Oracle Web Service Manager Implementation Guide Oracle Banking Corporate Lending Release 14.7.4.0.0 Part No. F98076-01 [May] [2024]

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1. Introduction

The Oracle Web Services Manager (WSM) Policy Manager is the security and management policy lynchpin for Oracle Fusion Middleware 11*g* Web services. It provides a policy framework to manage and secure Web services consistently across your organization. Oracle WSM can be used by both developers, at design time, and system administrators in production environments. The policy framework is built using the WS-Policy standard

The following list provides examples of specific tasks that you can perform using Oracle WSM:

- Handle WS-Security (for example, encryption, decryption, signing, signature validation, and so on)
- Define authentication and authorization policies against an LDAP directory.
- Generate standard security tokens (such as SAML tokens) to propagate identities across multiple Web services used in a single transaction.
- Segment policies into different namespaces by creating policies within different folders.
- Examine log files.



2. Prerequisites

This document assumes that the following software are installed and configured properly.

- Oracle SOA Suite 11g
- Oracle Weblogic Server 11g
- Oracle Web Service Manager 11g which comes along with Oracle SOA suite 11g
- eviware soapUI3.0.1 (For testing the web service with policy)

Gateway EJB and Gateway Web Services has to be deployed on weblogic server before attaching policies.

For gateway EJB and gateway Web services deployment please refer to Gateway Installation guide.



3. Installation

For the installation of Oracle SOA 11g and Oracle Weblogic 11g please refer to Installation Guide for Oracle SOA Suite and Getting Started With Installation for Oracle Weblogic Server respectively.



4. Attaching policies to the Web Service

The following policy which have been tested with FLEXCUBE services :

- policy:oracle/wss_username_token_service_policy
- Please follow the procedure mentioned to attach a policy to the web service.

Navigate to the Summary of Deployments page.

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1. Expand the web service application and click on Web Services link.



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2. Navigate to the Configuration tab.

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	Overview	Configuration	Security	Testing	Monitoring						
Domain Structure											
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How do I • Start and stop a Web Service • View the Web Service configuration	Service Na		FCUBSCcyService			The name of this Web Service. This name appears in WSDL file that defines the public contract of this Wel Service. More Info					

3. Click 'WS-Policy'.



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Install a Web Service								deployed Web Service for JAX-RPC Web Services. Note that JAX-WS Web Services always publish the WSDL. Valid values include true or false. If set to true, then the			
System Status								server returns the WSDL upon request using the URL format: service_address?WSDL. If false, then the server			
Health of Running Servers								returns a 404 code because the WSDL is not available. The WSDL file is defined by the <wsdl-file> element in the webservices.xml descriptor. More Info</wsdl-file>			

4. Select web service end point of the web service.

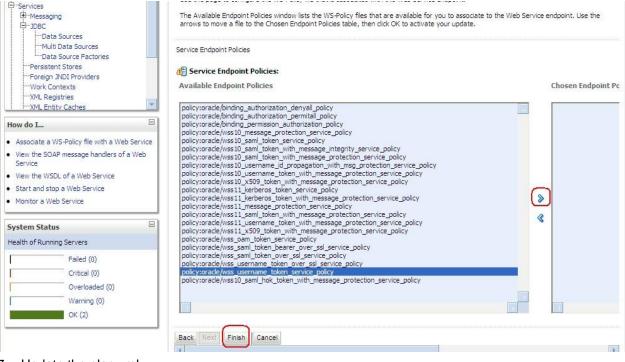
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5. Select OWSM web service policy and navigate to the next page by clicking on 'Next'.



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6. Select policy:oracle/wss_username_token_service_policy and click on finish.

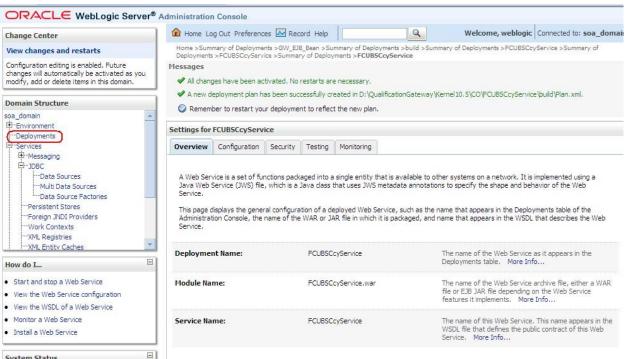


7. Update the plan.xml.



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8. Click on Deployment to restart the application to reflect the plan.



System Status

9. Stopping the application.



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10. Starting the application.

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11. After starting the application make sure that it is active.



Domain Structure	Sumn	ary of Deploym	ents						
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System Status] 🕀 📑 em		Active	🖋 ок	Enterprise Application	400		
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12. Expand the application and click on the web service to verify the policies attached with it.

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Copyright © 1996,2009, Oracle and/or its affiliates. All right		ed. filiates. Other names may be trademarks of their respective owners.				



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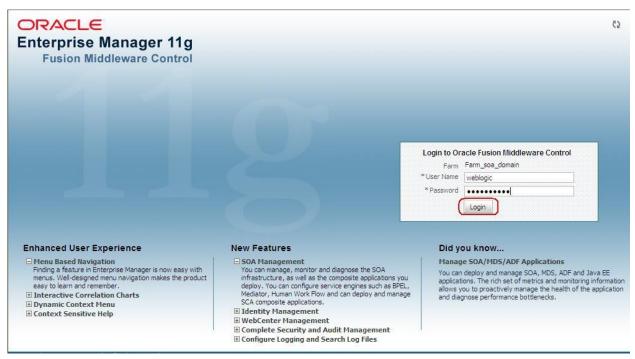
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5. Testing Web Service with Policies

5.1 Testing Web Service through Enterprise Manager

1. Once attaching the policies is finished, login to the enterprise manager (http://hostname:port/em)



2. Expand the Weblogic Domain and Select the domain (created during SOA installation).



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3. Select Test Web Service link from the fusion middleware control.

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4. Enter the WSDL URL of the web service for which policy is applied and click on Parse WSDL.



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5. Select the operation for which you want to test the web service.

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6. Select WSS Username Token and enter the Weblogic credentials.



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7. Enter the Request Message and Click on Test Web Service button.

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	* RequestMsg	string	<fcubs_req_env><fcubs_h< td=""></fcubs_h<></fcubs_req_env>

8. The Test Status Passed indicates the web service is properly authenticated by the policy.

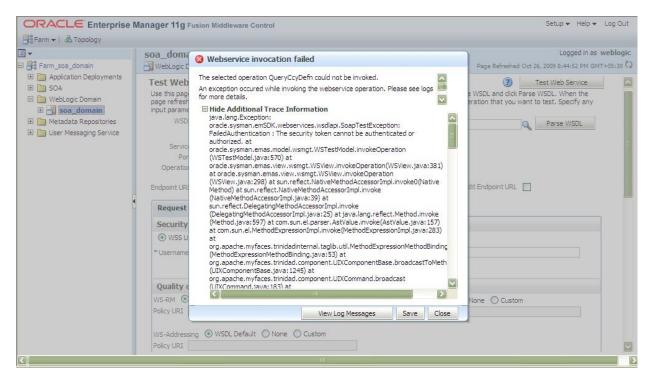


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9. Wrong credential will result to an error during Testing of web service.

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Application Deployments SOA WebLogic Domain Soa_domain Metadata Repositories	Test Web Service Test Web Service Use this page to test any WSDL, including WSDLs that are not in the farm. To test a Web service, enter the WSDL and click Parse WSDL. When the page refreshes with the WSDL details, first select the Service, then select the Port, and then select the Operation that you want to test. Specify any input parameters, and click Test Web Service.	3
🗄 🛅 User Messaging Service	http://cvrhpu/u/.i-flex.com:8001/FCUBSCcyservice/FCUBSCcyservice/WSDL	
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	Request Response	
	Security	
	WSS Username Token O HTTP Basic Auth O Custom Policy O None	
	* Username weblogic12 Password •••••	
	Quality of Service	
	WS-RM WSDL Default None Custom MTOM WSDL Default None Custom	
	Policy URI Policy URI	
	WS-RM WSDL Default None Custom MTOM WSDL Default None Custom	





5.2 <u>Testing of Web Service via SOAP UI (eviware soapUI3.0.1)</u>

The above Testing of web service can also be done via SOAP UI as follows:

Configure the Outgoing WS- Security Configurations by double clicking the project and navigating to the Security Configurations tab.



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Project Properties Custom Properties Property Value		
Name FCUBSCcyService Description File D:\soapui-3.0.1 V	resp	(0)
Properties	soapUI log http log jetty log error log wsrm log memory log	

- 1. Create a new request for the operation, which you want to invoke.
- 2. Configure the Authentication and security related setting by going to Aut Section as shown to apply the WS-User Token into the request.



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3. Run the request by clicking the button as shown.

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Request Properties Property Value		<pre><settlemntmsgdays>0</settlemntmsgdays> <indexflag>n</indexflag></pre>		
Propercy Value Name Request 1 Description ////////////////////////////////////	Aut Headers (0) Attachments (0) W5-A W5-RM response time: 498ms (2703 bytes)	Headers (6) Attachments (0) SSL Info WSS (0) 1:1		
Properties	soapUI log http log jetty log error log wsrm log memory log			





Oracle Web Service Manager Implementation Guide [May] [2024] Version 14.7.4.0.0

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India

Worldwide Inquiries: Phone: +91 22 6718 3000 Fax: +91 22 6718 3001 https://www.oracle.com/industries/financial-services/index.html

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