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Author: Jeff Blakely

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#### Purpose

This guide is intended to help you integrate KBVault with AD authentication using Azure/Office365. This guide does not show how to setup the initial Federation with Azure/Office365, for that you will need to do a fair amount of work not described in this document. If you need consulting services to do so, please feel free to contact me. This guide assumes you have a basic understanding of IIS, MSSQL, Visual Studio, AD, and Azure

## Prerequisites

- IIS Website (KBVault in this example)
- MSSQL or MSSQL Express
- Visual Studio 2013
- Admin access to Azure with the ability to add an application
- Existing Azure/AD integration with your organization
- KBVault source code (https://kbvault.codeplex.com)
- Time and patience

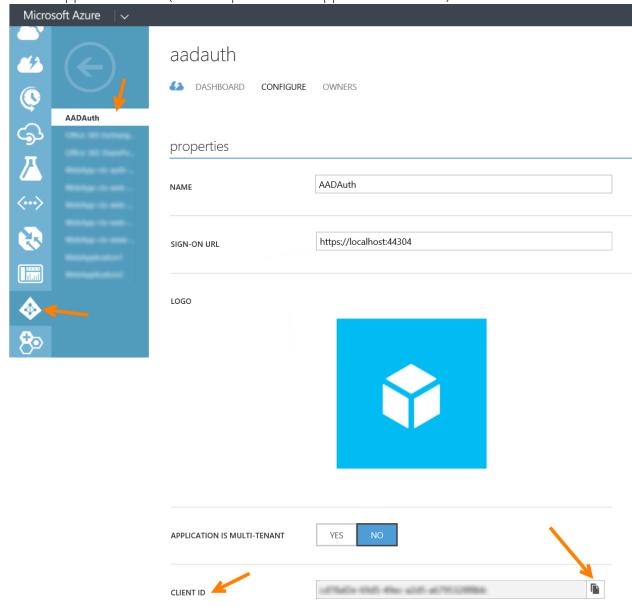
#### **Initial Steps**

- 1. Launch Visual Studio 2013
- 2. Open the KBVault project
- 3. Open Package Manger (Tools -> NuGet Package Manager -> Package Manager Console)
- 4. Run The (4) four commands below to install the packages needed for AAD Authentication.
  - 4.1. Install-Package Microsoft.Owin.Security.OpenIdConnect -Pre
  - 4.2. Install-Package Microsoft.Owin.Security.Cookies Pre
  - 4.3. Install-Package Microsoft.Owin.Host.SystemWeb –Pre
  - 4.4. Install-Package jQuery -Pre

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# Create Azure App

1. Create App in Azure AD (the example uses and app called AADAuth)



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## **Create Classes**

2. In the root of the Project, create a new Class called Startup.cs (Right Click KBVault.Web -> Add -> Class). Clear out all of the default code and paste this code into it:

```
using Microsoft.Owin;
using Owin;
[assembly: OwinStartup(typeof(OldFashionOWIN.Startup))]
namespace OldFashionOWIN
{
    public partial class Startup
    {
        public void Configuration(IAppBuilder app)
        {
            ConfigureAuth(app);
        }
    }
}
```

3. Locate your Client ID (from step 1) and Website hostname (the name people will type into their browsers)

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4. In the App\_Start folder create a new Class called Startup.Auth.cs (**Right Click App\_Start -> Add -> Class**). Clear out all of the default code and paste the code below into it. <u>NOTE</u>: Change the items in RED (ClientID, Authority) to reflect your organizations ClientID and Authority URL. You can find your ClientID on the Configuration Page for the application created previously AADAuth.

```
using Microsoft.Owin.Security;
using Microsoft.Owin.Security.Cookies;
using Microsoft.Owin.Security.OpenIdConnect;
using Owin;
namespace OldFashionOWIN
           public partial class Startup
                       public void ConfigureAuth(IAppBuilder app)
app. Set Default SignIn As Authentication Type (Cookie Authentication Defaults. Authentication Type) approximately approximate
ype);
                                  app.UseCookieAuthentication(new CookieAuthenticationOptions());
                                  app.UseOpenIdConnectAuthentication(
                                             new OpenIdConnectAuthenticationOptions
                                                        ClientId = "cp78fakee-6915-47ek-m2g5-z6496321f8sl",
                                                        Authority = "https://login.windows.net/yourwebsite.onmicrosoft.com"
                                            });
           }
```

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## **Enable Authorization**

5. To enable Authorization edit the following files located under KBVailt.Web/Controllers

Go to Controllers/HomeController.cs and add the following bits shown in RED

```
[Authorize]
public class HomeController : KbVaultPublicController
{
```

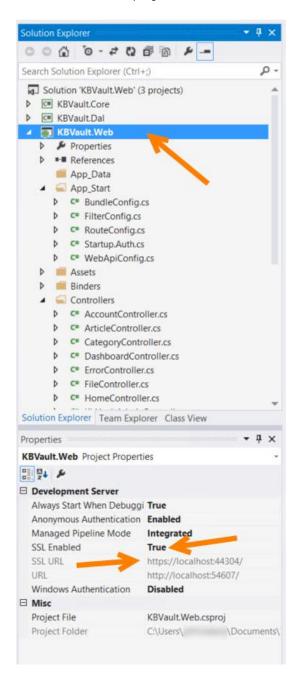
Go to Controllers/KbVaultAdminController.cs and add the following bits shown in RED

```
[Authorize]
public class KbVaultAdminController : Controller
{
```

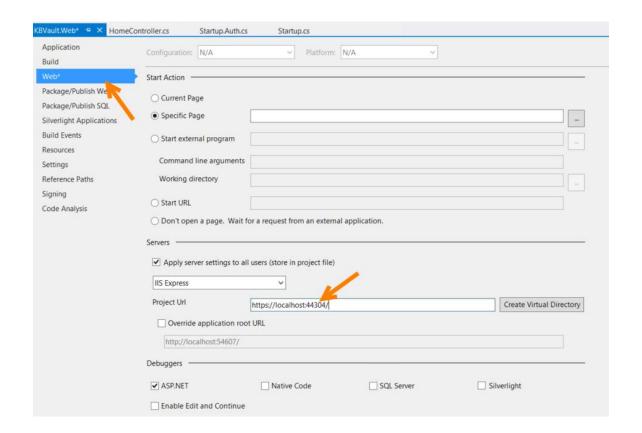
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#### Set Website to Use HTTPS

6. Make sure to set the project to use HTTPS:



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## Edit the Web.config

- 7. Open the Web.config file
- 8. Change the Database Connection String (if needed)

```
<connectionStrings>
    <add name="KbVaultEntities"
connectionString="metadata=res://*/KBVaultEntityModel.csdl|res://*/KBVaultEntityModel.ssdl|r
es://*/KBVaultEntityModel.msl;provider=System.Data.SqlClient;provider connection
string=&quot;data source=.\dev;initial catalog=kbvault;integrated
security=True;multipleactiveresultsets=True;application name=EntityFramework&quot;"
providerName="System.Data.EntityClient"/>
    </connectionStrings>
```

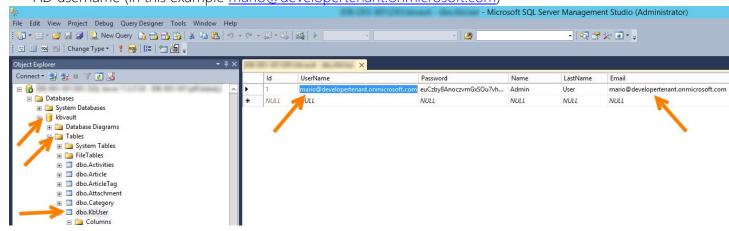
9. Locate the lines shown below

9.1. Change the code to look like this:

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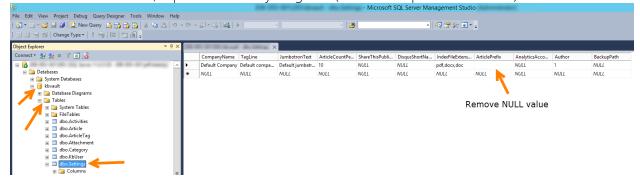
## Add AD User(s) to the Database

10. In order to log in, you will need to manually add (at lease 1) user to SQL DB for Admin backend access. Make sure the UserName and Email fields are exactly the same as the Azure AD username (in this example <a href="mailto:mailto



## Edit Settings Table in the Database

11. To fix an issue with the Search feature edit the ArticlePrefix column in the dbo.Settings Table and remove the NULL value, replace it with anything else (in this example it is left blank)



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### Edit Detail.cshtml.

12. Since Forms Based authentication isn't being used, remove the following line of code in the Detail.cshtml file located in KBVault.Web\Views\Home

#### Test

13. In Visual Studio Press F5 (debug) and you should see:

