Matisse[®] Installation Guide for Solaris

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MATISSE Installation Guide for Solaris

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Installing Matisse on Solaris

Matisse is now available for Solaris 10 32-bit and 64-bit operating systems on Sun SPARC machines and on machines running x86 (32-bit) and x86_64 (64-bit) chips.

System Requirements

Before installing Matisse on Solaris, check to see that your system meets the following requirements:

SPARC 32-Bit Kernel	 Solaris 10 or higher.
	◆ At least 128 MB of RAM
	 At least 100 MB of disk space for Matisse (the server, the client, and the development kit)
SPARC 64-Bit Kernel	 Solaris 10 or higher
	◆ At least 256MB of RAM
	 At least 100 MB of disk space for Matisse (the server, the client, and the development kit)
x86 32-Bit Kernel	 Solaris 10 or higher.
	 At least 128 MB of RAM
	 At least 100 MB of disk space for Matisse (the server, the client, and the development kit)
x86 64-Bit Kernel	 Solaris 10 or higher
	◆ At least 256MB of RAM
	 At least 100 MB of disk space for Matisse (the server, the client, and the development kit)

Initial Installation of Matisse

CAUTION: You must log in as root to complete the installation successfully.

Installing Matisse from the Web	After downloading the installation file from the Web, you must first uncompress and untar the file before running the pkgadd utility to begin installation of the Matisse modules:	
	Run the commands:	
	gzip -d <i>matisse_download</i> .tar.gz	
	tar xvf <i>matisse_download</i> .tar	
Using the pkgadd	To begin the installation of the Matisse modules, run the pkgadd command in the directory where you expanded the matisse download.	
Command	# pkgadd -d .	
	The following packages are available:	
	1 MCLIRT9 Matisse Client Runtime Environment 9.x	
	(sparc) 9_x_x	
	2 MODBC9 Matisse ODBC driver 9.x	
	(sparc) 9_x_x	
	3 MSDK9 Matisse Development Kit 9.x	
	(sparc) 9_x_x	
	4 MSRVRT9 Matisse Server Runtime Environment 9.x	
	(sparc) 9_x_x	
	Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]:	
	For a full installation, just type Enter.	
	Messages indicating the progress of the installation appear and some questions are asked. Follow the setup instructions to complete the installation for each module.	
Installing the Matisse Port- Monitor	Matisse handles client-server communications through a port-monitor. (See also <i>Matisse Server Administration Guide</i> .) The Matisse port-monitor is necessary for every communication transport layer. You may choose during the installation to update your system configuration to start it automatically upon reboot of the host machine.	
Automatic Database Restart	If you are installing the server module for the first time using the pkgadd utility, the installation script displays the following message before installing the module:	
	You can automatically restart the database upon system reboot and stop the database upon system shutdown. When the system shuts down, the database is stopped. This script creates scripts in /etc and /etc/init.d.	

	Do you want to proceed [y,n,?,q]
	If you type y and press Return, the following messages are displayed:
	See the files /opt/matisse9_x/sys/mt_boot and /opt/matisse9_x/sys/mt_stop to proceed.
	The installation is now complete. There are some additional tasks to perform before using Matisse which are covered in the following section.
Additional Installation Tasks	Before running Matisse, make sure your PATH and other environment variables are set properly. In the top directory of your Matisse installation you will find the file mt_env, which contains environment variable definitions for MATISSE_HOME, MATISSE_CFG, and MATISSE_LOG (See also <u>Matisse Server</u> <u>Administration Guide</u> .)
	In the same directory, you will also find mt_boot and mt_stop, which you may use as templates to create scripts to start and stop Matisse databases automatically on system startup and shutdown.
Manually Installing a Port- Monitor	If you skipped the part related to the port-monitor during the installation process, you can manually create one by doing the following while logged in with root privileges. Before starting a database, allocate a port to the Matisse port-monitor service.
	 Edit /etc/services system file and add the following line: mtportmon 7421/tcp
	2. Start the port-monitor using the following command:
	mt_pmadm -s -p mttcp -t tcp
	3. Use mt_pmadm -p mttcp -L to check for the port monitor status. You can also check that the port monitor has a currently active connection with the netstat -a command. The port-monitor log in the MATISSE_LOG directory should contain the following trace:
	17:34:27 MATISSE Portmon Version 9.x.x
	17:34:27 PORTMON-I-ISTATE, Initial state: enabled
After the installation	At this stage, you do not need to be logged as root. Verify that you have the Java Runtime Environment installed on your machine. For instance:
	> which java
	/opt/jdk1.7.0_02/bin/java
	Set the proper environment variable to run Matisse. You may execute one of the following environment setup scripts depending on your shell:

```
> source <install_dir>/mt_env.sh(sh, bash, ksh shells)
> source <install dir>/mt env.csh(csh, tcsh shells)
```

Then you can launch the Matisse Enterprise Manager to create or start your databases:

```
> mt emgr &
```

Open the file readme.html located in /opt/matisse9_x/ for a quick start with using Matisse.

Installation Notes

Compatibility:

Matisse 9.0 client/server dialog is incompatible with all platforms running previous versions of Matisse. Therefore, you should ensure that your client applications are linked with the latest 9.0 client library.

Troubleshooting:

For troubleshooting, or for a more detailed description of the installation process, please refer to the last section of this document.

Problems/feedback:

Please report any problem or feedback to our support at support@matisse.com via our feedback page at <u>www.matisse.com</u>.

Installing the Matisse ODBC Driver

The Matisse ODBC driver included with the standard Matisse installation currently supports both the INTERSOLV Solaris Driver Manager and the Open Source iODBC Driver Manager, with ODBC 2.0 API functions.

Setting Up First, either the INTERSOLV or the iODBC driver manager must be installed, and the path for the driver manager must be in the LD_LIBRARY_PATH of the shell configure file.

Check to see if the Intersolv ODBC driver manager was installed by default on your Solaris machine. The default installation directory is /opt/ISLIOdbc. If not, you can install the Intersolv driver manager from the software supplement CD of the Solaris desktop version.

You can also visit the iODBC website (at www.iodbc.org) and download the source for the iODBC open source ODBC driver manager, and compile it on your machine. It only takes a few minutes to configure and install.

Since the default installation directory of the Intersolv driver manager is /opt/ISLIodbc, and the driver manager library is in /opt/ISLIodbc/lib, in your shell configuration file (.cshrc or .bashrc for example) add the following to your LD_LIBRARY_PATH:

>LD LIBRARY PATH=\${LD LIBRARY PATH}:/opt/ISLIodbc/lib

The corresponding addition for the iODBC driver manager would be:

>LD_LIBRARY_PATH=\${LD_LIBRARY_PATH}:/usr/local/iodbc/lib

In your home directory you need to write a file called .odbc.ini that has the information needed by the driver manager and the driver itself when connecting to a database. A sample .odbc.ini is provided in the /bin directory of your Matisse installation.

In the following example, Matisse is installed in the default directory /opt/matisse9_x, so the ODBC driver library (libmatisseODBC.so.9) would be in the /opt/matisse9_x/lib/ directory. For instance, if the database name is accounts, and the host computer is cornsilk, the format of the .odbc.ini file needs to be as follows:

```
# Indentifier for connection information to a specific
# database - a DSN or data source name
[ODBC Data Sources]
matissedsn=MATISSE DATABASE
```

```
[matissedsn]
Driver=/opt/matisse9_x/lib/libmatisseODBC.so.x
Database=accounts
HostName=cornsillk
```

Testing the mt_odbc Utility

To run the program mt_odbc, enter:

>mt odbc <data source name>

In the.odbc.ini file described previously, the data source name is matissedsn, so the command would be:

>mt odbc matissedsn

Then, you may run any SQL queries. For instance, to list the classes in your database:

mt_odbc> SELECT MtName from MtClass; Enter help for a guide to Matisse SQL syntax.

After You Have Installed Matisse

After you have installed Matisse, please read *Getting Started with Matisse*. You can find this and other Matisse documentation on the Matisse Software Web site:

http://www.matisse.com/developers/documentation/

Upgrading Matisse

To upgrade to a new Matisse version, previous versions of the Matisse modules must first be removed.

To remove previous modules:

- 1. Login as root and run the pkgrm command.
- 2. Remove all the Matisse modules that are listed.
- 3. Refer to Initial Installation of Matisse above to install the new version.

Upgrading the Port-Monitor

If Matisse was previously installed, you will need to upgrade to the newer version of the port-monitor:

 If you were running a Matisse Release 7.x, you must manually stop the old port-monitor before upgrading to the new one.

Before stopping the port-monitor, you must shutdown all databases.

1. To stop the port-monitor, run the following command:

mt_pmadm -k -p mttcp

- 2. After the port-monitor has been stopped, delete all files that end with .pipe or .tab from the MATISSE_CFG directory. You may also remove all files from the MATISSE_LOG directory.
- **3.** Add the new port-monitor either through the installation script or as described above in *Additional Installation Tasks*.

Troubleshooting your Matisse Installation

After following the standard Matisse installation procedure you should be able to run Matisse. In particular, the Matisse Port Monitor is automatically started by the installer, and set to be stopped and restarted during shutdown/reboot. It is also automatically stopped and removed by the uninstaller.

You may check the following guidelines if you experience any problem or if you want more control over the port monitor.

Install Directory	The commands mt_env.sh and mt_env.csh will set the MATISSE_HOME, MATISSE_CFG, MATISSE_LOG environment variables to <install_dir>. These variable should point to local filesystem paths.</install_dir>
	If <install_dir> is a NFS directory, you will have to define new values to the MATISSE_HOME, MATISSE_CFG, MATISSE_LOG environment variables.</install_dir>
	You may also verify that the matisse executables have write permission in the log directory and in the config directory.
	<pre>> chmod a+w <install_dir>/log > chmod a+w <install_dir>/config</install_dir></install_dir></pre>
Enterprise Manager	The Matisse Enterprise Manager is a Java application which requires Java 7 or higher to be installed and accessible on the machine. The commands <code>mt_env.sh</code> and <code>mt_env.csh</code> will set the path to the JVM whenever possible.
Remote Server Access	If you cannot connect to a remote database server because of errors such as INVTRANSPORT or SRVCONFAILED while you can establish local connections without any problem, you may need to double check your firewall settings. Please refer to the <u>Matisse[®] Server Administration Guide</u> for more details on updating your firewall settings.