

MESA Software

Installation Guide VMware Option

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Contents

1	Introduction.....	2
1.1	VM Image.....	2
1.2	Login Information	2
1.3	Target Directory	3
1.4	Storage Directory.....	3
2	Runtime Notes	4
3	You are Ready	5

1 Introduction

This document describes the installation procedure for IHE Test Software using a VMware virtual machine image.

1.1 VM Image

The VM Image is stored in a zip file with other files needed to import the virtual machine into your VMware infrastructure. We support VMware directly not other hypervisors. You are expected to have expertise with VMware and appropriate tools. We cannot provide better documentation than the VMware group.

The VM Image is found on the ihedoc web page as one of the binary installation files. The zip file (Oct, 2011) is approximately 3 GB, so the download will take some time.

Download the VMware zip file and extract all of the files from the zip. Delete the original zip file as it will just be taking up space.

Use your VMware tools to import the .ovf file that is included in the zip. It will reference the other files needed to complete the system. \

You may need to adjust the network settings during the import. The network is configured for a WUSTL network, but does use DHCP. Use DHCP or a fixed IP address as appropriate for your organization. You will need to login to change the network settings (see next section).

1.2 Login Information

The Ubuntu virtual system is configured with two accounts of interest. The ihe account is a privileged account that can perform operations using the sudo command. You can also use the entries from the administrative menu once logged in. The second account of interest is the root account.

Login	Password
ihe	BK94\$!#f
root	BK94\$!#f

Login using the ihe account. It is configured to use the bash shell and has environment variables used by the test software in the .bashrc file. It has the same environment variables defined in the .cshrc file because many of the test scripts use the csh directly. If you need to move the software or change your shell, be sure to set the proper environment variables.

1.3 Target Directory

MESA is designed to be installed in a target directory specified at build time. We use the environment variable MESA_TARGET for this directory; the default value is */opt/mesa* for Unix systems. Once the installation procedure is complete, all software depends only on executables, configuration files, data files in the target directory and files in the storage directory (see 1.2).

The target directory contains these subdirectories:

bin	The compiled executable programs
db	Files for controlling database operations
lib	Shared libraries loaded at runtime
logs	Logfiles for all MESA server applications
runtime	Configuration files for applications
mesa_tests	Scripts/data for test protocol
storage	The folder with input data files and output storage data for some server applications.
webmesa	A holding directory used for the second stage of the installation process.

Some parts of the MESA software are designed for installation with the Jakarta Tomcat web server. You will find those files in */opt/tomcat*.

1.4 Storage Directory

The MESA storage directory is used to store messages and datasets received from peer applications. For example, the MESA Image Manager will store images received from modalities in this directory. The default for this is */opt/mesa/storage*.

The location of this directory is recorded in the environment variable MESA_STORAGE. We separate this from the target directory to give you more control over disk partitions on your system.

2 Runtime Notes

There are environment variables that need to be set when you run the test scripts. These are discussed in previous sections of the document and listed again in the table below. Note that these are for the account that runs the test scripts (ihe), not the postgres account.

Variable	Value
MESA_TARGET	/opt/mesa (or another value of your choosing)
MESA_STORAGE	/opt/mesa/storage (or another value of your choosing)
PGUSER	postgres
PATH	should include \$MESA_TARGET/bin and the path to perl
LD_LIBRARY_PATH	should include \$MESA_TARGET/lib
JAVA_HOME	/usr/local/java/jdk_1.5 (or some value of your choosing)
JAVA_HOME	Same value as JDK_ROOT
JAR_DIRECTORY	/opt/mesa/lib (\$MESA_TARGET)/lib
MESA_OS	One of SOLARIS, LINUX (check with Project Manager for other values)

3 You are Ready

Once you have installed the VM image, you should be ready to start testing using the tools. Refer to the test documentation for instructions on running each test.