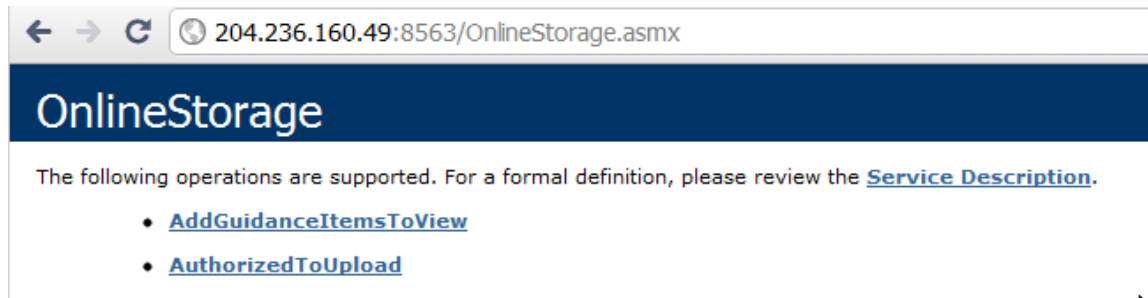
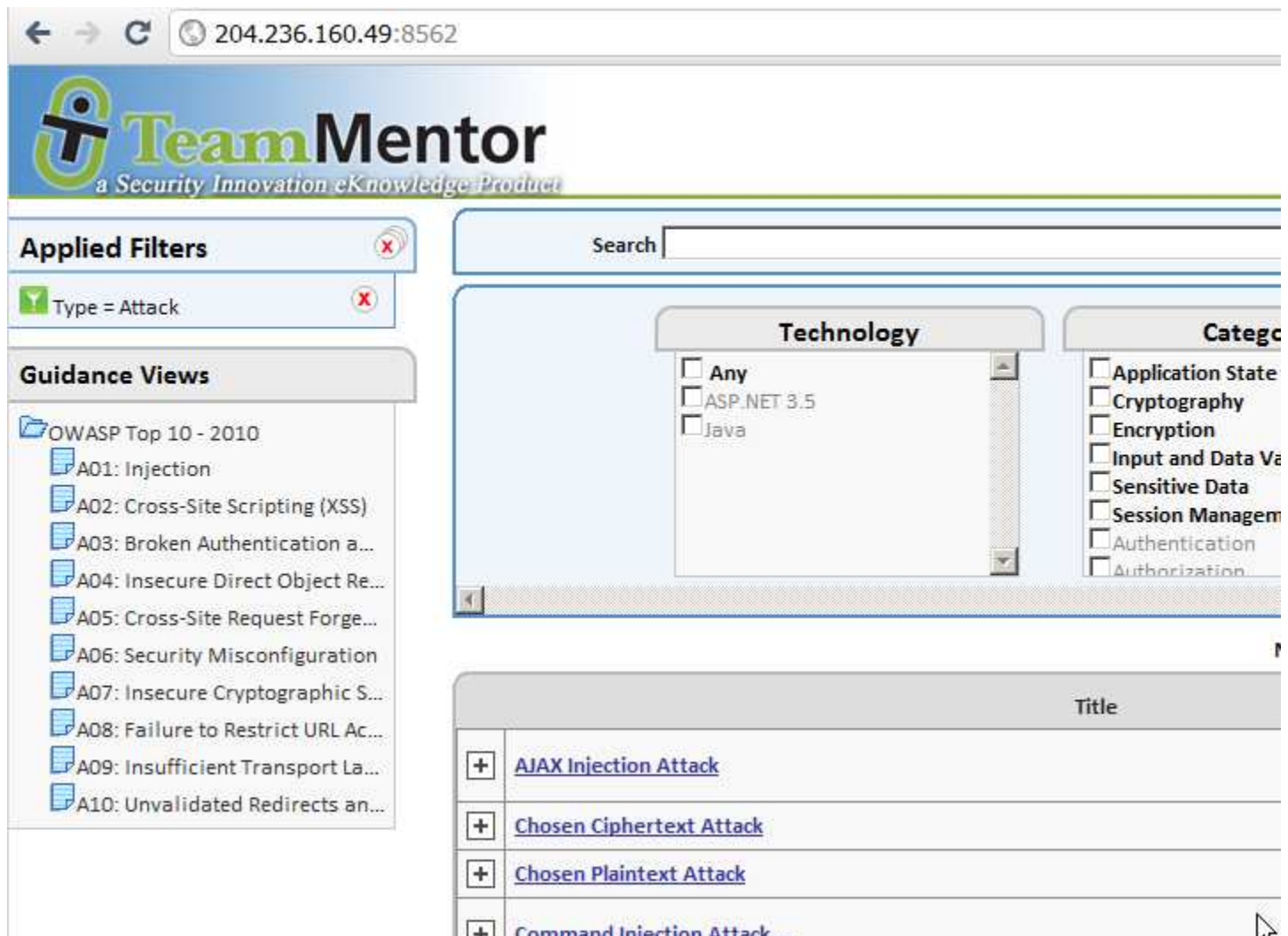


Use Case: Using TeamMentorAuthor to edit and create online content (with RBAC)

using the <http://204.236.160.49:8563/OnlineStorage.asmx> webservice



which supports the website with the OWASP content database:



Create User

Create a normal user account (with read privileges on the database)

← → ↻ 204.236.160.49:8562/CreateEdit.aspx



Sign Up

Please provide the following information to sign up for TeamMentor.
Note: if you already have a username and password, please [login](#).

Bold Items are required:

Username	<input type="text" value="User1"/>
Password at least 5 characters	<input type="password" value="....."/>
Repeat Password	<input type="password" value="....."/>
e-mail	<input type="text" value="user1@sss.com"/>
Title	<input type="text"/>
Company	<input type="text" value="a company"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
Please describe your interest in TeamMentor	<div></div>

Sign Up

the user created

← → ↻ 204.236.160.49:8562/ThankYou.aspx

Do you want Google Chrome to save your password?

 **TeamMentor**
a Security Innovation eKnowledge Product

Thank You for Registering

 Thank you for registering on the TeamMentor system. An administrator must assign you a license before you may view a

You may now return to the [Main page](#).

TeamMentor Enterprise Edition © 2007-2010 all rights reserved - a [Security Innovation](#) eKnowledge Product | [Contact Us](#)

will have read access to the website

← → ↻ 204.236.160.49:8562/ViewGuidanceItem.aspx?ItemID=16c073b9-e951-4f25-a282-e867d2d808f7

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AJAX Injection Attack

Category	Phase	Technology	Type
Input and Data Validation	Implementation	Any	Attack

[Return to main page](#)
[View Comments](#) (0 Comments)

Applies To

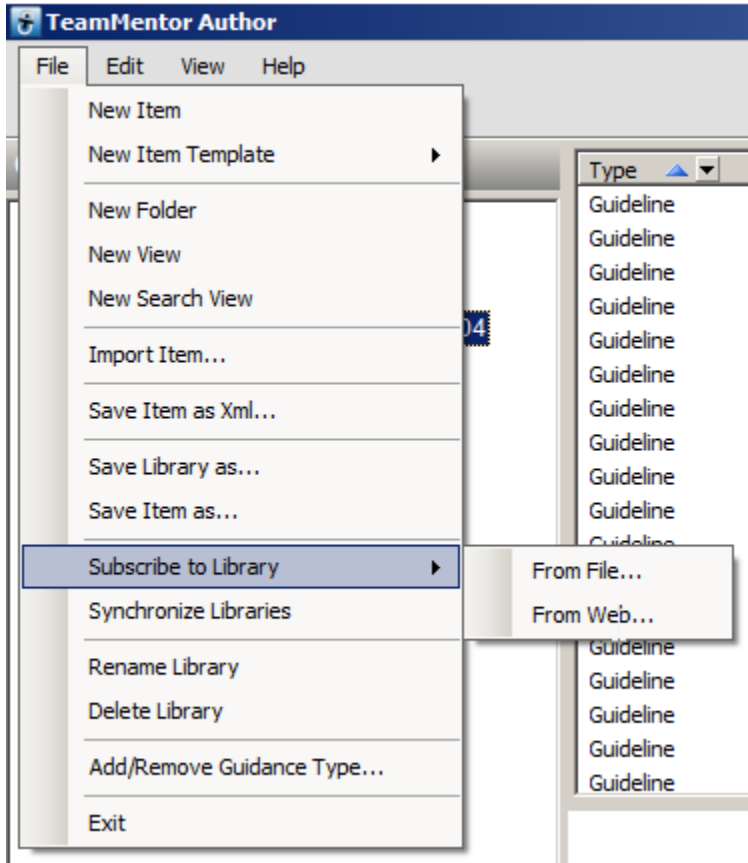
Web Applications that use an AJAX implementation

Description

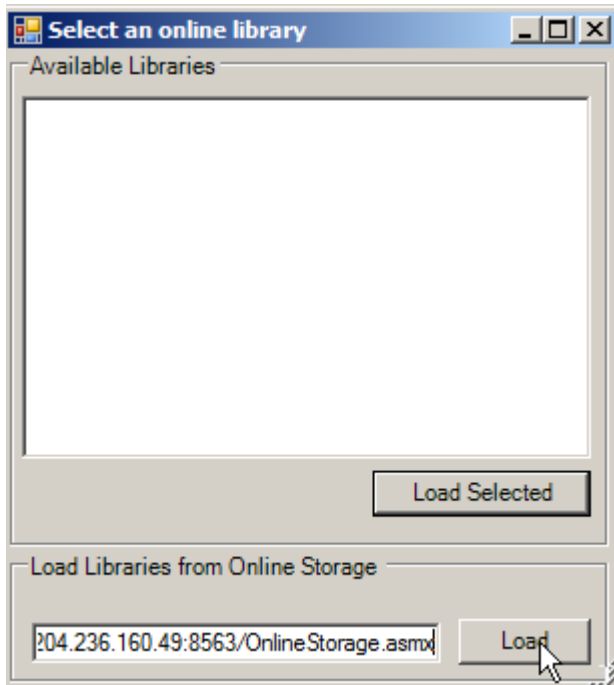
AJAX (Asynchronous Javascript and XML) technology allows web pages to dynamically update specific content behind the scenes with calling an XMLHttpRequest (XHR) object with JavaScript to send HTTP requests to web servers. These requests typically send data in th

Subscribing to library as a User

On the TeamMentorAuthor application, select the menu option to Synchronize a Library from the Web



and enter the details of the webservice (<http://204.236.160.49:8563/OnlineStorage.asmx>) in new section called '**Load Libraries from Online Storage**' of the '**Select an online Library**' view:



If this is the first time that you connect with this server, you will be prompted for the login details:



Connect to http://204.236.160.49:8563/OnlineStorage.asmx

Welcome to http://204.236.160.49:8563/OnlineStorage.asmx

User name:

Password:

☐ Remember my password

OK Cancel

Use the details from the account previously created:



Connect to http://204.236.160.49:8563/OnlineStorage.asmx

Welcome to http://204.236.160.49:8563/OnlineStorage.asmx

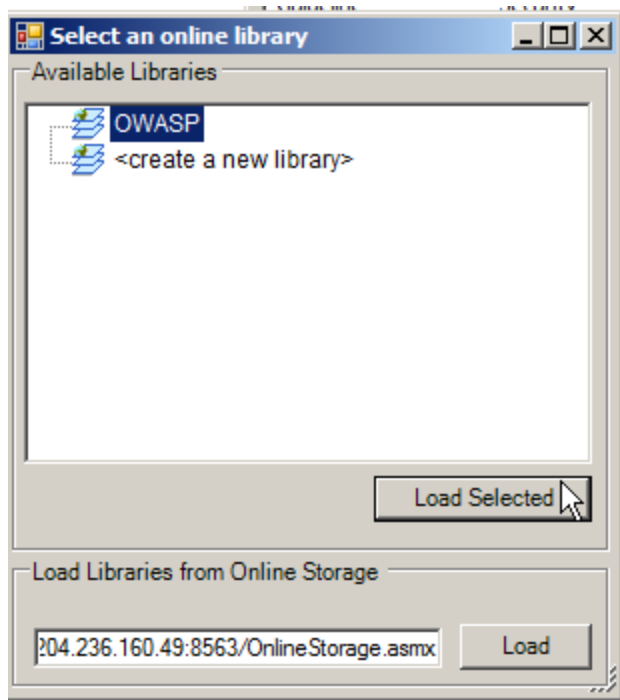
User name:

Password:

☐ Remember my password

OK Cancel

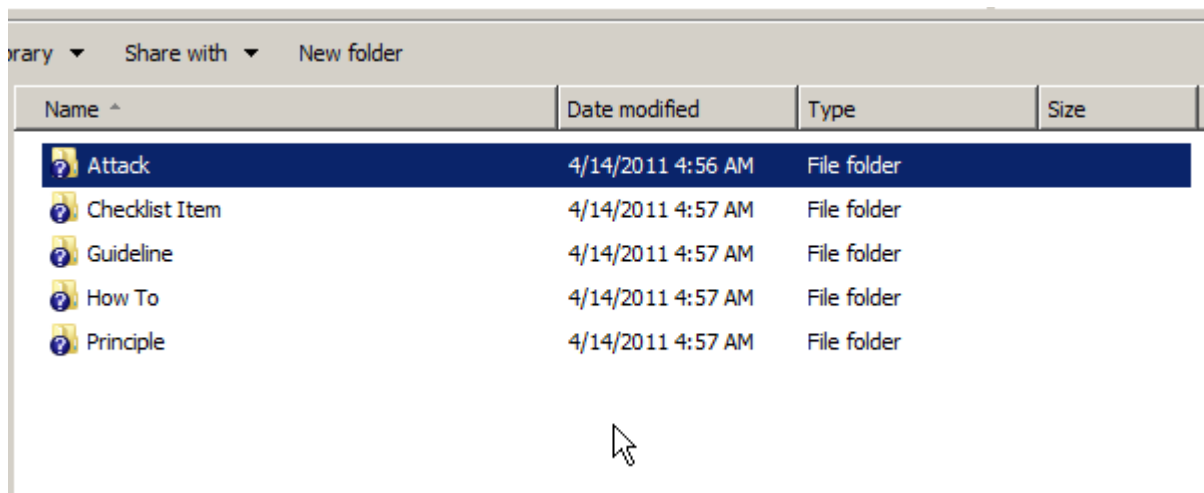
which will log the user to this site and retrieve the list of available databases








Select **OWASP** and click on '**Load Selected**' to will trigger the download of this library data (the process is quite slow so it will take a couple minutes):



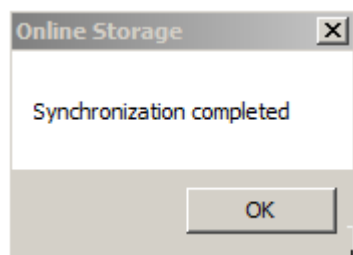
If you open the Libraries folder, you will notice a new OWASP folder with several subfolders




which will be populated as the files are downloaded from the server

Share with ▾ New folder				
Name ▾	Date modified	Type	Size	
 c97da133-1150-4789-9d18-73ba221a4fba.xml	4/14/2011 4:56 AM	XML Document	8 KB	
 aabf1365-8bcc-49bb-887b-272bf54520de.xml	4/14/2011 4:55 AM	XML Document	4 KB	
 73777936-5891-48b0-a3e8-71663e3429a1.xml	4/14/2011 4:56 AM	XML Document	9 KB	
 64a5d86e-5d3c-4afc-b0b0-3a711652e484.xml	4/14/2011 4:55 AM	XML Document	6 KB	
 9b3fc217-8a85-4d4d-8e13-3a0963be6703.xml	4/14/2011 4:55 AM	XML Document	6 KB	

Once the sync is completed



you will get an replica of the content that is on the <http://204.236.160.49:8562/Default.aspx> website


TeamMentor Author

File Edit View Help

Guidance

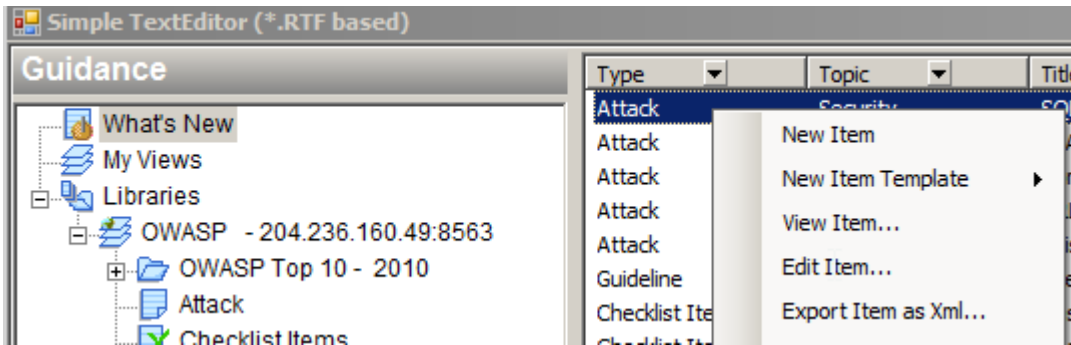
- What's New
- My Views
- Libraries
 - OWASP - 204.236.160.49:8563
 - OWASP Top 10 - 2010
 - Attack
 - Checklist Items
 - Guidelines
 - How Tos
 - Principles

Type ▾	Topic ▾	Title
Attack	Security	SQL Injection Atta
Attack	Security	AJAX Injection Att
Attack	Security	Command Injection
Attack	Security	URL Redirection A
Attack	Security	Phishing Attack
Guideline	Security	Use Mapping Value
Checklist Item	Security	Destinations of rex
Checklist Item	Security	Destinations of rex
How To	Security	How to Test for UF
Checklist Item	Security	Web site root dire
Checklist Item	Security	SAM is secured (Hi
Checklist Item	Security	Remote IIS admini

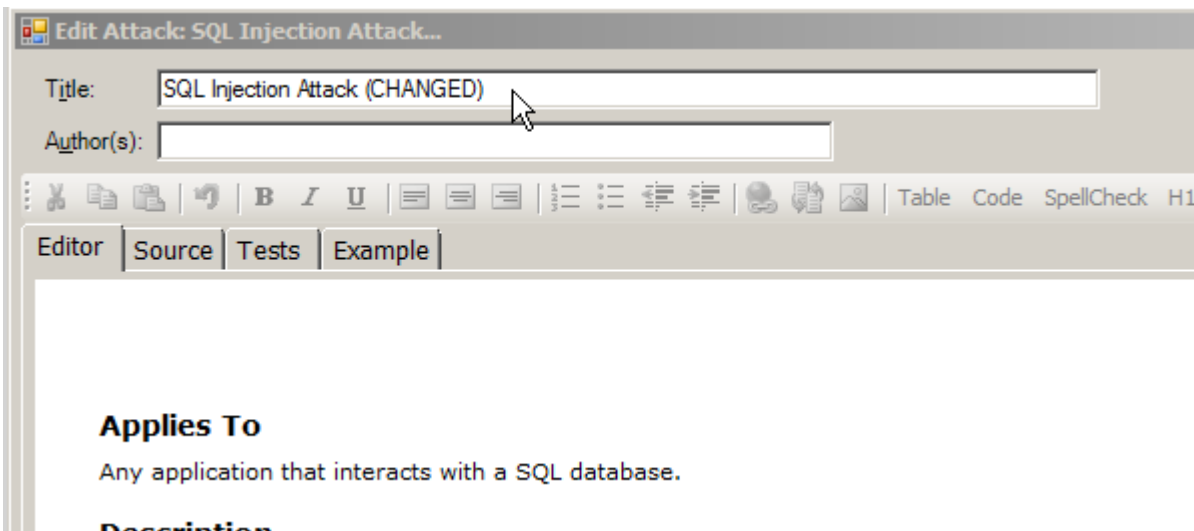
Trying to publish a local change to the server (as 'Reader' user)

To test the editing capabilities, let's make a change in one of the articles.

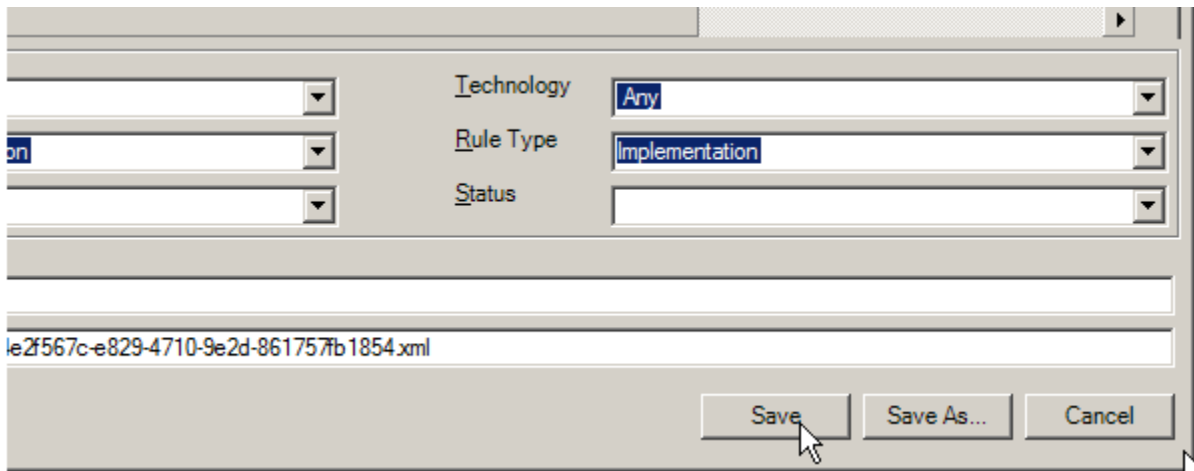
Click on the first article ('SQL Injection Attacks') and select 'Edit Item' from the context menu



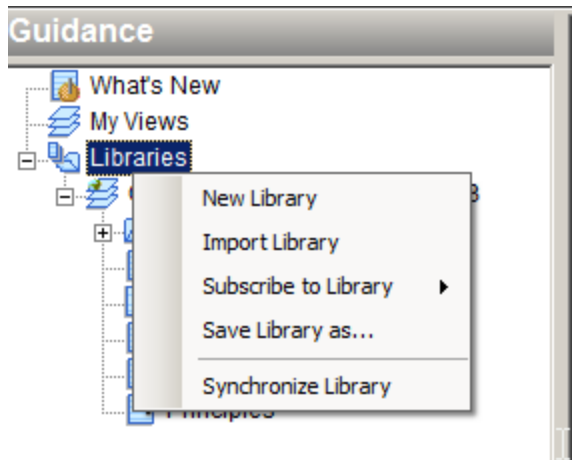
make a change on the title:



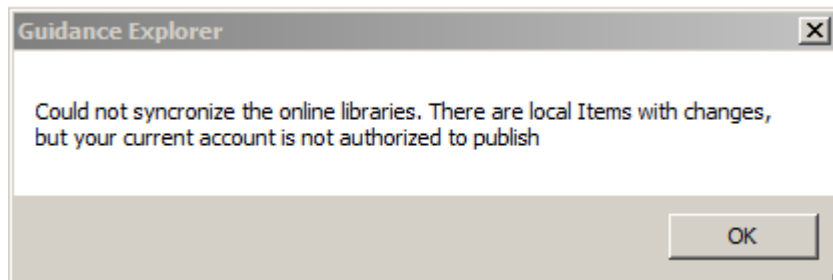
Save it locally



Select '**Synchronize Library**' to Trigger an Library Synchorization process:



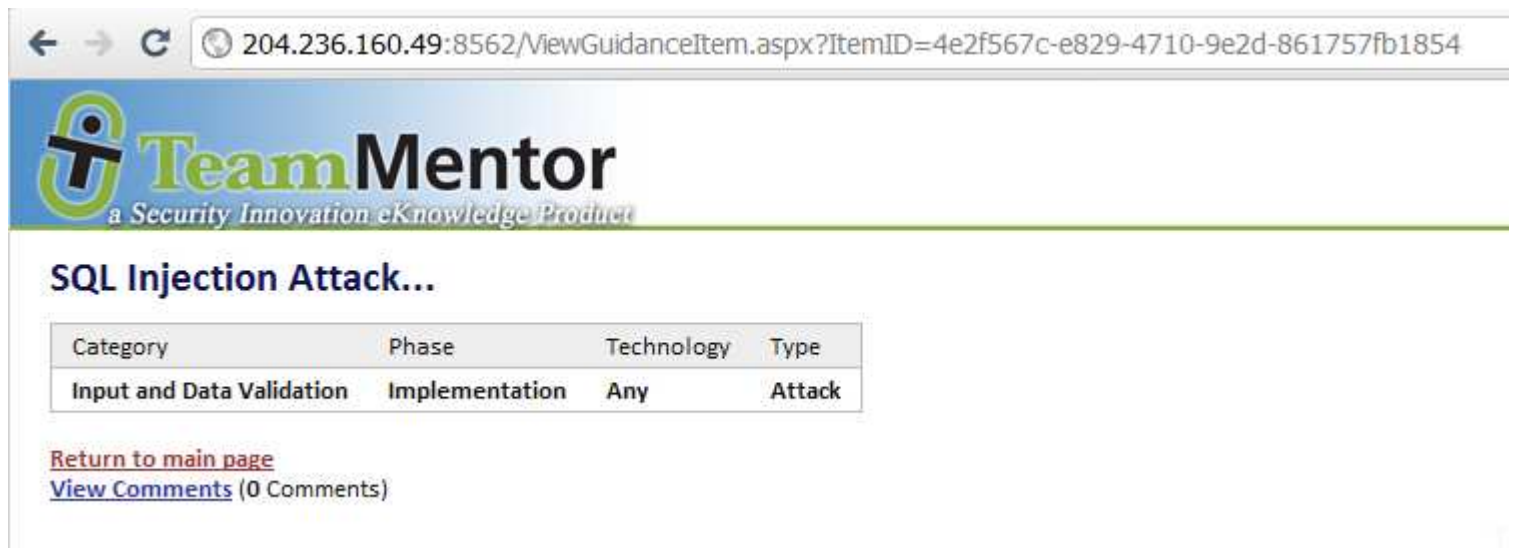
and note that because the current user doesn't have admin privileges, the synchronization is not going to work, and the following error message will be shown:



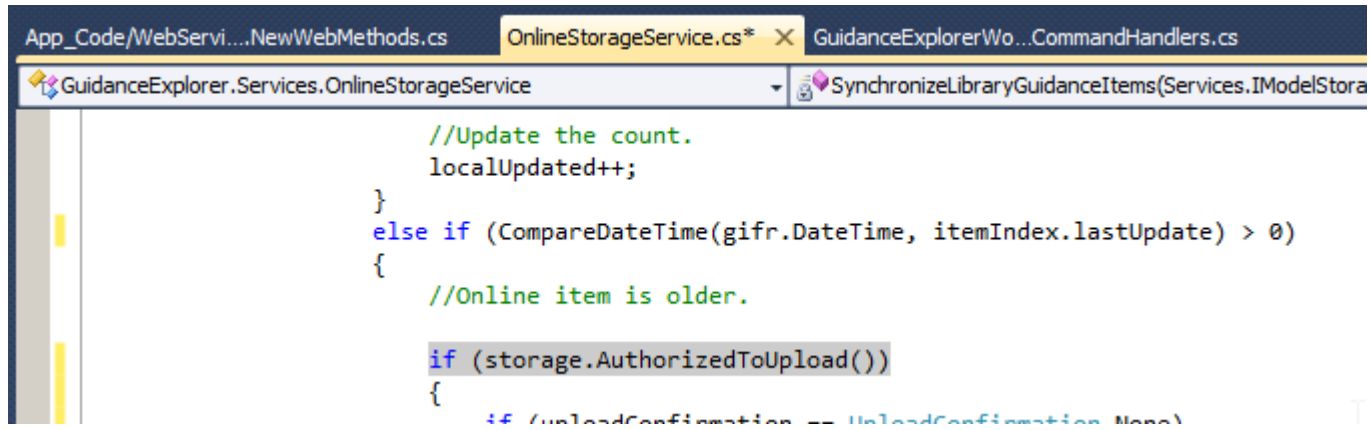
To double-check, a view of the article locally changed,



shows is still in its original format online



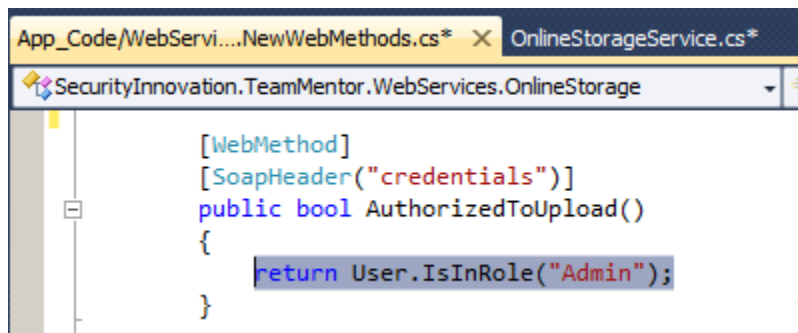
For reference, the security check on the client app was done here:



```
//Update the count.
localUpdated++;
}
else if (CompareDateTime(gifr.DateTime, itemIndex.lastUpdate) > 0)
{
    //Online item is older.

    if (storage.AuthorizedToUpload())
    {
        if (uploadConfirmation == UploadConfirmation.Menu)
    }
```

that calls the AuthorizedToUpload WebMethod which performs a RBAC check on the current logged in user:



```
[WebMethod]
[SoapHeader("credentials")]
public bool AuthorizedToUpload()
{
    return User.IsInRole("Admin");
}
```

Publish a local change to the server (as 'Admin' user)

Next step is to try the publish process when done by an account with admin privileges.

Restart TeamMentorAuthor application, and since there is an sychronization process triggerred on launch, if you haven't saved the previous credentials, you will be prompted for a username and password:

Checklist Item	Security	Strong a
Checklist Item	Security	Access b
Guideline	Security	Validate

validate on th

us input can at
ing that the inp
nt step for both

validated, regar
to be static.

1. **Where to Validate Data.** Input m
especially on things like web applic


Synchronizing Libraries

For this test to work, enter an account with admin privileges

and because we have privileges, we will be prompted if we want to update the online storage

and once the synchronization completes one can see the new change reflected on the website:

← → ↻ 204.236.160.49:8562/ViewGuidanceItem.aspx?ItemID=4e2f567c-e829-4710-9e2d-861757fb1854



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SQL Injection Attack (CHANGED)

Category	Phase	Technology	Type
Input and Data Validation	Implementation	Any	Attack

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Creating and populating new Libraries (as 'Admin' user)

It is also possible to create libraries , on remote servers.

This is quite interesting on the case of an TeamMentor online database which is delivered to a customer (or tool) in an empty state.

Lets use for example the <http://204.236.160.49:8433> server which has an empty database:

← → ↻ 204.236.160.49:8433



TeamMentor

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Applied Filters ✕

No filters currently applied.

Guidance Views currently exist

Search

Technology	Category	Type	Phase

No results to display | << > >> |

No Results
Your query returned no matches.

Filter Help
Try removing filter criterion from the checkboxes above or delete criterion the Applied Filters control in the upper left hand corner of the page.

Search Help

- If you are searching for a specific item, try putting your search terms in "quotes"
- If you are searching for a term with special characters in it such as C++ or C#, enclosing it in quotes will ensure the special characters are not stripped out.
- Try searching for different but related terms. For example, if you are searching for information on Cross Site Scripting attacks try XSS as well.
- Make sure all the words are spelled correctly

Start Over
✕ [Click here](#) to clear your filter completely and show all content.

this website is supported by the OnlineStorage.asmx webservice located at <http://204.236.160.49:8434/onlinestorage.asmx>

Service Description.' A list of 15 operations follows, each preceded by a bullet point and underlined: AddGuidanceItemsToView, AuthorizedToUpload, CreateGuidanceItem, CreateGuidanceType, CreateLibrary, CreateView, GetAllLibraryIds, GetAllUserLogs, GetGuidanceItemById, GetGuidanceItemContent, GetGuidanceItemKeywords, GetGuidanceTypeByCaption, GetGuidanceTypeById, GetGuidanceTypeByName, and an additional underlined item at the bottom." data-bbox="25 81 811 525"/>

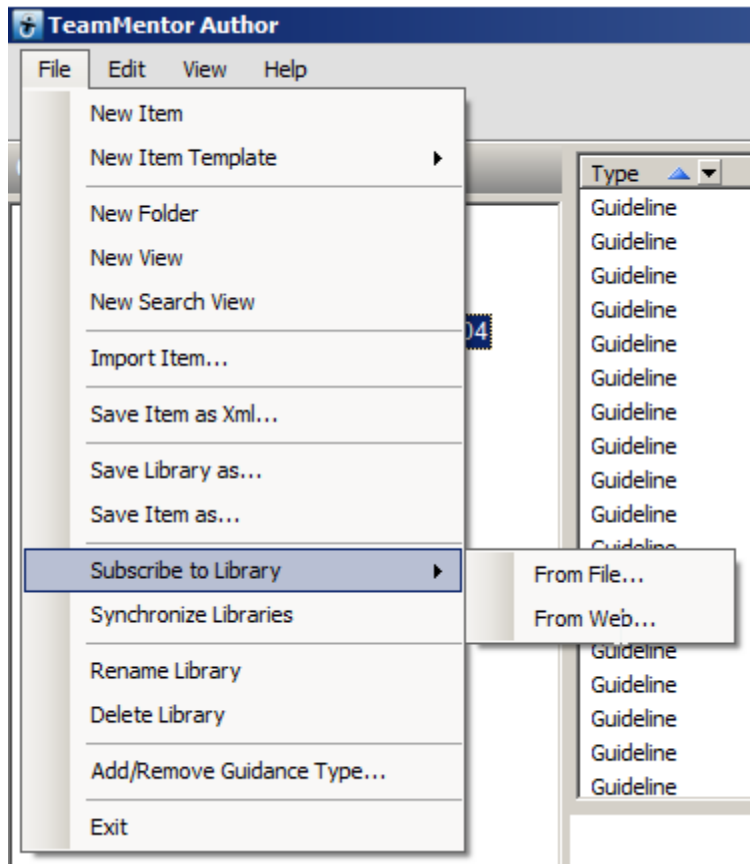
← → ↻ 204.236.160.49:8434/onlinestorage.asmx

OnlineStorage

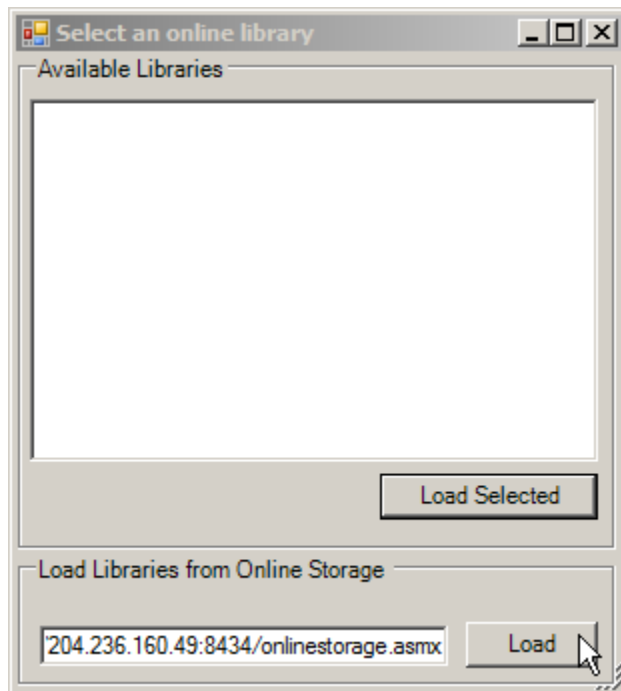
The following operations are supported. For a formal definition, please review the [Service Description](#).

- [AddGuidanceItemsToView](#)
- [AuthorizedToUpload](#)
- [CreateGuidanceItem](#)
- [CreateGuidanceType](#)
- [CreateLibrary](#)
- [CreateView](#)
- [GetAllLibraryIds](#)
- [GetAllUserLogs](#)
- [GetGuidanceItemById](#)
- [GetGuidanceItemContent](#)
- [GetGuidanceItemKeywords](#)
- [GetGuidanceTypeByCaption](#)
- [GetGuidanceTypeById](#)
- [GetGuidanceTypeByName](#)
- [GetGuidanceTypeByCaption](#)

As before select the menu option to Synchronize a Library from the Web



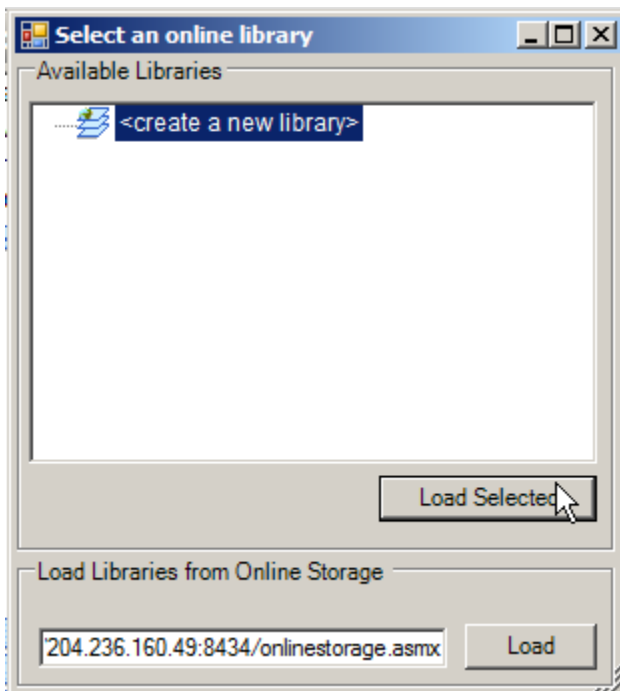
Enter the url <http://204.236.160.49:8434/onlinestorage.aspx> in the **'Load Libraries from Online Storage'** section



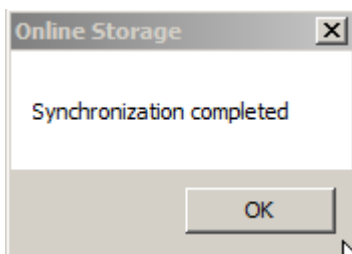
Login with an account with admin priviledges



and select the **<create a new library>** option



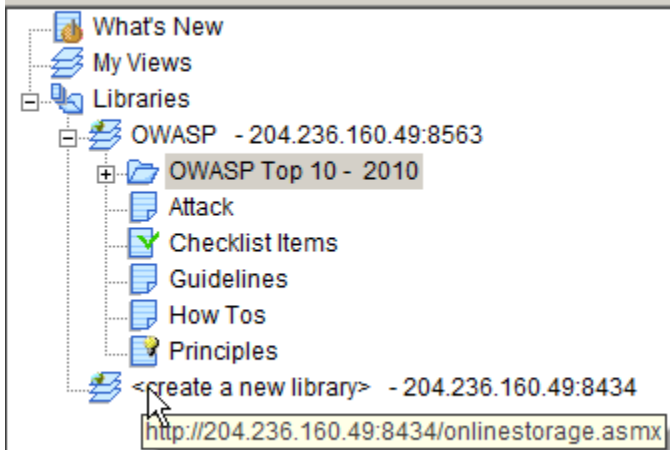
Once the Sync process completes:



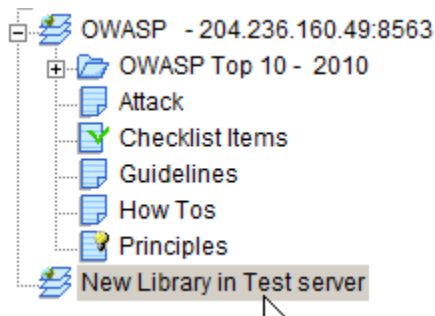
The new Library will be on the Libraries list.

Note how there is a reference to the server:port that this library is in, and when the mouse overs on top of the library node, the actually web address of the webservice is shown

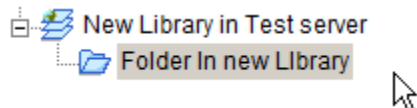
Guidance



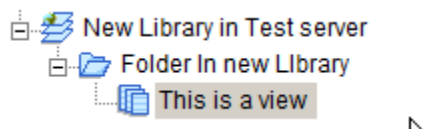
Now, rename the new Library



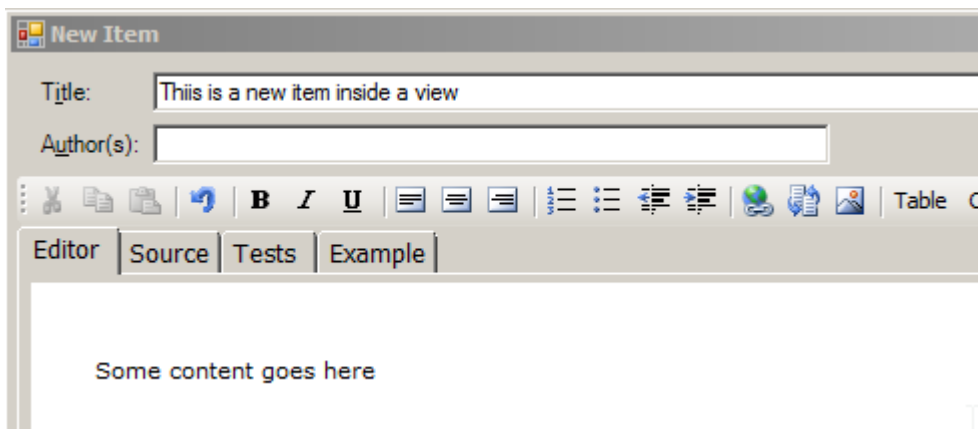
... add a folder



... add a view



... create a couple new Items



... and at the moment ... locally ... the new library should look like this

The screenshot shows the 'Guidance' pane in TeamMentor. On the left is a tree view with the following structure:

- What's New
- My Views
- Libraries
 - OWASP - 204.236.160.49:8563
 - New Library in Test server
 - Folder In new Library
 - This is a view
 - Items

On the right is a table with the following data:

Type	Topic	Title
Item		This is a new item inside a view
Item		This is a another item

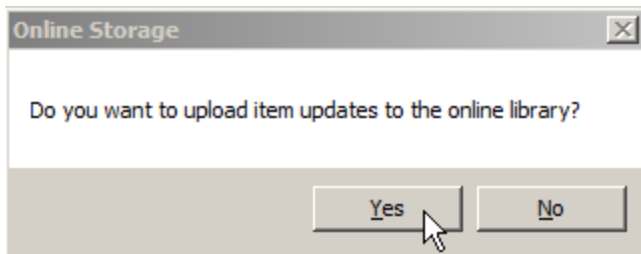
... and online (before sync) should look like this:

The screenshot shows the TeamMentor web interface. The browser address bar shows '204.236.160.49:8433/#'. The page header includes the TeamMentor logo and the text 'a Security Innovation eKnowledge Product'. On the left, there is a sidebar with 'Applied Filters' showing 'No filters currently applied.' and 'Guidance Views currently exist'. The main content area has a search bar and two columns labeled 'Technology' and 'Category'. Below these columns, a message reads 'No Results' with the subtext 'Your query returned no matches.' and 'No results'.

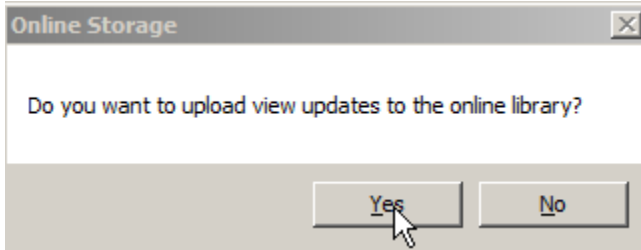
The final step is to Synchronize this Library (available on the context and main menu)

The screenshot shows a progress bar with the text 'Synchronizing Libraries' below it.

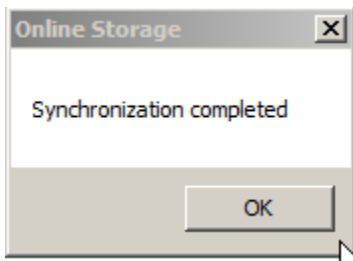
... which will ask to update the item updates



... and the view updates



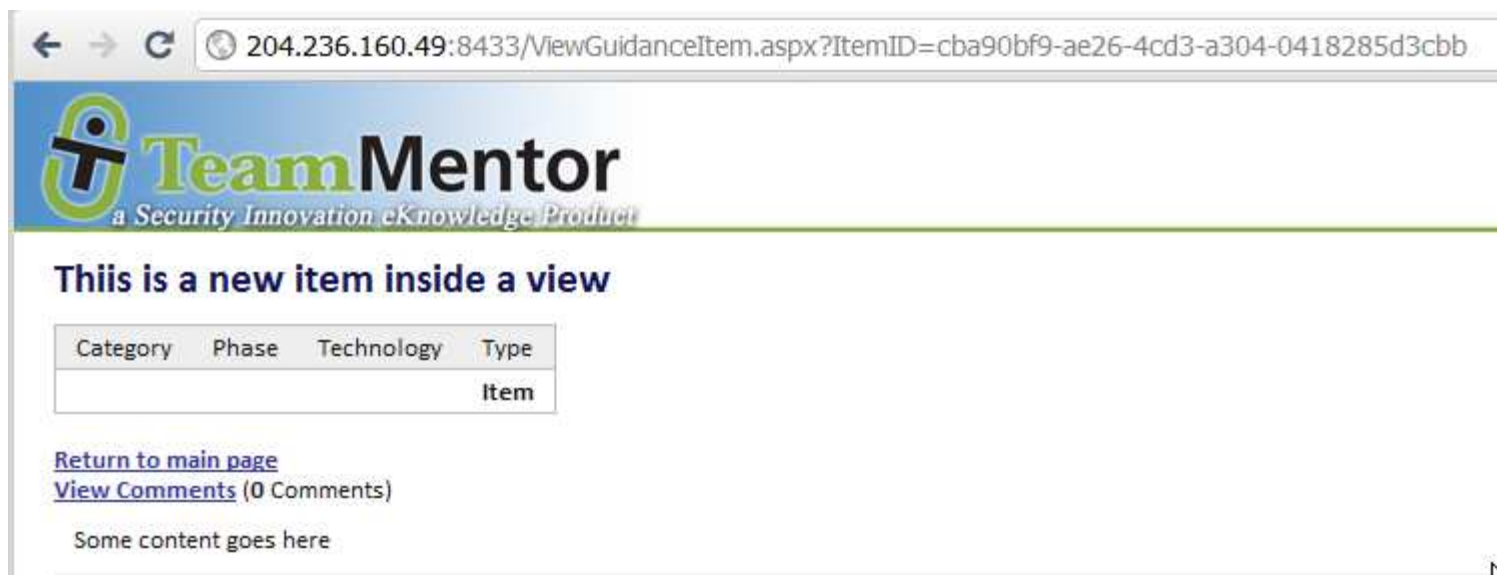
Once the synchronization completes:



..the newly created content and view will be online:

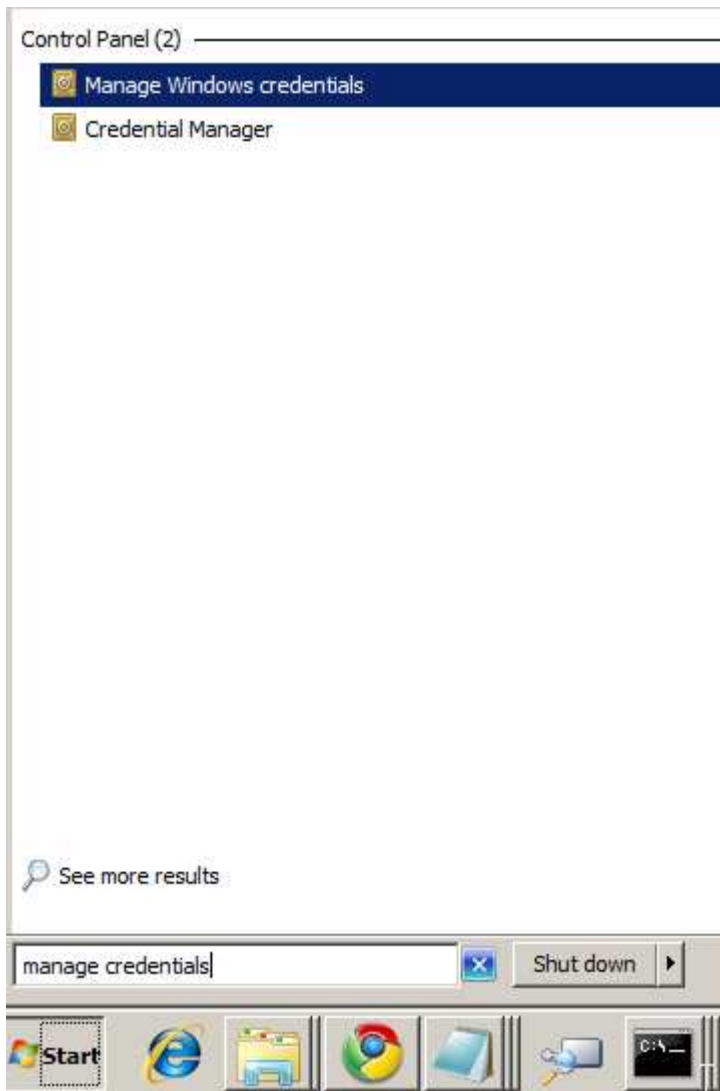


logged in users, can see the article's content



Local Credential management process

When prompted for credentials, if you chose to save them locally, the username and password entered will be securely stored on the Windows Credentials Manager which can be accessed like this



with the accounts mapped to the actual WebService's URL that was used :

Windows Credentials

[Add a Windows credential](#)

No Windows credentials.





Certificate-Based credentials

[Add a certificate-based credential](#)

No certificates.

Generic Credentials

[Add a generic credential](#)

http://204.236.157.188:9048/onlinestorage.asmx	Modified: 4/13/2011	
http://204.236.160.49:8434/onlinestorage.asmx	Modified: Today	
http://204.236.160.49:8563/OnlineStorage.asmx	Modified: Today	
http://204.236.160.49:9504/onlinestorage.asmx	Modified: Today	
http://localhost:10001/TeamMentorOnlineStorage/OnlineSt...	Modified: 4/13/2011	