

Installation Guide

Apparo Fast Edit

For Linux

IBM Cognos Analytics

Version 3.3.0.0

Multi Instance



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1 Prior to Installation

Installing Apparo Fast Edit can be done in 1 hour if you prepare your environment.

Please be aware of the following points before starting installation:

1.1 Hardware requirements

- File system about 2 GB
- Main Memory about 4 GB

1.2 Supported operating systems

- IBM Red Hat
- SUSE
- Linux 64 Bit

1.3 Supported IBM Cognos Analytics versions

- IBM Cognos Analytics 11.0.6 – current (with Cognos Gateway architecture only)
- IBM Cognos Analytics 12 (with Cognos Gateway architecture only)

1.4 Supported Java VM

- **OpenJDK 11 (Adoptium)**
- **Oracle Java 11**

The Java VM must be already installed. It is not part of the Apparo installation.

1.5 Supported web servers

- Apache Webserver 2.4

1.6 Supported security systems

- All security systems that are currently in use for IBM Cognos Analytics

1.7 Supported virtual environments

- VMware ESX, ESXi
- AWS
- Azure

Apparo Fast Edit must be installed using a local **root account**.

The Cognos Analytics Firewall (CAF) is supported too. It is possible to use standard settings or adding host name/domains into the list of valid domains.

IBM Cognos Analytics must be already installed and running.

The IBM Cognos Analytics Gateway must be already installed.

OpenJDK 11/Java 11 must be already installed.

1.8 Installation strategy

Following steps are necessary in this order:

<p>1</p>	<p>Database preparation for Apparo repository</p>
<p>2</p>	<p>Installation and configuration of all Apparo application servers</p>
<p>3</p>	<p>Installation and configuration of Apparo gateway including web server</p>

1.9 Architecture

Possible Apparo Fast Edit architectures:

<p>1</p>	<p>Single Instance, your existing IBM Cognos Analytics environment is installed on <u>one computer only – that’s suitable for testing too.</u></p> <p>A „Single Instance“ is useful for small Cognos environments or test systems.</p>
<p>2</p>	<p>Multi Instance, one or more Apparo application servers are installed on one or more hosts.</p> <p>A „Multi Instance“ is useful for better performance and high availability.</p>

This document is describing the installation and configuration process for a **Multi Instance.**

Preparation

1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
2	<p>Installation of all Apparo application servers</p>
3	<p>Configuration of all Apparo application servers Configuration using the Apparo Configuration Manager</p>
4	<p>Creating the Apparo Designer entry in IBM Cognos portal</p>
5	<p>Installation of the Apparo gateway</p>
6	<p>Configuration of the Apparo gateway Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>
7	<p>Installing clients</p>

2.1 Creation of a database user for the Apparo repository

Apparo Fast Edit requires a Database repository. In this repository all of your definitions are stored.

Following databases are supported:

- Oracle
- IBM DB/2 LUW
- MS SQL Server
- MS Azure SQL Database

This database user must be defined **before** starting the Apparo Fast Edit setup.

You can find a detail description in the document “Installation – creating database user”.

Essential grants:

- The database user must be able to create database tables
- A Login with this user must be possible

2.2 Using Java 11 that is not the default JVM of Linux

If the Linux environment is not using Java 11 as default VM then the system variable PATH must be enhanced:

```
export PATH=/usr/lib/jvm/jdk11/bin:$PATH$
```

In this example the Java 11 VM is installed in /usr/lib/jvm/jdk11

3 Installation of all Apparo application servers

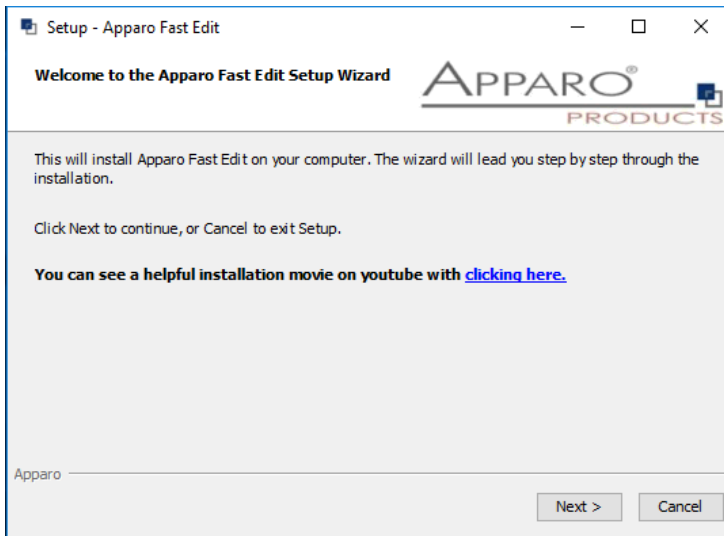
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6	<p>Configuration of the Apparo gateway Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>
7	<p>Installing clients</p>

Start the Installation by starting the file

FastEdit3.3.0.0.zzz_linux_tomcat_cognos_analytics.sh

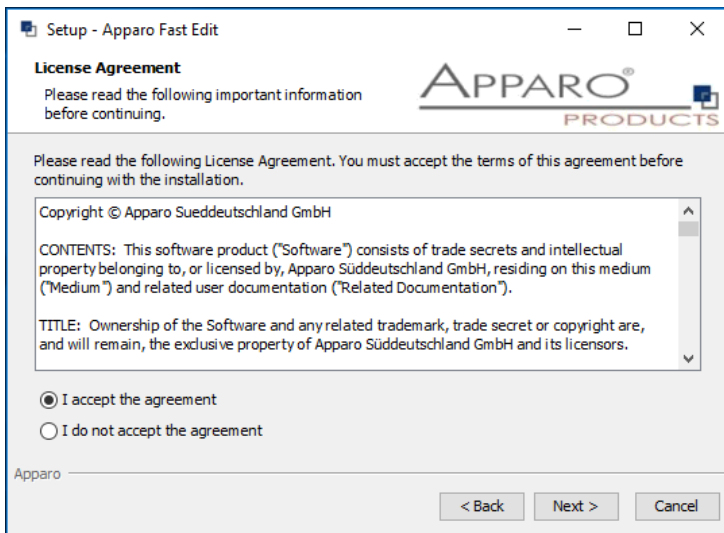
You must define the variable INSTALL4J_JAVA_HOME first.
It must have the path to the Java 11/OpenJDK 11 installation.

Example: export INSTALL4J_JAVA_HOME=/etc/vm/jv11



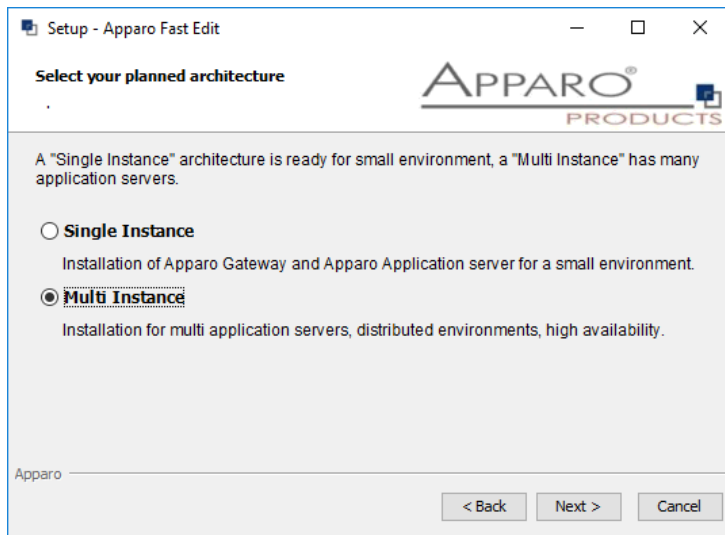
Confirm the beginning of the installation by clicking „Next“.

3.1 License agreement

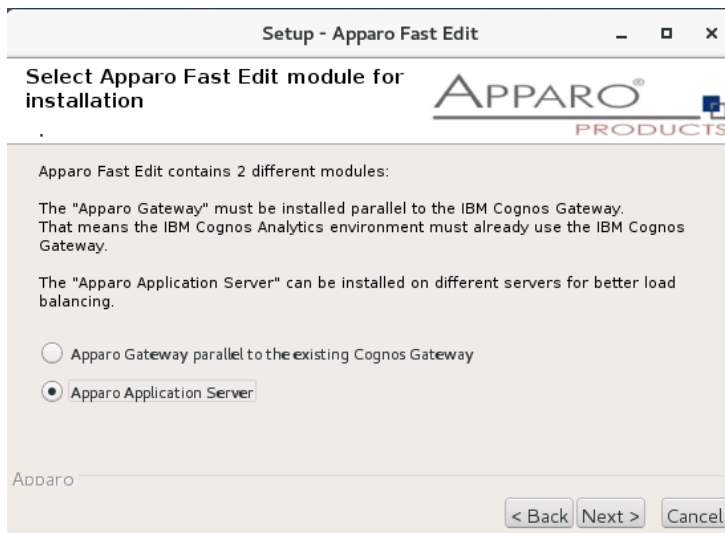


Read and confirm the license agreement by clicking „Next“.

3.2 Selecting the architecture

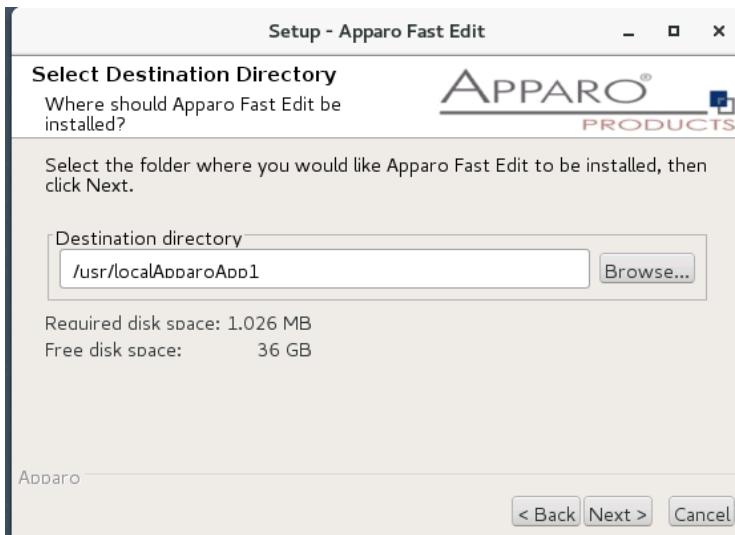


Select "Multi Instance" and choose „Next>“.



Please select "Apparo application Server " and choose „Next>“.

3.3 Defining the installation directory



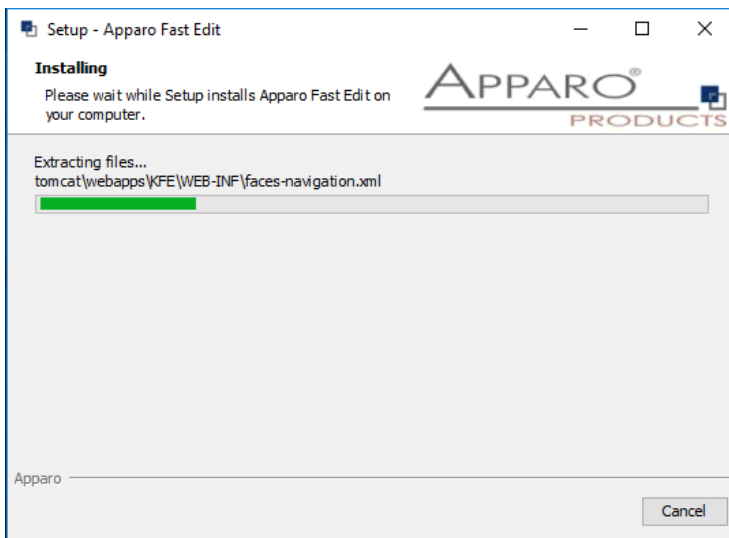
Please define folder and path and choose „**Next >**“.

Typical folder: /usr/localApparoApp1

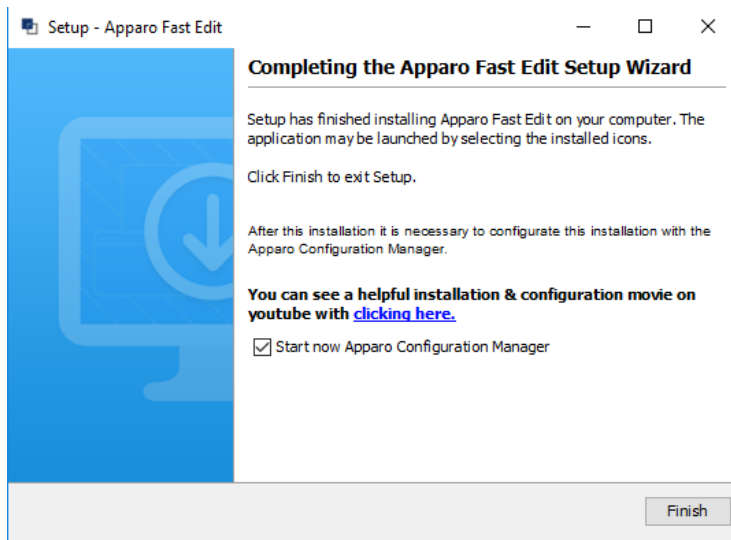
Use for each application sever an unique installation path.

3.4 Carrying out the installation

Finally the installation of Apparo Fast Edit with the selected architecture will start. After that this installation must be configured with the **Apparo Configuration Manager**.



3.5 Installation finish



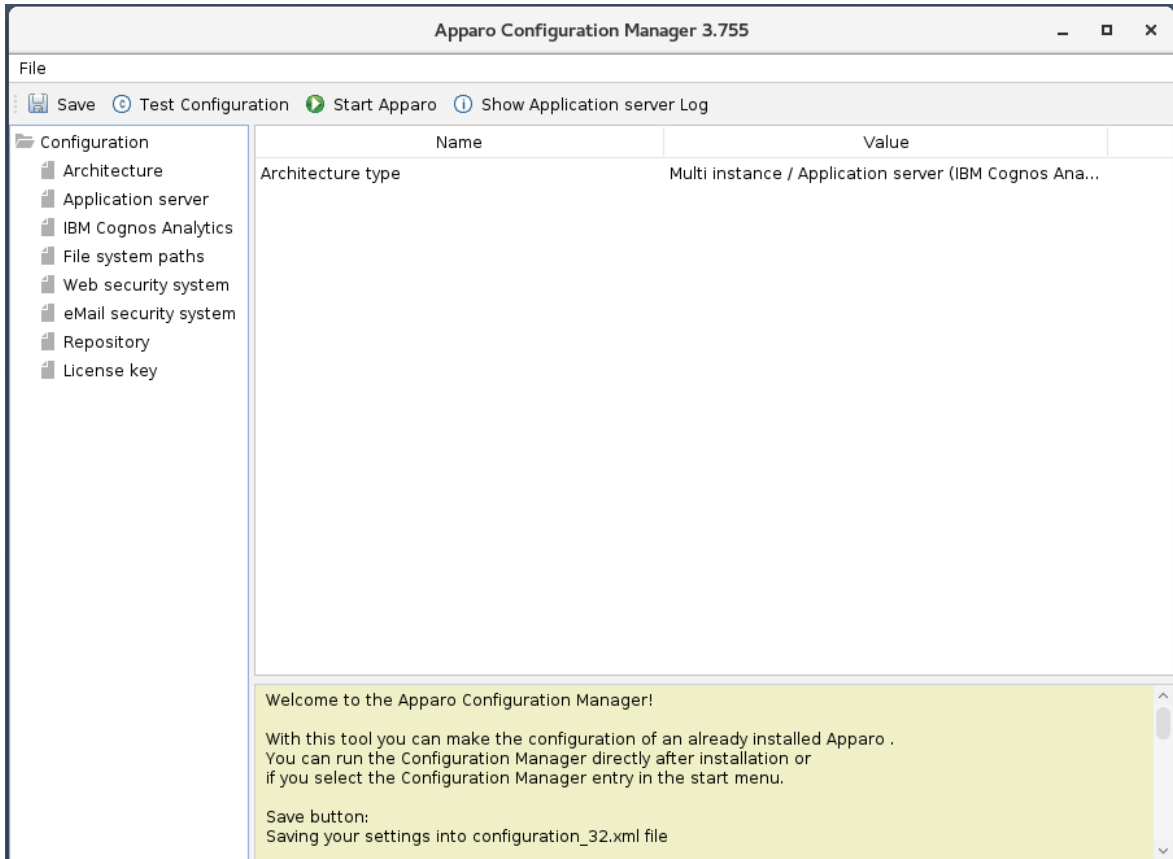
Now it's time to **configure** the installation with the **Apparo Configuration Manager**.

Click „**Finish**“ for completing the installation and to start the configuration.

4 Configuration of all Apparo application servers

1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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With the **Apparo Configuration Manager** you are able to configure the already installed Apparo application server.



The settings are grouped into chapters (left side).

For each setting you can read a helpful description text in the yellow box.

To do list:

- | | |
|----------|---|
| 1 | Define all settings |
| 2 | Press the „Test Configuration“ button for testing all settings |
| 3 | Press the „<u>Start Apparo</u>“ button for starting the application server |
| 4 | <p>You can see the log file of the application server with pressing „<u>Show Log</u>“</p> <p>If the application server is running then you can see in the log:</p> <pre> 2024-11-07 02:37:41,831 INFO com ++ + Apparo Fast Edit 3.3.0.0 (Build nnn) was successfully started at 07.11.2024 02:37:41 + ++ </pre> |

Test of an Apparo application servers without using an Apparo gateway:

Fehler! Linkreferenz ungültig.

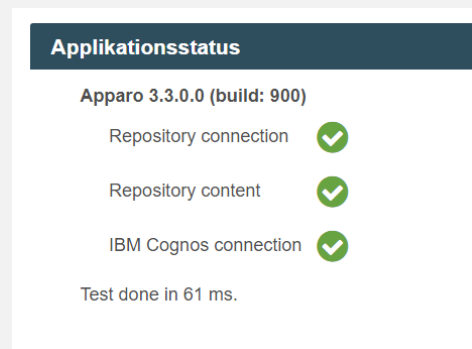
Example:

<http://localhost:18000/apparo/pages/apptest.xhtml>

With this URL you can test if the Apparo application server is running fine or has problems.

Output:

Output:



The screenshot displays the 'Applikationsstatus' (Application Status) page. It features a dark header with the title 'Applikationsstatus'. Below the header, the version 'Apparo 3.3.0.0 (build: 900)' is shown. Three status items are listed, each with a green checkmark icon: 'Repository connection', 'Repository content', and 'IBM Cognos connection'. At the bottom, it states 'Test done in 61 ms.'.

Applikationsstatus	
Apparo 3.3.0.0 (build: 900)	
Repository connection	✓
Repository content	✓
IBM Cognos connection	✓
Test done in 61 ms.	

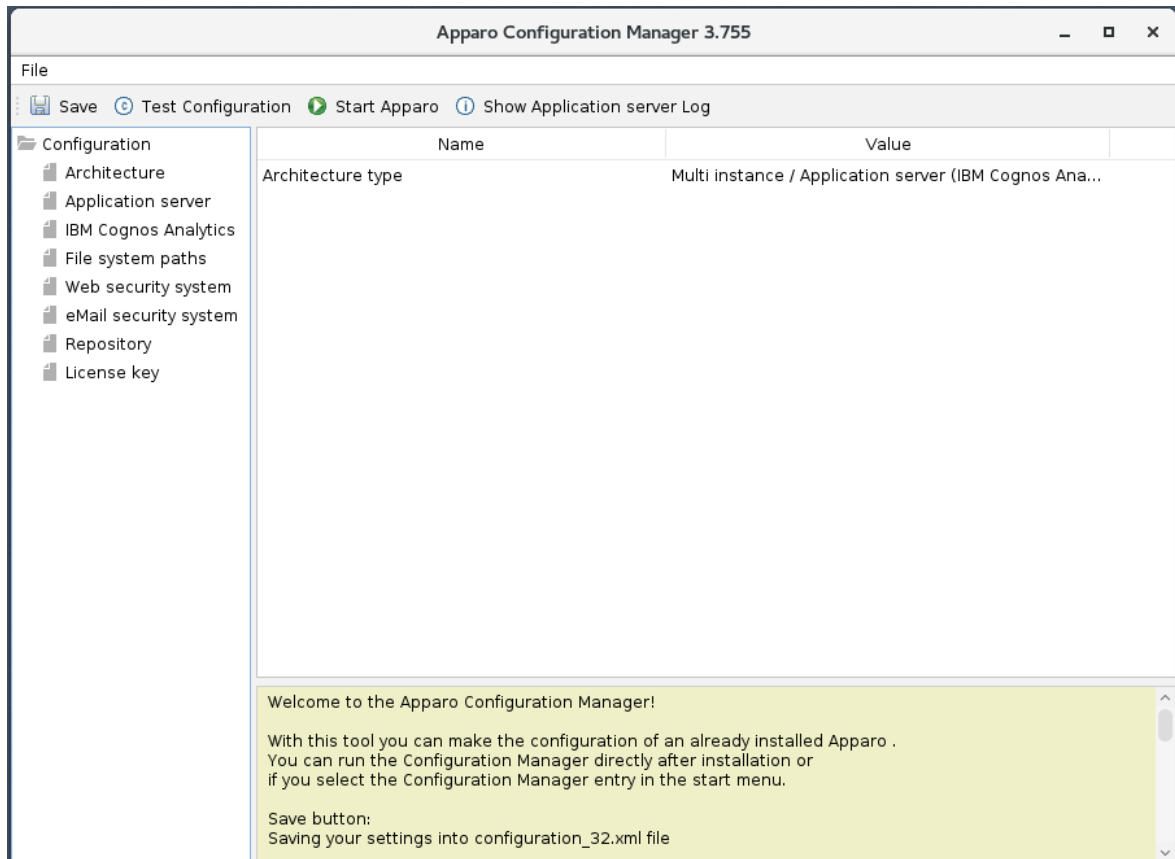
The configuration of Apparo Fast Edit is stored in file configuration.xml in file directory [APPARO_HOME]/FastEdit/cm .

If you plan a parallel/cluster system then it's sometimes comfortable to copy this file into the target system.

If you open the Apparo Configuration Manager then you will see the same configuration settings like of your source system and it's possible to change it comfortable.

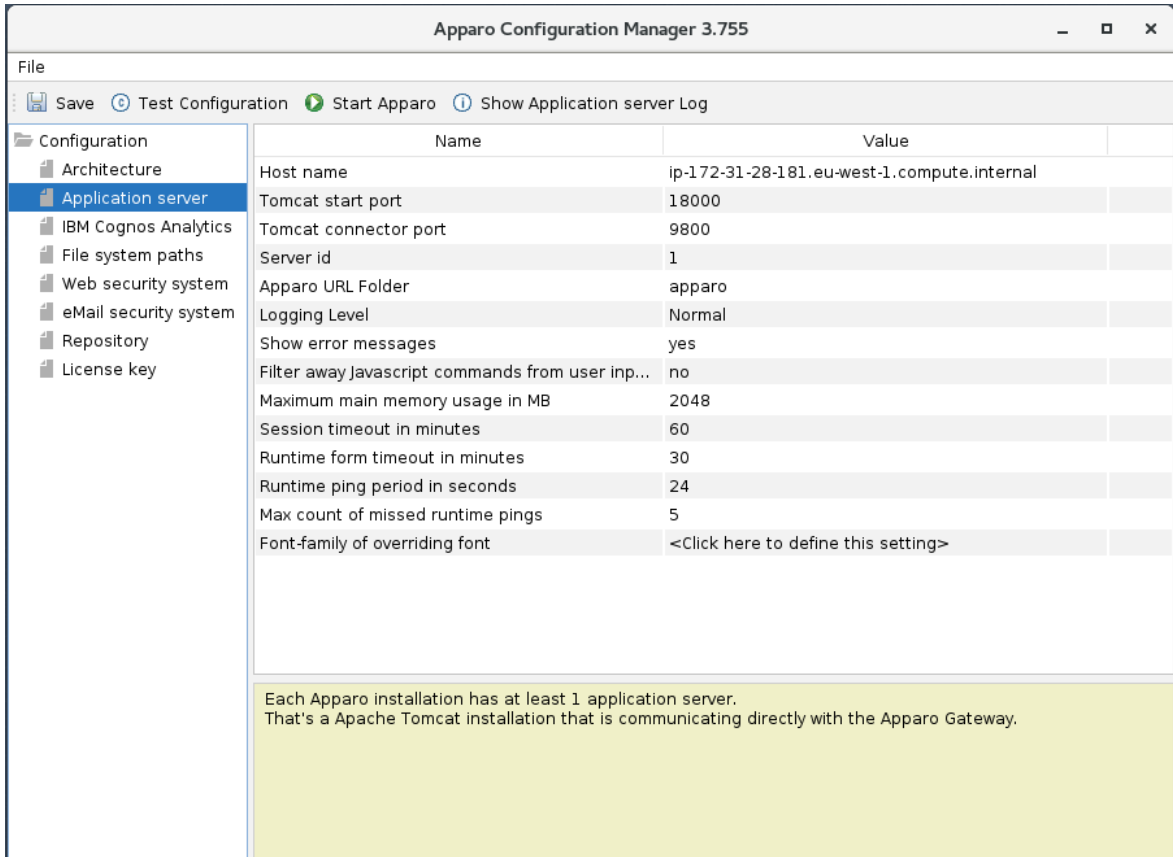
4.1 Architecture

In this section of the Configuration Managers you can find the selected Fast Edit architecture. This architecture was defined at installation time and is not changeable now.



4.2 Application server

Settings for the application server:



The screenshot shows the 'Apparo Configuration Manager 3.755' window. The 'Application server' configuration is selected in the left-hand navigation pane. The main area displays a table of configuration parameters and their values.

Name	Value
Host name	ip-172-31-28-181.eu-west-1.compute.internal
Tomcat start port	18000
Tomcat connector port	9800
Server id	1
Apparo URL Folder	apparo
Logging Level	Normal
Show error messages	yes
Filter away Javascript commands from user inp...	no
Maximum main memory usage in MB	2048
Session timeout in minutes	60
Runtime form timeout in minutes	30
Runtime ping period in seconds	24
Max count of missed runtime pings	5
Font-family of overriding font	<Click here to define this setting>

Each Apparo installation has at least 1 application server.
That's a Apache Tomcat installation that is communicating directly with the Apparo Gateway.

The setting **Server ID** is important in a multi-application environment.
Each application server has an unique ID starting with 1, then 2,3,4...

This Server ID must be used later in the **Apparo gateway settings too**.

4.3 IBM Cognos Analytics

Settings for the already installed Cognos Analytics environment:

The screenshot shows the Apparo Configuration Manager 3.755 interface. The left sidebar contains a tree view with the following items: Configuration, Architecture, Application server, IBM Cognos Analytics (selected), File system paths, Web security system, eMail security system, Repository, and License key. The main area displays a table of configuration settings for IBM Cognos Analytics.

Name	Value
Cognos Analytics version	IBM Cognos Analytics 11
Cognos Analytics internal dispatcher URL	http://ip-172-31-28-181.eu-west-1.compute.internal...
Cognos Analytics Gateway URL	/ibmcognos/bi/v1
Cognos Analytics Gateway home directory	/usr/local/ibm/cognos/analytics <input type="text" value="select"/>

Below the table, there is a button labeled "Create Apparo Designer entry into IBM Cognos Portal" and a yellow highlighted area containing the text: "All definitions for your already installed and running IBM Cognos Analytics environment."

4.4 File system paths

With the file systems paths you can define the place for storing batch files that can be called from a Business Case, Java test classes for data quality checks, path to the client definitions, Oracle client and Java keystore for certificates.

	Name	Value	
Configuration			
Architecture	File path to batch/executeable files	/usr/local/Apparo/FastEdit/user_scripts	select
Application server	File path to client definitions	/usr/local/Apparo/FastEdit/clients	select
File system paths	File path to custom java classes	/usr/local/Apparo/FastEdit/user_scripts	select
Web security system	Oracle Client path to tnsnames.ora	\$ORACLE_HOME/network/admin	select
eMail security system	Java Keystore path and name	/usr/lib/jvm/java-1.8.0/jre/lib/security/cacerts	select
Repository	Java Keystore password	***	
License key			

The file system paths are used for executing of scripts and java testing classes.

4.4.1 File path to batch/executable files

It is possible to call executable files, scripts, batch files, javascript files etc. in a Business Case. The Apparo system wide file directory is defined here. Every Business Case of every client can access this file directory.

Each client has an own user_scripts file directory that is accessible for Business Cases of this client **only**. You can find this file directory in the file directory of the client in the clients file directory.

4.4.2 File path to client definitions

Client depending CSS files and icons are stored in the clients file directory. In a cluster environment all Apparo instances must be able to access this file directory.

4.4.3 File path to custom java classes

It is possible to call Java classes in a Business Case. The Apparo system wide file directory is defined here. Every Business Case of every client can access this file directory.

4.4.4 Oracle Client path to tnsnames.ora

If you want to use an Oracle Client that is installed server-side then you must define the path to the used tnsnames.ora file.

4.4.5 Java Keystore path and name

If you want to use TLS/SSL connections to other servers like application servers, databases or LDAP/Active Directory servers and the certificate is not public available then you must add your certificates into the Java machine that is used for Apparo.

The certificates are stored in [JAVA_HOME]\lib\security\cacerts

The Java VM is not part the of Apparo installation and therefore you must inform Apparo about the path to this file.

You can import your certificate with following command:

For a Linux environment:

```
sudo keytool -importcert -file filename.cer -alias randomaliasname -keystore  
$JAVA_HOME/lib/security/cacerts -storepass changeit
```

After that you must restart the Apparo Configuration Manager again.

4.4.6 Java Keystore password

The Java key store is secured with a password. Default password is “changeit”.

4.5 Web security system

The screenshot shows a configuration window with a menu on the left and a table on the right. The menu items are: Configuration, Architecture, Application server, IBM Cognos Analytics, File system paths, Web security system (highlighted), eMail security system, Repository, and License key. The table has two columns: Name and Value. The table contains one row with the following data:

Name	Value
Web security groups for administrators	adminApparo

If a user is member of the security group that is here defined then this user has **full access** and can see and change the content of all clients in the Apparo Designer.

If this setting remains **empty** then everybody has **full access**.

Apparo has access to the Cognos security system.

4.6 eMail security system

This security system is used by Business Cases of type “eMail Import Business Cases”

The screenshot shows the Apparo Configuration Manager 3.755 interface. On the left, a tree view shows the configuration structure with 'eMail security system' selected. The main area displays a table with the following data:

Name	Value
eMail security system	None

A dropdown menu is open for the 'eMail security system' value, showing the following options:

- None
- MS Active Directory

Below the table, a yellow box contains the following text:

Security settings for verifying security groups used by eMail Import Business Cases.
 If there is a web security system specified, it will be used for the eMail security.
 That means all Excel Import Business Cases (EIBC) can use this security system only.
 All other Business Case types are using not the security system that is defined here.

4.7 Repository

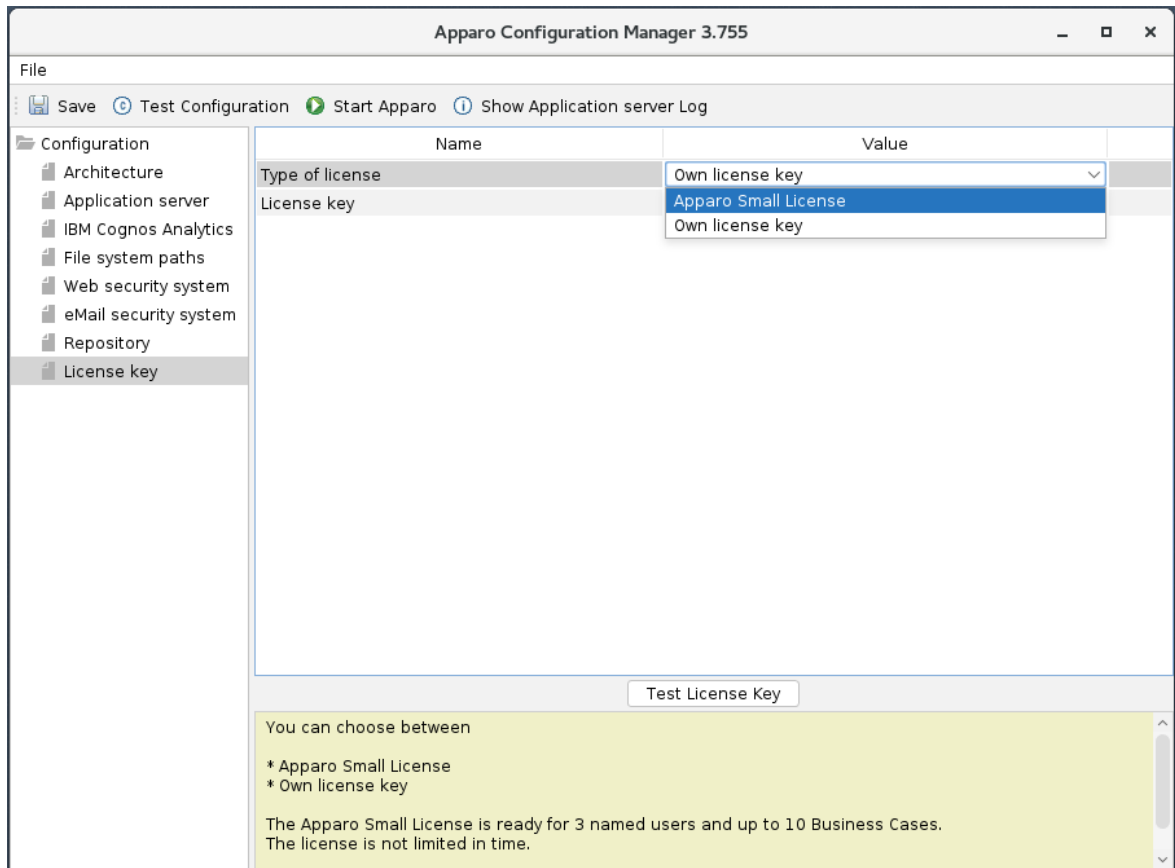
The database connection to the Apparo repository:

	Name	Value
Configuration		
Architecture	Database connection	Oracle
Application server	Database host name	Oracle
IBM Cognos Analytics	Database port number	Oracle (using service name)
File system paths	Instance name or DB name	Oracle Client
Web security system	User name	Oracle URL
eMail security system	User password	MS SQL Server
Repository	Additional optional connect parameters	MS SQL Server (Use Windows Authentication)
License key		Microsoft Azure SQL Database
		IBM DB2 LUW

For a cluster environment the usage of “internal database” is not possible.

4.8 License key

In this section you can add & change the license key. This key is necessary to run Apparo Fast Edit.



**To complete the installation, you can save and test the configuration.
If everything is OK, please start the server by clicking the button 'Start Apparo'.**

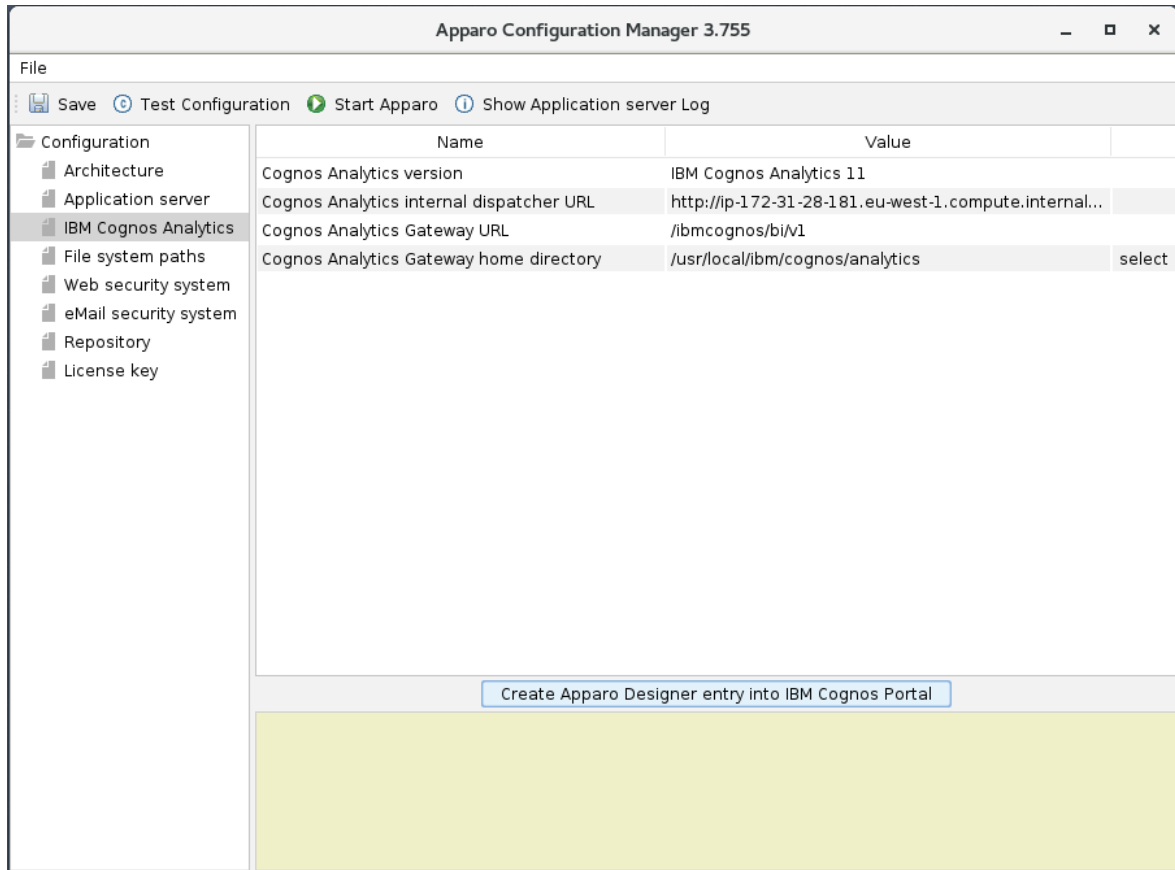
This button is deploying the configuration and starting the server.

5 Creating the Apparo Designer entry in IBM Cognos portal

1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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Possibility #1

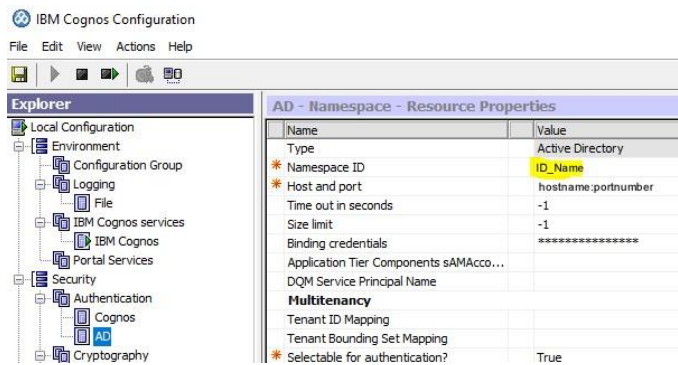
The portal entry for starting the Apparo Designer can be created with the Configuration Manager:



Click the Button 'Create Apparo Designer entry into IBM Cognos Portal'

In the next step you will be asked to enter your credentials:

Use this Namespace ID setting:



Create Apparo Designer entry into IBM Cognos Portal

Enter your credentials for IBM Cognos Analytics

Namespace ID: AD

Login: Administrator

Password:

OK Cancel

Select the desired target folder and click 'Create Apparo Designer entry'

Create Apparo Designer entry into IBM Cognos Portal

Select portal folder in that the new entry must be stored

- Available Cognos Analytics folders
 - Apparo Tutorials
 - Cognos Samples
 - Demonstration Apparo & Cognos Analytics
 - Apparo University - learning Cognos Analytics
 - Step 01 - Commenting & file attachments
 - Step 02 - Commenting with history
 - Step 04 - Dashboard & Workflow
 - Step 05 - Scripts & procedures
 - Step 06 - Excel export & import
 - Step 07 - Data Quality

Create Apparo Designer entry Cancel

You can see this new entry in the Cognos portal:

Name	Modified	Owner
Apparo Designer	2.6.2016	Unknown
subfolder	3.6.2016	Anonym

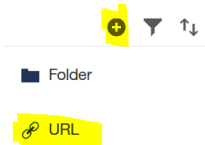
Possibility #2

Starting with CA 11.0.10 you can define hyperlinks manually:

Please copy


/ibmcognos/bi/v1/apparoDesigner.html

... and create a new entry in a team content folder, e.g. "Apparo":



Press the + icon and select URL.

Enter name and URL:

 **Create URL**

Specify a name and URL. Optionally, specify a description and screen tip.

Name
Apparo Designer

Description
Add a description

Screen tip
Add a screen tip

URL
/ibmcognos/bi/v1/apparoDesigner.html

[View acceptable domains](#)

Location
Team content > Apparo

Press OK button.

6 Installation of the Apparo gateway

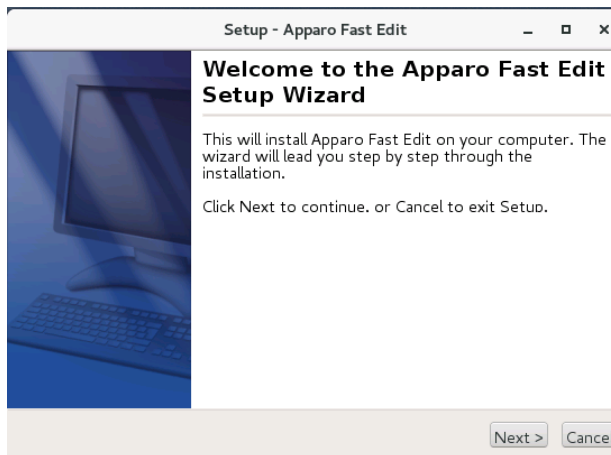
1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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7	<p>Installing clients</p>

Start the Installation by executing the file for a Linux 64 bit environment:

FastEdit3.3.0.x.zzz_linux_tomcat_cognos_analytics.sh

You must define the variable `INSTALL4J_JAVA_HOME` first.
It must have the path to the Java 11/OpenJDK 11 installation.

Example: `export INSTALL4J_JAVA_HOME=/etc/vm/jv11`

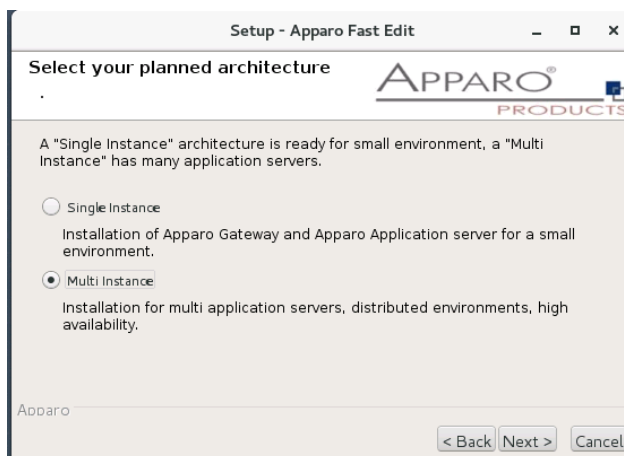


Confirm the beginning of the installation by clicking „**Next**“.

6.1 License agreement

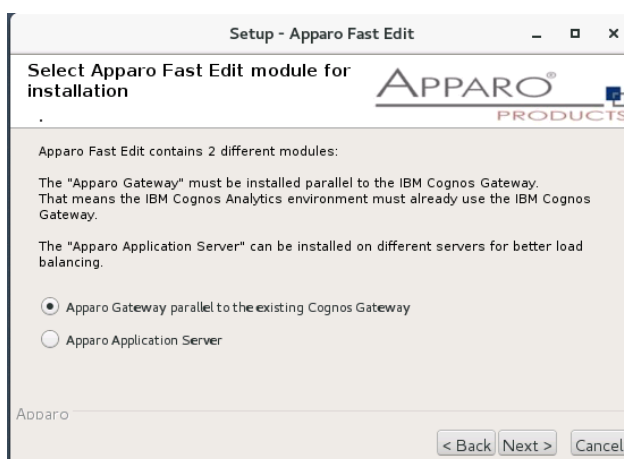


6.2 Architecture



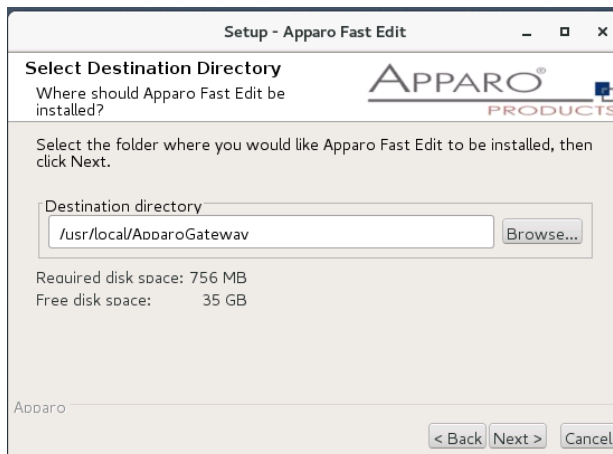
Select **"Multi Instance"** and choose **„Next>“**.

Now it's the time to choose the entry for the **Apparo gateway**.



Select **Apparo gateway** and choose **„Next>“**.

6.3 Defining the target file directory



Use for example:

`/usr/local/ApparoGateway`

Please define the path and choose „**Next**“.

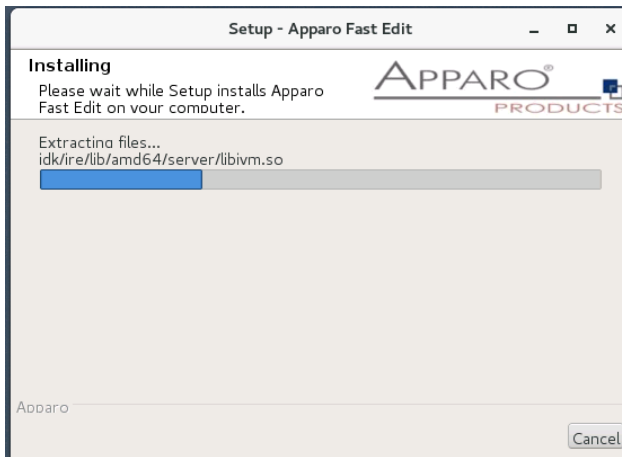
The configuration of Apparo Fast Edit is stored in file configuration.xml in file directory [APPARO_HOME]/FastEdit/cm .

Hint:

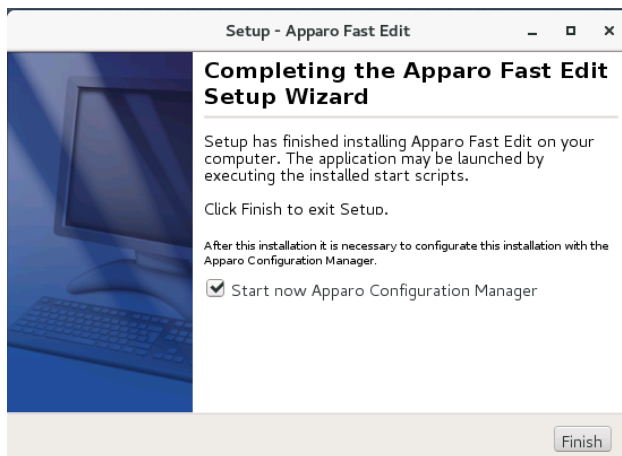
If you want to install the Apparo gateway parallel to the same server like an Apparo application server then you must use another target file directory, e.g. `/usr/local/ApparoGateway`

6.4 Carrying out the installation

Finally the installation of Apparo Fast Edit with the selected architecture will start. After that this installation must be configured with the **Apparo Configuration Manager**.



6.5 Installation finish



Now it's time to **configure** the installation with the **Apparo Configuration Manager**.

Click „**Finish**“ for completing the installation and to start the configuration.

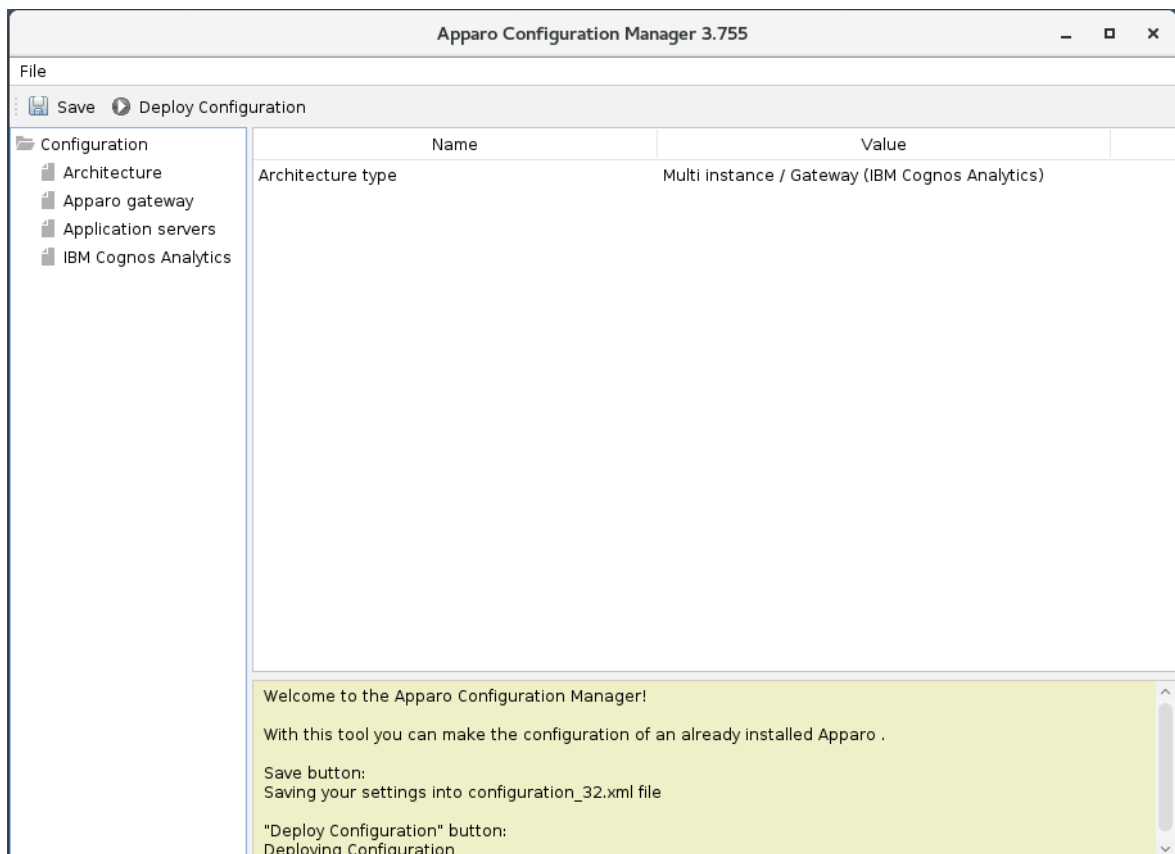
7 Configuration of the Apparo gateway

1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
2	<p>Installation of all Apparo application servers</p>
3	<p>Configuration of all Apparo application servers Configuration using the Apparo Configuration Manager</p>
4	<p>Creating the Apparo Designer entry in IBM Cognos portal</p>
5	<p>Installation of the Apparo gateway</p>
6	<p>Configuration of the Apparo gateway Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>
7	<p>Installing clients</p>

Important

Before starting of the Apparo configuration it is important that the configuration of all Apparo application servers with the Apparo Configuration Manager is successfully finished and the application servers are already running with pressing Button "Start Apparo".

With the **Apparo Configuration Manager** you are able to configure the already installed Apparo gateway.



The settings are grouped into chapters (left side).

For each setting you can read a helpful description text in the yellow box.

To do list:

- | | |
|----------|---|
| 1 | Define all settings. |
| 2 | Press the „Deploy Configuration“ button for deploying. |
| 3 | Press the „Save“ button for storing the settings. |

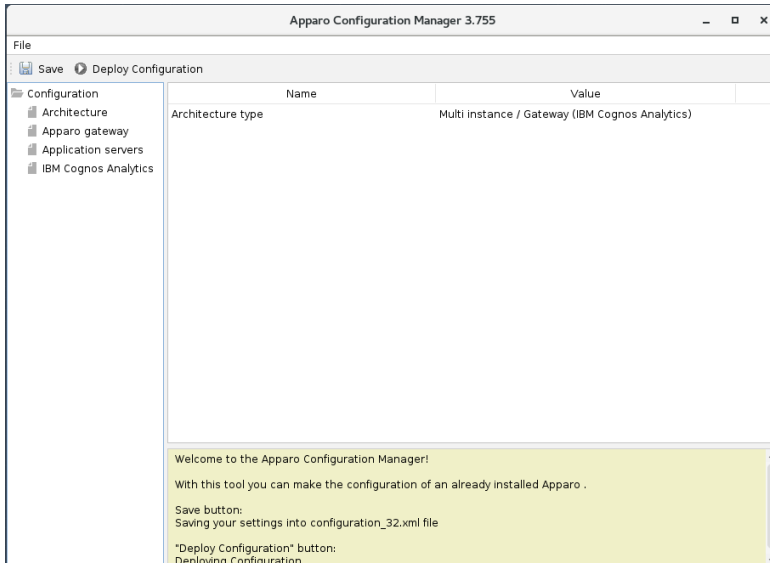
The configuration of Apparo Fast Edit is stored in file configuration.xml in file directory [APPARO_HOME]/FastEdit/cm .

If you plan a parallel/cluster system then it's sometimes comfortable to copy this file into the target system.

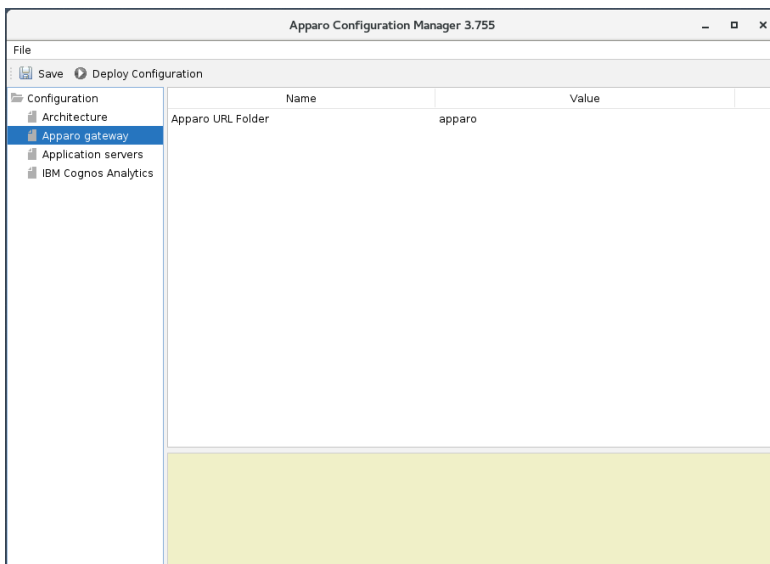
If you open the Apparo Configuration Manager then you will see the same configuration settings like of your source system and it's possible to change it comfortable.

7.1 Architecture

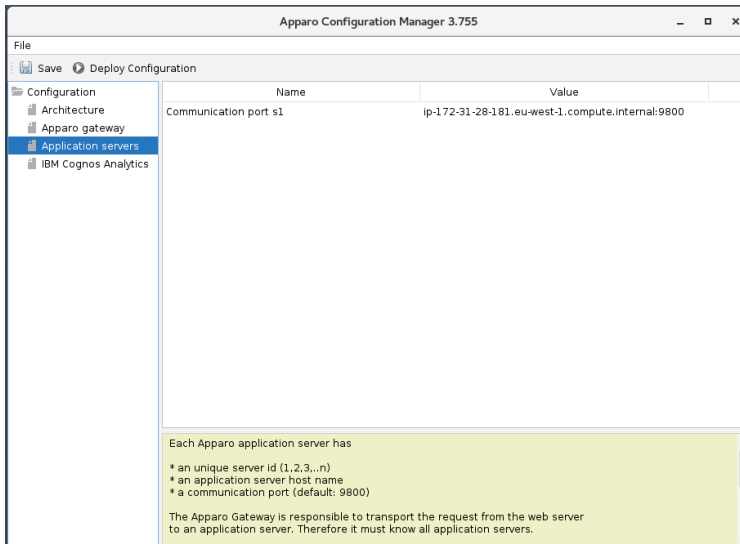
In this section of the Configuration Managers you can find the selected Apparo Fast Edit architecture. This architecture was defined at installation time and is not changeable now.



7.2 Apparo gateway



7.3 Application Server

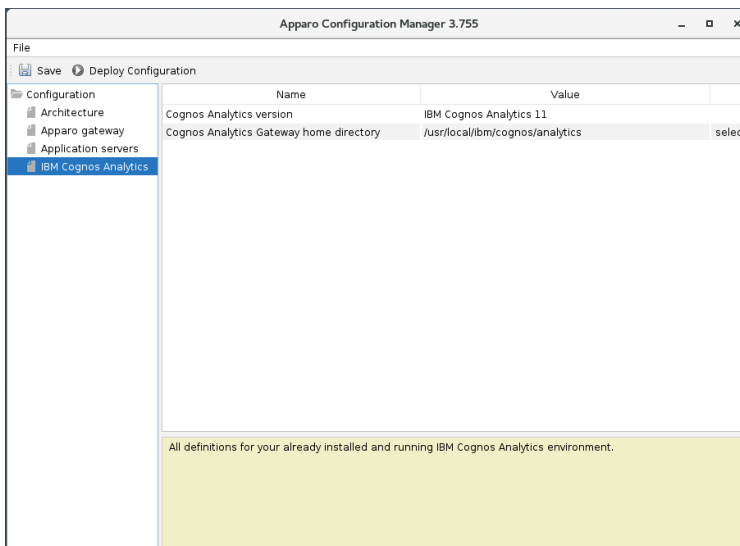


You can add an Apparo application server entry with pressing the right mouse button.

The setting **Server ID** is important in a multi-application environment. Each application server has an unique ID starting with 1, then 2, 3, 4, ...

This Server ID must be used in the **Apparo application settings** too.

7.4 IBM Cognos Analytics



The last step is to save and deploy the configuration.

7.5 Configuration of the Apache web server

This chapter is describing the configuration of Apache web server 2.4 and higher.

Hint: The configuration of Apparo using Apparo Configuration Manager must be already finished before you can continue.

Following installation steps are necessary:

Open the text file “**apache_cognos_analytics.txt**” in folder [APPARO_HOME]/FastEdit/cgi-bin

It has this or similar content:

```
[root@a2 cgi-bin]# cat apache_cognos_analytics.txt
# put these 4 rules into file cognos.conf at the beginning

RewriteRule /ibmcognos/bi/v1/apparoDesigner.html /ibmcognos/apparoDesigner.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoBusinessCase.html /ibmcognos/apparoBusinessCase.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoAjax.html /ibmcognos/apparoAjax.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoPageModule.html /ibmcognos/apparoPageModule.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoPageModule.html /ibmcognos/apparoTableModule.html [PT,L]

# put these into the file httpd.conf

<IfModule mod_proxy.c>
    ProxyPass /apparo balancer://ApparoFastEdit/apparo
    ProxyPassReverse /apparo balancer://ApparoFastEdit/apparo
    ProxyIOBufferSize 32768
    <Proxy balancer://ApparoFastEdit>
        BalancerMember ajp://a2:9800 route=s1 loadfactor=1
        ProxySet timeout=300
        ProxySet lbmethod=bytraffic
        ProxySet nofailover=0n
        ProxySet stickysession=JSESSIONID|jsessionid
    </Proxy>
    <Location /balancer-manager>
        SetHandler balancer-manager
    </Location>
</IfModule>
[root@a2 cgi-bin]#
```

This file contains 2 parts:

1. Add the <IfModule mod... part at the end of the httpd.conf file like here and before the Cognos part.

put these into the file httpd.conf

```
<IfModule mod_proxy.c>
ProxyPass /apparo balancer://ApparoFastEdit/apparo
ProxyPassReverse /apparo balancer://ApparoFastEdit/apparo
ProxyIOBufferSize 65536
<Proxy balancer://ApparoFastEdit>
BalancerMember ajp://ip-172-31-16-246.eu-west-1.compute.internal:9800 route=s1 loadfactor=1
ProxySet timeout=3000
ProxySet lbmethod=bytraffic
ProxySet nofailover=0n
ProxySet stickysession=JSESSIONID|jsessionid
</Proxy>
<Location /balancer-manager>
SetHandler balancer-manager
</Location>
</IfModule>
```

2. Add 5 rewrite rules manually into file httpd.conf – both must be placed directly before the include command for Cognos.

put these rules into file cognos.conf at the beginning

```
RewriteEngine On
RewriteRule /ibmcognos/bi/v1/apparoDesigner.html /ibmcognos/apparoDesigner.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoBusinessCase.html /ibmcognos/apparoBusinessCase.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoAjax.html /ibmcognos/apparoAjax.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoPageModule.html /ibmcognos/apparoPageModule.html [PT,L]
RewriteRule /ibmcognos/bi/v1/apparoTableModule.html /ibmcognos/apparoTableModule.html [PT,L]
```

Proxy settings

Enable following modules (they are normally already enabled):

```
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
LoadModule proxy_balancer_module modules/mod_proxy_balancer.so
LoadModule lbmethod_bytraffic_module modules/mod_lbmethod_bytraffic.so
```

Save the file httpd.conf and restart the web server.

Hint if using RHEL:

If you get an Apache error like:

[error] (13)Permission denied: proxy: AJP: attempt to connect to <servername:9800> failed

Please enter following command:

/usr/sbin/setsebool -P httpd_can_network_connect 1

RHEL 8 and higher:

Add following into Apache settings:

```
<IfModule allowmethods_module>
<Location "/">
#
# the module allows the server to use various hints from the
AllowMethods GET POST OPTIONS PUT DELETE
</Location>
</IfModule>
```

And include the module mod_allowmethods

Server Time out:

Please check that your Apache web server configuration has the setting

TimeOut 1800

Apparo Fast Edit need much time for importing/exporting/upgrading and Excel import.

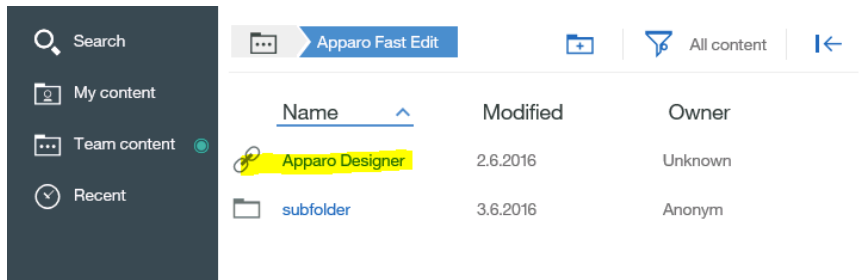
Now the installation of the Apparo gateway for Apache web server is finished.

8 Installing clients

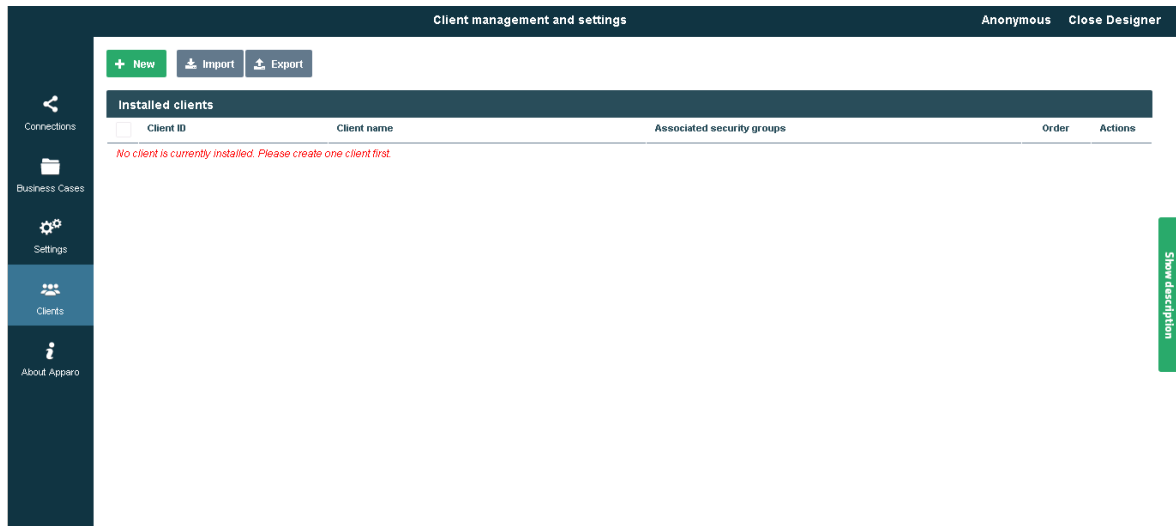
<p>1</p>	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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<p>7</p>	<p>Installing clients</p>

Now it is necessary to install the clients that will be used by users into Apparo Fast Edit.

Please open your IBM portal and select the entry “Apparo Designer”:



Now you should see:



Please read now the document “**Configuration Guide**” for creating new/importing clients.

The installation & configuration on server side is now successfully completed.

Please also read the following chapter 'Browser requirements'.

We recommend to open the "Training" Icon in the Apparo Designer. This page contains helpful training movies.

Demonstration Apparo Fast Edit Training Demonstration Close Designer

Training

Here you will find tutorial videos, the client to practice, as well as other helpful documents and links.

[Download: Apparo Tutorials Client Definition](#)

- Contains the client including online database access for practicing and following the tutorial videos
- Download, unzip and import the client file in Apparo Designer, menu client

[Video: Basics for IBM Cognos Analytics](#)

- Calling the Apparo Designer
- Adding the first client
- Creating database connections
- Creating list views and masks
- Filtering data

[Video 0070: Embedding Business Cases](#)

- Embedding Business Cases
- Filtering BCs with Cognos Analytics

[Video 0071: Embedded Master Detail Apps](#)

- Loading detail window with hyperlink
- Refreshing Master with triggered script file

[Video 0072: Calling Business Cases in an Extra Window](#)

- Calling the detail window in Cognos Analytics lists
- Call via button
- Passing parameters

[Video 0140: Variables - An Introduction](#)

- General Definition of Terms
- First variable types and simple application examples

[Video 0141: Variables - Practical application](#)

- Overview of all variable types
- Usage of variables and hints

Connectors

Business Cases

Settings

Clients

Training

About Apparo

Show description

9 Configuration Manager using command line

It is possible to automate the configuration process of the Configuration Manager.

The complete configuration is stored in the file **configuration_33.xml**

You can find this file in the [APPARO_HOME]/FastEdit/cm file directory.

Using this command line the configuration can be restored:

```
[APPARO_HOME]/FastEdit/cm/cmc.sh parameter1 parameter2 ...
```

Parameter name	Functionality
-?,--help	Displays this help text
-deploy true/false	Configuration Manager will deploy the setting files
-start true/false	Start Apparo Fast Edit using -start true

10 Import/Export definitions using command line

You can export and import clients (including languages, folder, Business Cases, connections, and DB-messages), Business Cases, folder and connections using scripts.

10.1 Exporting definitions

The export program is stored in the file directory "export": [APPARO_HOME]/FastEdit/export

Use script **afe-export.sh**

If you start the script without arguments then you can see the possible arguments:

-afeUrl <URL>	The Apparo Fast Edit URL address that will export the data. Example: <code>http://localhost:18000/apparo</code> . If you don't use this argument then the export is using the application server of this installation and its installation port.
-bcid <BUSINESS_CASE_ID>	ID of a Business Case you want to export.
-clientId <CLIENT_ID>	ID of a client you either want to export or an ID of a client the target object (Business Case, folder or connection) belongs to.
-dbc <CONN_NAME>	Name of a database connection you want to export.
-emailc <CONN_NAME>	Name of an email connection you want to export.
-f <FILEPATH>	Filename & path where to write the exported XML.
-folderPath <PATH>	Path of a folder you want to export. It should start with a slash character '/' which should also be used as a path separator.
-h	Displays this help text
-k <password>	This password is defined in Apparo Configuration Manager and is used for command line import and export only.

All export activities are logged server side in file directory logs, file `afeexport.log`

Sample: **afe-export.sh -f /etc/definition.xml -clientId DemoClient -k mypassw**

-k <password>

This password is defined in Apparo Configuration Manager and is used for command line import and export only.

All import activities are logged server side in file directory logs, file afeimport.log

Sample: **afe-import.sh -f /etc/definition.xml -u aferep -p aferep -clientId Sales -k mypassw**

11 TLS/SSL in a Cognos environment

If the **Cognos gateway** is using **TLS/SSL** then there are **no changes necessary** in the Apparo configuration.

If the **Cognos dispatcher** is using TLS/SSL (e.g using https with port 9300) then every installed Apparo application server must be informed about the used certificate.

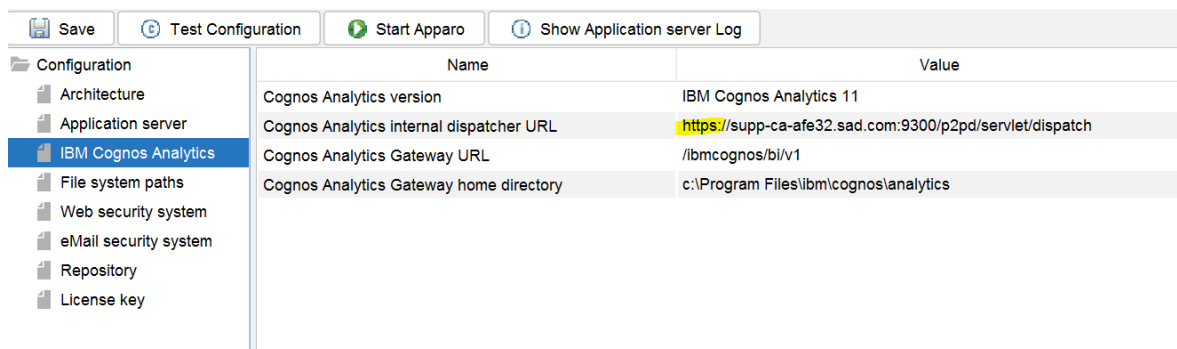
The certificates are stored in [JAVA_HOME_THAT_IS_USED_BY_APPARO]\lib\security\cacerts
 You must change this path in the Apparo Configuration Manager, chapter “File system paths”, setting “Java Keystore path and name” to set it to your used JVM.

You can import your certificate with following command:

In this example the certificate file has the name “filename.cer” and the default password of the key store is “changeit”.

```
sudo keytool -importcert -file filename.cer -alias randomaliasname -keystore
$JAVA_HOME/lib/security/cacerts -storepass changeit
```

Then open the Apparo Configuration Manager again and check if the URL for Cognos is using https:



If there are changes necessary then please update the URL and press “Start Apparo” button.

12 Placing of the company logo for each client

You can change the size of the company logo (left upper corner) for each client:

Please look into the [APPARO_HOME]\FastEdit\clients file directory.

You can see:

- **designer-theme.css** - settings for the logo in the Apparo Designer of this client
- **bc-theme.css** – settings for the logo for all Business Cases of this client

By default, the settings are disabled using remarks.

You can remove the remarks and enable the settings and change the sizing.

13 System & SQL logging

Apparo is storing all **system and SQL logging** files into

- **Apparo database repository** (exception: internal database)

Apparo is deleting all entries that are older than 3 days from the Apparo repository tables automatically (see Apparo Configuration Manager setting for defining the daily delete start time).

- and **server file system** [APPARO_HOME]\FastEdit\logs
 - file afe.log
 - afeSQL.log

Every day the current files are renamed to afe_<timestamp>.log and afeSQL_<timestamp>.log
Apparo is not deleting these files.

14 Support

If you need support then please write an eMail to:

support@apparo.solutions