => e.Username == username && e.Password == password);
    }

    public override bool ConfirmAccount(string accountConfirmationToken)
    {
        throw new NotImplementedException();
    }
}

[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult Login(LoginModel model, string returnUrl)
{
    if (ModelState.IsValid && WebSecurity.Login(model.UserName, model.Password, persistCookie: model.RememberMe))
    {
        return RedirectToLocal(returnUrl);
    }

    // If we got this far, something failed, redisplay form
    ModelState.AddModelError("", "The user name or password provided is incorrect.");
    return View(model);
}
```

## B. Configuration Custom Membership Provider using ASP.NET MVC4 with external login like facebook, yahoo , google or other relying party accounts.

### 1. Registering with an external provider

To authenticate users with credentials from an external provider, you must register your web site with the provider. When you register your site, you will receive the parameters (such as key or id, and secret) to include when registering the client. You must have an account with the providers you wish to use.

To successfully register your site, follow the instructions provided on this sites :

- FaceBook developer
- Google Developer
- Microsoft developer
- Twitter developer

2. navigation to App\_Start of your web application ,locate AuthConfig.cs file and open it

```
namespace LogCorner.SoftwareStore.Client.Web
{
    public static class AuthConfig
    {
        public static void RegisterAuth()
        {
            // To let users of this site log in using their accounts from other sites such as Microsoft, Facebook, and Twitter,
            // you must update this site. For more information visit http://go.microsoft.com/fwlink/?LinkID=252166

            //OAuthWebSecurity.RegisterMicrosoftClient(
            //    clientId: "",
            //    clientSecret: "");

            //OAuthWebSecurity.RegisterTwitterClient(
            //    consumerKey: "",
            //    consumerSecret: "");

            //OAuthWebSecurity.RegisterFacebookClient(
            //    appId: "",
            //    appSecret: "");

            //OAuthWebSecurity.RegisterGoogleClient();
        }
    }
}
```

### 3. Update

**RegisterAuth** method with parameters (such as key or id, and secret) you have received from facebook, twitter, google, yahoo. etc.....

```

public static class AuthConfig
{
    public static void RegisterAuth()
    {
        // To let users of this site log in using their accounts from other sites such as Microsoft, Facebook, and Twitter,
        // you must update this site. For more information visit http://go.microsoft.com/fwlink/?LinkID=252166

        OAuthWebSecurity.RegisterMicrosoftClient(
            clientId: "00000000400E8664",
            clientSecret: "ex51J09xxxxxi-DQbHOYA4NLIrdAg");

        OAuthWebSecurity.RegisterTwitterClient(
            consumerKey: "Hpr5R8bfxxxxLeK3cA",
            consumerSecret: "607215559-h5xxxxzPvt4KydwbqifRFDqk15T9wSry"
        );

        OAuthWebSecurity.RegisterFacebookClient(
            appId: "48848xxxx27",
            appSecret: "c0f9exxxx2493c5fd91f");

        OAuthWebSecurity.RegisterYahooClient();

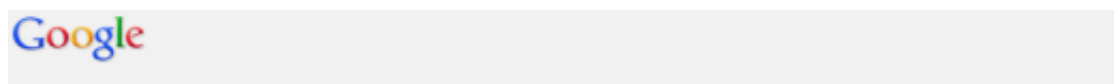
        OAuthWebSecurity.RegisterGoogleClient();

        OAuthWebSecurity.RegisterLinkedInClient("cpg6xxx8b5kld", "uwl6CxxxxxH16MZx");
    }
}

```

4. Next run your web application, then your logon form must be updated with external logins

5. Click on Google button (for example )



### Localhost -

Localhost souhaiterait :



Afficher votre adresse e-mail.



Localhost et Google utiliseront ces informations conformément à leurs conditions d'utilisation et à leurs règles de confidentialité respectives.

Annuler

J'accepte

```

[HttpPost]
[AllowAnonymous]
[ValidateAntiForgeryToken]
public ActionResult ExternalLogin(string provider, string returnUrl)
{
    return new ExternalLoginResult(provider, Url.Action("ExternalLoginCallback", new { ReturnUrl = returnUrl }));
}

```

```
[AllowAnonymous]
public ActionResult ExternalLoginCallback(string returnUrl)
{
    AuthenticationResult result = OAuthWebSecurity.VerifyAuthentication(Url.Action("ExternalLoginCallback", new { ReturnUrl = returnUrl }));
    if (!result.IsSuccessful)
    {
        return RedirectToAction("ExternalLoginFailure");
    }

    if (OAuthWebSecurity.Login(result.Provider, result.ProviderUserId, createPersistentCookie: false))
    {
        return RedirectToLocal(returnUrl);
    }
}
```

If you seek information about encoding and decoding password, please read our article [ASP.NET Custom Membership Password Encoding and Decoding based on key SALT using SHA-3 algorithm](#)

We have at the end of this tutorial, thank you for feedbacks.

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