

A.A.A.R. Manual Installation

Prepared by:	Vincenzo Sorrentino	Date		
	Senior Solution Architect	03/05/2016		
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Index

OVERVIEW	3
INSTALLATION STEPS	4
Create DataMart and Kettle schemas	4
Configure DataMart schema to change Alfresco parameters	
Configure JNDI datasource in Pentaho Data Integration to connect to Kettle schema	
Configure JNDI datasource in Pentaho BI to connect to DataMart schema	
Configure Pentaho Data Integration repository	
Load AAAR repository structure	
Load Data using the Extract procedure	8
Access to main AAAR Dashboard	9
(Optional) Test Publish procedure	9



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 <u>compatible matrix</u> 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

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
```

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>';
```



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

biserver-ce>/tomcat/webapps/pentaho/WEB-INF/web.xml

Insert the following code after last resource-refs:

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

5/9

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



Open file

 diserver-ce>/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/>
                 <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></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribute></attribu
                 <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></attribute>
           </attributes>
```



</connection>

<repository> <id>KettleDatabaseRepository</id>

<name>AAAR_Kettle</name>

 $\verb| <description>AAAR_Kettle</description>|$

<connection>AAAR_Kettle</connection>

</repository> </repositories>



Load AAAR repository structure

Connect to	pentaho user	console					
Click on br	owse						
Click on Pu	ıblic folder						
Create a fo	older named A	AAR					
Replicate	the	whole	structure	defined	in	<biserver-ce>/pe</biserver-ce>	ntaho-
•						t the end you should	
		nupoints/ket	tie/sic/Airresco_s	o_t/iviyoqi/kepi	JSILUI Y. A	t the end you should	nave a
following	structure:						
Public							
AAAR							
∭ OI	ар						
🎳 Re	ports						
🗃 au	dit_actions.cda						
au	dit_actions.cdfd	e					
au	dit_actions.wcdf						
🗃 m	ain.cda						
i m	ain.cdfde						
i m	ain.wcdf						
😰 re	pository.cda						
re	pository.cdfde						
i re	pository.wcdf						
🗃 re	pository_docume	ents.cda					
re	pository_docume	ents.cdfde					
re	pository_docume	ents.wcdf					
🗃 re	pository_folders.	cda					
re	pository_folders.c	cdfde					
re	pository_folders.v	wcdf					

Load Data using the Extract procedure

Access to

Access to

/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



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 <biserver-ce>/pentaho-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 $\underline{\text{Publish}}$