## Lab 16 HTTP and WebSphere MQ Security Lab

## 16.1 Overview

This lab will demonstrate LDAP authentication and authorization within a message flow via an HTTPInput node, authorization via an MQInput node and identity (userid) propagation. The message flow, shown below, is provided as well as a "ready to deploy" bar file.

You will also see how your WebSphere Message Broker artifacts can be imported from a Project Interchange File (PIF). You can also use the corresponding export function to create a .pif.

A V3 LDAP server (Tivoli Directory Server) is provided in the PoT image and the WebSphere Message Broker has been configured with a pair of LDAP security profiles. One part of the lab is to view these two profiles, as described in the lecture. A pair of test files is provided for the testing phase. Also, a detailed description is included on how the message flow was built and how the bar file was configured to use the Security Profiles.

**Note:** A Security Sample is provided in the WebSphere Message Broker Toolkit that shows additional ways to work with the security options.



Checking LDAP Server Status



This Lab interfaces with an LDAP server. We are using the Tivoli Directory Server for this purpose. In this environment it is running as a Windows Service. We need to make sure that it is started.

\_\_\_1. Launch the Windows services applet using the icon in the tray as indicated above.

🍇 Services (Local)				
IBM Tivoli Directory Server	Name A	Description	Status	Starl
Instance V6.0 - Idapsrv1	BIBM MQSeries	Provides st. 🏒	Started	Auto
Chan blog comview	🖏 IBM Tivoli Directory Admin Daemon V6.0 - Idansry1			Mani
Restart the service	IBM Tivoli Directory Server Instance V6.0 - Idapsrv1		Started	Auto
	WWITEN WEDSphere Application Server V6.1 - Advessivo	Start		Mani
	🆓 IBM WebSphere Message Broker component MB7BR	Stop	arted	Auto
	🆓 IMAPI CD-Burning COM Service	Pause		Mani
	🆓 Indexing Service	Resume		Mani
	🆓 InstallDriver Table Manager	Restart		Mani
	No. IPSEC Services	All Tasks	arted	Auto
	🆓 ISSI EZUpdate		_	Disal
	🍓 Logical Disk Manager	Refresh	arted	Auto
	Cogical Disk Manager Administrative Service	Properties		Mani
l	Be Massanger		incoince.	Auto

- \_\_\_\_2. Scroll down and locate the Tivoli Directory Server Instance (not the Daemon).
- \_\_\_3. If the server instance is not running right click on the Server Instance and select Start. Note that the above screen shots show the LDAP server as already being started.
- \_\_\_4. Close the services applet.

## 16.2 Importing the Message Flow



- \_\_5. In the navigator pane right-click in the whitespace.
- \_\_6. Select **Import** from the menu.

💠 Import				8	×
Select Import a project and its dep	pendent project:	s from a Zip file.		Ľ	5
Select an import source:					
type filter text					
General G	nent ging rchange				
0	< Back	Next >	Finish	Cano	:el

- \_\_\_7. If necessary, expand the **Other** category.
- \_\_\_8. Select **Project Interchange**.
- \_\_9. Click Next.

🕀 Import Project In	terchange Contents			
Import Projects				
Import Projects from a	a zip riie.			
From zip file:			•	Browse
Project location root:	C:\student\workspace			Browse
		- 1		
Select All Deselect	t All Select Reference	ed		
0	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

\_\_10. Click Browse.

Open	?	×
Look jn:	: 🔁 Lab_Solutions 🚽 💽 🕥 🎓 🖽 -	
My Recent Documents Desktop My Documents My Computer	Lab_00_JKE_StartingPoint_LabMaterials_and_Client.zip Lab_18_Import_PIF.zip Lab_01_Intro_Lab.zip Lab_02_Intro_Lab.zip Lab_04_Intro_Lab and JKE_Cobol.zip Lab_05_JKE_Server.zip Lab_06_JKE_Server.zip Lab_07_JKE_Server.zip Lab_08_JKE_Server.zip Lab_09_JKE_Server.zip Lab_10_JKE_Server.zip Lab_11_JKE_Server.zip Lab_13_JKE_Server.zip Lab_15_CollectorNode.zip Lab_16_Broker_Security.zip	
Mu Network	Lab_17_JKE_Server.zip	1
Places	File name: Open   Files of type: *.zip	

- \_\_\_11. Navigate to the C:\Student\Lab\_Solutions directory.
- \_\_\_12. Select the Lab\_16\_Broker\_Security.zip.
- \_\_\_13. Click Open.

🕀 Import Project Interc	hange Contents			×
Import Projects Import Projects from a zip fi	e.			<u></u>
From zip file: C:\s Project location root: C:\s	tudent\Lab_Solutior tudent\workspace	s\Lab_16_Broker	_Security.zip 🔽	Browse
(		mv	vare	•
Select All Deselect All	Select Reference	1		
0	< Back	Next >	Finish	Cancel

There is a single Message Flow Project.

14.	Click Select All.
15.	Click Finish.
	JKE_Server_MessageSet SECUR01 Flows Broker Archives (default broker schema) SECUR.bar TestClientBarFiles
16.	Expand the <b>SECUR01</b> message flow project.

\_\_\_17. Expand the **Broker Archives->(default broker schems)** folders.

E-B SECUR01 E-B Flows E-B Broker Archives E-B (default brol	ka ema)
ECUR.	New 🕨
	Open
	Open With
	Сору
	Paste
	Delete
	Move
	Rename
	Add Bookmark
	놀 Import
🔚 Outline 🙀 Data S 🖉	🛃 Export
	Refresh
🖻 🗄 Brokers	Generate Documentation
I ⊡…⊘ MB/BROKER	E Deploy
	Build and Save Broker Archive

- \_\_\_18. Right-click on SECUR.bar.
- \_\_\_19. Select **Deploy File** from the menu.



21. Click Finish.



\_22. When the deploy process is completed, the **Security01** message flow should appear on the **Brokers** tab.

Note: You will have other artifacts deployed in your execution group.



Two security profiles have already been defined. The WebSphere MQ Explorer will be used to view the Security Manager profiles.

- \_\_\_23. Switch to the WebSphere MQ Explorer.
- \_\_\_24. Select the MB7BROKER broker.
- \_\_25. Press the right mouse button.
- \_\_\_26. Select **Properties** from the menu.

MB7BROKER - Properties		×
General Extended	Security	
Security	Cache Sweep Interval: 300	
	Cache Timeout: 60	
	Security Profiles	
	Policy Sets	
	Apply	
0	OK Cancel	

- \_\_\_27. Select the **Security** tab.
- \_\_\_28. Press the **Security Profiles** button.

The information is obtained from the running broker.

Security Profiles for "MB7BROKER"	
Set up Security Profiles for this Broker	
Expand the tree to the left to alter Security Profile information for the Broker ""MB7BROKER"" Click Add to add a new Security Profile	
Security Profiles	
Add Delete   Import Export	
0	Finish Cancel

The three profiles are **LDAP**, **LDAP\_Lookup** and **MQ\_LDAP\_Lookup**. The first profile was used in the WS-Security lab. The other two profiles will be used in this lab.

\_\_\_\_29. Select the **LDAP\_Lookup** to display the properties of the profile.

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