

Form-based authentication in native Windows 8 applications

Overview

This tutorial illustrates the native Windows 8 Universal client-side authentication components for form-based authentication.

Prerequisite: Make sure that you read Form-based authentication (../) first.

This tutorial covers the following topics:

- Creating the client-side authentication components
- Sample application

Creating the client-side authentication components

Create a native Windows 8 Universal application and add the MobileFirst native APIs as explained in the documentation.

FormChallengeHandler

Create a `FormChallengeHandler` class as a subclass of `ChallengeHandler`.

Your `FormChallengeHandler` class must implement the `isCustomResponse` and `handleChallenge` methods.

The `isCustomResponse` method checks every custom response received from MobileFirst Server to verify whether this is the expected challenge.

```
public override bool isCustomResponse(WLResponse response)
{
    if (response == null || response.GetResponseText() == null || !response.GetResponseText().Contains("_security_check")
    )
    {
        return false;
    }
    else
    {
        return true;
    }
}
```

The `handleChallenge` method is called after the `isCustomResponse` method returns `true`.

Within this method, present your login form. Different approaches are available.

```
public override void handleChallenge(JObject response)
{
    CoreApplication.MainView.CoreWindow.Dispatcher.RunAsync(CoreDispatcherPriority.Normal
    ,
    async () =>
    {
        MainPage._this.LoginGrid.Visibility = Visibility.Visible;
    });
}
```

From the login form , credentials are passed to the `FormChallengeHandler` class. Use the `submitLoginForm()` method to send input data to the authenticator.

```
public void sendResponse(String username, String password)
{
    Dictionary<String, String> parms = new Dictionary<String, String>()
    ;
    parms.Add("_username", username);
    parms.Add("_password", password);
    submitLoginForm("_security_check", parms, null, 0, "post");
}
```

MainPage

Within the MainPage class, connect to MobileFirst Server, register your challengeHandler and invoke the protected adapter procedure. The procedure invocation triggers MobileFirst Server to send a challenge that will trigger our challenge handler.

```
WLCient wlClient = WLCient.getInstance();
FormChallengeHandler ch = new FormChallengeHandler();
wlClient.registerChallengeHandler((BaseChallengeHandler<JObject>)ch);
MyResponseListener mylistener = new MyResponseListener(this);
wlClient.connect(mylistener);
```

Because the native API not protected by a defined security test, no login form is presented during server connection. Invoke the protected adapter procedure. The login form is presented by the challengeHandler.

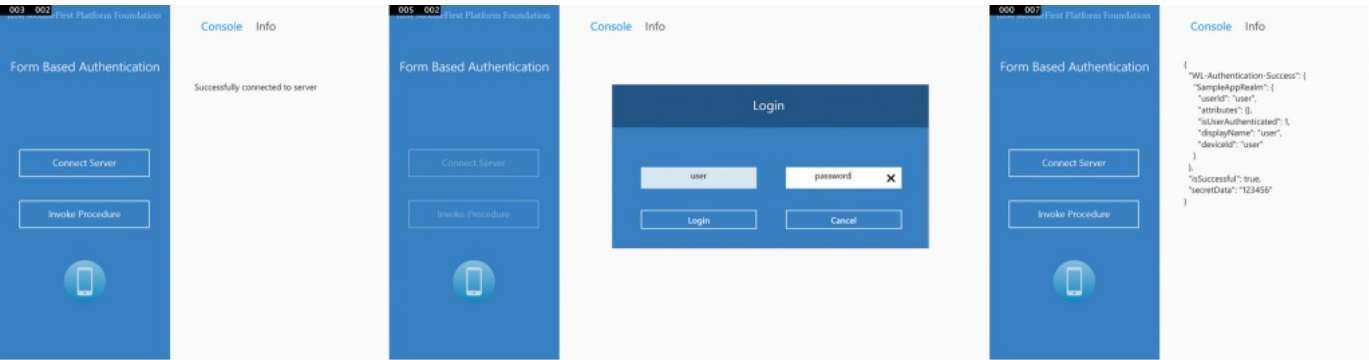
```
WLResourceRequest adapter = new WLResourceRequest("/adapters/AuthAdapter/getSecretData", "GET");
MyInvokeListener listener = new MyInvokeListener(this);
adapter.send(listener);
```

Sample application

Click to download (https://github.com/MobileFirst-Platform-Developer-Center/FormBasedAuth/tree/release71) the MobileFirst project.

Click to download (https://github.com/MobileFirst-Platform-Developer-Center/FormBasedAuthWin8/tree/release71) the Native project.

- The FormBasedAuth project contains a MobileFirst native API that you can deploy to your MobileFirst server.
- The FormBasedAuthWin8 project contains a native Windows 8 Universal application that uses a MobileFirst native API library.
- Make sure to update the wlclient.properties file in the native project with the relevant server settings.



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