Oracle Web Service Manager Implementation Guide
Oracle FLEXCUBE Universal Banking
Release 14.0.0.0.0
[February] [2018]

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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

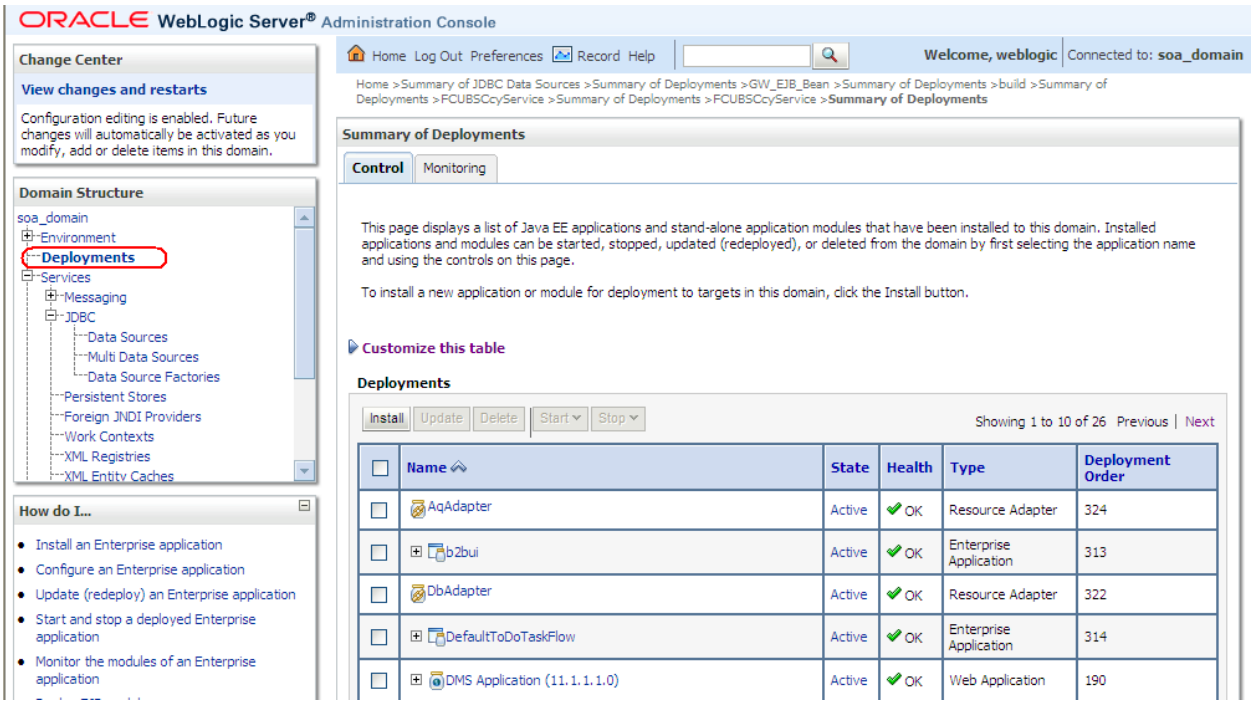
For the installation of Oracle SOA 11g and Oracle Weblogic 11g please refer to Installation Guide for Oracle SOA Suite and Getting Started With Installation for Oracle Weblogic Server respectively.

4. Attaching policies to the Web Service

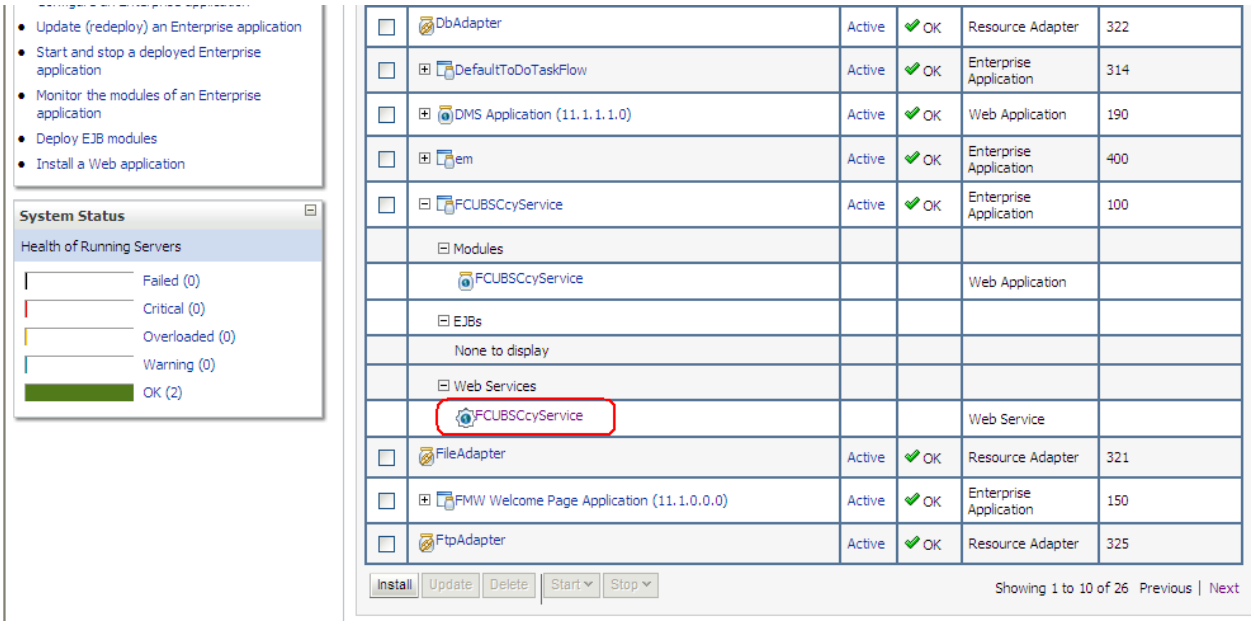
The following policy which have been tested with FLEXCUBE services :

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

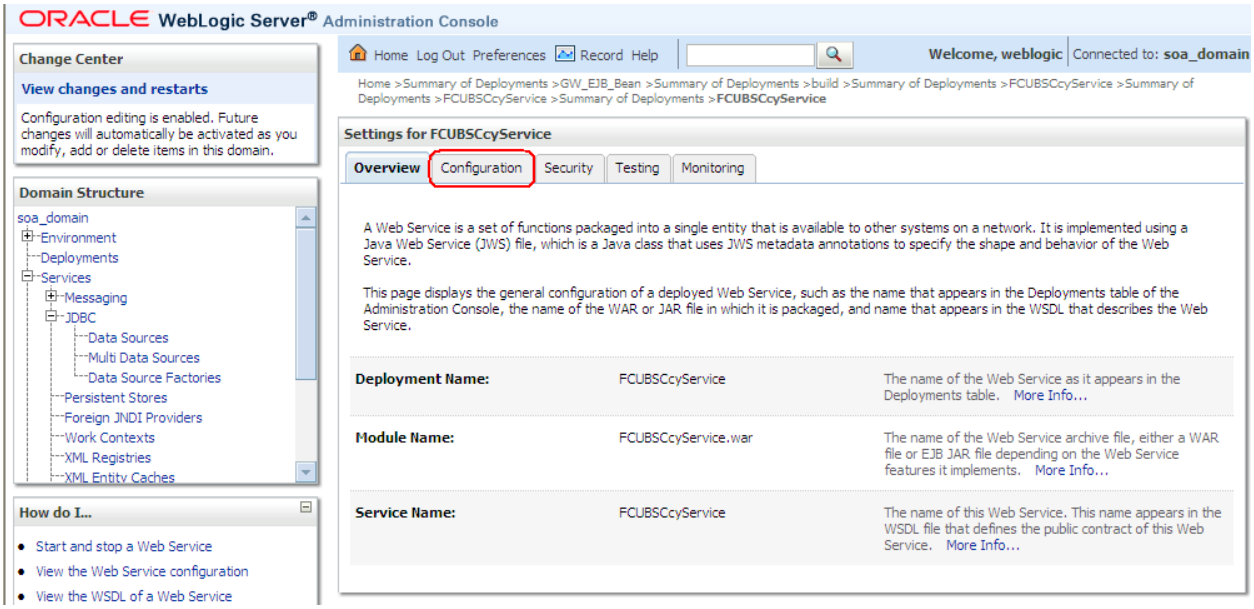
Navigate to the Summary of Deployments page.



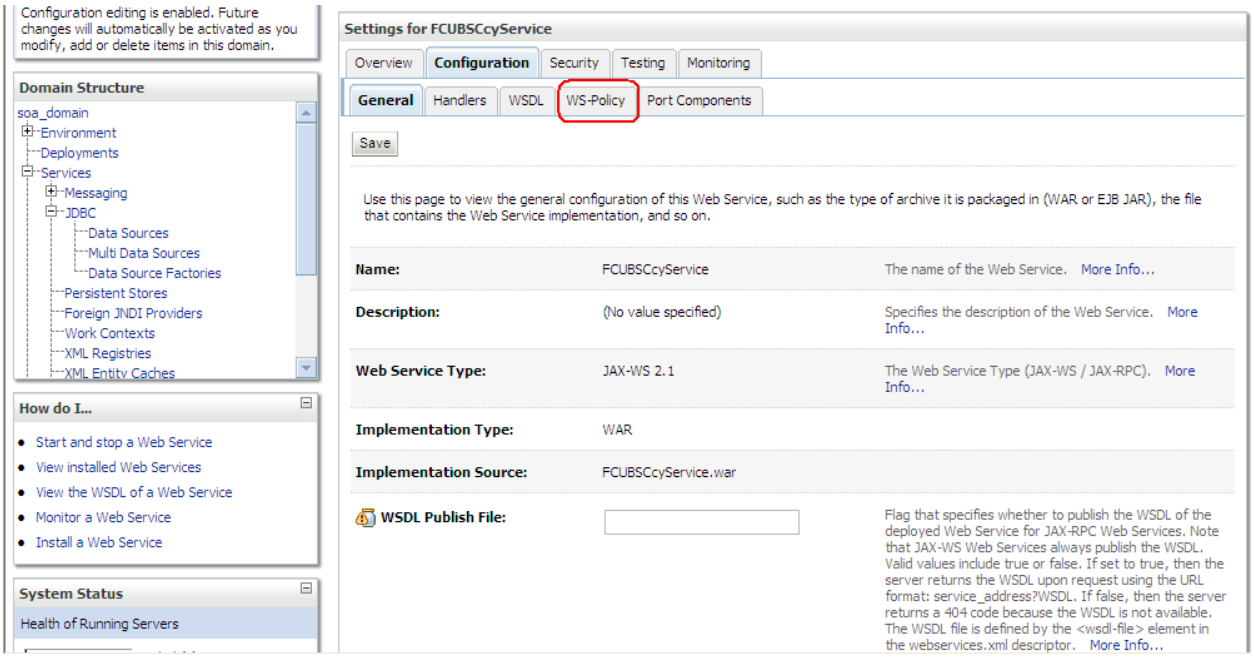
1. Expand the web service application and click on Web Services link.



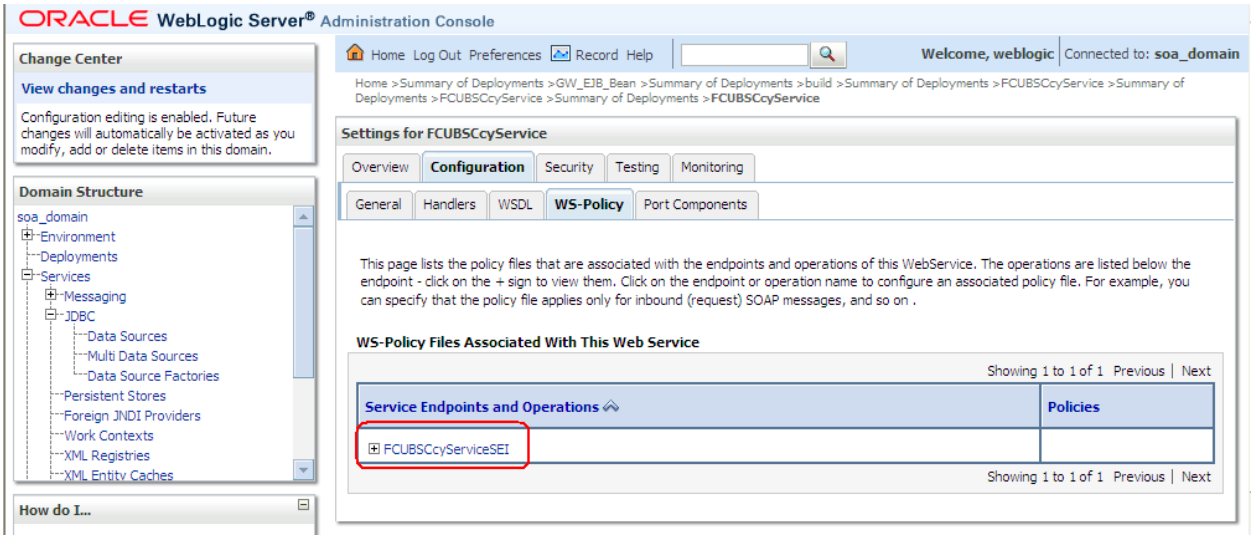
2. Navigate to the Configuration tab.



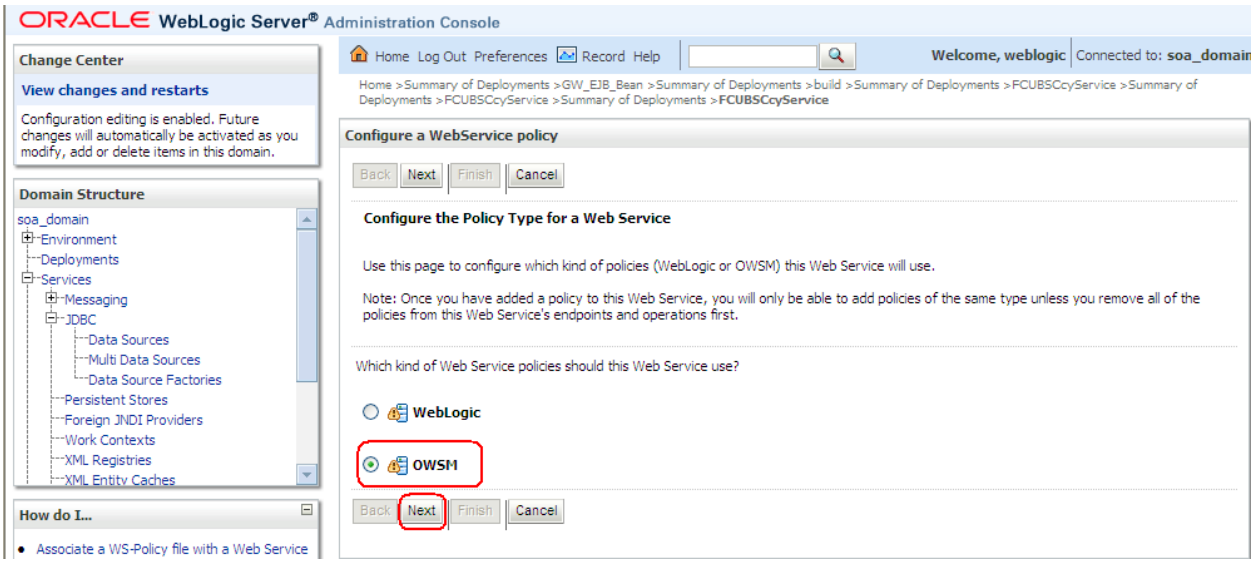
3. Click ‘WS-Policy’.



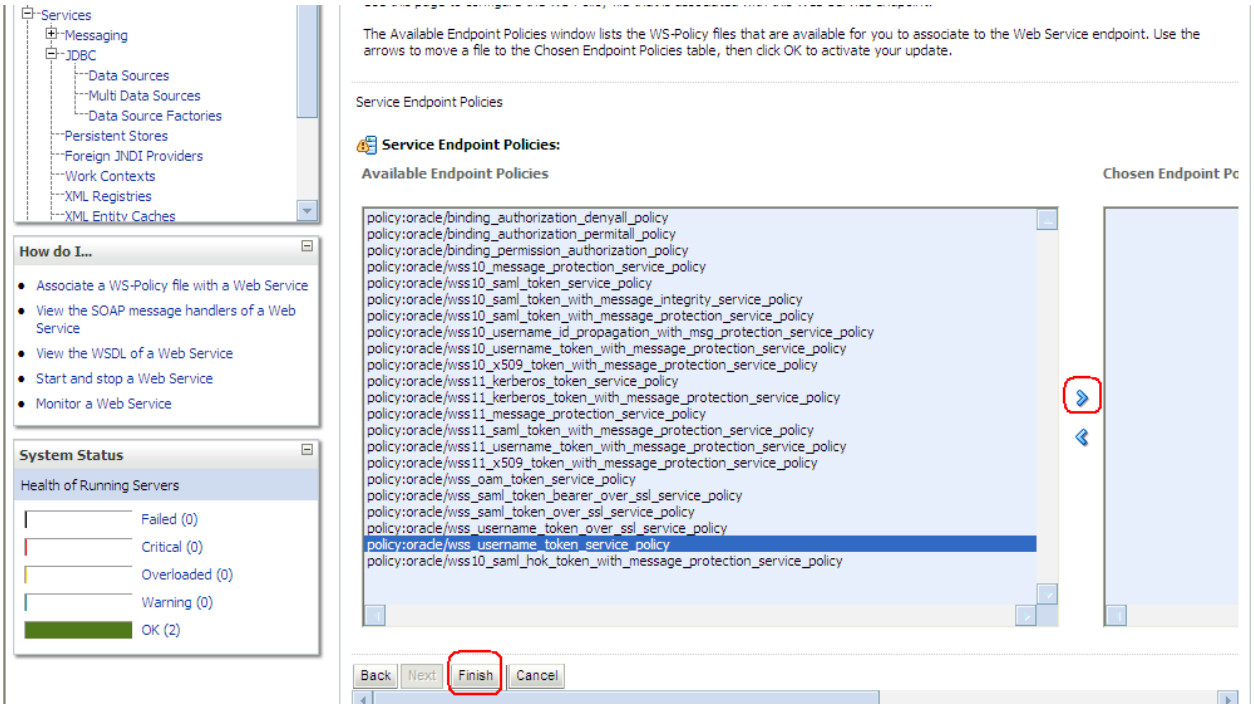
4. Select web service end point of the web service.



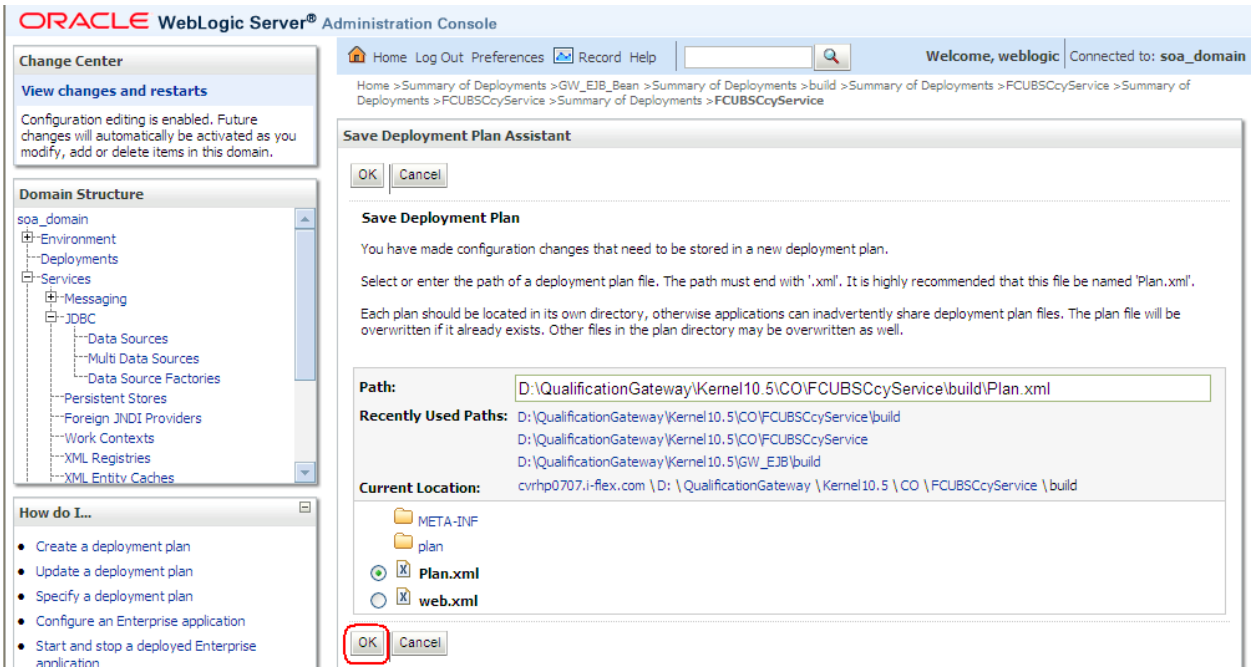
5. Select OWSM web service policy and navigate to the next page by clicking on ‘Next’.



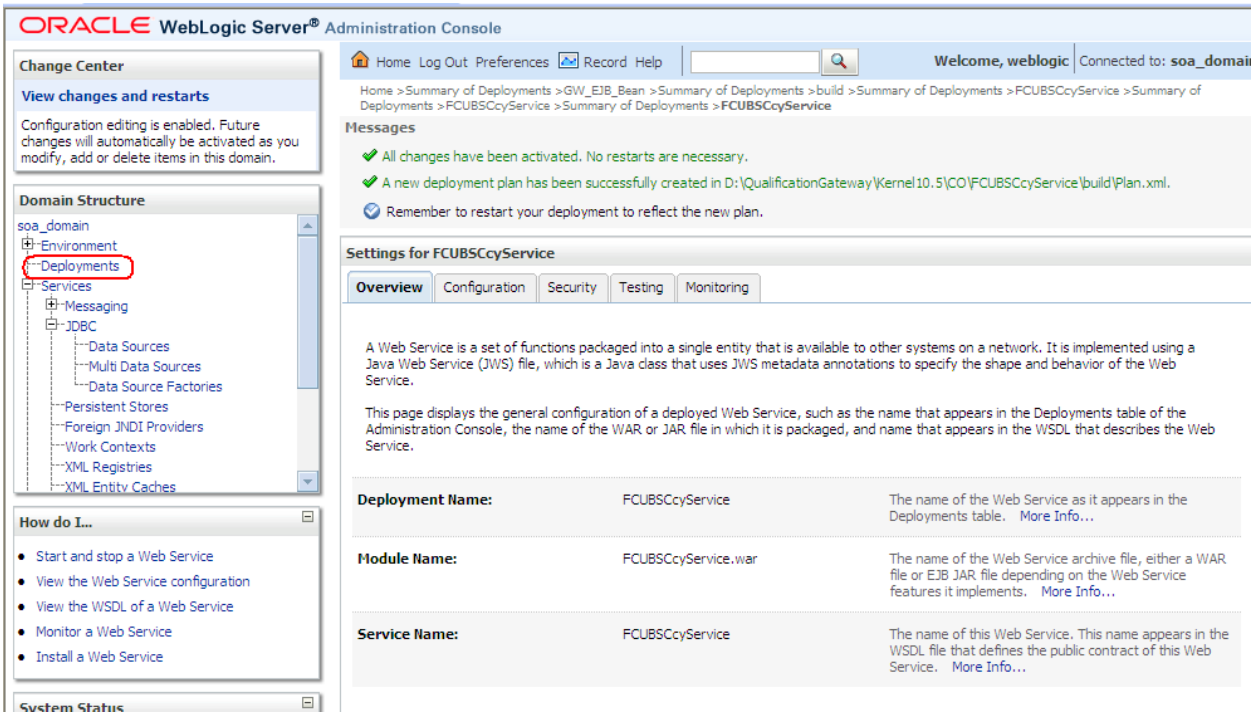
6. Select policy:oracle/wss_username_token_service_policy and click on finish.



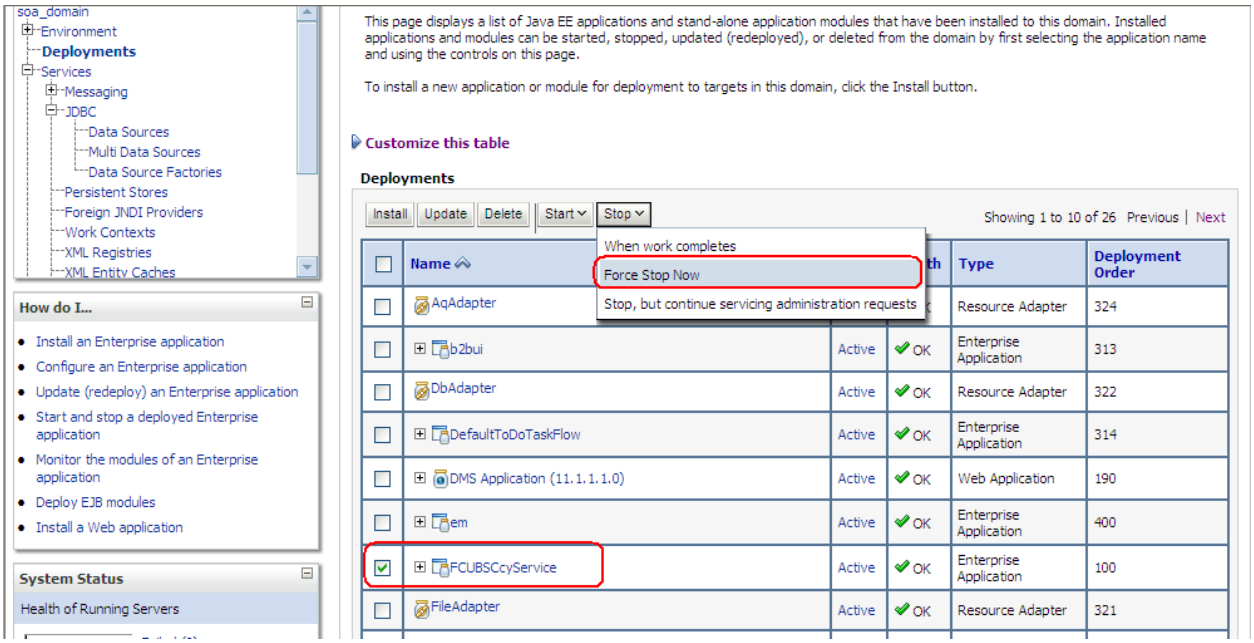
7. Update the plan.xml.



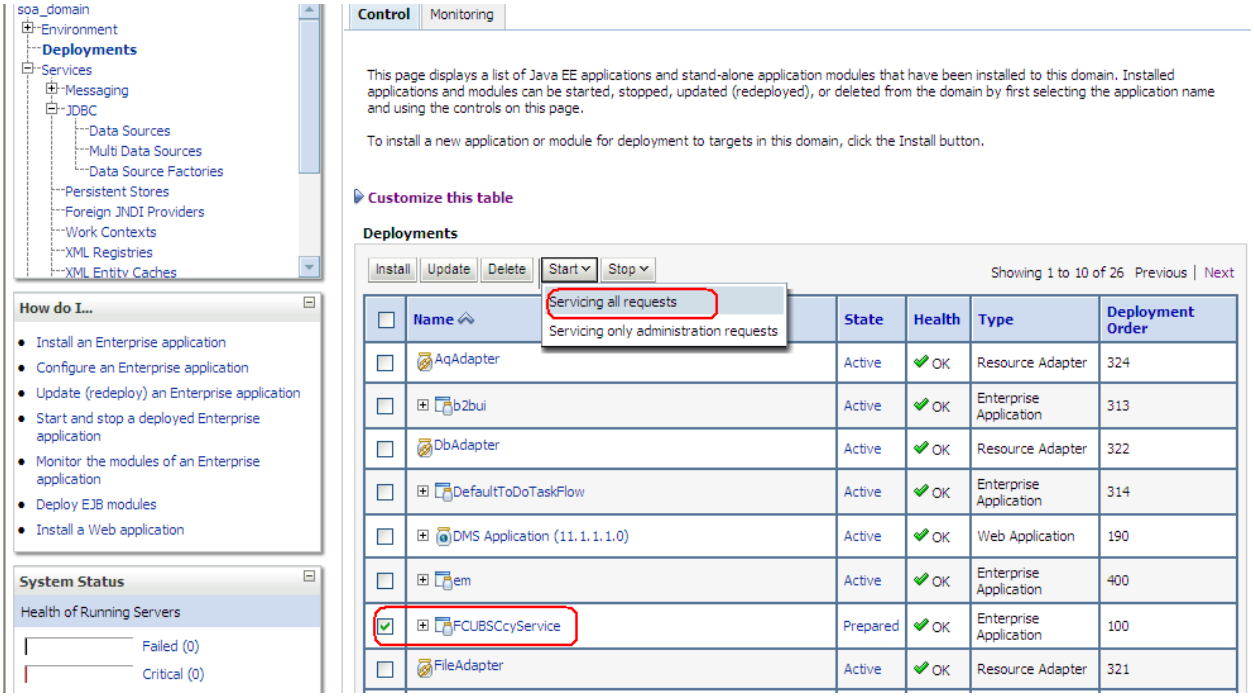
8. Click on Deployment to restart the application to reflect the plan.



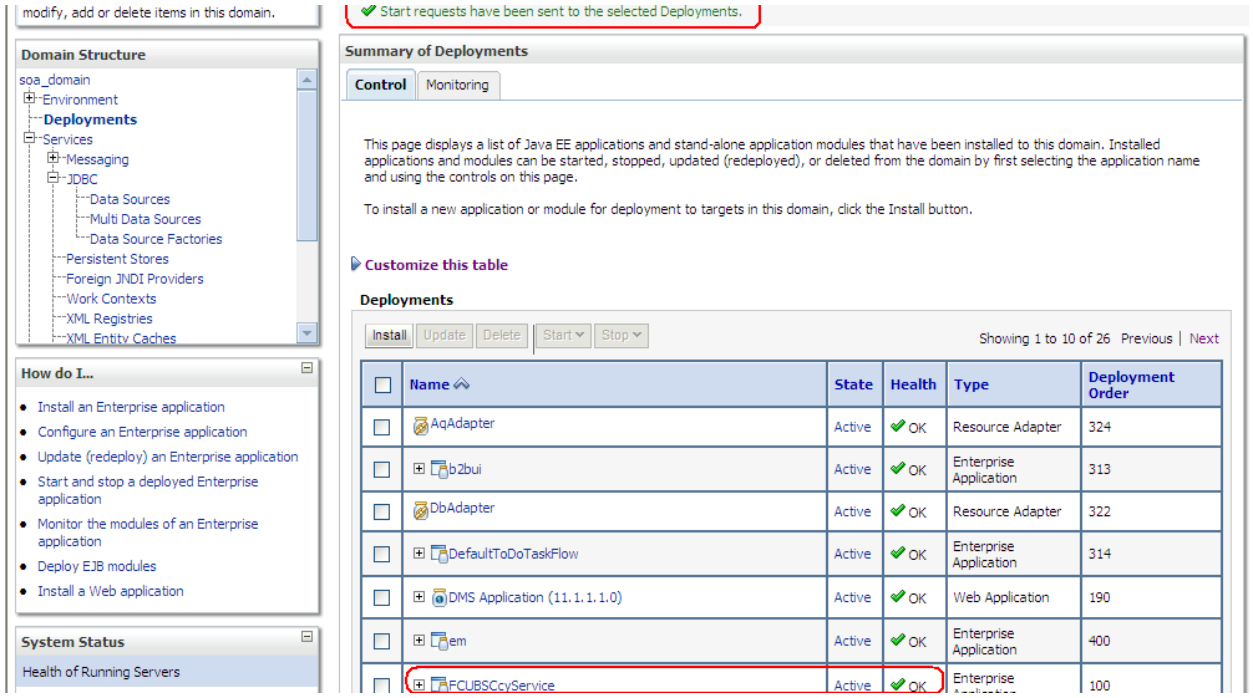
9. Stopping the application.



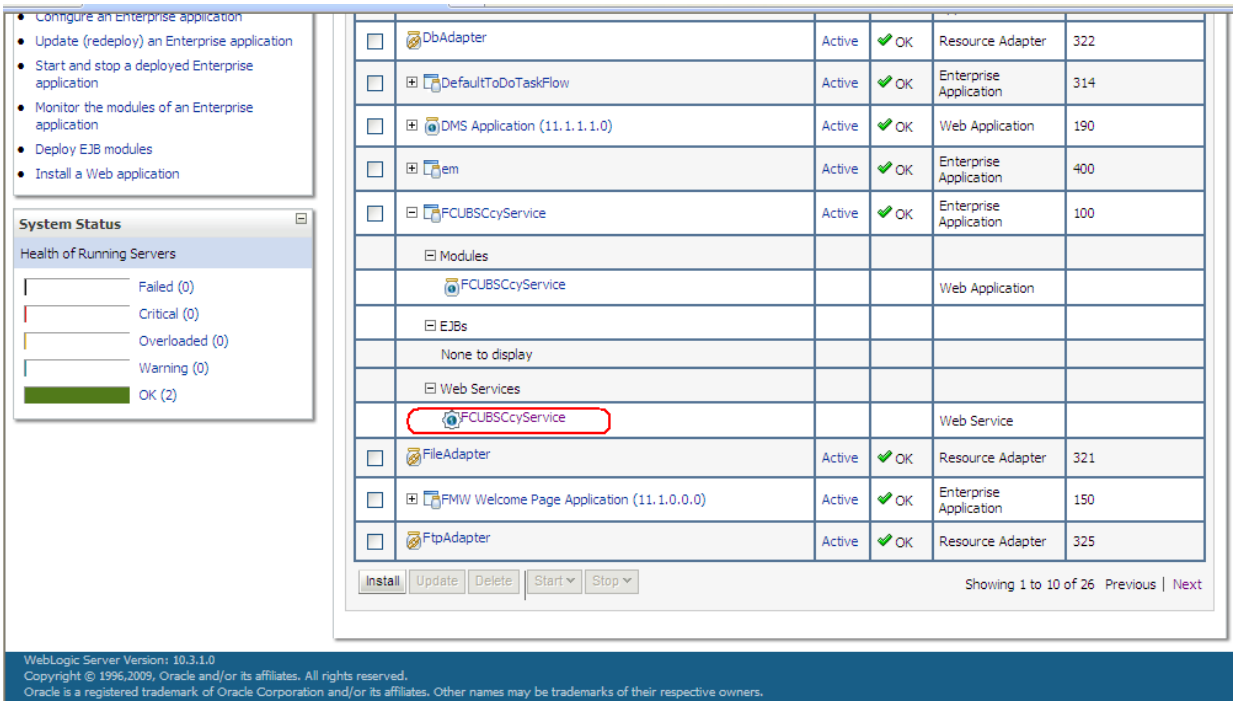
10. Starting the application.

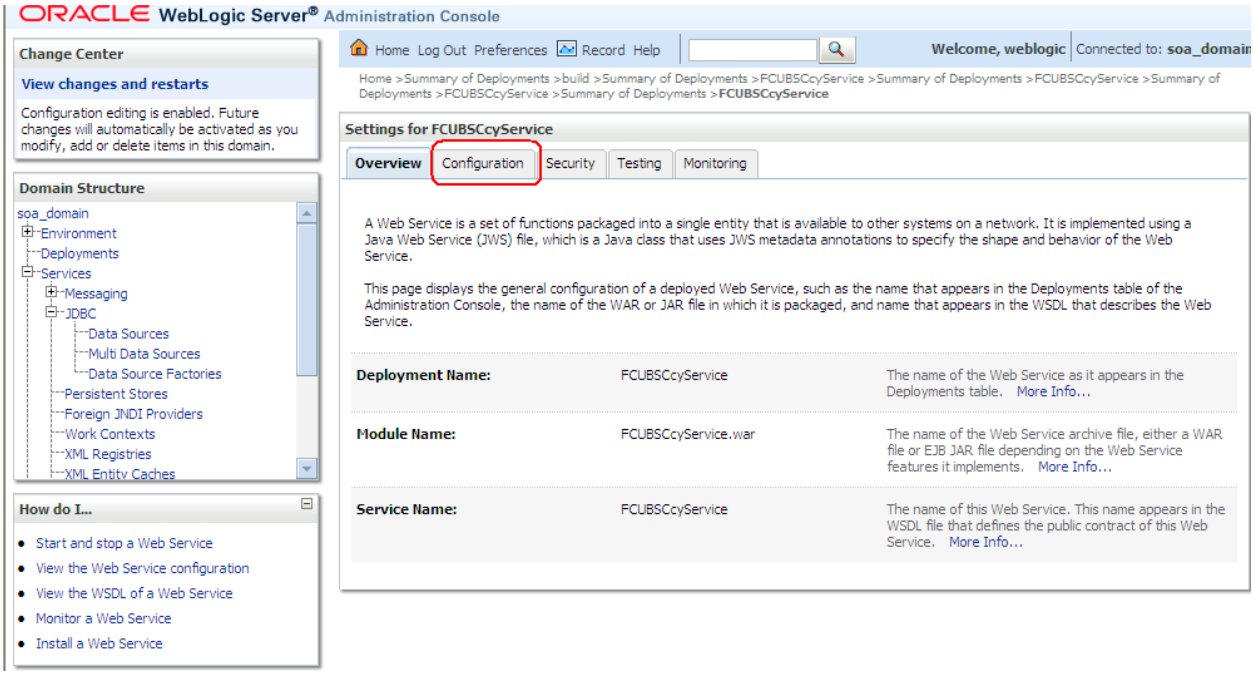


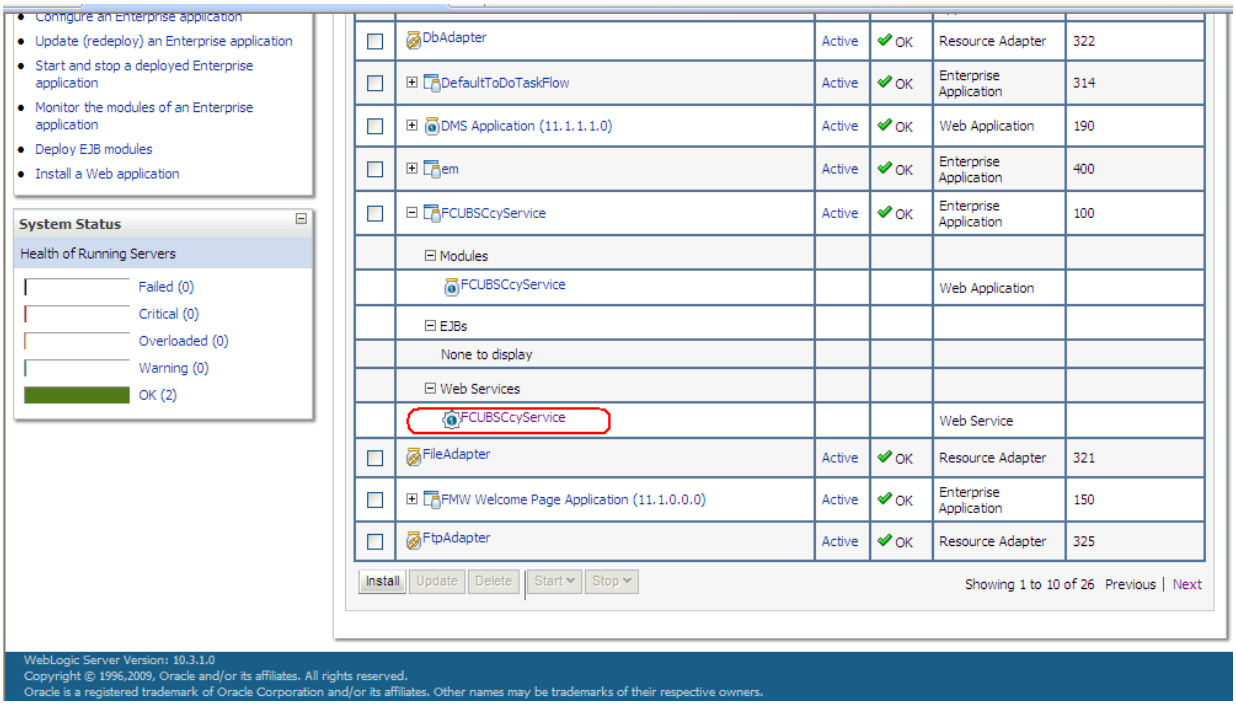
11. After starting the application make sure that it is active.



12. Expand the application and click on the web service to verify the policies attached with it.




ORACLE WebLogic Server® Administration Console
Change Center
View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.
Domain Structure
soa_domain
Environment
Deployments
Services
Messaging
JDBC
Data Sources
Multi Data Sources
Data Source Factories
Persistent Stores
Foreign JNDI Providers
Work Contexts
XML Registries
XML Entity Caches
How do I...
Start and stop a Web Service
View the Web Service configuration
View the WSDL of a Web Service
Monitor a Web Service
Install a Web Service
Home Log Out Preferences Record Help
Welcome, weblogic | Connected to: soa_domain
Home >Summary of Deployments >build >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService
Settings for FCUBSCcyService
Overview
Configuration
Security
Testing
Monitoring
A Web Service is a set of functions packaged into a single entity that is available to other systems on a network. It is implemented using a Java Web Service (JWS) file, which is a Java class that uses JWS metadata annotations to specify the shape and behavior of the Web Service.
This page displays the general configuration of a deployed Web Service, such as the name that appears in the Deployments table of the Administration Console, the name of the WAR or JAR file in which it is packaged, and name that appears in the WSDL that describes the Web Service.
Deployment Name: FCUBSCcyService
The name of the Web Service as it appears in the Deployments table. More Info...
Module Name: FCUBSCcyService.war
The name of the Web Service archive file, either a WAR file or EJB JAR file depending on the Web Service features it implements. More Info...
Service Name: FCUBSCcyService
The name of this Web Service. This name appears in the WSDL file that defines the public contract of this Web Service. More Info...


Configure an Enterprise application
Update (redeploy) an Enterprise application
Start and stop a deployed Enterprise application
Monitor the modules of an Enterprise application
Deploy EJB modules
Install a Web application
System Status
Health of Running Servers
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (2)
DbAdapter Active OK Resource Adapter 322
DefaultToDoTaskFlow Active OK Enterprise Application 314
DMS Application (11.1.1.1.0) Active OK Web Application 190
em Active OK Enterprise Application 400
FCUBSCcyService Active OK Enterprise Application 100
Modules
FCUBSCcyService Web Application
EJBs
None to display
Web Services
FCUBSCcyService Web Service
FileAdapter Active OK Resource Adapter 321
FMW Welcome Page Application (11.1.0.0.0) Active OK Enterprise Application 150
FtpAdapter Active OK Resource Adapter 325
Install Update Delete Start Stop
Showing 1 to 10 of 26 Previous | Next
WebLogic Server Version: 10.3.1.0
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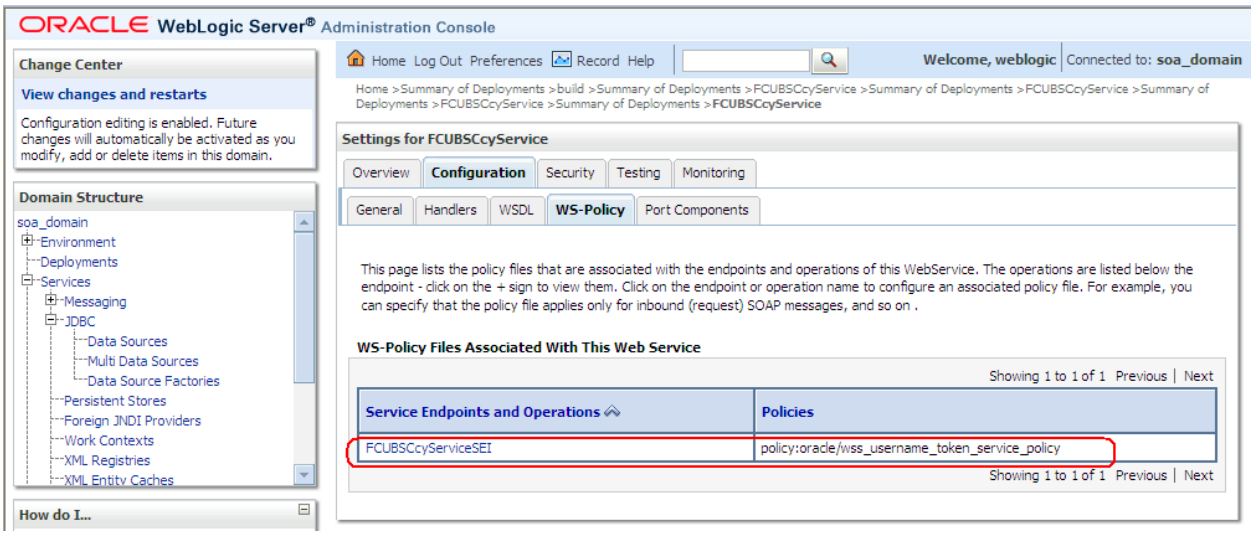
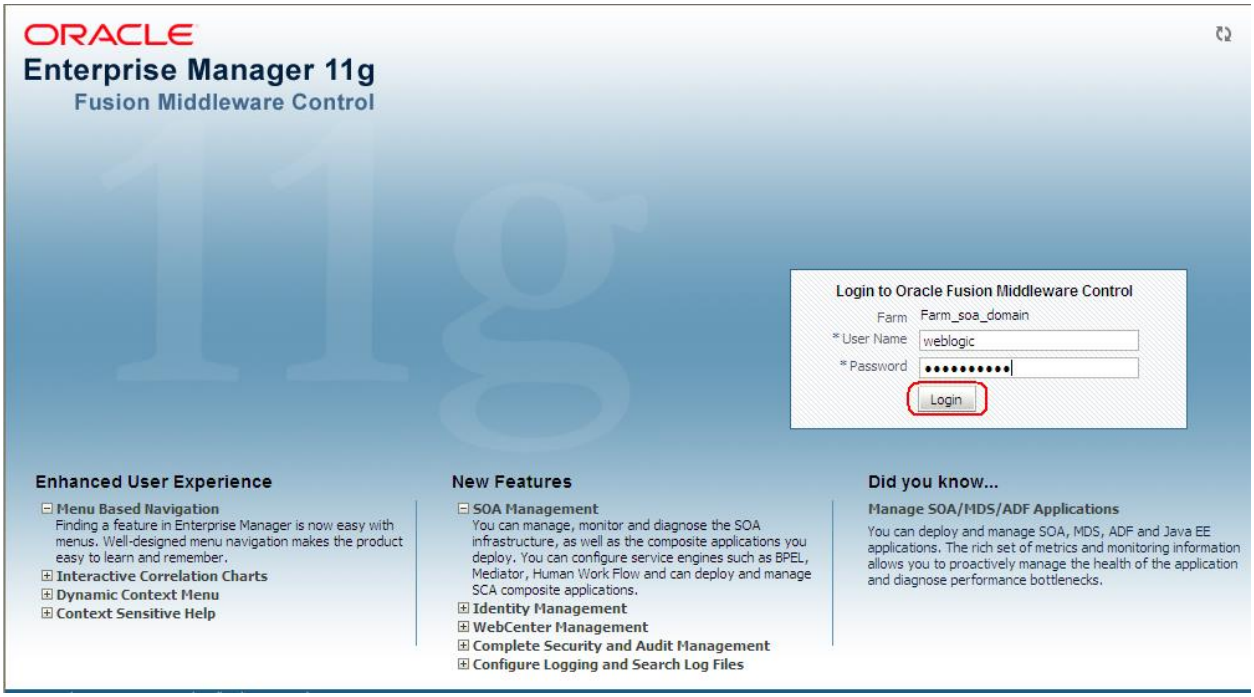

ORACLE WebLogic Server® Administration Console
Change Center
View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.
Domain Structure
soa_domain
Environment
Deployments
Services
Messaging
JDBC
Data Sources
Multi Data Sources
Data Source Factories
Persistent Stores
Foreign JNDI Providers
Work Contexts
XML Registries
XML Entity Caches
How do I...
Home Log Out Preferences Record Help
Welcome, weblogic | Connected to: soa_domain
Home >Summary of Deployments >build >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService
Settings for FCUBSCcyService
Overview Configuration Security Testing Monitoring
General Handlers WSDL WS-Policy Port Components
This page lists the policy files that are associated with the endpoints and operations of this WebService. The operations are listed below the endpoint - click on the + sign to view them. Click on the endpoint or operation name to configure an associated policy file. For example, you can specify that the policy file applies only for inbound (request) SOAP messages, and so on .
WS-Policy Files Associated With This Web Service
Showing 1 to 1 of 1 Previous | Next
Service Endpoints and Operations
Policies
FCUBSCcyServiceSEI
policy:oracle/wss_username_token_service_policy
Showing 1 to 1 of 1 Previous | Next

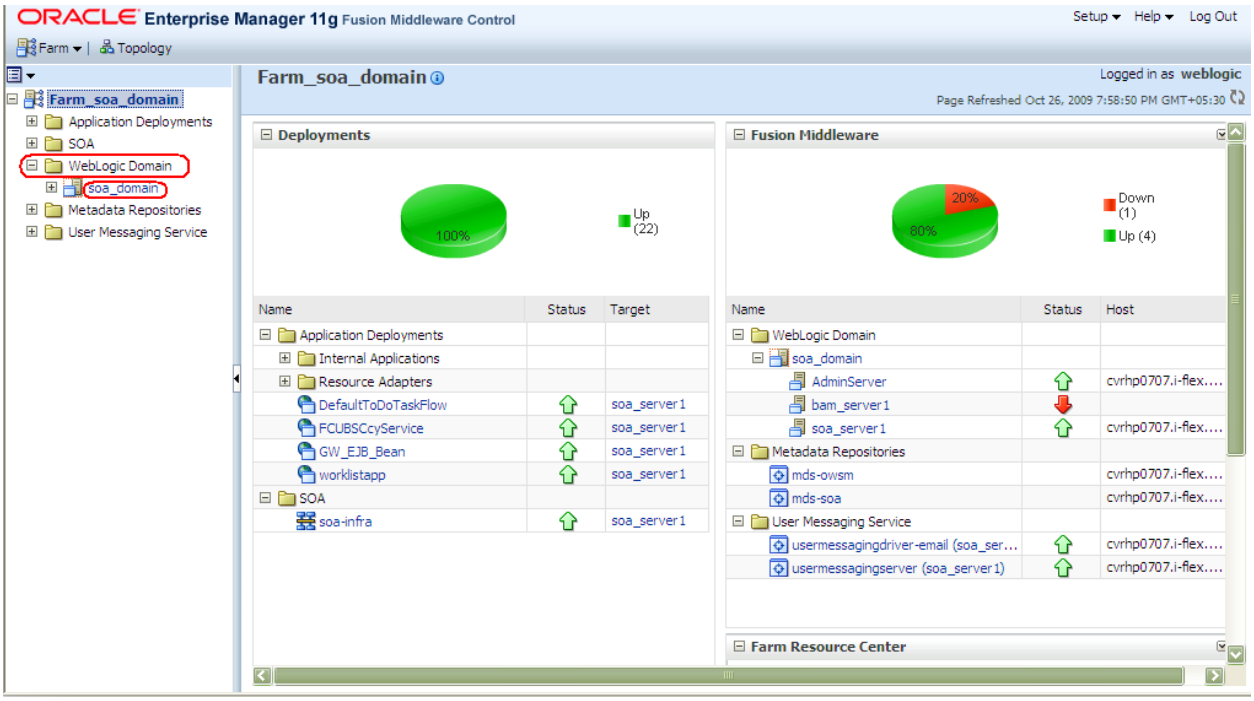
5. Testing Web Service with Policies

5.1 Testing Web Service through Enterprise Manager

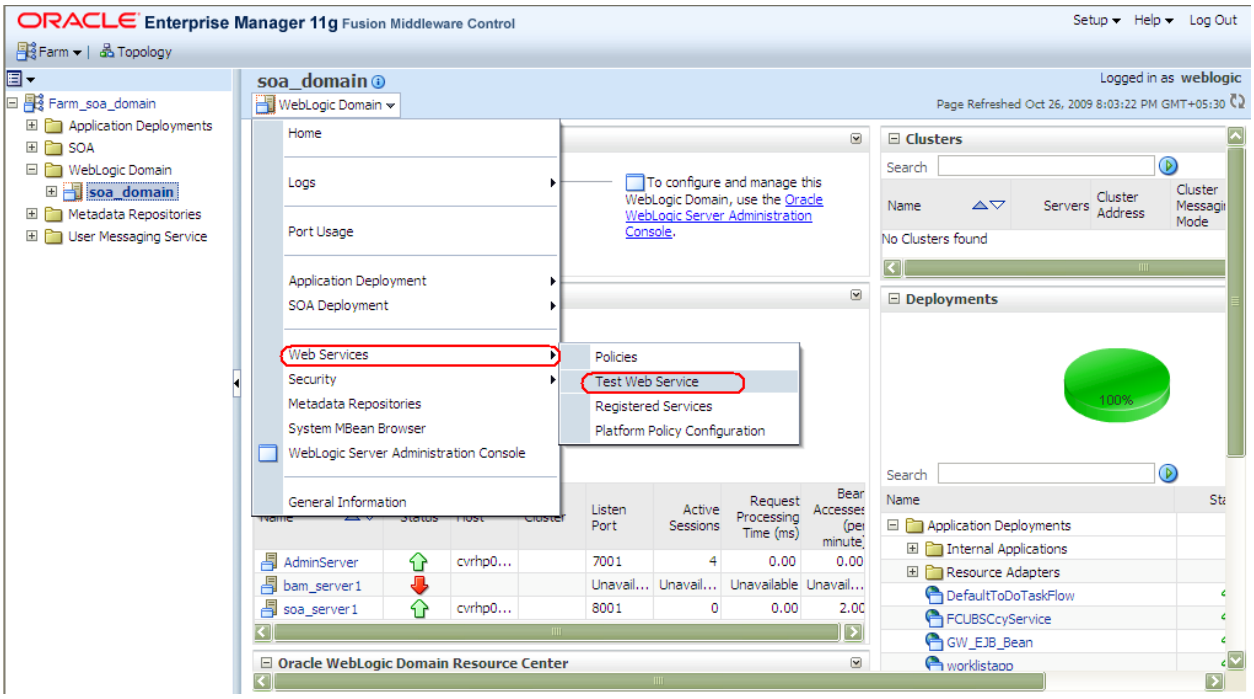
1. Once attaching the policies is finished, login to the enterprise manager (http://hostname:port/em)



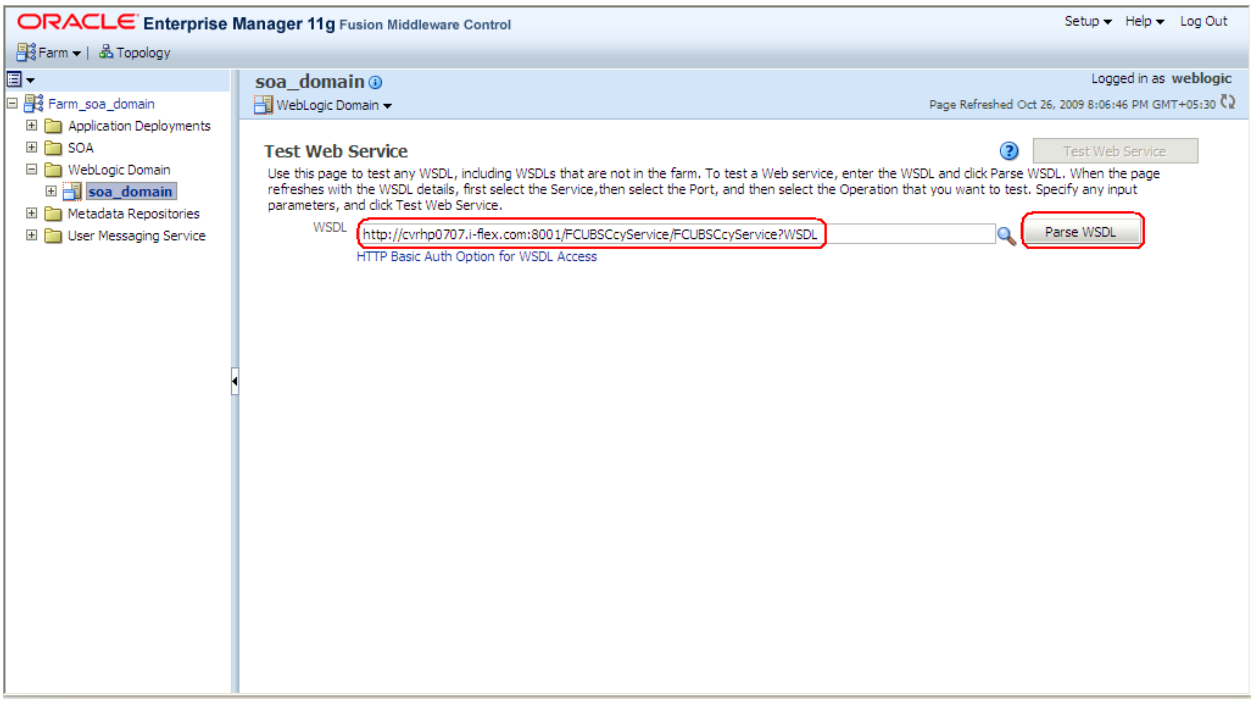
2. Expand the Weblogic Domain and Select the domain (created during SOA installation).



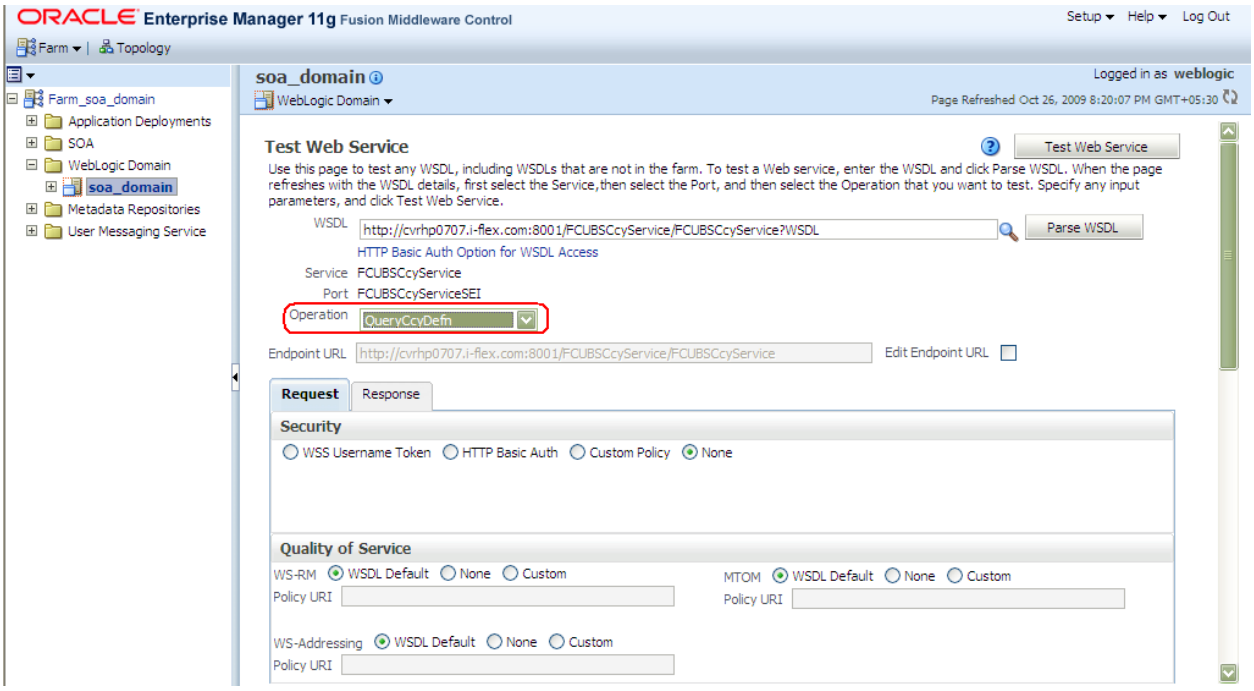
3. Select Test Web Service link from the fusion middleware control.



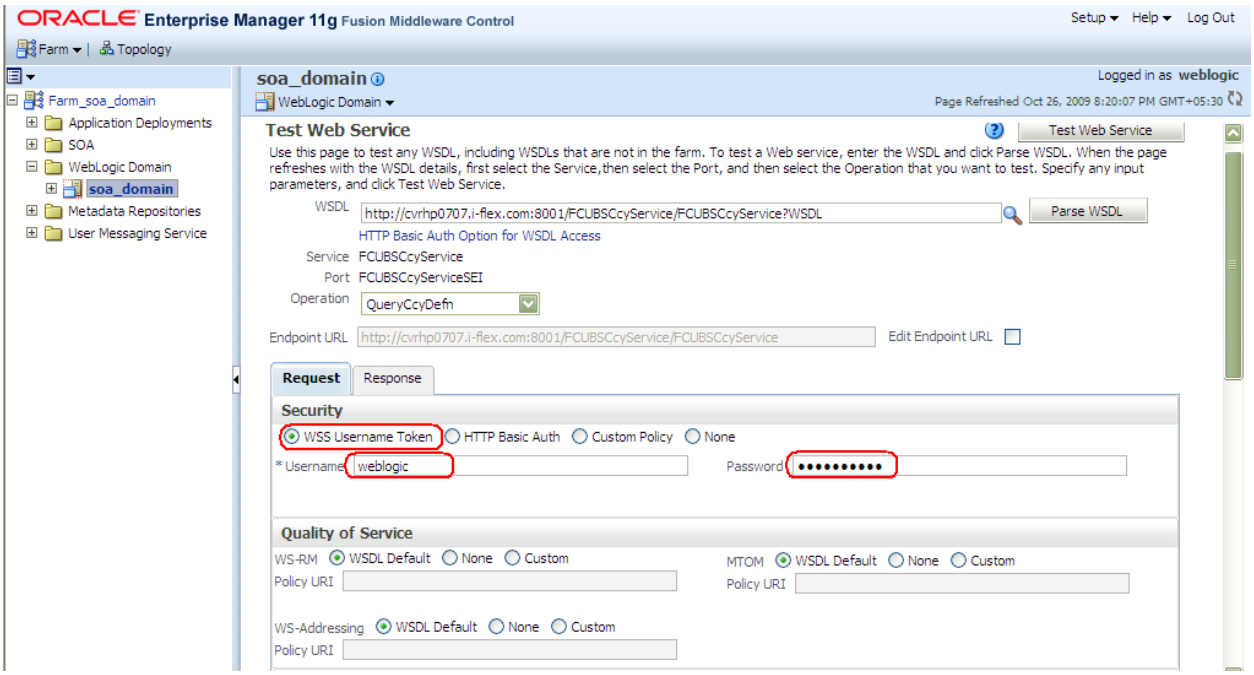
4. Enter the WSDL URL of the web service for which policy is applied and click on Parse WSDL.



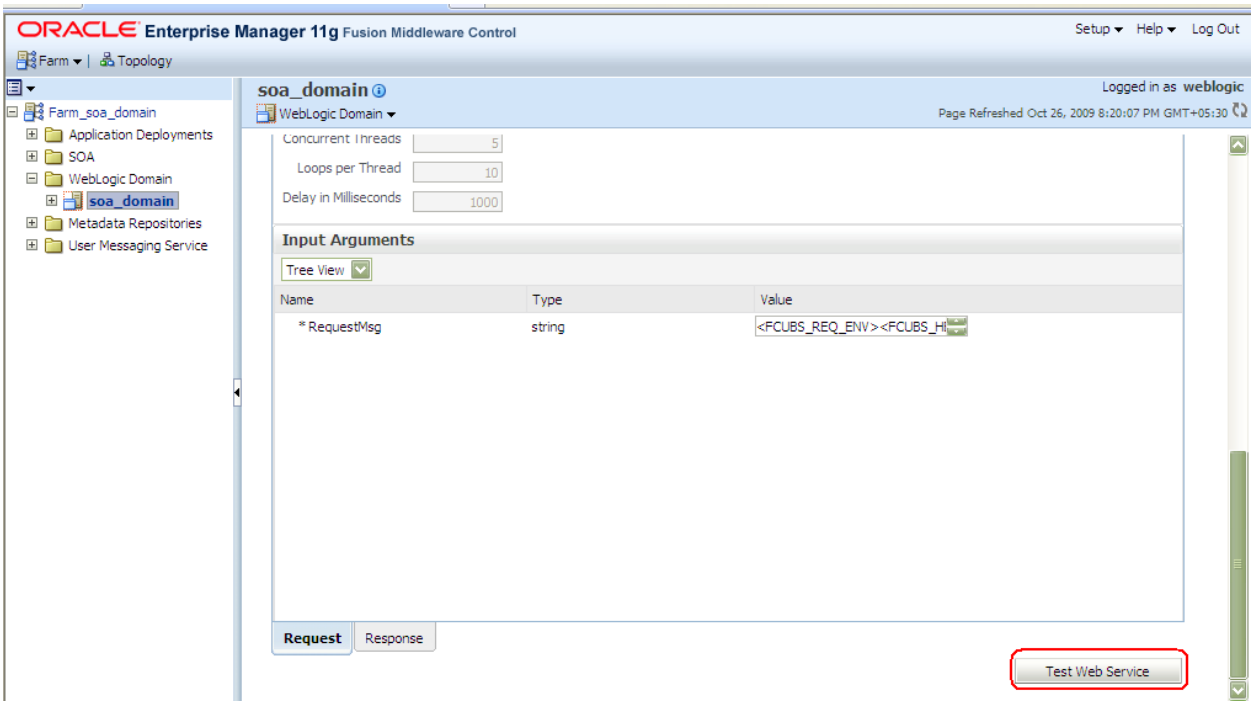
5. Select the operation for which you want to test the web service.



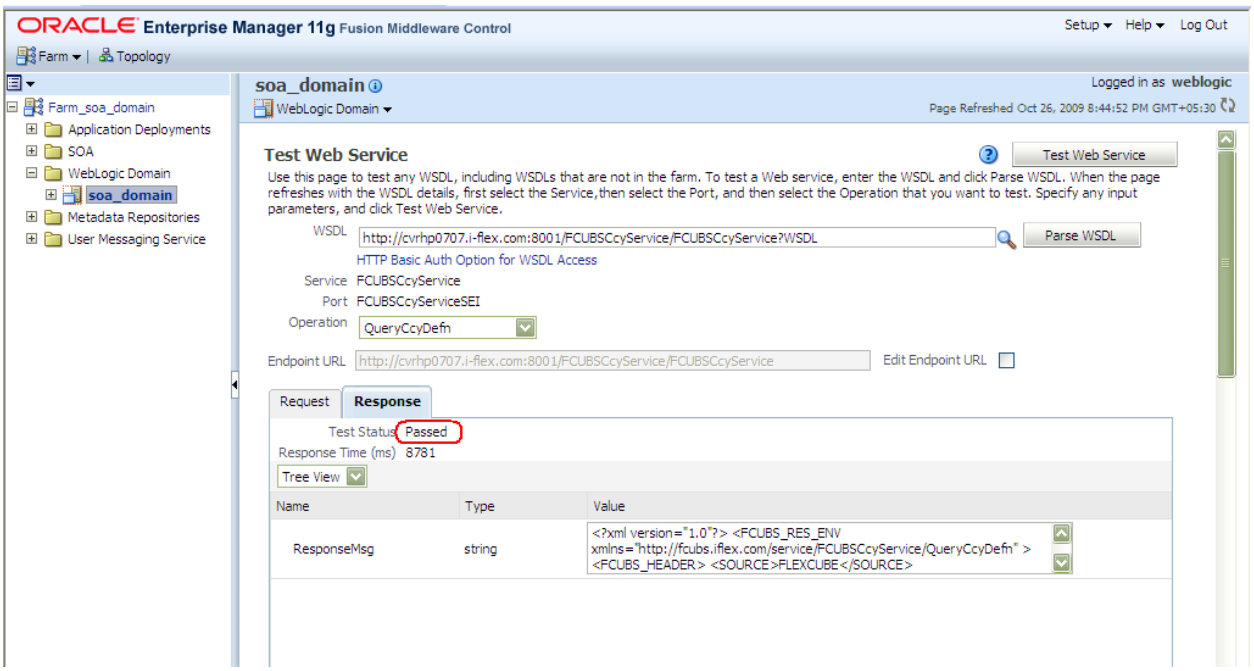
6. Select WSS Username Token and enter the Weblogic credentials.



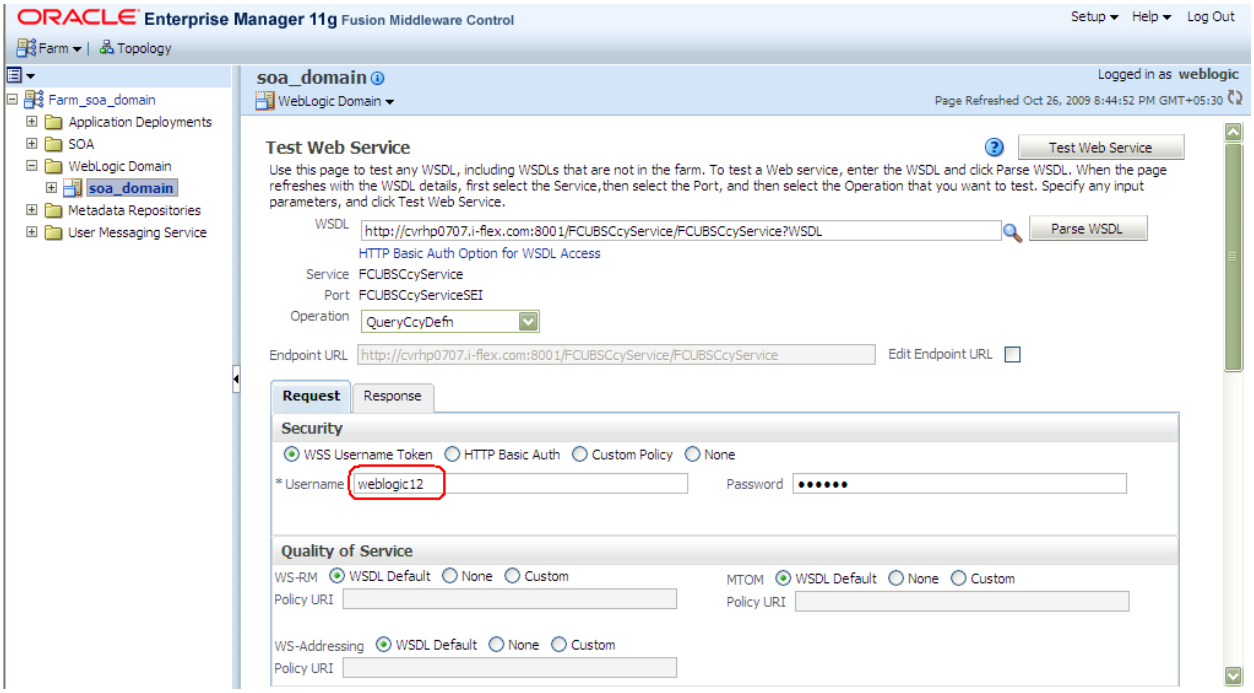
7. Enter the Request Message and Click on Test Web Service button.

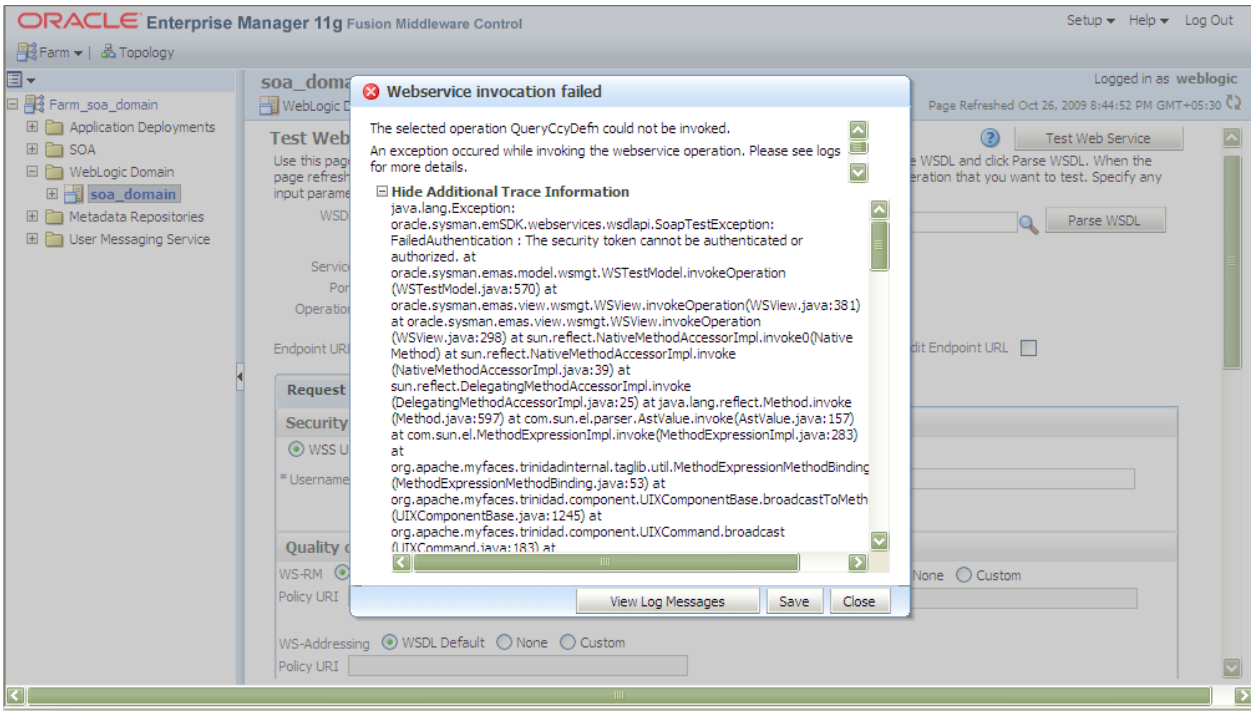


8. The Test Status Passed indicates the web service is properly authenticated by the policy.



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

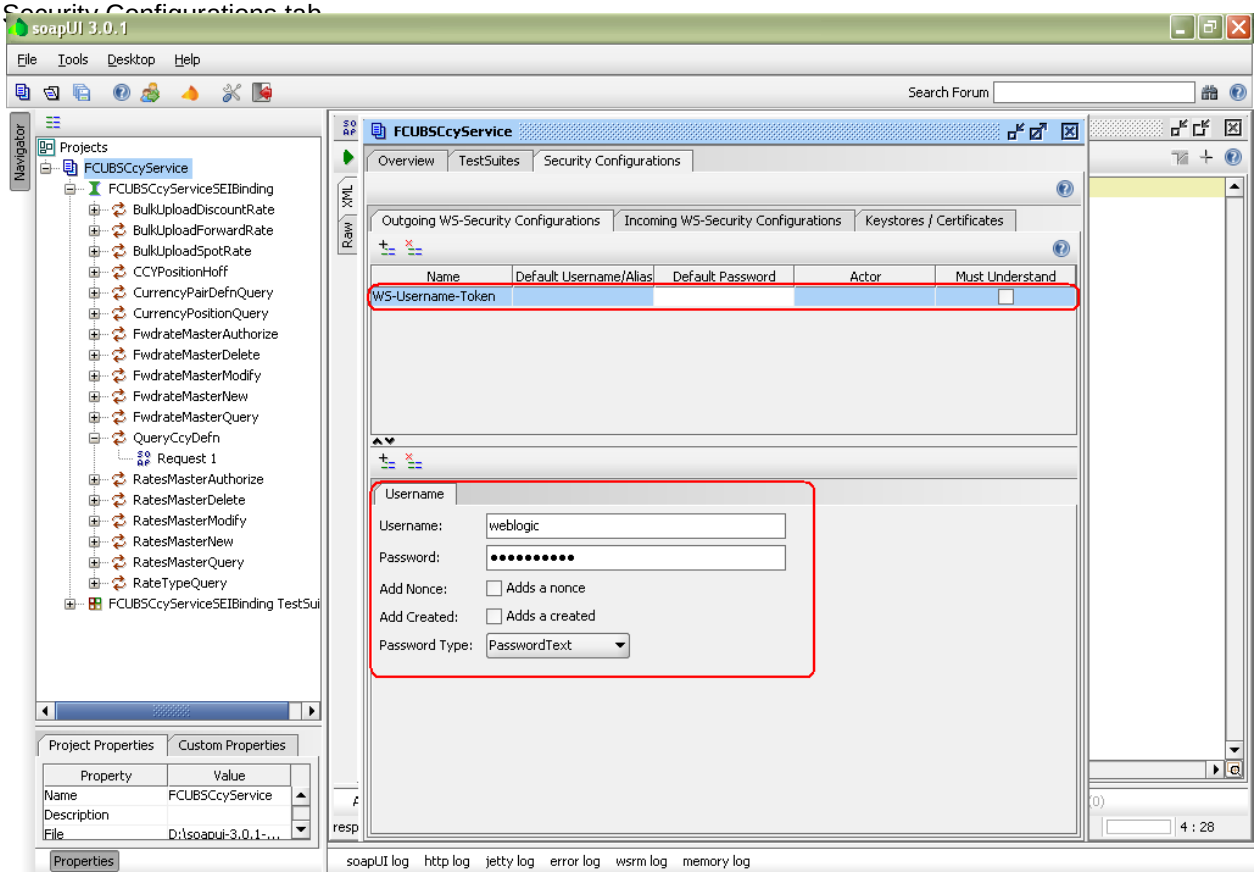




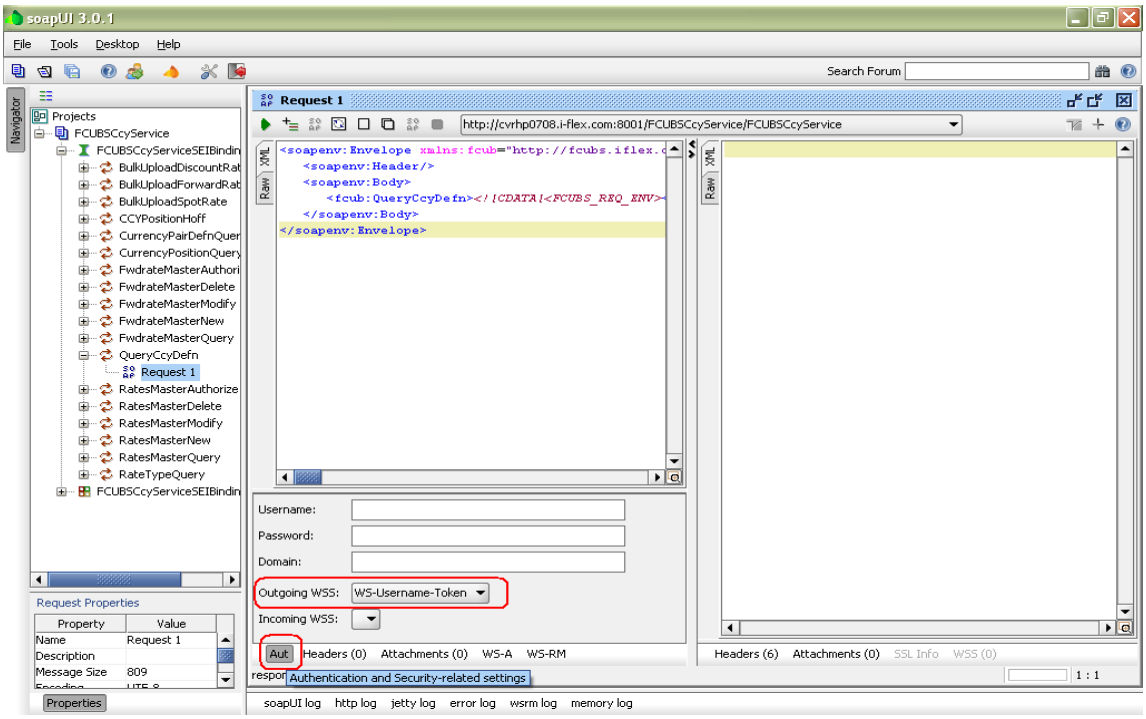
5.2 Testing of Web Service via SOAP UI (eviware soapUI3.0.1)

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

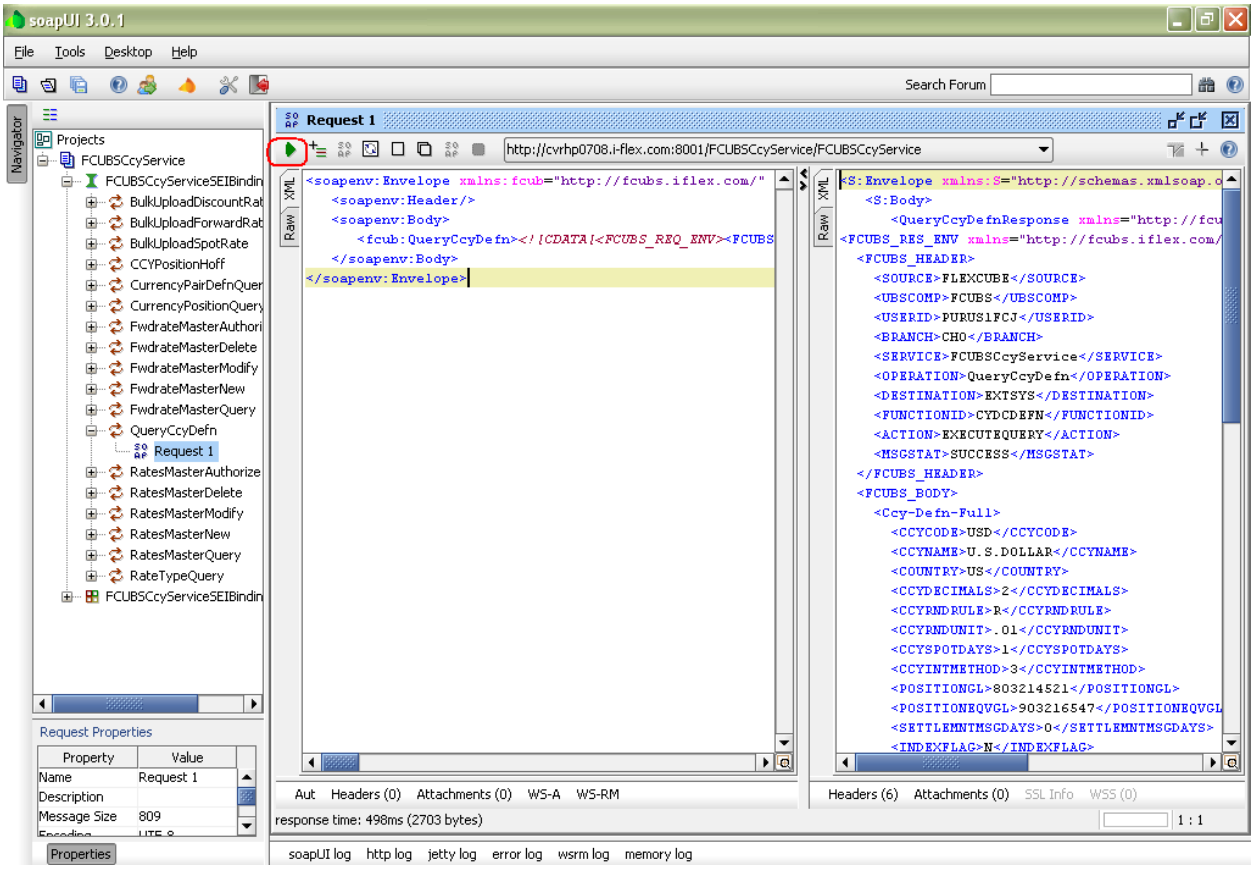
Configure the Outgoing WS- Security Configurations by double clicking the project and navigating to the Security Configurations tab



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



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



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