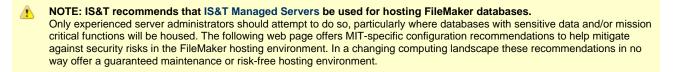
# **FileMaker Server Installation and Configuration**

# FileMaker Server Installation and Configuration



Note: The information on this page is accurate for FileMaker Server 16. Certain settings and features may differ for prior versions.

On this page:

IS&T-Managed FileMaker Hosting Shortlist of Recommended Security Settings Before You Begin Obtaining FileMaker Server Installing and Deploying FileMaker Server Installation Deployment Assistant FileMaker Server Admin Console Accessing the Admin Console Status Pane Admin Console Access Configure Recommended Security Settings Custom SSL Certificates

#### IS&T-Managed FileMaker Hosting

As stated above, IS&T strongly recommends use of its managed FileMaker hosting service. To request or inquire about IS&T-managed FileMaker hosting, fill out this web form. Note that with managed hosting, all recommended best practices are handled for you.

If you have determined that you need to run your own FileMaker Server environment, the following information is provided for your reference.

# Shortlist of Recommended Security Settings

The following is an overview of essential security-related settings. For a full checklist of best practices, refer to Best Practices for FileMaker Hosting at MIT.

- Enable SSL encryption
- Obtain and install a supported custom SSL certificate. For more information and instructions, see FileMaker Server SSL Certificates
- Enable option to host password-protected databases only
- Enable option to list only the databases each user is authorized to access
- · Do not enable web publishing (WebDirect, custom web publishing, or FileMaker Data API) unless you have reason to
- If using web publishing, take active steps to prevent sensitive data from being exposed to the web
- Do not enable ODBC/JDBC access unless you have reason to

Please follow all recommended MIT FileMaker Security Guidelines when setting up your server. In addition, please consult the FileMaker Inc. Security Guidelines for additional considerations for server setup.

# **Before You Begin**

This probably goes without saying, but before you begin you must provision a virtual or physical machine that meets the current minimum specs for FileMaker Server.

To work with FileMaker Server, certain ports must be open and/or available on your server machine in order for FMS to communicate with various types of clients. Port settings should be handled before installing FileMaker Server. For the recommended port settings for FileMaker Server at MIT, see FileMaker Server Port Settings at MIT.

### **Obtaining FileMaker Server**

Starting with version 15, MIT's FileMaker Server licenses are primarily reserved for IS&T's managed FileMaker hosting service, and FileMaker Server is no longer directly available on the IS&T software grid. If you want to run your own FileMaker Server environment, in most cases you will need to purchase your own FileMaker Server license. Education pricing is available. For more information, see FileMaker Server Licensing at MIT

# Installing and Deploying FileMaker Server

#### Installation

Follow standard procedures for initiating the installation process on your server machine. There are a few gotchas of note:

- On Windows, the installer should be extracted to and run from the C:\ root directory.
- When prompted to enter your license information, you must enter the organization name exactly as follows: Massachusetts Institute of Tech
- After installing the software, you may be prompted to register it with FileMaker. Please do not register the software was already
  registered via MIT volume site licensing.

#### **Deployment Assistant**

Once installation is complete, FileMaker Server will automatically launch the Deployment Assistant. Follow the steps outlined below to configure appropriately.

1. In the Setup screen, enter a User Name and Password for accessing the Admin Console, then click **Next**. The user name and password can be changed later through the Admin Console.

Warning: For security reasons, do not use your Kerberos credentials.

oloyment Assistant				
1. Setup	2. Identification	3. Technologies	4. Test	5. Summary
		his account when you log in to the	Admin Console. For details a	bout password strength, see
Password:*				
Confirm Password: *				
Password Strength: Password Hint Provide an optional hint to he contain the password. Password Hint:	Ip you remember the password. I	t should remind you of the passwo	rd but should not give the pas	sword away. The hint canno
Password PIN Create a 4-digit PIN for use ir unless the FileMaker Server a PIN:*		count password via the command I	ine interface. CAUTION: The	PIN cannot be changed
Confirm PIN:*				

 In the Identification screen, enter the Server Name as the fully qualified domain name (FQDN), i.e. <your hostname>.mit.edu. If desired, you can also enter the Server Description and Administrator Contact Information. Then click Next. Note that this information will be visible on the Admin Console Start page.

Server Name: * ist-fmp-test-1.mit.edu	
(remaining characters: 41)	
(remaining characters, 41)	
Server Description	
Users view this description on the Admin Console Start page.	
Server Description: IS&T Test FileMaker Server	
(remaining characters: 174)	
Administrator Contact Information	
Users view this information on the Admin Console Start page.	
Owner: IS&T	
Email: ist-filemaker@mit.edu	
Location: W92	
Phone Number: 617-324-5555	

3. In the Technologies screen, under the ODBC/JDBC heading, unless you plan to allow connections via ODBC so that your hosted solutions may be used as ODBC data sources, select "No, do not enable ODBC/JDBC." You may also opt to enable or disable this feature at a later time as necessary; to do so, in the Admin Console, choose Server > Edit Deployment.

De	ployment Assistant				
	1. Setup	2. Identification	3. Technologies	4. Summary	5. Progress
	ODBC/JDBC				
	ODBC and JDBC are applied database services, including	cation programming interfaces (API: g FileMaker Server.	s) that provide a common langua	ge for interacting with a variety	of data sources and
	Enable ODBC/JDBC on File and modify FileMaker data.	eMaker Server if you want to use ot	her applications (like spreadshee	ets, word processors, and repor	ting tools) to view, analyze,
	Do you want to enable ODE O Yes, enable ODBC/JDB No, do not enable ODBC	C			
	Web Publishing				
	Web publishing allows you browser.	to publish databases on the interne	t or an intranet. Enable web publ	ishing if you want to make File!	Aaker data available in a web
		ate is required to access web public supported by FileMaker and install		and trusted connection. Obtain	a custom certificate from
	Do you want to enable web				
	<ul> <li>Yes, enable web publish</li> <li>No, do not enable web publish</li> </ul>	-			
				Cancel	Back Next Finish
				caller	

4. Still in the Technologies screen, under the Web Publishing heading, unless you plan to allow web connections to your files (via the FileMaker Data API, WebDirect, or custom web publishing), select "No, do not enable web publishing." You may also opt to enable or disable this feature at a later time as necessary; to do so, in the Admin Console, choose Server > Edit Deployment. Note: FileMaker Server requires a web server in all deployments; the web server hosts the web-based Admin Console application and handles certain data transfer tasks. Turning web services on, which the installation process does for you, is not the same thing as enabling FileMaker web publishing.

Important: If you choose to utilize Web Publishing, only non-sensitive data should be accessible to web users. If your database(s)

contain sensitive data, take active steps to prevent sensitive data from being exposed to the web. Please consult the MIT FileMaker Security Guidelines.

- 5. Click Next to proceed to the Summary screen.
- 6. Click Next to finally run the FileMaker Server deployment using your desired settings.

1. Setup	2. Identification	3. Technologies	4. Summary	5. Progress
eployment Summary				
NAME			VALUE	
Admin Console User Nam	e		dcad	
FileMaker Server Name			dcad-fmp-test-1.	mit.edu
ODBC/JDBC			Disabled	
Web Server			Disabled	
FileMaker WebDirect			Disabled	
FileMaker Data API (Trial)	, expires on September 27, 2018		Disabled	
XML			Disabled	
PHP			Disabled	
Web Publishing			Disabled	

7. Click Finish to exit the Deployment Assistant and continue to the Admin Console.

1. Setup	2. Identification	3. Technologies	4. Test	5. Summary	6. Progress
Please wait while File	Maker Server is deployed ar	nd configured. When deployme	ent completes, click Fini	sh to continue.	
eployment Results					
NAME				VALUE	
SETUP: PRECONF	IGURE WEB SERVER				
Create IIS backup				succeeded	^
Check to make sure	FMI web site exists			succeeded	
Create app fmi-test				succeeded	
START DEPLOYME	INT				
Step 1: Save setting	S:				
Save administrative	configuration settings			succeeded	
Step 2: Configure W	eb Publishing Engine (WPE)	C.			
Stop WPE				succeeded	
Configuring JWPC n	nemory			succeeded	
Set WPE AutoStart	to enabled			succeeded	
Add JVM Route to J	WPC Server XML file			succeeded	
Create CWPC prefs	file			succeeded	
Update JWPC prefs	file			succeeded	
Start WPE				succeeded	
Update WPE deploy	ment configuration			succeeded	
Update mDNS servi	ce info			succeeded	

# FileMaker Server Admin Console

#### Accessing the Admin Console

Once FileMaker Server has been installed and deployed, the Admin Console may be accessed by pointing a browser to:

https://<hostname>.mit.edu:16000

#### **Status Pane**

After authenticating to the Admin Console, you will land on the Status pane. This provides an overview of your FileMaker Server's activities and health.

**Note:** The Status pane will only display the sections for FileMaker Data API, Web Publishing Engine, and ODBC/JDBC if you elected to enable those functions in the Deployment Assistant. You may revisit these settings in the Admin Console by choosing Server > Edit Deployment. If you do make changes to these settings, you will need to stop and restart FileMaker Server for them to take effect.

Status ?			
FileMaker Server 16 IP Addresses FileMaker Host Name Admin Server Started Server Version	18.7.88.46 ist-fmp-tes 6/15/17 12 16.0.1.184	st-1.mit.edu 2:07 PM	
DATE	TYPE	DESCRIPTION SECURITY: The default SSL certificate is being used; for better security, import a valid custom S	SL certificate
0 Total User Connections cli	ents conne	cted	\$
0 FileMaker Pro 0 FileMaker Go 0 FileMaker WebDirec 1 User Connections client lin 1 Remaining User Connection	mit ons clients		
0 Additional FileMaker Pro a 0 Custom Web Publishing c 3 Databases hosted out of t 1 Schedule is currently enab	onnections otal 3		\$ \$
FileMaker Data API 0 FileMaker Data API conne	ctions curr	ently open	\$
Web Publishing Engine Worker Machine: 1 IP Addresses	e 18.7.88.	46	
Host Name Number of Connections 0 FileMaker WebDirect conr FileMaker WebDirect is enal	0 lections cu	p-test-1.mit.edu	¢
ODBC/JDBC     OXDBC connections current	tly open		\$

#### Admin Console Access

In addition to the User Name and Password set via the Deployment Assistant for accessing the Admin Console, you may allow access via an external server group. This is defined on the Admin Console > General Settings pane > Admin Console tab > External Group section. For information on how to use this to enable Kerberos-based authentication to the Admin Console, refer to Configuring FileMaker Server for Kerberos Authentication.

You may also limit access to the Admin Console by IP address; this is done on the same tab in the Restrict Access section.

Restrict Access         testrict Admin Console access either to the current machine or to specific IP addresses. Note: Access from the Master machine is always permitted.         then entering multiple addresses, use comma ( , ) to separate the addresses.         then entering multiple addresses, use comma ( , ) to separate the addresses.         the entering multiple addresses, use comma ( , ) to separate the addresses.         the entering multiple addresses;         the entering multiple addresses:         Authentication         thange the user name or password of the Admin Console account.         thin Console User Name:       admin <b>External Group</b> the addresses by the master machine in the FileMaker Server deployment.         tig group must be defined on or accessible by the master machine in the FileMaker Server deployment.         tig coup	anyer Information	-						
tericit Admin Console access either to the current machine or to specific IP addresses. Note: Access from the Master machine is always permitted. the entering multiple addresses, use comma (, ) to separate the addresses.	erver information	Email Notifications	Admin Console	Startup	ODBC/JDBC	Administrator Groups	Connections	
when entering multiple addresses, use comma (, ) to separate the addresses.   pecify IP Addresses:	Restrict Acces	is						
then entering multiple addresses, use comma ( , ) to separate the addresses.   pecify IP Addresses:   Authentication   hange the user name or password of the Admin Console account.   dmin Console User Name:   addition to authenticating with the Admin Console account, allow Admin Console users to login with accounts that are members of the external group   addition to authenticating with the Admin Console account, allow Admin Console users to login with accounts that are members of the external group   pecify External Group:   addition to authenticating with the Admin Console account, allow Admin Console users to login with accounts that are members of the external group pecify External Group:   addition to authenticating output the master machine in the FileMaker Server deployment.   Test External Group:   addition to authentications   Test External Group:   addition to authenticating with the Admin Console account, allow Admin Console users to login with accounts that are members of the external group pecify External Group:   addition to authenticating with the Admin Console account allow Admin Console users to login with accounts that are members of the external group   pecify External Group:   Administrators Test External Group:  Administrators	estrict Admin Con	cole access either to t	he current machine	or to sne	cific IP addresse	s Note: Access from the	Master machine	is always nermitted
appecify IP Addresses:  Authentication  Authentication  Authentication  Change User Name: admin  Change User Name: admin  External Group  addition to authenticating with the Admin Console account, allow Admin Console users to login with accounts that are members of the external group  appecify External Group:  Administrators  Test External Group  Check for Updates  Change Users  Check for updates.  Change User Server to check for updates  Change Server to check for updates  Change Server to check for updates						5. Note: Notes5 Notificitie	master maenine	is aways permitted.
specify IP Addresses:          Authentication         Change the user name or password of the Admin Console account.         wdmin Console User Name:       admin         Change User Name:       admin         External Group       Change User Name/Password         n addition to authenticating with the Admin Console account, allow Admin Console users to login with accounts that are members of the external group         is group must be defined on or accessible by the master machine in the FileMaker Server deployment.         I Use external group         Specify External Group:         Administrators         Test External Group         Ou can enable checking for updates.         I nable FileMaker Server to check for updates								
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	— Check for Upd							Test External Group
Revert	Check for Upd	cking for updates.						Test External Group
Revert	Check for Upd	cking for updates.	or updates					Test External Group
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	Check for Upd	cking for updates.	or updates					Test External Group

# **Configure Recommended Security Settings**

- 1. In the Admin Console, navigate to the Database Server pane > Security tab.
- If you intend to use external authentication, including Kerberos-based authentication, as a means to access any of the databases hosted on your server, set Client Authentication to "FileMaker and external server accounts;" otherwise set to "FileMaker accounts only." For more information on external authentication and setting up Kerberos-based authentication for your hosted database(s), see FileMaker Authentication.

tabase Server	?							
FileMaker Clients	Databases	Security	Folders	Logging	Server Plug-Ins	Directory Service		
Client Auther Specify how FileM FileMaker and	aker Server au			clients.				
Amazon							\$	
Google							ø	

3. Enable SSL encryption. Under SSL Connections, check the boxes for "Use SSL for database connections," and under HTTP Strict Transport Security (HSTS), check the box for "Use HSTS for web clients."

Note: After SSL encryption has been enabled, you must stop and restart FileMaker Server in order for it to take effect.

	Databases	Security	Folders	Logging	Server Plug-Ins	Directory Service	e	
Client Auther	ntication							
Specify how FileM	aker Server au	uthenticates	FileMaker	r clients.				
FileMaker acc	ounts only		\$					
File Display	Filter							
Filter the list of dat	tabases in the	Launch Cer	nter, based	on the File	Maker client accou	int name and pass	word.	
List only the	databases ea	ch user is a	uthorized t	to access				
SSL Connect	tions							
					FileMaker Server sses (macOS) to ap		, Go, and WebDirect. Re	estart the FileMaker
			rei backyit		5565 (macOO) to a	pry a change to th	is setting.	
Use SSL for								
					a custom SSL cert		est purposes only. ficate Authority (CA) sup	ported by FileMake
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A custom SSL o	certificate is rec	quired for p	roduction L	use. Obtain	a custom SSL cert	ificate from a <u>Certii</u>		
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- 4. Important: SSL encryption can be regarded as truly secure (as indicated by the green lock icon displayed in FM clients) only when a custom SSL certificate is obtained and installed; see below for more info.
- 5. Enable the option to "Host password-protected databases only." This will preclude the unintentional hosting of files without passwords. Note: By default, newly created FileMaker files have a full-access Admin user account with no password set, and are set to auto-login with this account. As best practice, the Admin account should either be assigned a secure password, or disabled (provided another full-access account exists or is created).

#### **Custom SSL Certificates**

SSL allows for the encryption of data passed between FileMaker Server and FileMaker clients, as well as the Admin Console. A critical component of this function is the SSL certificate residing on the server. The FileMaker Server application ships with a self-signed SSL certificate that does not verify the server name. This default certificate is intended only for test purposes, and a custom SSL certificate is required for production use. See FileMaker Server SSL Certificates for instructions on requesting and installing custom SSL certificates for use with FileMaker Server.

# **Other Tasks**

For more instructions on how to upload your databases and create scheduled tasks to back them up, see Chapter 5 of the FileMaker Server 16 Installation and Configuration Guide (PDF).

Important: FileMaker Server's backup feature creates a local copy of your databases, stored on the host machine. You should still use another mechanism, such as TSM, to back up those saved files to another secure location, in case of system failure.