

Generating a Data Store Using a HTTPS Call

The following example demonstrates how an authenticated user is able to log onto the Repertoire Server from the application through the REST API to generate a data store using a specific datasource.

The full set of code can be downloaded [here](#).

The parameters required to be parsed in are:

1. The url of the composite data source on the server, e.g.
"https://localhost:8443/data/Elixir/ER_Exercises/Application-Integration/samples/datasources/FruitSales.ds"
2. The output path and filename for the data store
3. User name and password

Within the Java class environment, import the following Java references:

```
import java.io.BufferedInputStream;  
import java.io.FileOutputStream;  
import java.io.InputStream;
```

To talk to the server using the REST API, add the following .jar files from the "/lib" directory of the Repertoire Server installation:

```
commons-codec-1.3.jar  
commons-httpclient-3.0.1.jar  
commons-logging.jar
```

and import them into the class file:

```
import org.apache.commons.httpclient.Credentials;  
import org.apache.commons.httpclient.HttpClient;  
import org.apache.commons.httpclient.UsernamePasswordCredentials;  
import org.apache.commons.httpclient.auth.AuthScope;  
import org.apache.commons.httpclient.methods.PostMethod;  
import org.apache.commons.httpclient.params.HttpClientParams;
```

The following are explanations and walkthroughs of the code. The full Java class can be downloaded [here](#).

```
HttpClient client = new HttpClient();
Credentials defaultCreds = new UsernamePasswordCredentials(username,password);
client.getState().setCredentials(new AuthScope("localhost",8443,AuthScope.ANY_REALM),
defaultCreds);
HttpClientParams params = client.getParams();
params.setCredentialCharset(CredentialCharset);
params.setAuthenticationPreemptive(true);

//Instantiate a new POST method and parse
//in the parameters for the rendering of a
//data store via a composite data source
PostMethod method = new PostMethod( url );
method.addParameter("datastore", "DataStore");
method.addParameter("URL", filename);

// Execute the POST method
int statusCode = client.executeMethod( method );
if( statusCode != -1 ) {
    System.out.println( "statusCode: " + statusCode );
    method.releaseConnection();
    System.out.println( "\nDone" );
}
}
catch( Exception e ) {
    e.printStackTrace();
}
}
```