# Oracle WebLogic

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## **Overview**

This document outlines the integration of Oracle WebLogic with Swivel using SAML with Swivel as an Identity Provider (IdP). It assumes that the Identity Provider and SAMLSwivelDemo app are installed on the same Swivel appliance.

Swivel can provide Two Factor authentication with SMS, Token, Mobile Phone Client and strong Single Channel Authentication TURing, Pinpad or in the Taskbar.

To use the Single Channel Image such as the TURing Image, the Swivel server must be made accessible. The client requests the images from the Swivel server, and is usually configured using a NAT (Network Address Translation), often with a proxy server. The Swivel virtual appliance or hardware appliance is configured with a proxy port to allow an additional layer of protection.

# Prerequisites

Oracle WebLogic

Swivel 3.9 onwards

Swivel AuthenticationPortal.zip. The file containing the IdP and login page to authenticate using Swivel.

Swivel SAMLSwivelDemo.zip. A simple app which sits on the service provider server to demonstrate how a user needs to be authenticated.

# **Baseline**

Swivel 3.9, 3.10

Oracle WebLogic 12.1.1

# Architecture

Swivel is configured as an Identity Provider, see the following Oracle Documentation.

# Installation

To implement the solution there are several steps:

- Setup up the Identity Provider (IdP) (Authentication Portal)
- Generate the IdP metadata (which is used to create the relationship between the IdP and Service Provider).
- Setup the service provider (the federation service and its association with the Idp)
- Create a user within PINsafe and Weblogic Install the demonstration application
- Test the solution

## **Swivel Integration Configuration**

#### **Configuring Swivel for Agent XML Authentication**

The IdP is usually deployed on the Swivel hardware or virtual appliance, and a default localhost Agent is usually pre-configured. To make any changes to this see Agents How to Guide

#### **Configuring Swivel for Single Channel Images**

If Swivel Single Channel images are to be used for authentication, then the following guide can be used.

Single Channel How To Guide

#### **Configuring Swivel for Dual Channel Authentication**

If Swivel Dual Channel authentication methods are to be used, refer to the following guide:

**Transport Configuration** 

## **Configuring the Swivel Authentication Portal**

Download and extract the AuthenticationPortal.war file from the AuthenticationPortal.zip and copy this file using WinSCP to /usr/local/tomcat/webapps2 where a a folder called AuthenticationPortal should appear.

Within the AuthenticationPortal folder, there will be folder called WEB-INF, with the settings.xml file (/usr/local/tomcat/webapps2/WEB-INF/settings.xml). Right click settings.xml and either Edit the file or Open in another editor such as Notepad++.

```
<?xml version="1.0" encoding="UTF-8"?>
</DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
</properties>
</entry key="pinsafessl=>false</entry>
</entry key="pinsafessl=>localhost</entry>
</entry key="pinsafeserver">localhost</entry>
</entry key="pinsafeserver">secret</entry>
</entry key="magessl=>false</entry>
</entry key="imagesorver">secret</entry>
</entry key="selfsigned">tene</entry>
</entry key="selfsi
```

**pinsafessI** Communication between the IdP and Swivel. If SSL is used on the Swivel server set this to true, otherwise false. For a Swivel Hardware or Virtual appliance this should be changed to false when using port 8181 if Swivel is deployed in webapps2.

pinsafeserver Communication between the IdP and Swivel. Where the IdP is installed on the same server as Swivel this should be set to localhost.

pinsafecontext Communication between the IdP and Swivel. This is the install context and is usually pinsafe.

pinsafesecret Communication between the IdP and Swivel. By default a Swivel hardware or virtual appliance uses this value as the shared secret.

pinsafeport Communication port between the IdP and Swivel. For a Swivel Hardware or Virtual appliance this should be changed to 8181 if Swivel is deployed in webapps2 and uses a non SSL connection.

imagessI Communication between the IdP and User. If SSL is used on the Swivel server set this to true, otherwise false.

**imageserver** Communication between the IdP and User. If SSL is used on the Swivel server set this to true, otherwise false. By default a Swivel hardware or virtual appliance uses SSL.

imagecontext Communication between the IdP and User. This is the install context and is usually pinsafe.

imageport Communication between the IdP and User. For a Swivel Hardware or Virtual appliance this should be changed to 8443 although 443 or other port can also be used.

selfsigned Communication between the IdP and User. If SSL is used on the Swivel server with a self signed certificate then set this to true, otherwise false. By default a Swivel hardware or virtual appliance uses SSL with a self signed certificate.

serviceProviderEndpointURL the Published Site URL, defined in Setting up the Service Provider. Example:https://192.168.10.10/saml2

audience

certificatelssuer SAML\_SP

publicKeyFilePath path to the public key usually /keys/pinsafe/ssl/dsapubkey.der

privateKeyFilePath path to the private key usually /keys/pinsafe/ssl/dsaprivkey.der

certificateFilePath path to the certificate usually /keys/pinsafe/ssl/dsacert.pem

## Create private keys and certificates

Communication between Oracle and the Swivel instance is secure through the use of certificates.

#### **Creating DSA Private Key**

DSA key generation involves two steps, and can be done through the command line on a Swivel virtual appliance or hardware appliance:

1.

openssl dsaparam -out dsaparam.pem 2048

2.

openssl gendsa -out dsaprivkey.pem dsaparam.pem

The first step creates a DSA parameter file, dsaparam.pem, which in this case instructs OpenSSL to create a 2048-bit key in Step 2. The dsaparam.pem file is not itself a key, and can be discarded after the public and private keys are created. The second step actually creates the private key in the file dsaprivkey.pem which should be kept secret.

Export the key into a DER (binary) format. You can do so with the following steps:

1.

openssl dsa -in dsaprivkey.pem -outform DER -pubout -out dsapubkey.der

2.

openssl pkcs8 -topk8 -inform PEM -outform DER -in dsaprivkey.pem -out dsaprivkey.der -nocrypt

Step 1 extracts the public key into a DER format. Step 2 converts the private key into the pkcs8 and DER format. Once you've done this, you can use this public (dsapubkey.der) and private (dsaprivkey.der) key pair.

#### **Creating a Certificate**

Once you have your key pair, it's easy to create an X.509 certificate. The certificate holds the corresponding public key, along with some metadata relating to the organization that created the certificate. Follow this step to create a self-signed certificate from either an RSA or DSA private key:

openssl req -new -x509 -key dsaprivkey.pem -out dsacert.pem

After you answer a number of questions, the certificate will be created and saved as dsacert.pem.

The created keys, dsapubkey.der and dsapubkey.der need to be copied to the keys folder or wherever specified within settings.xml

The dsacert.pem certificate needs to be uploaded to the GoogleApps server.

#### Generating IdP metadata

SAML metadata is generated by the IdP to simplify the mapping process between itself and the Service Provider.

The AuthenticationPortal folder should be located under /usr/local/tomcat/webapps2. In order to gain access to the Authentication Portal webpage, you must navigate to https://<IPAddress>:8443/AuthenticationPortal/configuration.jsp. (case sensitive).

This will display the configuration page as shown below. From here you should press ?Generate ldp Metadata?.

Home - Google Docs	Swivel Contact List as 📋 CI Root 🦳 Sonar 👔
Authentication Portal	Configuration Page
Generate Idp Metadata	]
Generate Idp Metadata Generate Idp WS-Metad	,

If successful, he metadata will be written to the root of the web application with the message "Metadata successfully written to" and the full path and filename displayed. Make a note of the destination which will be used later when configuring the Service Provider.

#### WebLogic Integration Configuration

#### Configure a WebLogic User

On the WebLogic Administration console main menu select Security Realms, select myrealm then select Users and Groups and then the Users tab to show following main screen:

igur	ration	Users	and Groups	Roles and Policies	Credential Mappings	Providers	Migration
ers	Group	ps					
his pa	ige displ	lays info	rmation about	each user that has be	en configured in this sec	curity realm.	
sers New			le				
sers New		lete	le		1	Description	6
New	Del	lete					tion software system user.

Select New then input a username, this should match to the e-mail address of a Swivel user test user. Enter a dummy password as this will not be used by this integration, then press OK to save.

ingte a New User	
OK Cancel	
User Properties	
The following properties will be used to	to identify your new User.
Indicates required fields	
What would you like to name your new	r User?
* Name:	a.douglas@swivelsecu
How would you like to describe the new	v User?
Description:	My test user
Please choose a provider for the user.	
Provider:	DefaultAuthenticator 💌
The password is associated with the lo	gin name for the new User.
* Password:	•••••

#### Setting up the Service Provider

On the WebLogic Administration console main menu select Environment, Servers then select AdminServer(admin). Then select Configuration, Federation Services and SAML 2.0 General to get the following screen:

Configuration	Protocols	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes			
General Clust	r Service	s Keysta	ves SS	E Federat	ion Service	Deployment	t Migratio	n Tuning	Overload	He	salth Monitoring	Server St
SAML 1.1 Source	Site SAM	4L 1.1 Desti	nation Sit	sAML 2.	0 General	SAML 2.0 Iden	tity Provider	SAML 2.	0 Service Pro	ovider		
Save Publis	Meta Data	1										
This page config	ures the gen	eral SAML	2.0 per se	rver propertie	s							
General												
🖉 👘 Replicat	ed Cache E	nabled										
- Site Info												
Contact Person	Given Nan	ne:				Andy						
Contact Person	Surname:					Douglas						
Contact Person	Type:					technical						
Contact Person	Company:											
Contact Person	Telephone	e Number:										
Contact Persor	Email Add	ress:										
Organization N	ame:					Swivel						
Organization U	RL:											
Published Site	JRL:					http://192.16	8.0.42:700	1/saml2				
intity ID:						SAML_SP		1				

Published Site URL should be your WebLogic URL + /saml2 and the Entity ID should be SAML\_SP to match up other aspects of the configuration. Ensure that under the Bindings option, Recipient Check Enabled is not checked and is therefore disabled. Enter other details as appropriate then press Save.

Then, from the same screen, select SAML 2.0 Service Provider to get the following screen:

onfigura	ation	Protocols	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes		
General	Cluste	r Servic	es Keyst	ores St	E Federat	ion Servic	es Deployment	Migratio	n Tuning	Overload	Health Monitoring	Ser
SAML 1.1	Source	Site SA	ML 1.1 Dest	nation Sit	e SAML 2.0	General	SAML 2.0 Identity	Provider	SAML 2.0	Service Pro	vider	
Save												
This page	t config	ires the SA	ML 2.0 per	server ser	vice provider p	roperties						
🗹 Enabl	ed											
Alway	rs Sign	Authenti	cation Req	uests								
Force	Authe	ntication										
🗌 Passi	ve											
Only /	Accept	Signed A	ssertions									
Authenti	cation	Request	Cache Size	•		1000	0					
Authenti	cation	Request	Cache Tim	eout		300						
POST	One Us	e Check I	inabled									
POST	Binding	Enabled										
🗸 Artifa	ct Bind	ling Enabl	ed									
Preferre	d Bindir	ng:				POS	T					
Default U	IRL:					http:/	/192.168.0.42:7	001/SAML	SwiveIDe	emo		
Save												

Ensure the checkboxes are set as above and for the Default URL enter the path to the SAMLSwivelDemo. Press Save. Making sure that the Published Site URL is your WebLogic URL and by adding /saml2. E.g. http://192.168.10.10/saml2 - This is your serviceProviderEndpointURL.

Going back to the section Setting up the IdP, you can go back to the settings.xml and add for example:

<entry key="serviceProviderEndpointURL">https://192.168.10.10/saml2</entry>

#### ?

#### Specifying the IdP

On the WebLogic Administration console main menu select Security Realms, select myrealm then select Providers and Authentication to show following main screen:

Settings for myrealm		
Configuration Users and Groups Rales and Policies Credential Mapping	s Providers Higration	
Authentication Password Valdeton Authorization Adjudcation	ale Mapping Auditrig Credential Mapping Certification Path Keystores	
An Adventuation provide allows WebLogs Server to establish trust by valid despred to access different data stores, such as LDAP servers or DBPG. To Constantize this table Authentication Providers Inter, Diriter, Providers	strog a user. You must have one Authentication provider in a security reality, and you o can also configure a Stelle Adapter Authentication provider that allows you to work w	an configure multiple Authentocation providers in a securito realis. Different types of Authentocation providers are it in users and groups from previous releases of WebLogic Server. Showing 1 to 2 of 2 Previous   Next
C Name	Description	Version
CefeultAuthenticator	WebLogic Authentication Provider	10
C DefaultidentityAsserter	Webk.ogic Identity Assertion provider	10
New Done Reader		Showing 1 to 2 of 2 Previous (Next

Select New to create a SAML2IdentityAsserter and name it SAML2IdentityAsserter as shown here:

Home +Providers +Servel +S	ummary of Security Radina Hinymain Huters and Groups Haalin Roles - Credential Happings - Previdence
Create a New Authenticat	ion Provider
OK Cancel	
Create a new Authentic	aation Provider
	I be used to identify your new Authentication Provider.
* Indicates required fields	
The name of the authentical	ter previder.
* Name:	SAML2IdentityAsserted
This is the type of authentics	ston provider you with to create.
Турн:	SAMI,2identityAsserter
OK Cancel	

#### Pressing OK will take you to the following screen.

onfiguration Users and Groups Role	s and Policies Credential Mapping	p Providers Noval	lon						
Authentication Password Inidatory	Authorization Adjudication R	tole Megoing Auditing	Ordental Mapping Certificat	Ion Path Keystores					
An Authentication provider allows titlets of designed to access different data stores,	such as UDIP servers or DBHS. You	i can also configure a Real	n Adapter Authentication provider	that allows you to work with	th users and groups	from previous relea	ees of WebLogic Serv	w.	
Customize this table Authentication Providers									
Authentication Providers	1.000								Deving 1 to 3 of 3 Previous
Authentication Providers	Description							1	Version
Authentication Previdens           New.         Dollar         [_Reader.]           D         Name	WebLogic Auther	ntication Provider						1	Version 1.0
Authentication Providers	WebLogic Auther	ntication Provider by Assertion provider						1	Version

At this point you need to activate the changes. One way you can do this is from the main menu select Environment, select Servers then select AdminServer(admin). Then select Control. Select the checkbox next to AdminServer(admin) and Shutdown. Then restart the server and logon to the admin console.

Return to the same screen and select the SAML2IdentityAsserter.

Configuration	Users and Groups	Roles and Policies	Credential Mappings	Providers	Migration		
Authenticati	Password Valid	lation Authorization	Adjudication Ro	e Mapping	uditing C	redential Mapping	Certification Path
designed to a Customize (	ccess different data this table ion Providers	WebLogic Server to est stores, such as LDAP si					
			Description				
Name				and the Real States			
	Authenticator		WebLogic Authenti	cation Provider			
Default/	Authenticator dentityAsserter		WebLogic Authenti WebLogic Identity				
Default/			WebLogic Identity	Assertion provi	der	ts Security Assertion	n Markup Language

Then select Management to get the screen below:

2	and the second second	Summary of Servers >Sum	nary of Security Realms >myrealm >Summary of Security Realms >myrealm >Providers >SAMLIIdentityAsserter >Providers >SAMLIIdentityAsserter
Settings for SA	ML2IdentityAss	erter	
Configuration	Hanagement	Migration	
🖟 Customize t		te, and view SAML 2.0 ider	töty provider partners för this SAML 2.0 Identity Asserter.
New ~	Delete		
			There are no items to display
New ~	Delete		

Select New and New Web Single Sign-On Identity Provider Partner as shown below:

Settings for SA	ML2IdentityAss	rter3	
Configuration	Management	Migration	
🖗 Customize I		and view SAML 2.0 identity provider partne	rs for this SAML 2.0 Identity Asserter.
New ~	Delete		
New Web Si	gle Sign-On Identi	Provider Partner	
New WebSe	rvice Identity Provi	r Partner	There are no items to display
New -	Delete		

Select New then locate and select the IdP metadata as shown below. Press OK to save

Create a SAML 2.0 Web Single Sign-or	n Identity Provider Partner
OK Cancel	
Partner Properties	
Use this page to:	
Enter the name of your new Sin	igle Sign-on Identity Provider partner
<ul> <li>Specify the name and location of</li> </ul>	of the SAML 2.0 metadata file that you received from this new partner
* Indicates required fields	
Please specify the name of the partner.	
* Name:	WebSSO-IdP-Partner-0
Please specify the name of the file contain	ning the partner metadata document.
Path:	C:\Apache Tomcat 7.0.14\webapps\manager\generatedIdPMetadata.xml
Recently Used Paths:	C:\Oracle\Middleware\user_projects\domains\base_domain
	C:\Users\adouglas\workspace3.9.2\\$AMLOracle
	C:\
Current Location:	192.168.0.42 \C: \Users \adouglas \workspace3.9.2 \SAMLOrade
.externalToolBuilders	
.settings	
.svn	
build src	
WebContent	
Duild.xml	
C 🛛 example.xml	
generatedIdPMetadata.xr	nl
OK Cancel	

Thus will take you to the following screen:

Settings for SA	ML2IdentityAss	erter	er
Configuration	Management	Migration	gratio
Customize t	you can add, delet this table vider Partners	e, and view SAML (	nd vie
New ~			
Name 4	~		
WebSSO	-IdP-Partner-0		
New ~	Delete		
0			

? Select WebSSO-IdP-Partner-0 which will take you to the following screen:

_			(a) (i) (a) (a) (a)		
General	Site Info	Single Sign-On Signing Certificate	Transport Layer Client Certificate	Single Sign-On Service Endpoints	Artifact Resolution Service Endpoint
Save					
39.29		0 Web Single Sign-on Identity Provide			
- Overvie		can be set on this Administration Con	sole page can also be accessed progr	rammatically via the Java interfaces i	that are identified in this help topic. Fo
Name:			WebSSO-IdP-Partner-0		
name.			Websour Partier o		
Enable	ed				
Description:					
- Authen	tication Re	equests			
Identity	Provider Na	ame Mapper Class Name:			
Issuer URI:			SAML_SP		
Virtua	l User				
Redirect	URIs:				
/SAMLS	wivelDe	<u>mo</u> /*			

Ensure Enabled and Virtual User are checked and that Redirect URIs is set to /SAMLSwivelDemo/\*. Press Save to save your settings.

#### **Credential Mapping Provider**

On the WebLogic Administration console main menu select Security Realms, myrealm then select Providers and Authentication to show following main screen:

ettings for myrealm Configuration Users		Roles and Policies	Credential Ma							
Configuration Users	and Groups F	Roles and Policies	Credential Ma			and the second se				
			Credendarria	ppings	Providers		gration			
Authentication Pass	word Validation	Authorization	Adjudication	Role M	lapping	Auditing	Cred	ential Mapping	Certification Path	Keystores
A Credential Mapping Credential Mapping pr Customize this tab Credential Mapping	oviders in a secu		o log into a remo	ne syste	m on ben	ait of a su	oject tha	r nas aready been	aumenocated, rou	must have one
🕐 Name					D	escriptio	'n			
DefaultCredentia			WebLogic Credential Mapping Provider							

Select New and then enter a name of SAML2CredentialsMapper and select type of SAML2CredentialsMapper as below (then Press OK to save):

čreate a New Credenti	Il Mapping Provider			
OK Cancel				
Create a new Crede	ntial Mapping Provider			
The following propertie * Indicates required field	will be used to identify your new Credential Mapping Provider.			
The name of the Creden	ial Mapping Provider.			
* Name:	SAML2CredentialsMap;			
This is the type of crede	itial mapping provider you wish to create.			
Туре:	SAML2CredentialMapper			
OK Cancel				

Select SAML2CredentialsMapper then configuration and Provider Specific. For the Issuer URI enter SAML\_SP as shown below (then press Save):

onfiguration	Management	Migration	
Common Pr	rovider Specific		
Save			
Use this page	to configure provi	der-specific information for this SAM	IL 2.0 Credential Mapping provider.
ssuer URI:		SAML_SP	
lame Qualifi	er:		
efault Time	To Live:		120
efault Time	To Live Offset:		-5
Veb Service	Assertion Signir	g Key Alias:	
Veb Service	Assertion Signir	g Key Pass Phrase:	[
lease type	again To confirm	£	
Name Mapper Class Name:			
Generate	Attributes		
Save			

## Setting up the demo application

On the WebLogic Administration console main menu select Deployments to get the main screen looking as such:

Summary	of Deployments			
Control	Monitoring			
first sele To instal	cting the application name a a new application or modul size this table	applications and stand-alone applic and using the controls on this page le for deployment to targets in this		ed to this domain. Installed applications a
Install	Update Delete	Start ~ Stop ~		
💽 Na	me 🏟	State	Health	Туре
				There are no items to display
Install	Update Delete	Start ~ Stop ~		

#### Select Install then locate the WAR file for the SAMLSwivelDemo as such:

Install Application Assistant	
Back Next Finish C	ancel
Locate deployment to instal	and prepare for deployment
Select the file path that represen field.	ts the application root directory, archive file, exploded archive directory, or application module descriptor that you w
	played below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application cont
Path:	C:\Users\adouglas\workspace3.9.2\SAMLSwivelDemo\build\SAMLSwivelDemo.war
Recently Used Paths:	C: \Users\adouglas\workspace3.9.2\SAMLSwivelDemo\build
	C:\Users\adouglas\workspace3.9.2\SAMLDemo\build
	C:\Users\adouglas\workspace3.9.2\SimpleDemo\build
Current Location:	192.168.0.42 \C: \Users \adouglas \workspace3.9.2 \SAMLSwivelDemo \build
SAMLSwivelDemo.ja	r
SAMLSwivelDemo.w	ar
Back Next Finish C	ancel

? Click Next, Next then Finish (using all the default options) to result in the following Screen:

Messages	
All cha	anges have been activated. No restarts are necessary.
I The d	leployment has been successfully installed.
Summary	of Deployments
Control	Monitoring
first sele To instal	e displays a list of Java EE applications and stand-alone application modules that have been installed to this domain acting the application name and using the controls on this page. Il a new application or module for deployment to targets in this domain, click the Install button. Inize this table ments
Install	Update Delete Start v Stop v
Na	ame 谷
•	SAMLSwivelDemo
Install	Update Delete Start v Stop v

The Demo should now be accessible.

# **Additional Installation Options**

# Verifying the Installation

Open a web browser and enter the URL for the root of the demo. In this case: http://weblogicserverURL:7001/SAMLSwivelDemo

This will direct the user to the identity provider?s login page as such:

★ → C □ 192.168.	0.42:8080/authenticationportal/identity_provider.jsp
	Username:
	Password:
	OTC:
	Login Refresh Image

If successful you will be authenticated and redirected to the SAMLDemo page as such:



# **Uninstalling the Swivel Integration**

## Troubleshooting

Check the Swivel logs

## Enabling WebLogic debugging

To enable SAML logging On the WebLogic Administration console main menu select AdminServer->Configuration->Debug->Weblogic->Security->SAML2 and enable.

Now you can go to Diagnostics ->Log files ->ServerLog to view what is happening.

## **Error Messages**

javax.security.auth.loginLoginException: [Security:090377]Identity Assertion Failed, weblogic.security.spi.ldentityAssertionException: [Security:090377]Identity Assertion Failed, weblogic.security.spi.ldentityAssertionException: [Security:096537]Assertion is not yet valid (NotBefore condition). at com.bea.common.security.internal.service.ldentityAssertionServiceImpl.assertIdentity(IdentityAssertionServiceImpl.java:89)

This has been seen where the time on the Swivel server is ahead of the WebLogics server. Ensure they both have the same time.

<BEA-000000> <[Security:096552]Illegal destination: https://<server\_name>:<port>/saml2/sp/acs/post of assertion response.>

This is due to the Recipient destination value not matching the local (SP) assertion consumer URL. On the Weblogic Console => Environment => Servers => AdminServer => Configuration => Federation Services => SAM 2.0 General => disable ?Recipient Check Enabled? checkbox.

# **Known Issues and Limitations**

# **Additional Information**

For assistance in the Swivel installation and configuration please firstly contact your reseller and then email Swivel Secure support at support@swivelsecure.com.