# Lab 09: Setting up a SharePoint Internet Site

**Lab Overview:** In this lab you will create a MOSS Publishing Site that is completely anonymous accessible. http://customer.tpg.local You will also create a new SSP for this site. Then you will make the anonymous site use Forms Based Authentication against a SQL store.

## Exercise 1: Creating a new web application

1. Setup DNS
   1. Click Start > Administrative Tools > **DNS**
   2. Expand Litwareserver > Forward Lookup Zones > **TPG.local** then right click on TPG.local and choose **New Alias (CNAME)**
   3. For Alias name enter **customer**
   4. For FQDN enter **litwareserver.tpg.local**
   5. Click **OK**
   6. Repeat for **cust**
   7. Close **DNS Management**
2. Setup a new user for the App Pool
   1. Click Start > Administrative Tools > **Active Directory Users and Computers**
   2. Click on the **Users** container
   3. Click **Create a new user**



* 1. First Name: **SharePoint**
  2. Last Name: **Customer App Pool**
  3. User logon name: **SP\_CustomerAppPool**
  4. Click **Next**
  5. Password: **pass@word1**
  6. Uncheck **User must change password at next logon**
  7. Click **Next**
  8. Click **Finish**
  9. Repeat for **SP\_CustomerSSP**
  10. Close **User Management**

1. For this web application we will not setup Kerberos
2. Open **Central Admin**
3. Go to the **Application Management** tab
4. Under SharePoint Web Application Management click **Create or extend Web application**
5. Click **Create a new Web application**
   1. Port = **80**
   2. Host Header = **customer.tpg.local**
   3. Create **New application pool**
   4. Username = **tpg\sp\_CustomerAppPool**
   5. Password = **pass@word1**
   6. Database Name = **WSS\_Content\_Customer**
   7. Click **OK**
6. Create a new SSP
   1. From the quick launch click **Shared Services Administration**
   2. Click **New SSP**
   3. SSP Name = **Customer SSP**
   4. For SSP Web application choose **customer.tpg.local**
   5. For MY Site Location choose **customer.tpg.local**
   6. Relative URL = **/mysite**
   7. Username = **tpg\sp\_CustomerSSP**
   8. Password = **pass@word1**
   9. SSP Database = **CustomerSSP\_db**
   10. SSP Search Database = **CustomerSSP\_Search\_db**
   11. Click **OK**
   12. Click **OK** at the warning screen
   13. Click **OK** at the success screen
7. Create the publishing Site Collection
   1. Click the **Application Management** tab
   2. Under SharePoint Site Management click **Create site collection**
   3. Title = **TPG Customers**
   4. Template = **Publishing Tab**, **Publishing Portal**
   5. Site Collection Administrator = **tpg\alan**
   6. Click **OK**
   7. Click **OK** at the Success screen
8. Set the Web application to allow anonymous access
   1. From the Application Management tab, under Application Security click **Authentication providers**
   2. Click **Default** (make sure the web application is set to **http://customer.tpg.local**)
   3. Click **Enable anonymous access**
   4. Click **Save**
9. Set the customer publishing site for anonymous access
   1. Open **http://customer.tpg.local**
   2. Log in as **tpg\alan**
   3. Click Site Actions > Site Settings > **Modify All Site Settings**
   4. Under Users and Permissions click **Advanced permissions**
   5. Click Settings > **Anonymous Access**
   6. Select **Entire Web site**
   7. Click **OK**
10. Open **Firefox** from the desktop. Click **No** at any Firefox configuration messages.
11. Go to **http://customer.tpg.local**
12. If you have done everything correctly no logins! You can check the top right hand corner. If you see Sign In then you know you are accessing the page anonymously.

## Exercise 2: Setup a site that requires authentication

News Flash! The Customer site is a hit! So much so that your sales team wants to create a portion of the site that allows new customer to login and download information. You have the potential to grow to 1000’s of users so adding these people to your Active Directory is not an option. You will deploy forms based authentication.

1. Begin by creating the Downloads site
2. From the home page click **Sign In** (Firefox or IE)
3. Sign in as **tpg\alan**
4. Create a sub site for Customer Downloads
   1. Click Site Actions > **Create Site**
   2. Title = **Customer Downloads**
   3. URL = **downloads**
   4. Select **Use unique permissions**
   5. Click **Create**
   6. Take the groups defaults
   7. Click **OK**
5. Click **Submit for Approval**
6. Click **Start**
7. Approve the page
   1. Click Site Actions > **View All Site Content**
   2. Click **Pages**
   3. Hover over **default**, click the drop down and choose **Approve/reject**
   4. Select **Approved** and click **OK**
   5. Click **OK** at the pop up
8. Navigate back to the home page **http://customer.tpg.local**
9. Click **Welcome Alan Admin** and **sign out**
10. Click **Go back to site**
11. Notice now you do not see the customer downloads tab. That is security trimming working, the site knows anonymous users don’t have access to that site so it doesn’t show it. Try typing in the URL. http://customers.tpg.local/downloads you should get a login prompt. Perfect. (If you didn’t get a prompt then cache probably got the best of you. Close the browser and try again.)
12. Close **all open windows**

## Exercise 3: Forms Based Authentication

That was the easy part. Now for the challenge of your skills. Windows based authentication would be great for your employees but now getting those 1000’s of customer access is priority one. For this you will be using Forms Based Authentication.

For FBA the developers have provided you with a database to use for your user storage. They have also given you all of the configuration settings. It is your job to hook it all up to SharePoint.

1. Deploy the database
   1. Click Start > All Programs > Microsoft SQL Server 2005 > **SQL Server Management Studio**
   2. Click **Connect**
   3. Expand **Litwareserver**
   4. Right click **Databases**
   5. Click **Restore Database…**
   6. Select **From device**
   7. Click **…** button
   8. Click **Add**
   9. Navigate to **c:\\_student files\module 9**
   10. Select **TPG\_FBA.bak**
   11. Click **OK**
   12. Click **OK** at Specify Backup
   13. Check **Restore** beside Name
   14. To Database select **TPG\_FBA**
   15. Click **OK**
   16. Click **OK** at the successful message
2. Set security on your new database

The Application Pool accounts of the web applications that will use FBA need access to read and write the database. Granting access to sp\_CustomerAppPool may be obvious but don’t forget about sp\_Farm. Central Admin will not use FBA but it will need access to the user store to look up users.

* 1. Expand **Databases**
  2. Expand **TPG\_FBA**
  3. Expand **Security**
  4. Right click on **Users** and click **New User…**
  5. User name = **tpg\SP\_Farm**
  6. Login Name = **tpg\sp\_farm**
  7. Under Database role membership select **db\_owner**, **db\_datareader** and **db\_datawriter**
  8. Click **OK**
  9. Repeat for **tpg\SP\_CustomerAppPool**
  10. Close **SQL Management Studio**

1. Update web.config for customer.tpg.local
   1. Navigate to c**:\inetpub\wwwroot\wss\VirtualDirectories\customer.tpg.local80**
   2. Make a copy of **web.config** (just in case)
   3. Right click on **web.config** and choose **open with…**
   4. Choose **Notepad** and click **OK** (if you prefer to use Visual Studio you may. Do NOT use Word pad!)
   5. Add the following text to your web.config file between **</configSections>** and **<SharePoint>** (if you prefer to cut and paste you will find a file called **customer.txt** in the **module 9 folder**)

<connectionStrings>

<add name="TPG\_Connect" connectionString="Data Source=litwareserver; Initial Catalog=TPG\_FBA;Integrated Security=True" />

</connectionStrings>



* 1. Add the following text between **<system.web>** and **<securitypolicy>** (second half of **customer.txt**)

<membership defaultProvider="TPG\_Members">

<providers>

<add connectionStringName="TPG\_Connect" enablePasswordRetrieval="false" enablePasswordReset="true" requiresQuestionAndAnswer="false" applicationName="/" requiresUniqueEmail="false" passwordFormat="Hashed" maxInvalidPasswordAttempts="5" minRequiredPasswordLength="1" minRequiredNonalphanumericCharacters="0" passwordAttemptWindow="10" passwordStrengthRegularExpression="" name="TPG\_Members" type="System.Web.Security.SqlMembershipProvider,System.Web,Version=2.0.0.0,Culture=neutral,PublicKeyToken=b03f5f7f11d50a3a" />

</providers>

</membership>

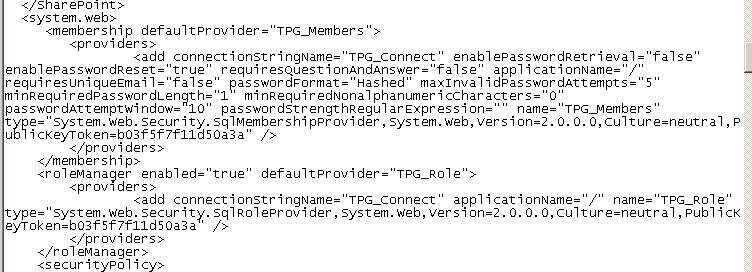
<roleManager enabled="true" defaultProvider="TPG\_Role">

<providers>

<add connectionStringName="TPG\_Connect" applicationName="/" name="TPG\_Role" type="System.Web.Security.SqlRoleProvider,System.Web,Version=2.0.0.0,Culture=neutral,PublicKeyToken=b03f5f7f11d50a3a" />

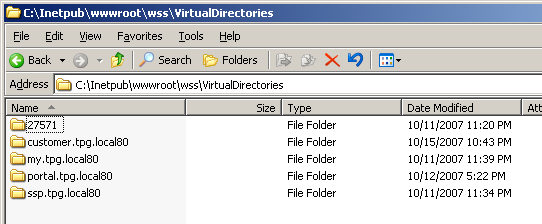
</providers>

</roleManager>



* 1. **Save** the file

1. Edit the web.config for central admin
   1. Now navigate to **c:\inetpub\wwwroot\wss\vituraldirectories**
   2. Open the folder that is just a **number**. In the example below it is 27571 (your number may be different.)



* 1. Make a copy of the **web.config** file
  2. Right click on web.config, Open with > **Notepad**
  3. Make the same change as step E above. There is a file called **centraladmin.txt** in the **module 9 folder** you can copy from.

<connectionStrings>

<add name="TPG\_Connect" connectionString="Data Source=litwareserver; Initial Catalog=TPG\_FBA;Integrated Security=True" />

</connectionStrings>



* 1. Make the **same changes** as step F above

<membership defaultProvider="TPG\_Members">

<providers>

<add connectionStringName="TPG\_Connect" enablePasswordRetrieval="false" enablePasswordReset="true" requiresQuestionAndAnswer="false" applicationName="/" requiresUniqueEmail="false" passwordFormat="Hashed" maxInvalidPasswordAttempts="5" minRequiredPasswordLength="1" minRequiredNonalphanumericCharacters="0" passwordAttemptWindow="10" passwordStrengthRegularExpression="" name="TPG\_Members" type="System.Web.Security.SqlMembershipProvider,System.Web,Version=2.0.0.0,Culture=neutral,PublicKeyToken=b03f5f7f11d50a3a" />

</providers>

</membership>

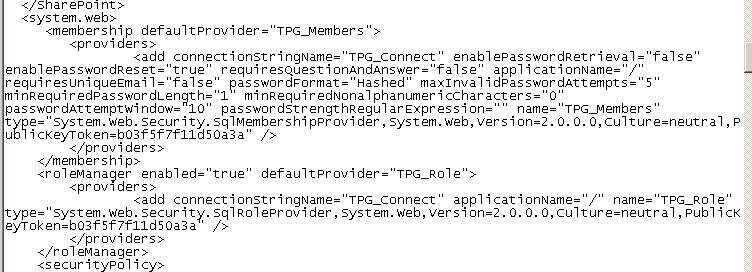
<roleManager enabled="true" defaultProvider="TPG\_Role">

<providers>

<add connectionStringName="TPG\_Connect" applicationName="/" name="TPG\_Role" type="System.Web.Security.SqlRoleProvider,System.Web,Version=2.0.0.0,Culture=neutral,PublicKeyToken=b03f5f7f11d50a3a" />

</providers>

</roleManager>



* 1. Now find the line <role manager enabled=”true” defaultProvider=”TPG\_Role”> and change TPG\_Role to **AspNetWindowsTokenRoleProvider** (if you copied from **centraladmin.txt** skip this step)



* 1. **Save** the file
  2. **Close** all open windows

1. Change the authentication settings for customer.tpg.local
   1. Open **Central Admin**
   2. Click the **Application Management** tab
   3. Under Application Settings click **Authentication providers**
   4. Make sure you are on the **http://customer.tpg.local** web app and click **Default**
   5. For authentication type select **Forms**
   6. Membership provider name = **TPG\_Members**
   7. Role manager name = **TPG\_Role**
   8. Click **Save**
2. Grant access to the FBA account to login to the site
   1. Click **Application Management** tab
   2. Under SharePoint Site Management click **Site collection administrators**
   3. Change Primary site collection administrator to **admin**
   4. Click **OK**
3. Try out FBA
   1. Open a new browser and navigate to **http://customer.tpg.local**
   2. Initially the page should load without any login prompts thanks to anonymous access
   3. Click **Sign In** up in the top right corner
   4. User name = **admin**
   5. Password = **pass@word1**
   6. Click **Sign In**
   7. If you are taken back to the page and it says Welcome admin Congrats! You have done well and setup FBA.

## Exercise 4: Adding users

Out of the box SharePoint provides you with no mechanism for managing users in the SQL store. Meaning adding another user or role is impossible. You must either buy a 3rd party tool to manage the users, build your own, or use the free feature on CodePlex. For the lab try out the CodePlex solution conveniently downloaded to your machine.

1. Install the feature
   1. Open a **command prompt**
   2. Navigate to the 12 hive **c:\program files\common files\Microsoft shared\web server extensions\12**
   3. Run the stsadm command to add the solution

Stsadm –o addsolution –filename “C:\\_student files\module 9\fbamanagement.wsp”

* 1. Run the stsadm command to deploy the solution

Stsadm –o deploysolution –name FBAManagement.wsp –immediate –allowgacdeployment

* 1. Run the stadm command to force timer jobs to run

Stsadm –o execadmsvcjobs

* 1. Run the stsadm commands to activate the features

Stsadm –o activatefeature –name FBAConfigurationManagement

Stsadm –o activatefeature –name FBAUserRoleManagement –url http://customer.tpg.local

* 1. Exit the **command prompt**

1. Open the site and check out the new feature
   1. Navigate to **http://customer.tpg.local**
   2. Sign in as **admin**
   3. Open **Site Settings**
   4. Under Site Collection Administration click **Mange FBA Users**
2. Create a new Role and put Freddy in it
   1. Click **New Role**
   2. Role name = **FBA\_Members**
   3. Click **OK**
   4. Click **New User**
   5. Username = **freddy**
   6. Password = **pass@word1**
   7. Email = **freddy@tpg.local**
   8. Select **FBA\_Members**
   9. Click **OK**
3. Now you have put Freddy in the Role FBA\_Members. This is just like putting him in an AD group. Now you can grant that group access to the SharePoint site. Remember, right now Freddy exist in the user store but he does NOT have access to the SharePoint site. Add him to the customer site.
   1. Navigate to **http://customer.tpg.local/downloads**
   2. Open **Site Settings**
   3. Under Users and Permissions click **People and groups**
   4. Click **New**
   5. Users/Groups = **FBA\_Members**
   6. Add users to a SharePoint group = **TPG Customers Visitors [Read]**
   7. Deselect **Send welcome e-mail**
   8. Click **OK**
4. Try to login as Freddy
   1. Return to the **home page**
   2. Click **Welcome admin**
   3. **Sign in as Different user**
   4. Username = **Freddy**
   5. Password = **pass@word1**
   6. Now Freddy has read only access to the site. When the sales people upload files here Freddy will be able to download them.

## Exercise 5: Fixing Search

But now that you are using FBA there are new challenges. The primary challenge? Search doesn’t not work. In order to get search working you will create a separate web application http://cust.tpg.local that uses windows integrated authentication. Then with a little configuration everything should work like a charm.

1. Open the SSP
   1. Open **Central Admin**
   2. In the quick launch click on **Customer SSP**
   3. Yikes! An FBA login, but you didn’t grant any FBA users access to the SSP. Time to back pedal.

You have two choices. Either grant admin access using Policy for Web application or create a new Web application that is mapped to customer.tpg.local that uses windows auth.

As it turns out you will need a windows auth app for search to work so you should go that route.

1. Create the cust.tpg.local Web app
   1. Open **Central admin**
   2. Click the **Application Management** tab
   3. Under SharePoint Web Application Management click **Create or extend Web application**
   4. Choose **Extend an existing Web application**
   5. For Web Application click **No selection** > **change web application**
   6. Click **customer.tpg.local**
   7. Port = **80**
   8. Host Header = **cust.tpg.local**
   9. Click **OK**
2. Try the SSP again
   1. Navigate to **http://cust.tpg.local/ssp/admin**
   2. Sign in as **tgp\sp\_admin**
   3. Under Search click **Search settings**
   4. Click **Content sources and crawl schedules**
   5. Click **Local Office SharePoint Server sites**
   6. Look under Start Addresses. Notice that sps3://customer.tpg.local is still pointed to the FBA URL. This will not work. Change the URL to **sps3://cust.tpg.local**
   7. Select **Start full crawl of this content source**
   8. Click **OK**
   9. Click **Search Settings** in the breadcrumb
   10. After a minute you should see about 122 results and 0 errors. If so good job!

## Exercise 6: Adding SSL

Customers? Logins? Over the internet? Encrypting the communication is a must. For this lab you will install the IIS Resource Kit and then use a self signed SSL certificate.

1. Install the IIS Resource kit
   1. Navigate to **c:\\_student files\module 9**
   2. Run **iis60rkt.exe**
   3. Click **Next**
   4. Check **I agree** and click **Next**
   5. Click **Next 3** more times
   6. Click **Finish**
2. Find the ID for the customer.tpg.local Web application
   1. Start > Administrative Tools > **IIS Manager**
   2. Expand **Litwareserver**
   3. Click **Web Sites**
   4. To the right of SharePoint – customer.tpg.local80 locate the Identifier (10 digit number). **Write the number down** below

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* 1. Close **IIS Manager**

1. Install the certificate
   1. Start > All Programs > IIS Resources > SelfSSL > **SelfSSL**
   2. At the command prompt run the following command. Replace ########## with the id from step 2 –D from above

Selfssl.exe /T /N:cn=customer.tpg.local /S:########## /q

* 1. At successful message close the **command prompt**

1. Try out the change
   1. Open **https://customer.tpg.local** in your browser

When the site opens you will notice you were redirected to http://customer.tpg.local/pages/default.aspx

This is because SharePoint doesn’t understand the request for https so it redirects you to the default URL.

1. Configure AAM
   1. Open **Central Admin**
   2. Navigate to the **Operations** tab
   3. Under Global Configuration click **Alternate access mappings**
   4. Click **Edit Public URLS**
   5. Change AAM Collection to **http://customer.tpg.local**
   6. Change the default URL to **https://customer.tpg.local**
   7. Click **Save**
2. Now you have SSL only setup. This is because your goal is to not allow HTTP access to the FBA site. But your users will still try to access it over HTTP and you don’t want them getting 404 errors or ending up at a random page. You need to make some changes in IIS.
   1. Open **IIS Manager**
   2. Expand **Litwareserver**
   3. Expand **Web Sites**
   4. Right click on **SharePoint – customer.tpg.local80** and click **properties**
   5. Change TCP port from 80 to **8001**
   6. Click **Directory Security** tab
   7. In the Secure communications click **Edit**
   8. Check **Require secure channel (SSL)**
   9. Click **OK**
   10. Click **OK**
3. Now create the redirect site
   1. Right click Web Sites > New >**Web Site**
   2. Click **Next**
   3. Description = **Customer Redirect**
   4. Click **Next**
   5. Host Header = **customer.tpg.local**
   6. Click **Next**
   7. Click **Browse**
   8. Expand **C:**, **Inetpub**, **wwwroot**
   9. Click **Make New Folder**
   10. Enter **Redirect**
   11. Click **OK**
   12. Click **Next, Next, Finish**
4. Setup the redirect
   1. Right click **Customer Redirect** and select **Properties**
   2. Click **Home Directory** tab
   3. Select **A redirection to a URL**
   4. Redirect to = **https://customer.tpg.local**
   5. Select **A permanent redirection for this resource**
   6. Click **OK**
   7. Close **IIS Manager**
5. Now navigate to http://customer.tpg.local

You should be redirected to https://customer.tpg.local/pages/default.aspx automatically.

## End of lab