CONFIGURING SSO FOR SHAREPOINT DOCUMENTS WITH KERBEROS/SPNEGO AUTHENTICATION

Overview

Configuring IBM® Content Analytics with Enterprise Search (ICA) to support single sign-on (SSO) authentication for secure search of Microsoft SharePoint documents involves the following steps:

- Installing ICA on WebSphere® Application Server (WAS). For installation instructions, see the fix pack readme file.
- Ensuring that Kerberos/SPNEGO-based application SSO is configured correctly between the SharePoint and ICA application servers. Verify that when you move from one application to the other in your web browser that you are not prompted to log in.
- Configuring the target SharePoint server, Internet Information Server, and Active Directory to allow Kerberos token propagation for the WAS instance that resides in the ICA server.
- Deploying a web service that is bundled with ICA on the SharePoint server.

After completing these steps, you can create a SharePoint crawler and configure the crawler to support secure search through SSO authentication.

SharePoint server configuration for Kerberos

The SharePoint server must be configured to use Kerberos authentication. Because the crawler requires NTLM authentication, the SharePoint server must support both the Kerberos/SPNEGO and NTLM protocols. Otherwise, the SharePoint crawler is not able to collect documents.

To configure the SharePoint server, see the section about Implementing Windows Authentication Methods in the following document, *Plan authentication methods (SharePoint Server 2010)*:

http://technet.microsoft.com/en-us/library/cc262350.aspx#section9

After setting up the server authenticaton, you must configure the client. The client must be in a domain member machine, and must log in as a domain user.

During configuration, it's important to understand the concept of Service Principal Name (SPN) on IIS. For assistance, see the following document, *How to use SPNs when you configure Web applications that are hosted on Internet Information Services*:

http://support.microsoft.com/kb/929650

In a later configuration task, the name of the SPN that is assigned to the SharePoint server (IIS) will be needed. You might want to make a note of the SPN in this step.

When you finish this configuration task, you can log in to SharePoint without being prompted for credentials; you are recognized as the domain user that you used for Windows OS login.

WebSphere Application Server configuration to enable SPNEGO-based application SSO

Before configuring secure search SSO with Kerberos authentication, application SSO between the SharePoint and ICA servers must be configured properly. Because ICA is installed on WAS, this task involves configuring WAS to enable SPNEGO-based SSO.

For detailed procedures about configuring WAS, see the following information: <a href="http://pic.dhe.ibm.com/infocenter/wasinfo/v7r0/topic/com.ibm.websphere.base.doc/info/aes/ae/csecspnecosecspnecosecspnecosecspnecosecspnecosecspnecosespnecosespnecosespnecosecspnecosecspnecosecspnecosecspnecosespneco

http://pic.dhe.ibm.com/infocenter/wasinfo/v7r0/topic/com.ibm.websphere.base.doc/info/aes/ae/tsec_SPNEGO_config.html

During the configuration task, it's important to enable the "Enable delegation of Kerberos credentials" capability. This function allows the ICA security processor to reuse the user's Kerberos credential, which is used for logging in to WAS, to access the SharePoint server on behalf of the user.

When you finish this configuration task, you can log in to WAS without being prompted for credentials; you are recognized as the domain user that you used for Windows OS login. You can move from a page hosted by WAS to a page on the SharePoint server without any authenticatoin challenges.

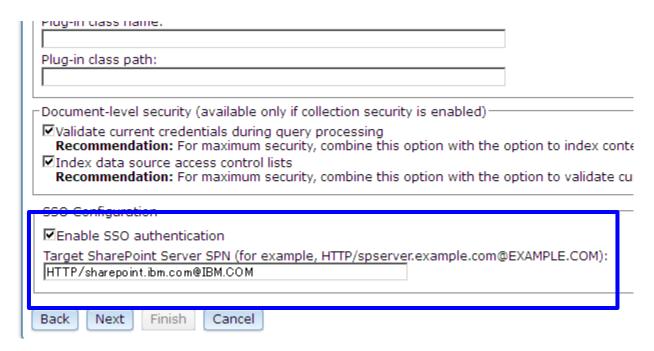
Web service deployment

Before you configure a SharePoint crawler, you must deploy provided web services on the SharePoint server. These web services enable support for several functions, including farm-aware crawling and secure search. For instructions, see the following topic:

http://pic.dhe.ibm.com/infocenter/analytic/v3r0m0/topic/com.ibm.discovery.es.ad.doc/iiysacspwebsvc.htm

ICA SharePoint crawler configuration to enable SPNEGO-based secure search SSO

If the environment meets the preceding pre-requisites, ICA is now ready to be configured. To create a SharePoint crawler that supports SPNEGO authentication for secure search processing, select the "Enable SSO authentication" check box on the first page of the SharePoint crawler creation panel (the crawler properties) and specify the SharePoint server's SPN.



This is the only difference between SSO and non-SSO cases. You can create an index with the same procedures that you use for indexing other secure collections.

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