



# **FileMaker Server 9 Quick Start**

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**First Edition: July 11, 2007**

**Version: 8.5.3**

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# 1

## Chapter 1 Introduction

This paper provides instructions for how to install and configure FileMaker Server 9 for access through Lasso Professional 8.5. This document has four chapters.

- This *Introduction* includes background information about FileMaker Server 9 and Lasso Professional 8.5.
- *Preparing FileMaker Databases* includes instructions for how to configure the security of each FileMaker database for sharing through FileMaker Server 9 using FileMaker Pro 9.
- *Installing and Configuring FileMaker Server 9* includes detailed instructions for installing FileMaker Server 9 and performing the initial configuration steps required to access it through Lasso Professional 8.5.
- *Troubleshooting* includes some common problems that you might encounter and how to solve them.

## Background

The FileMaker 9 product line includes technologies for Web publishing and inter-application communication. FileMaker Server 9 provides XML, XSLT, Instant Web Publishing (IWP), and PHP support. Lasso uses the XML interface to communicate with FileMaker Server. FileMaker Server 9 Advanced adds ODBC and JDBC support. FileMaker Server 9 is required in order for Lasso to access FileMaker 9 databases.

Note that FileMaker Server 9 Advanced is not required for Lasso. In the FileMaker 7 and 8 product families the XML interface was only available in FileMaker Server Advanced, but in the FileMaker 9 product family this interface has been moved directly into the FileMaker Server 9 product.

FileMaker Pro 9 includes an Instant Web Publishing (IWP) interface, but does not support any of the other interfaces which FileMaker Server 9 provides. Lasso is not able to communicate with FileMaker Pro 9 directly. FileMaker Pro 9 or FileMaker Pro 9 Advanced is required in order to prepare databases for publishing using FileMaker Server 9.

Lasso connects to FileMaker Server 9 through the Lasso Connector for FileMaker SA which is provided as a component of Lasso Professional 7.1 through 8.5. This connector provides much the same appearance from within LassoScript as the traditional Lasso Connector for FileMaker Pro. The following differences do apply:

- -ReturnField is not supported. Instead customized layouts should be used to limit the number of fields which will be returned to Lasso.
- A new -LayoutResponse tag allows an alternate layout from that used to specify a database action to be selected for databases accessed through FileMaker Server 9. This allows the set of returned fields to be different from those required to specify the database action.
- Related fields and portal fields must be referred to in a new format in updates and adds for databases accessed through FileMaker Server 9.

DatabaseName::FieldName.RecordID

- Repeating fields must be referred to in a new format in updates and adds for databases accessed through FileMaker Server 9.

FieldName(#)

- A new [Database\_FMContainer] tag takes the name of a FileMaker container field and returns the contents of the field as a byte stream. This tag works with any version of FileMaker. Data of any type can be returned from FileMaker SA databases. Only images (JPEG by default) can be returned from FileMaker Pro databases.

See the *Upgrading Your Solutions* chapter in the Lasso 8.5 Language Guide for a full list of differences between the two connectors.

The Lasso connector for FileMaker SA can also be used to connect to FileMaker Server 7 or 8 Advanced as well as to FileMaker Server 9 . Lasso can also communicate with FileMaker Pro 5 or 6 Unlimited and with FileMaker Pro 4 using the Lasso Connector for FileMaker Pro. See the Lasso 8.5 Setup Guide for additional details about connecting to these data sources.

**Table 1: Lasso Professional 8.5 Connectors for FileMaker Access**

FileMaker Version	Lasso Connector
FileMaker Pro 4	Lasso Connector for FileMaker Pro
FileMaker Pro 5 Unlimited	Lasso Connector for FileMaker Pro
FileMaker Pro 6 Unlimited	Lasso Connector for FileMaker Pro
FileMaker Server 7 Advanced	Lasso Connector for FileMaker SA
FileMaker Server 8 Advanced	Lasso Connector for FileMaker SA
FileMaker Server 9	Lasso Connector for FileMaker SA

## Overview

Setting up an installation of FileMaker Server 9 for access through Lasso consists of the following steps. These are covered in detail in the following chapters.

- Prepare one or more FileMaker 9 databases for sharing using FileMaker Pro or FileMaker Pro Advanced.
- Install FileMaker Server.
- Configure FileMaker Server.
- Install and initialize Lasso Professional 8.5.
- Create a host in Lasso Professional 8.5, enable the FileMaker databases which should be published to the Web, and adjust Lasso security.
- Write custom LassoScript code to access the database or use the built-in Database Browser to access the data without performing any coding.

These steps are covered in detail in the following pages.

# 2

## Chapter 2

# Preparing FileMaker Databases

This chapter includes instructions for how to prepare a FileMaker 9 database for sharing through FileMaker Server to Lasso Professional 8.5. The steps in this chapter must be followed for each database that is to be shared to Lasso Professional 8.5.

### Overview

FileMaker has a new security system which requires some configuration in order to share files through the XML interface provided with FileMaker Server.

- A new account must be created in each FileMaker database that is to be shared with a username and password which will be entered into Lasso Administration.
- A new extended privilege must be created in each FileMaker database which provides access using the `fmxml` keyword. This extended privilege must be granted to the account which will be used for sharing to Lasso.
- Each FileMaker database that is to be shared must be placed in the data folder for FileMaker Server.

The *Configuration* section below includes detailed instructions for how each FileMaker database can be configured. The steps in this section require FileMaker Pro 9 or FileMaker Pro 9 Advanced on Mac OS X or Windows.

### Configuration

**Important:** If you are publishing multiple related databases then all of the related databases must have this same configuration performed. This is true even if a database is only accessed through a portal.

- 1 Open the FileMaker Pro application and open the FileMaker Pro database that you want to configure. For example, a database might be named `Example.FP7`.
- 2 Open the FileMaker Pro Accounts & Privileges dialog box from the menu bar at `File > Define > Accounts & Privileges....`

- 3 Select the Accounts tab. Add a new account which you will use to access this database through Lasso. Often, every database which is configured for access through Lasso will share the same account name and password. For example, the new account might have the following properties:

**Account is authenticated via** – FileMaker

**Account Name** – Lasso

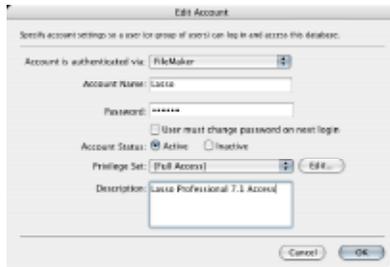
**Password** – <select a password>

**Account Status** – Active

**Privilege Set** – [Full Access]

**Description** – Lasso Professional 8.5 Access

Figure 1: Edit Account



- 3 Select the Extended Privileges tab. Add a new extended privilege by selecting the New... button. The new extended privilege must have the following properties:

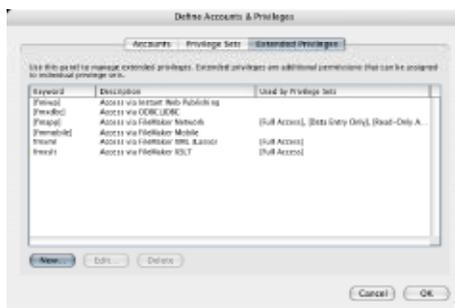
**Keyword** – fmxml

**Description** – Access via FileMaker XML (Lasso)

**Privileges** – [Full Access]

**Note:** It is also possible to add a fmxslt extended privilege if your database will be accessed through the built-in XSLT interface, but this is not required for Lasso access.

Figure 2: Extended Privileges



- 4 The database must be closed and moved into the appropriate folder in order to be shared through FileMaker Server. The location of databases shared by FileMaker Server are by default:

**Mac OS X** – /Library/FileMaker Server/Data/Databases/

**Windows** – C:\Program Files\FileMaker\FileMaker Server\Data\Databases\

The same database cannot be accessed through FileMaker Pro and FileMaker Server simultaneously. Once you have placed the database in the folder shown above, FileMaker Server will open it automatically. You can then access it through FileMaker Pro by selecting the Remote... option in the Open File dialog box.

**Note:** It is also possible to create a new privilege set in order to assign the Lasso account less than full access to the database. If you do this be sure that the Lasso account is assigned to this privilege set and that the privilege set has access to the fmxml extended privilege.

## Testing

**Important:** If you have not installed and configured FileMaker Server then you should do that now. Full instructions are included in the following chapter or in the documentation provided by FileMaker, Inc.

If you have already installed and configured FileMaker Server (i.e. you are adding the database to an existing installation) and configured the FileMaker host in Lasso Site Administration, then your new database should be available through Lasso Professional 8.5 immediately.

- 1 In Lasso Administration select the **Setup > Data Sources > Databases** section, select the Lasso Connector for FileMaker SA, the appropriate host, and select the Refresh... button. The new database should show up in the list.
- 2 Select the new database and change its status to Enabled in the left pane. Select the Update button.
- 3 Configure Lasso Security in the **Setup > Security** section to allow the appropriate access to the new database.

See the Lasso Professional 8.5 Setup Guide for additional information about how to configure, enable, and set up security for FileMaker Server 9 data sources in Lasso Administration.

# 3

## Chapter 3

# Installing and Configuring FileMaker Server 9

This chapter includes instructions for how to install and configure FileMaker Server 9. The instructions in this chapter apply to both Mac OS X and Windows platforms. Platform differences are noted when required.

### Overview

Lasso Professional 8.5 can only access FileMaker 9 databases through FileMaker Server 9. FileMaker Server 9 consists of many different components, but the FileMaker Server installer handles and deployment wizard handles installing each of them for you.

**Note:** It is not necessary to use FileMaker Server 9 Advanced for access through Lasso. The XML interface which Lasso requires to communicate with FileMaker Server has been added to the FileMaker Server 9 product directly.

The process for installing and configuring FileMaker Server 9 for access through Lasso Professional 8.5 is as follows. These steps are covered in more detail in the *Installation*, *Initial Configuration*, and *Lasso Configuration* sections below.

- Install FileMaker Server.
- Use the Deployment Assistant to configure FileMaker Server and select which options you would like to have installed.
- Test FileMaker Server using the built-in test page and several URLs provided in this document to ensure that it is serving database properly.
- Prepare one or more FileMaker databases for access through FileMaker Server 9 using the instructions provided in the prior chapter.
- Configure a new data source host in Lasso Administration, enable the FileMaker databases, and configure Lasso security.

After these steps have been performed once, additional FileMaker databases can be prepared for access through FileMaker Server 9 using the instruction provided in the prior chapter. It is only necessary to perform the steps in this chapter once for each FileMaker Server.

## Installation

Install FileMaker Server using the installer which FileMaker, Inc. provides. It is recommended that FileMaker Server be installed in the default location on either Mac OS X or Windows Server. Select the “Single Machine” option. You will be prompted for your name, company name, and serial number.

See the *Troubleshooting* section if you encounter any errors after upgrading from FileMaker Server 7 or 8.

After the installation has completed, continue to the *Deployment Assistant* to configure FileMaker Server.

**Note:** FileMaker, Inc. provides documentation for installing the various components on different machines if required, but this configuration is not covered by the instructions in this paper.

## Deployment Assistant

FileMaker provides a “Deployment Assistant” which runs immediately after the FileMaker Server 9 installer. This assistant will walk through the steps required to complete the FileMaker Server installation and configuration.

If the assistant does not run or you quit the installer then access the following URL in a Web browser.



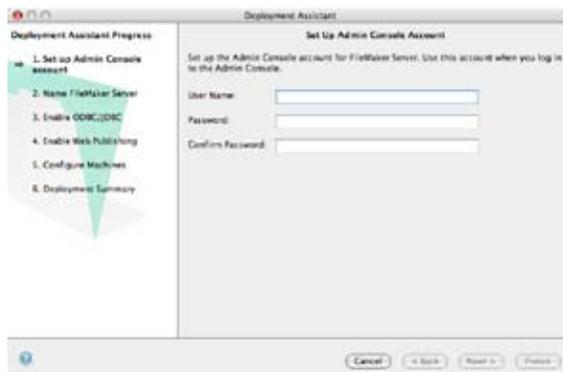
Click the link to start the FileMaker Server Administration Console application. This is a Java application. Your browser will access a .jnlp file and should launch the administration console automatically. If it does not, check your download folder or desktop for a file named `admin_console_webstart.jnlp` and double click on this file to launch the administration console.

[http://localhost:16000/admin\\_console\\_init\\_webstart.jnlp](http://localhost:16000/admin_console_init_webstart.jnlp)

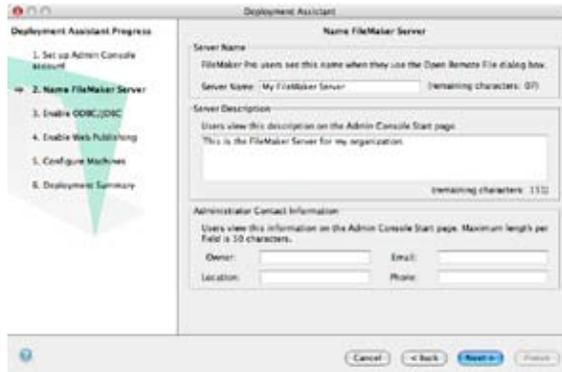
You may be asked to “Trust” the secure certificate provided with the administration console.

Now, follow the steps in the assistant to deploy and configure FileMaker Server 9.

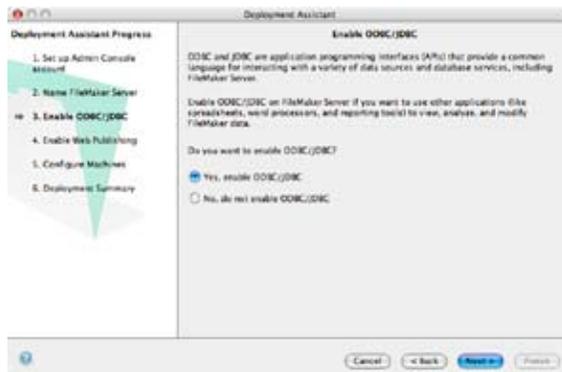
- 1 Create the username and password which will be used to log in to the Server Admin Console application. This username and password will generally be different from those used for Lasso Administration or for Lasso’s access to the shared FileMaker databases.



- 2 Create a name for your FileMaker Server. This name will be reported to FileMaker Pro clients when they access your server.



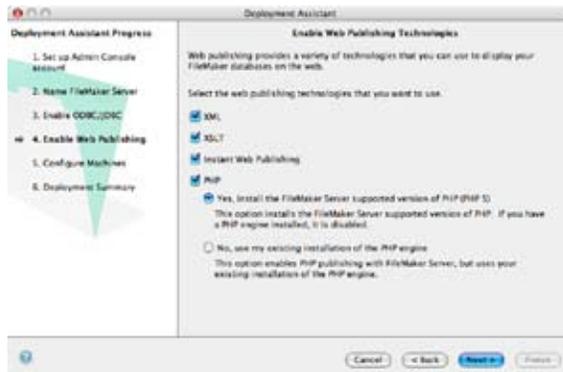
- 3 Decide whether you want to enable ODBC and JDBC access to your server. These options require FileMaker Server 9 Advanced and are not necessary for access through Lasso. FileMaker Server makes it easy to turn on these options later so they should be left off unless you intend to configure and use them immediately.



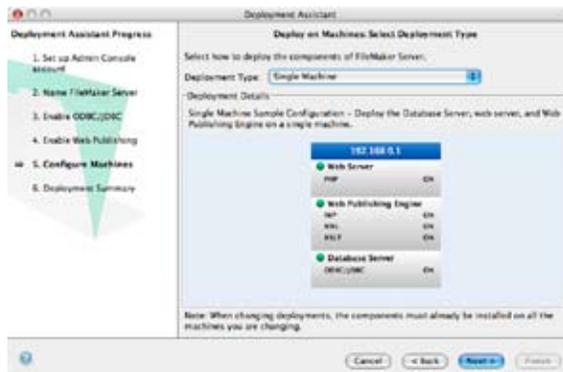
- 4 Enable the Web Publishing options. Lasso requires that Web Publishing is enabled so that it can access FileMaker Server through the XML interface. You will have the opportunity to fine tune which Web Publishing options are enabled on the next screen.



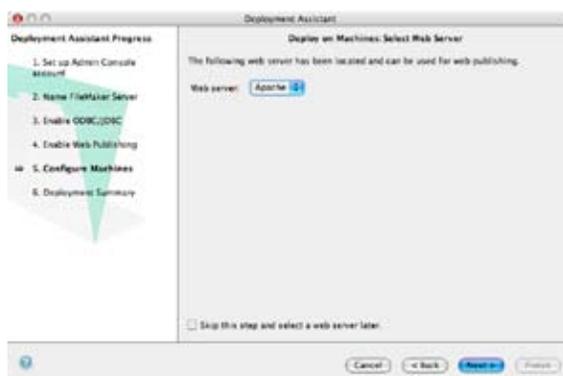
- 5 Enable the XML option in order to share databases through Lasso. All of the other options can be disabled if you are only going to share databases through Lasso. FileMaker Server makes it easy to turn on these options later so they should be left off unless you intend to configure and use them immediately.



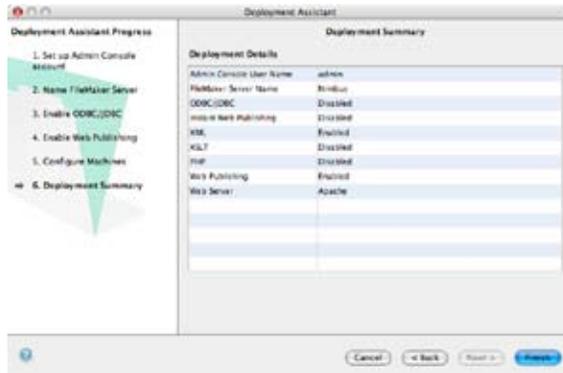
- 6 Select whether you intend to use a “Single Machine” or multiple machine configuration. These instructions only cover the “Single Machine” option. You should consult FileMaker’s documentation for more information about installing FileMaker Server on multiple machines and how to configure the different options.



- 7 Select which Web server you have installed. FileMaker Server 9 supports the built-in Apache on Mac OS X and Mac OS X Server and IIS on Windows.



- 8 The final page provides a summary of the options you have selected. When you click on “Finish” the installer will install the selected options.



- 9 After the selected options have been installed the following screen will be shown. This allows you to register FileMaker Server 9 or to run the “Test” Page.



## Testing FileMaker Server 9

FileMaker Server 9 has a built-in test page which allows you to confirm that FileMaker Server 9 has been installed and configured properly. You can access the test page from the end of the “Deployment Assistant” or by loading the following URL in a Web page directly.

<http://localhost:16000/test>

If you have FileMaker Pro 9 installed then the “Test FileMaker Pro” link will launch the application and load an FMServer\_Sample database which is installed by default. If you have any problems with this link then you should consult FileMaker’s troubleshooting documentation.

The other options allow you to test the Instant Web Publishing (IWP), PHP Web Publishing, and XSLT Web Publishing interfaces. FileMaker does not provide a test page for XML Web Publishing which Lasso uses to access FileMaker Server.

Instead, load the following URLs in your Web browser in order to test XML Web Publishing.

- 1 The following URL should return a list of databases which are shared through FileMaker Server. By default you should see the FMServer\_Sample database. View the source of the Web page to see the actual XML results.

<http://localhost/fmi/xml/FMPXMLRESULT.xml?-dbnames>

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE FMPXMLRESULT PUBLIC "-//FMI//DTD FMPXMLRESULT//EN" "fmi/xml/FMPXMLRESULT.dtd">
<FMPXMLRESULT xmlns="http://www.filemaker.com/fmpxmlresult">
<ERRORCODE>0</ERRORCODE>
<PRODUCT BUILD="06/13/2007" NAME="FileMaker Web Publishing Engine" VERSION="9.0.1.74"/>
<DATABASE DATEFORMAT="" LAYOUT="" NAME="DBNAMES" RECORDS="1" TIMEFORMAT=""/>
<METADATA>
<FIELD EMPTYOK="NO" MAXREPEAT="1" NAME="DATABASE_NAME" TYPE="TEXT"/>
</METADATA>
<RESULTSET FOUND="1">
<ROW MODID="0" RECORDID="0"><COL><DATA>FMServer_Sample</DATA></COL></ROW>
</RESULTSET>
</FMPXMLRESULT>
```

If you do not see any results or you get an error from your Web server then you should make sure that it has been configured properly. Consult the *Troubleshooting* section of this document or FileMaker's documentation.

- 2 The following URL should return a list of layouts from the sample database. You should not be prompted for a username and password for this URL. View the source of the Web page to see the actual XML results. The partial <RESULTSET> ... </RESULTSET> portion of the results is shown below.

[http://localhost/fmi/xml/FMPXMLRESULT.xml?-db=FMServer\\_Sample&-layoutnames](http://localhost/fmi/xml/FMPXMLRESULT.xml?-db=FMServer_Sample&-layoutnames)

```
<RESULTSET FOUND="20">
  <ROW MODID="133" RECORDID="1"><COL><DATA>English</DATA></COL></ROW>
  <ROW MODID="96" RECORDID="9"><COL><DATA>Français</DATA></COL></ROW>
  <ROW MODID="64" RECORDID="11"><COL><DATA>Italiano</DATA></COL></ROW>
  <ROW MODID="64" RECORDID="10"><COL><DATA>Deutsch</DATA></COL></ROW>
  <ROW MODID="58" RECORDID="12"><COL><DATA>Svenska</DATA></COL></ROW>
  <ROW MODID="100" RECORDID="19"><COL><DATA>English_Form_View</DATA></COL></ROW>
  <ROW MODID="62" RECORDID="21"><COL><DATA>English_List_View</DATA></COL></ROW>
  <ROW MODID="56" RECORDID="24"><COL><DATA>Français_Form_View</DATA></COL></ROW>
  <ROW MODID="39" RECORDID="25"><COL><DATA>Français_List_View</DATA></COL></ROW>
  <ROW MODID="57" RECORDID="28"><COL><DATA>Italiano_Form_View</DATA></COL></ROW>
  <ROW MODID="42" RECORDID="29"><COL><DATA>Italiano_List_View</DATA></COL></ROW>
  <ROW MODID="40" RECORDID="32"><COL><DATA>Deutsch_Form_View</DATA></COL></ROW>
  <ROW MODID="36" RECORDID="33"><COL><DATA>Deutsch_List_View</DATA></COL></ROW>
  <ROW MODID="41" RECORDID="36"><COL><DATA>Svenska_Form_View</DATA></COL></ROW>
  <ROW MODID="36" RECORDID="37"><COL><DATA>Svenska_List_View</DATA></COL></ROW>
</RESULTSET>
```

If you replace the -db parameter with one the name of your own custom database then you can see a list of layouts in that database. You should expect to enter the username and password you configured in the *Preparing FileMaker Databases* chapter.

- 3 The following URL should return a list of fields for the English\_List\_View layout from the sample database. You should not be prompted for a username and password for this URL. View the source of the Web page to see the actual XML results. The partial <METADATA> ... </METADATA> portion of the results is shown below.

[http://localhost/fmi/xml/FMPXMLRESULT.xml?-db=FMServer\\_Sample&-lay=English\\_List\\_View&-view](http://localhost/fmi/xml/FMPXMLRESULT.xml?-db=FMServer_Sample&-lay=English_List_View&-view)

```
<METADATA>
  <FIELD EMPTYOK="YES" MAXREPEAT="1" NAME="Title" TYPE="TEXT"/>
  <FIELD EMPTYOK="YES" MAXREPEAT="1" NAME="Cover Photo Credit" TYPE="TEXT"/>
  <FIELD EMPTYOK="YES" MAXREPEAT="1" NAME="Status" TYPE="TEXT"/>
  <FIELD EMPTYOK="YES" MAXREPEAT="1" NAME="Quantity in Stock" TYPE="NUMBER"/>
</METADATA>
```

If you replace the -db and -lay parameters with the name of your own custom database and a layout from that database then you can see a list of field from that database. You should expect to enter the username and password you configured in the *Preparing FileMaker Databases* chapter.

- 4 The following URL should return all of the records from the sample database. You should not be prompted for a username and password for this URL. View the source of the Web page to see the actual XML results. The partial <RESULTSET> ... </RESULTSET> portion of the results is shown below.

[http://localhost/fmi/xml/FMPXMLRESULT.xml?-db=FMServer\\_Sample&-lay=English\\_List\\_View&-findall](http://localhost/fmi/xml/FMPXMLRESULT.xml?-db=FMServer_Sample&-lay=English_List_View&-findall)

```
<RESULTSET FOUND="12">
  <ROW MODID="2" RECORDID="1">
    <COL><DATA>Alaska 24/7</DATA></COL>
    <COL><DATA>Evan R. Steinhauser, Anchorage Daily News</DATA></COL>
    <COL><DATA>Popular</DATA></COL>
  </ROW>
</RESULTSET>
```

```

    <COL><DATA>50</DATA></COL>
  </ROW>
  ... Additional Rows ...
</RESULTSET>

```

If you replace the `-db` and `-lay` parameters with the name of your own custom database and a layout from that database then you can see data from that database. You should expect to enter the username and password you configured in the *Preparing FileMaker Databases* chapter.

**Important:** If any of these test URLs fail then Lasso will not be able to access the shared FileMaker databases. If you encounter any problems with these URLs then please check the *Troubleshooting* section of this document and the FileMaker documentation or contact LassoSoft or FileMaker support.

## Prepare Databases

Each databases which is to be shared through FileMaker Server must have an account for Lasso and an `fmxml` extended privilege created. Full instructions for doing this are provided in the prior chapter *Preparing FileMaker Databases*. The extended privilege must be configured even in databases which are only going to be accessed through a portal in another database.

After FileMaker databases are prepared to be shared through FileMaker Server and are placed in the appropriate folder they can be accessed through Lasso Professional 8.5. See the following section for instructions to create a data source host in Lasso Administration and to confirm that the appropriate databases are available.

It is recommended that you prepare at least one database for publishing in order to complete the configuration of Lasso Administration successfully. Otherwise, the `FMServer_Sample` database can be used for the initial configuration.

## Lasso Configuration

Once FileMaker Server and the FileMaker Web Publishing Engine are installed and configured and one or more databases are prepared for publishing, the final step is to create a data source in Lasso Administration.

- 1 If you have not done so already, install Lasso Professional 8.5 and initialize it. These instructions assume you are using Lasso Professional 8.5, but can also apply as far back as Lasso Professional 7.1. No earlier versions of Lasso can access databases through FileMaker Server 9.
- 2 Access Lasso Site Administration through the following URL. If Lasso Service is running on a different machine from the Web browser enter the appropriate IP address or host name in place of `localhost`. You will be prompted for your Lasso Administration username and password.

```
http://localhost/SiteAdmin.LasoApp
```

If you are using Lasso Professional 7 then the following URL should be used to access Lasso Administration.

```
http://localhost/Lasso/Admin.LasoApp
```

- 3 Select the *Setup > Data Sources > Connectors* section of Lasso Administration. Select the Lasso Connector for FileMaker SA and select the *Add Host...* button.
- 4 Enter the IP address or host name of the machine with FileMaker Server 9. The default port for accessing FileMaker Server 9 is port 80. If you used the same account username and password in each FileMaker database that was prepared for publishing, it can be entered in the *Default Username* and *Default Password* fields. Select *Add Host* to continue.

**Important:** The username and password should be for the account which was set up within your FileMaker databases with `fmxml` privileges. Do not enter the identifier and passcode which were configured for access to the FileMaker Server Administration Console.

Figure 4: Lasso Administration



- 5 Select the List Databases... button. Each available databases is listed on the resulting page. Either select Enable All to enable all the FileMaker databases or select the Enable links for individual databases.
- 6 Access the Database Browser through the following URL. If Lasso Service is running on a different machine from the Web browser enter the appropriate IP address or host name in place of localhost. You may be prompted for your Lasso Administration username and password.

<http://localhost/DatabaseBrowser.LasoApp>

If you are using Lasso Professional 7 then the following URL should be used to access the Database Browser.

<http://localhost/Lasso/DatabaseBrowser.LasoApp>

- 7 Select the Browse tab of the Database Browser and choose the Lasso Connector for FileMaker SA connector, the host you just configured, the FMServer\_Example database, and the English\_List\_View layout (or one of your custom databases and layouts). Select the Search or List tabs to see records from the selected database.

**Important:** If you do not see any database to enable or if the Database Browser does not show record from your database then Lasso will not be able to access the shared FileMaker databases. Please check the **Troubleshooting** section of this document and the FileMaker documentation or contact LassoSoft or FileMaker support.

# 4

## Chapter 4 Troubleshooting

### Documentation

Consult the documentation that FileMaker, Inc. provides for additional troubleshooting information. You can find the documentation in the following locations:

**Mac OS X** – /Library/FileMaker Server/Documentation

**Windows** – C:\Program Files\FileMaker\FileMaker Server\Documentation

FileMaker Inc. also provides many useful resources at its Web site:

<http://www.filemaker.com>

LassoSoft provides FileMaker specific information at the following URL:

<http://www.lassosoft.com/filemaker/>

### FileMaker Server Administration Console

Access the following URL in your Web browser:

<http://localhost:16000/?page=launch&install=single>

Click the link to start the FileMaker Server Administration Console application. This is a Java application. Your browser will access a .jnlp file and should launch the administration console automatically. If it does not, check your download folder or desktop for a file named `admin_console_webstart.jnlp` and double click on this file to launch the administration console.

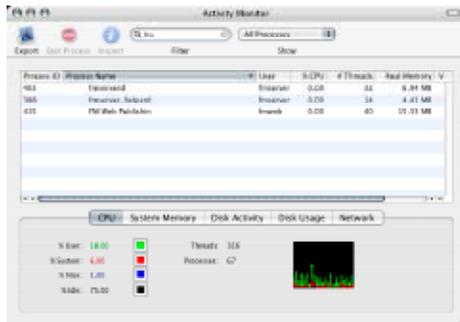
[http://localhost:16000/admin\\_console\\_init\\_webstart.jnlp](http://localhost:16000/admin_console_init_webstart.jnlp)

You may be asked to “Trust” the secure certificate provided with the administration console.

## How to Tell if FileMaker Server 9 is Running

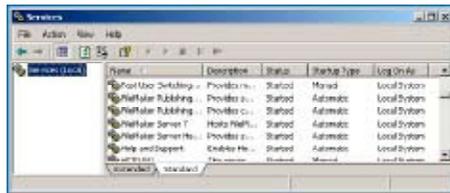
- **Mac OS X** – Open the Activity Monitor (or Process Monitor) from the Applications/Utilities folder. Open the main window and show All Processes using a filter of fm. There should be entries for FM Web Publishing, fmserver\_helperd, and fmserverd.

Figure 1: Activity Monitor



- **Windows** – Open the Services control panel. There should be multiple entries for FileMaker Publishing Engine, FileMaker Server 8, and FileMaker Server Helper. Each of these services should have a status of Started.

Figure 2: Services



## Apache Web Server Won't Start on Mac OS X

The FileMaker Server 9 installer will in some cases not remove the FileMaker Server 7/8 Advanced configuration commands from the Apache Web server configuration file. Follow these steps to modify your configuration file.

Locate the `/etc/httpd/httpd.conf` file and open it in your favorite Web browser. If you have BBEdit type the following command in the Terminal

```
bbedit /etc/httpd/httpd.conf
```

If you don't have BBEdit, you can download a free Text Wrangler editor from Bare Bones Software at <http://www.barebones.com/>. Then type the following command in the Terminal.

```
edit /etc/httpd/httpd.conf
```

Look at the bottom of the file. You should see a set of `FMI_Configuration_V1` lines followed by an `Include` command. The particular lines may vary depending on whether you have enable XSLT, ODBC/JDBC, Instant Web Publishing (IWP), or PHP.

```
#FMI_Configuration_V1
Include '/Library/FileMaker Server/Admin/admin-helper/WEB-INF/conf/fmi-test.conf'
#FMI_Configuration_V1
Include '/Library/FileMaker Server/Admin/admin-helper/WEB-INF/conf/fm-server-status.conf'
#FMI_Configuration_V1
Include '/Library/FileMaker Server/Admin/admin-helper/WEB-INF/conf/mod_jk.conf'
```

If you see the following line, it is a leftover from the FileMaker Server 7/8 Advanced installation. This line must be commented out. Type a # (number sign) at the start of this line to comment it out. You may be asked for an administrator username and password to make this change. Save the file.

```
Include '/Library/FileMaker Server/Web Publishing/web-configuration/WEB-INF/conf/mod_jk.conf'
```

Check your Apache Web Server configuration by typing the following line into the Terminal. You may be prompted for your administrator password for the `sudo` command. The test should report "Syntax OK". If any errors are reported they will need to be corrected before Apache can start.

```
sudo apachectl configtest
```

Now type the following command to actually restart the Apache Web server.

```
sudo apachectl restart
```