

# Extranet with Forms-Based Authentication using WSS 3.0/MOSS 2007

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## Configure DNS Settings (for standalone machines only)

1. Open Windows Explorer
2. Navigate to C:\Windows\System32\drivers\etc
3. Open the file 'hosts' in Notepad
4. Add the following lines in it and save it:  

127.0.0.1	intranet.acme.local
127.0.0.1	extranet.acme.local

## Build the Customer Membership Database

1. Open Windows Explorer
2. Navigate to C:\Windows\Microsoft.Net\Framework\v2.0.50727
3. Run aspnet\_regsql.exe
4. On the 'Welcome' screen, click 'Next'
5. On the 'Select a Setup Option' screen, leave the default setting of 'Configure SQL Server for application services' and click 'Next'.
6. On the 'Select the Server and Database' screen, enter your database server name and 'AcmeCustomers' for the Database name and click 'Next'.
7. On the 'Confirm Your Settings' screen, click 'Next'.
8. On the last screen, click 'Finish'.

## Configure Service Account

### Create the Login Account

1. Launch 'Administrative Tools' -> 'Computer Management'
2. Go to 'Local Users and Groups'
3. Create a new user with the following values:
  - a. User Name : ExtranetService
  - b. Password : Extranet1
  - c. Confirm Password : Extranet1
4. Uncheck 'User must change password at next logon'
5. Check 'User cannot change password'
6. Click 'Create'

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7. Click 'Close'

### Grant Permissions to Run Web-Sites

8. Launch 'Administrative Tools' -> 'Component Services'
9. Navigate to 'Component Services' -> 'Computers' -> 'My Computer' -> 'DCOM Config' -> 'IIS WAMREG Admin Service'
10. Go to 'Properties' -> 'Security' -> 'Edit' of 'Launch and Activation Permissions'
11. Click 'Add...' and enter 'ExtranetService' and click 'OK'
12. Select 'Local Launch' and 'Local Activation' and click 'OK'
13. Click 'OK' again
14. Open 'Visual Studio Command Prompt'
15. Go to C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727
16. Run the following command:

```
Aspnet_regiis -ga DGWORK\ExtranetService
```

### Grant Additional Permissions while running on Domain Controller or standalone (to resolve Web Part Error)

17. Grant read/write access to the 'DGWORK\ExtranetService' to the following folders:
  - a. C:\Windows\Temp
  - b. C:\Windows\System32\LogFiles

### Grant Permissions to Database

18. Launch 'SQL Server Management Studio'
19. Connect to your Database Server
20. Go to 'Security' -> 'Logins'
21. Right-click and then click on 'New Logins'
22. Enter the following
  - a. Login name : DGWORK\ExtranetService
  - b. Default Database : AcmeCustomers
23. Go to 'User Mapping' and click on the following:
  - a. Users mapped to this login: 'Map' for AcmeCustomers
  - b. Database role membership for: aspnet\_Membership\_FullAccess
24. Click 'OK'

### Build the Intranet SharePoint Web Application

1. Launch 'SharePoint 3.0 Central Administration'.
2. Go to 'Application Management'
3. Click on 'Create or extend Web Application'
4. Click on 'Create a new Web Application'
5. Enter the following:

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- a. Port : 80
  - b. Host Header : intranet.acme.local
  - c. Application Pool User Name : DGWORK\ExtranetService
  - d. Application Pool Password : Extranet1
  - e. Database Name : SharePoint\_AcmeExtranet\_Content
6. Click 'OK'
  7. Click on 'Create Site Collection'
  8. Enter the following:
    - a. Title : Acme Extranet
    - b. Select a Template : Team Site
    - c. Primary Site Collection Admin : DGWORK\deepakjg
  9. Click 'OK'
  10. Restart IIS
  11. Click on 'http://intranet.acme.local' to navigate to the site.

## Build the Extranet SharePoint Web Application

1. Launch 'SharePoint 3.0 Central Administration'
2. Go to 'Application Management'
3. Click on 'Create or extend Web Application'
4. Click on 'Extend an existing Web Application'
5. Enter the following values:
  - a. Web Application : <http://intranet.acme.local>
  - b. Port : 80
  - c. Host Header : extranet.acme.local
  - d. Zone : Extranet
6. Click 'OK'
7. Under 'Application Security', click on 'Authentication Providers'
8. Ensure that the Web Application is <http://intranet.acme.local> and then click on 'Extranet'.
9. Enter the following values:
  - a. Authentication Type : Forms
  - b. Membership provider name : AcmeSqlMembershipProvider
  - c. Enable Client Integration? : No (discuss issues with 'Yes')
10. Click 'OK'
11. Open Windows Explorer
12. Go to 'C:\inetpub\wwwroot\wss\VirtualDirectories\intranet.acme.local\80'
13. Open the file web.config
14. Search for <system.web> and add the following lines above it:

```
<connectionStrings>
    <add name="AcmeSqlProvider" connectionString="Data Source=DGWORK;Initial
Catalog=AcmeCustomers;Integrated Security=SSPI;" />
</connectionStrings>
```

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15. Add the following lines below <system.web>:

```
<membership defaultProvider="AcmeSqlMembershipProvider">
  <providers>
    <remove name="AspNetSqlMembershipProvider" />
    <add name="AcmeSqlMembershipProvider"
        connectionStringName="AcmeSqlProvider" passwordAttemptWindow="10"
        enablePasswordRetrieval="false" enablePasswordReset="true"
        requiresQuestionAndAnswer="false" applicationName="AcmeCustomers"
        requiresUniqueEmail="true" passwordFormat="Hashed" description="Stores
        and retrieves membership data from the Microsoft SQL Server database"
        type="System.Web.Security.SqlMembershipProvider, System.Web,
        Version=2.0.3600.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" />
  </providers>
</membership>
```

16. Save the file web.config

17. Repeat the above steps for web.config under

'C:\inetpub\wwwroot\wss\VirtualDirectories\extranet.acme.local80'.

## Build the Web Parts

1. Start a new 'Class Library' project using Visual Studio 2005 and name it 'Acme.Extranet'.
2. Add references to the following assemblies:
  - a. System.Web
  - b. Microsoft.SharePoint
3. Right-click on the project and select Properties
4. Go to Signing and click on 'Sign the Assembly'
5. For "Choose a strong name key file:", select "New"
6. Enter 'Key file name' as 'Acme Extranet', uncheck 'Protect my key file with a password' and select 'OK'.
7. Create a new folder called WebParts
8. Create a new class called CreateUserWebPart under WebParts
9. Add the following code:

```
using System;
using System.Text;
using System.Collections.Generic;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;

namespace Acme.Extranet.WebParts
{
    /// <summary>
    /// Create User Web Part
    /// </summary>
    public class CreateUserWebPart : WebPart
    {
        Control createUserControl = null;

        /// <summary>
        /// Default Constructor
        /// </summary>
        public CreateUserWebPart()
    }
}
```

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```

    {
    }

    protected override void CreateChildControls()
    {
        createUserControl =
this.Page.LoadControl("~/_controltemplates/CreateUserControl.ascx");
        Controls.Add(createUserControl);
    }

    /// <summary>
    /// Render
    /// </summary>
    /// <param name="writer"></param>
    protected override void Render(System.Web.UI.HtmlTextWriter writer)
    {
        createUserControl.RenderControl(writer);
    }
}

```

10. Create a new class called ChangePasswordWebPart under WebParts

11. Add the following code:

```

using System;
using System.Text;
using System.Collections.Generic;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;

namespace Acme.Extranet.WebParts
{
    /// <summary>
    /// Create User Web Part
    /// </summary>
    public class ChangePasswordWebPart : WebPart
    {
        Control changePasswordControl = null;

        /// <summary>
        /// Default Constructor
        /// </summary>
        public ChangePasswordWebPart()
        {
        }

        protected override void CreateChildControls()
        {
            changePasswordControl =
this.Page.LoadControl("~/_controltemplates/ChangePasswordControl.ascx");
            Controls.Add(changePasswordControl);
        }

        /// <summary>
        /// Render
        /// </summary>
        /// <param name="writer"></param>
        protected override void Render(System.Web.UI.HtmlTextWriter writer)
        {
            changePasswordControl.RenderControl(writer);
        }
    }
}

```

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```

    }
}

```

## 12. Save and build the solution

### Build the User Controls

1. Create a new file in Visual Studio called CreateUserControl.ascx.
2. Copy the following code to it:

```

<%@ Control Language="C#" ClassName="CreateUserControl" %>

<script runat="server">

</script>

<asp:CreateUserWizard ID="CreateUserWizard1" runat="server"
AutoGeneratePassword="true"
    MailDefinition-From="webadmin@acme.local" MailDefinition-IsBodyHtml="true"
    MailDefinition-Subject="Your Account has been created"
    MailDefinition-BodyFileName="~/_controltemplates/MailFile.txt">
    <WizardSteps>
        <asp:CreateUserWizardStep ID="CreateUserWizardStep1" runat="server">
        </asp:CreateUserWizardStep>
        <asp:CompleteWizardStep ID="CompleteWizardStep1" runat="server">
        </asp:CompleteWizardStep>
    </WizardSteps>
</asp:CreateUserWizard>

```

3. Create another file called ChangePasswordControl.ascx
4. Copy the following code to it:

```

<%@ Control Language="C#" ClassName="ChangePasswordControl" %>

<script runat="server">

</script>

<asp:ChangePassword ID="ChangePassword1" runat="server">
</asp:ChangePassword>

```

5. Copy the files to C:\Program Files\Common Files\Microsoft Shared\web server extensions\12\TEMPLATE\CONTROLTEMPLATES

### Deploy the Web Parts

1. Launch .NET Framework 2.0 Configuration and add the Acme.Extranet.dll to the Global Assembly Cache. Also note the Public Key Token associated with the Assembly.
2. Open web.config in both virtual directories and do the following:
  - a. Add the following lines under Configuration -> SharePoint -> SafeControls:

```

<SafeControl Assembly="Acme.Extranet, Version=1.0.0.0, Culture=neutral,
PublicKeyToken=dc42880b5957841a" Namespace="Acme.Extranet.WebParts"
TypeName="*" Safe="True" />

```

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- b. Add the following lines under Configuration -> system.net

```
<mailSettings>  
  <smtp from="admin@acme.local" deliveryMethod="Network">  
    <network host="localhost" port="25"/>  
  </smtp>  
</mailSettings>
```

3. Launch the site <http://intranet.acme.local>
4. Go to Site Settings -> Web Parts
5. Click on 'New'
6. Find the Web Parts Acme.Extranet.WebParts.CreateUserWebPart and Acme.Extranet.WebParts.ChangePasswordWebPart and select them.
7. Click 'Populate Gallery'

## Create the Web Pages

1. Click 'View All Site Content'
2. Click 'Create'
3. Select 'Document Library'
4. Enter the following values:
  - a. Name : Pages
  - b. Document Template : Web Part Page
5. Click 'Create'
6. Click 'New'
7. Enter the following values:
  - a. Name : CreateUser
  - b. Choose a Layout Template : Full Page, Vertical
8. Click 'Create'
9. Click 'Add a Web Part'
10. Select 'CreateUserWebPart' and click 'Add'
11. Click 'Exit Edit Mode'
12. Click on 'Pages' in the breadcrumbs
13. Click on 'Manage Permissions' of 'CreatePage.aspx'
14. Click on 'Actions' -> 'Edit Permissions'
15. Select 'Acme Extranet Visitors' and click 'Actions' -> 'Remove'
16. Click 'New'
17. Enter the following values:
  - a. Name : ChangePassword
  - b. Choose a Layout Template : Full Page, Vertical
18. Click 'Create'
19. Click 'Add a Web Part'
20. Select 'ChangePasswordWebPart' and click 'Add'

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21. Click 'Exit Edit Mode'
22. Click on 'Pages' in the breadcrumbs
23. Click on 'Manage Permissions' of 'ChangePassword.aspx'
24. Click on 'Actions' -> 'Edit Permissions'
25. Select 'Acme Extranet Members' and click 'Actions' -> 'Remove'

## Test the Extranet

1. Navigate to Pages -> CreatePage.aspx
2. Enter the following values:
  - a. User Name : Joe Smith
  - b. E-mail Address : [joesmith@rdacorp.local](mailto:joesmith@rdacorp.local)
3. Click on 'Create User'
4. Go to Site Settings -> People and Groups
5. Go to 'Acme Extranet Visitors' and add 'Joe Smith' to it.
6. Open a new browser window and navigate to <http://extranet.acme.local>
7. Enter the following on the Login screen:
  - a. User Name : Joe Smith
  - b. Password : <password>
8. Click on 'Sign In'
9. Navigate to Pages. You should see only 'ChangePassword'
10. Click on ChangePassword.aspx
11. Enter values to change Joe's password.
12. Go back to the Intranet side to add documents and grant/remove permissions to some of them.
13. Go to the extranet side and show that Joe gets access to only his documents.