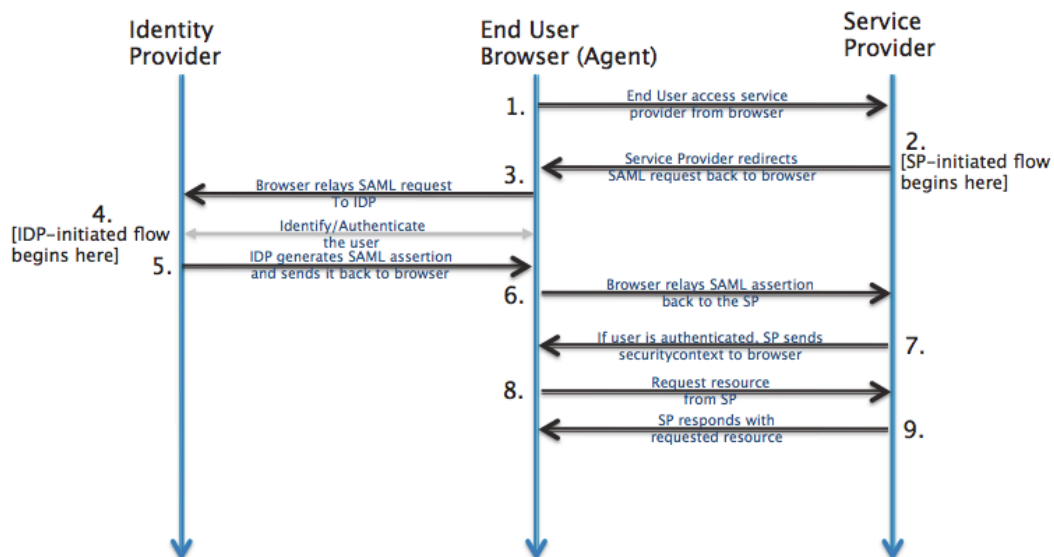


Activating SAML sample in BA-server

Note: Activating SAML sample explains how to enable the SAML logic, **regardless** of which IdP we choose to use as a means to perform user authentication

SAML: Overview

¹ SAML is mostly used as a web-based authentication mechanism as it relies on the browser being used as an agent that brokers the authentication flow. At high-level, the authentication flow of SAML looks like this:



Identity Provider	SSOCircle.com , OKTA , ...	The 3 rd -party entity that takes care of the user's authentication; There are multiple such entities with SAML protocol support, such as OpenSSO , SSOCircle.com , OneLogin.com , Salesforce.com , ...
End-user browser agent	Pentaho User	User that accesses BA-server via browser
Service Provider	BA-server	Pentaho BA Server

¹ http://developer.okta.com/docs/guides/saml_guidance.html

Pre-requisites for SAML authentication provider sample

1. Complete **one of** the following documentations:
 - a. "Registering in SSOCircle IdP"
 - b. "Registering in OKTA-developer IdP"
 - c. "Registering in PingIdentity IdP"
 - d. "Registering in Salesforce-developer IdP"
 - e. "Registering in MS ADFS 3.0 IdP"

2. Have the following 3 items of information:
 - a. The URL for the chosen 3rd party identification provider (IdP)
 - b. The absolute path to the chosen's IdP metadata xml file
 - c. The absolute path to Pentaho SP metadata xml file
 - i. Next to this document, you should have a "resources" folder. Inside it you will find a standard Pentaho SP metadata xml for download.

3. Pentaho-SAML OSGI .kar file
 - a. `git clone https://github.com/pentaho/pentaho-engineering-samples`
 - b. Navigate to /Samples for Extending Pentaho/Reference Implementations/Security/SAML 2.0/
 - c. Maven build the .kar file (`"maven package"`)
 - d. OSGI .kar file built and created in (...)/SAML 2.0/pentaho-saml-assembly/target

Preparing BA-server for SAML authentication provider sample

Note 1: Use BA-Server EE 6.0.0-GA build

Note 2: This section includes preparation tasks, i.e. tasks that only need doing once

1. Edit pentaho-solutions/system/karaf/etc/custom.properties:
 - a. find `"org.springframework.security.context, \"` and replace it with `"org.springframework.security.context; version=\"2.0.8.RELEASE", \"`
 - b. below the line above add a new one:
`"org.springframework.security.ui; version=\"2.0.8.RELEASE", \"`

please ensure that both lines end with the `", \"` (comma, whitespace, backward slash), as stated above.

2. Start BA-server
3. Next to this document, you should have a "resources" folder with 3 files:
 - a. pentaho-sp.xml
 - b. applicationContext-spring-security-saml.xml
 - c. logout.jsp
4. Place the built pentaho-saml.kar file into pentaho-solutions/system/karaf/deploy
 - a. check log files to see if all went well; you should see a line stating:
`Creating configuration from pentaho.saml.cfg`
 - b. look into pentaho-solutions/system/karaf/etc
 - i. you will notice a `pentaho.saml.cfg` file was created
5. Stop BA-server.
6. Place `applicationContext-spring-security-saml.xml` in `pentaho-solutions/system`
7. Place `logout.jsp` in `tomcat/webapps/pentaho`
8. Edit `pentaho.saml.cfg` and update the following 3 keys with the values mentioned in the "Pre-requisites for the SAML authentication provider sample" section:
 - a. `saml.idp.url`: The URL for the chosen 3rd party identification provider (IdP)
 - b. `saml.idp.metadata.filesystem`: The absolute path to the chosen's IdP metadata xml file
 - c. `saml.sp.metadata.filesystem`: The absolute path to Pentaho SP metadata xml file

Example:

```
saml.idp.url=http://idp.ssocircle.com
```

```
saml.idp.metadata.filesystem=/users/pteixeira/saml/idp/ssocircle-idp-metadata.xml
```

```
saml.sp.metadata.filesystem=/users/pteixeira/saml/sp/pentaho-sp-metadata.xml
```

9. Save and close the file.

10. Done.

Activating BA-server's SAML authentication sample

1. Stop BA-server.
2. Edit pentaho-solutions/system/pentaho-spring-beans.xml
3. If not there yet, place line

```
<import resource="applicationContext-spring-security-saml.xml" />
```

after all other applicationContext-*.xml lines and before the pentahoObjects.spring.xml one. Example:

```
(...)  
<import resource="applicationContext-spring-security-jdbc.xml" />  
<import resource="applicationContext-spring-security-saml.xml" />  
<import resource="pentahoObjects.spring.xml" />  
(...)
```

4. Save and close the file.
5. Edit pentaho-solutions/system/security.properties and change the provider value to "saml".
 - a. Example: from "provider= jackrabbit" to "provider=saml"
6. Save and close the file.
7. Done.

De-activating BA-server's SAML authentication sample

1. Stop BA-server
2. Edit pentaho-solutions/system/pentaho-spring-beans.xml
3. Delete/Comment line

```
<import resource="applicationContext-spring-security-saml.xml" />
```

4. Save and close the file.
5. Edit pentaho-solutions/system/security.properties and change the provider value to something other than "saml".
 - a. Example: from "provider=saml" to "provider=jackrabbit"
6. Save and close the file.
7. Done.

Q&A

Q1 | Can we add internationalization support to the logout page ?

Yes. Please do the following steps:

1. Open tomcat/webapps/Pentaho/logout.jsp with an editor of your choice
2. Locate the div with class "logout-msg-wrapper"
 - a. Its content should be something like "You have logged out of the User Console."
 - b. Replace that with:

```
<%=Messages.getInstance().getString("UI.PUC.LOGOUT.HEADER") %>
```
3. Locate the button with class "back-to-login-btn"
 - a. Its content should be something like "Return to the Login Page"
 - b. Replace that with:

```
<%=Messages.getInstance().getString("UI.PUC.LOGOUT.BUTTON") %>
```
4. Save and close the file.
5. Using a tool such as Winrar, Winzip, 7-zip, etc., open (do not extract) /tomcat/webapps/WEB-INF/lib/ pentaho-platform-extensions-6.0-SNAPSHOT.jar
6. Inside it, navigate to /org/pentaho/platform/web/jsp/messages/
7. Edit messages.properties and add the following 2 lines:

```
UI.PUC.LOGOUT.HEADER=You have logged out of the User Console.  
UI.PUC.LOGOUT.BUTTON=Return to the Login Page
```

8. Redo step 7, this time for any of the other messages_<country>.properties that exist at that location
 - a. Add the same keys, but a properly localized message
9. Save and close the files. Save and close the jar
 - a. At this point the extraction tool you're using may ask you if you would like to update the jar file. Reply "yes".
10. Restart the server.