

A.A.A.R. Manual Installation

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Overview

This guide has been created to give an alternative way to install A.A.A.R application in all the cases the standard wizard could not works. Below an example of cases where could be useful to do a manual installation:

- 1. When you have a distributed environment (Eg. when DBMS is on a machine other than the pentaho BI Server machine)
- 2. When you want to understand what the wizard do more deeply

The guide take the following application stack as reference on Linux environment:

- Alfresco 5.1
- MySQL 5.6
- Pentaho BI Server 6.1
- Pentaho Data Integration 6.1
- AAAR 4.3

Depending on the version of your environment you could change some steps in order to complete successfully the installation also with other supported application (Eg. for DBMS PostgreSQL or for different version of Pentaho and Alfresco, please see the compatible matrix for details of application version supported)

This guide use the same nomenclature adopted from Francesco Corti in his guide, so the terms and the path should be the mantained (as well as <biserver-ce> path etc.). Moreover assume that you have already develop all the steps described in the online guide "How to Install A.A.A.R" until Get A.A.A.R, so it is intended to replace only the step Install A.A.A.R.



Installation steps

In order to do a manual installation you have to download the MySQL Client package on the Pentaho BI Server machine

Create DataMart and Kettle schemas

This task creates two new database schema called AAAR_DataMart and AAAR_Kettle on your remote database MySQL (hostname: <mysql-host>).

Go to

solution/system/AAAR/endpoints/kettle/src/Alfresco_5_1/MySql/ and execute the following statements:

Create AAAR_DataMart

mysql -h <mysql-host> -uroot -p < AAAR_DataMart.sql</pre>

Create AAAR_Keetle

mysql -h <mysql-host> -uroot -p < AAAR_Kettle_v6.sql</pre>

and for each statement insert the mysql root password when prompt

Configure DataMart schema to change Alfresco parameters

Alfresco URL and credentials

Connect to mysql server using

```
mysql -h <mysql-host> -uroot -p
```

insert the mysql root password when prompt and modify parameters according your Alfresco installation:

```
use AAAR_DataMart
UPDATE dm_dim_alfresco SET login='<alfresco-admin-login>', password='<alfresco-admin-password>',
url='<alfresco-url>'
```

Eg. <alfresco-admin-login>: admin, <alfresco-admin-password>: admin, <alfresco-url>: http://<alfresco-host>:8080

Alfresco FTP

UPDATE dm_reports SET pentaho_url='<pentaho-url>', alfresco_ftp='<alfresco-ftp-ip>',
alfresco_port='<alfresco-ftp-port>';

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Eg <alfresco-ftp-ip>:172.18.0.2, <alfresco-ftp-port>:1121, <pentaho-url>: http://localhost:8080/pentaho

Configure JNDI datasource in Pentaho Data Integration to connect to Kettle schema

Open file <data-integration>/simple-jndi/jdbc.properties

Add the following lines (changing properly the mysql host, and password params):

```
# A.A.A.R. - Alfresco Audit Analysis and Reporting - AAAR_DataMart.

AAAR_DataMart/type=javax.sql.DataSource

AAAR_DataMart/driver=com.mysql.jdbc.Driver

AAAR_DataMart/url=jdbc:mysql://<mysql-host>:3306/AAAR_DataMart

AAAR_DataMart/user=root

AAAR_DataMart/password=<mysql-root-password>

# A.A.A.R. - Alfresco Audit Analysis and Reporting - AAAR_Kettle.

AAAR_Kettle/type=javax.sql.DataSource

AAAR_Kettle/driver=com.mysql.jdbc.Driver

AAAR_Kettle/url=jdbc:mysql://<mysql-host>:3306/AAAR_Kettle

AAAR_Kettle/user=root

AAAR_Kettle/password=<mysql-root-password>
```

Configure JNDI datasource in Pentaho BI to connect to DataMart schema¹

Open file

/tomcat/webapps/pentaho/WEB-INF/web.xml

Insert the following code after last resource-refs:

```
<resource-ref>
  <description>AAAR_DataMart</description>
  <res-ref-name>jdbc/AAAR_DataMart</res-ref-name>
  <res-type>javax.sql.DataSource</res-type>
  <res-auth>Container</res-auth>
  </resource-ref>

  <description>AAAR_Kettle</description>
  <res-ref-name>jdbc/AAAR_Kettle</res-ref-name>
  <res-type>javax.sql.DataSource</res-type>
  <res-auth>Container</res-auth>
```

<!-- insert additional resource-refs -->

¹ For some Pentaho version is possible to configure JNDI datasource for BI in the way of data-integration modifying <home>/.pentaho/simple-jndi/default.properties and add the same properties inserted in data-integration



</resource-ref>

Open file

 /tomcat/webapps/pentaho/WEB-INF/web.xml Add the following code:

Configure Pentaho Data Integration repository

Create, if doesn't exists, a file repositories.xml in <home>/.kettle/repositories.xml Add the following code:

```
<?xml version="1.0" encoding="UTF-8"?>
<repositories>
  <connection>
   <name>AAAR Kettle</name>
   <server/>
   <type>MYSQL</type>
   <access>JNDI</access>
   <database>AAAR_Kettle</database>
   <port>-1</port>
   <username/>
   <password>Encrypted </password>
    <servername/>
   <data_tablespace/>
   <index_tablespace/>
    <attributes>
      <attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute></attribute>
      <attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute></attribute>
      <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>
      <attribute><code>PORT_NUMBER</code><attribute>-1</attribute></attribute>
      <attribute><code>PRESERVE_RESERVED_WORD_CASE</code><attribute>N</attribute></attribute>
      <attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>
      <attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>Y</attribute></attribute>
      <attribute><code>SUPPORTS_TIMESTAMP_DATA_TYPE</code><attribute>N</attribute></attribute>
```



<attribute><code>USE_POOLING</code><attribute>N</attribute>

</attributes>

</connection>

<repository> <id>KettleDatabaseRepository</id>

<name>AAAR_Kettle</name>

<description>AAAR_Kettle</description>

<connection>AAAR_Kettle</connection>

</repository> </repositories>



Load AAAR repository structure

Connect to pentaho user console

Click on browse

Click on Public folder

Create a folder named AAAR

Replicate the whole structure defined in

solution/system/AAAR/endpoints/kettle/src/Alfresco_5_1/MySql/Repository. At the end you should have a following structure:

Public

AAAR





audit_actions.cdfde

audit_actions.wcdf

main.cda

main.cdfde

main.wcdf

repository.cda

repository.cdfde

repository.wcdf

repository_documents.cda

repository_documents.cdfde

repository_documents.wcdf

repository_folders.cda

repository_folders.cdfde

repository_folders.wcdf

Load Data using the Extract procedure

Access to

biserver-ce>/pentaho-solution/system/AAAR/endpoints/kettle/script folder using pentaho user and execute

./AAAR_Extract.sh

Control log if the procedure has been executed successfully For additional information to execute the procedure see Extract

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Access to main AAAR Dashboard

If you do all the steps, you should be able to access to main AAAR Dashboard. So access to Pentaho User console and go to Tools

AAAR and that's it!

(Optional) Test Publish procedure

If want you can upload in Alfresco the executed reports from AAAR.

In order to do this, access to

solution/system/AAAR/endpoints/kettle/script folder using pentaho user and execute

./AAAR_Publish.sh

Control log if the procedure has been executed successfully

For additional information to execute the procedure see Publish