Installation Guide

Orange HRM

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About this document

The purpose of this hSenid document is to provide steps on installing the Orange HRM system.

The intended audience for this document are Administrators.

The document is divided into the following chapters:

Chapter	Description
Overview	Overview of Orange HRM
System Requirements	This chapter provides the system requirements to run the system.
Installation steps for Linux	Step-by-step instructions on installing the Orange HRM in a Linux OS environment.
Installation steps for Windows	Step-by-step instructions on installing the Orange HRM in a Windows OS environment.
Installation of Apache, PHP & MySQL in Windows	Step-by-step instructions on installing Apache, PHP and MSQL in Windows OS environment.

Conventions used in this document

We use the following text formatting conventions:

italic

Used for document titles, emphasis, and for email addresses, web URLs and file and directory names.

Bold

Used for emphasis and for the command options you select.

`Letter gothic`

Used for literal code, such as configuration files, Java class names, method names and API calls.

`Letter gothic italic`

Used for arguments and parameters that will be replaced with an actual value.

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Chapter 1

1 Overview

The Orange HRM is comprehensive solution for the efficient management and development of your Human Resource. It facilitates a vast range of HR activities, with features that reflect the main HR management activities. It is a web-enabled application and considering the available flexibility, OrangeHRM is a perfect platform for reengineering your HR processes and achieving a new level of HR Management. The system consists of the following modules.

- Admin Module

  The admin module is basically used to input the various data/elements related to the organization structure and the information that is to be assigned to the employees such as their designations, job specifications, etc.

- PIM Module

  The PIM module is used to maintain information of employees. Data entered through the Admin Module is used here to maintain employee information. Employee information comprises of information such as employee Information, qualifications & work experience, job Specification & remuneration details etc.

- Maintenance Module

  This module will be used to handle the maintenance tasks of Orange HRM system. Tasks such as user management, granting access rights, version history etc can be carried out using the Maintenance module.

- BUG Tracker

  In the event of any bugs being encountered while using the system, these bugs could be immediately reported on-line using the Bug Tracker module which would be useful for fixing them.

Chapter 2

2 System Requirements

2.1 Hardware Requirements

The following are the minimum hardware requirements needed to be able to use this system.

Component	Requirements
Processor	Intel x86 Architecture processor
Memory	512MB RAM
Disk space	40GB Hard Disk

2.2 Software Requirements

OS as any of the following options

- Linux 8 or above / Fedora 4 or above
- Windows 2000 or above

In addition to

- MySQL 4.1 or later
- Apache HTTP Server ver 1.3 or later
- PHP ver 4.3.0

NOTE: The users of the system require a java script enabled browser.
 Eg : (Mozilla FireFox or Internet Explorer)

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The installation steps begin assuming the hardware/software requirements are met and a properly configured PHP/Apache/MySQL system is available, that is;

- An existing MySQL server (ver 4.1 or later) existing as a local host or as a remote server linked with the application hosting machine with a user account with privileges to create user accounts, databases, tables, etc.

- Apache HTTP server (ver 1.3 or later)

- PHP (ver 4.3.0, later versions supported but not tested) should be installed with all PHP plugins running as Apache modules and not as a CGI interpreter.

The Orange HRM can be accessed by typing the following URL in the format as the following example,

http://<*localhost*>.orangeeim/login.php

NOTE: The URL may vary depending on the way it is implemented.

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Chapter 3

3 Installation steps for Linux

1. Retrieve the PHP source of OrangeHRM onto the directory that is configured as *Apache Server htdocs* directory; ex:

   ```
   /var/html/orangehrm/
   ```

2. Change the owner and group of the source directory (and all files and sub-directories within it) to apache. ex:

   ```
   /var/html/orangehrm/
   ```

3. In the MySQL server create a user account with all privileges.

NOTE: please note down the username and password as it is required to configure the application to give it access to the database in step (5).

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4. Create the database using the script *dbscript.sql* residing in *orangehrm/dbscript* directory.

5. The application should be configured to give the authentication information it requires to access MySQL server. To do this, edit the file *orangehrm/lib/Confs/Conf.php* and as set the following parameters :

```
$this->dbhost = '<IP address of MySQL server>';
$this->dbport  = '<port no, of MySQL server>';
$this->dbuser = '<username>';        the user name of the account you created
$this->dbpass = '<password>';        the user name of the account you created

$this->smtphost = '<SMTP server DNS or IP address>';  the DNS or IP address

$this->smtphost = '<SMTP server DNS or IP address>';  the DNS or IP address
```

6. Start or restart Apache server

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Chapter 4

4 Installation steps for Windows

1. Extract the PHP source of OrangeHRM onto the directory that is configured as Apache Server htdocs directory;

   ex:

   c:\Apache\htdocs\orangehrm

2. In the MySQL server create a user account with all privileges.

> **NOTE:** please note down the username and password since as it will be required to configure the application to give it access to the database in step (4).

3. Create the database using the script *dbscript.sql* residing in *orangehrm\dbscript* directory.

4. The application should be configured to give the authentication information it requires to access the MySQL server. To do this, edit the file and set the following parameters;

   orangehrm/lib/Confs/Conf.php

```
$this->dbhost = '<IP address of MySQL server>';
$this->dbport = '<port no, of MySQL server>';
$this->dbuser = '<username>';    the user name of the account you created
$this->dbpass = '<password>';    the user name of the account you created

$this->smtphost = '<SMTP server DNS or IP address>'; the DNS or IP address

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```

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Chapter 5

5 Installation of Apache, PHP & MySQL in Windows

First you need to download the following

- Apache HTTP Server
- PHP4 Windows package
- MySQL server

Following are the version requirements:

Apache HTTP Server ver 1.33 or later

PHP Windows package ver 4.3.0 or later

MySQL Server ver 4.1 or later

> **Note:** Download PHP4 complete ZIP package from
> http://www.php.net/downloads.php, usually it comes in the form of php-4.x.x-Win32.zip. (do not use the widows installer package since it only contains the CGI interpreter, and contains no extensions)

5.1 Install Apache HTTP Server

1. Accept the license agreement and press next
2. Press next again after reading about Apache HTTP Server
3. When prompted for details about Network Domain, Server Name, etc., use the following values

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Network Domain:	localhost
Server Name:	localhost
Admin. Email:	*<your Email-id>*

4. Press next. If you are installing Apache HTTP server 2 then select Install Apache HTTP Server 2.0 as a Service

5. Choose custom installation and change path of apache to directory *c:\apache*

6. Install server

Note: In case you use any ewall software, please make sure the you give (allow) access to Apache HTTP server.

5.2 Installing PHP

1. Unzip the PHP4 package you downloaded into directory *c:\php*

2. *O*pen the file in the apache installation directory

    c:\apache\Apache\conf\httpd.conf

3. Search for keyword **DocumentRoot,** this is used to point the server where to look for OrangeHRM source files. Therefore it shall be set to folder that contains the source files. Therefore make sure it is of the format as follows :

    DocumentRoot "c:/apache/Apache/htdocs/"

Note: Te path should be specified using forward slashes instead of black slashes as in windows paths

4. Go to the area where the LoadModule tags are defined. In the list there should be a line that reads as

    ```
    #LoadModule rewrite_module modules/mod_rewrite.so
    ```
    Remove the leading '#' char to make the line active

5. Go to the end of LoadModule section.

- If you are using Apache HTTP server   ver 1.3.xx then add the line :

    ```
    LoadModule php4_module "c:/php/sapi/php4apache.dll"
    ```

    At the end of AddModule section add the line

    ```
    AddModule mod_php4.c
    ```

- If you are using Apache HTTP server ver 2.0.xx add line

    ```
    LoadModule php4_module  "c:/php/sapi/php4apache2.dll"
    ```

    At the end of AddType section add the line

    ```
    AddType application/x-httpd-php .php
    ```

6. Now to set the starting page of OrangeHRM as login.php, search for **DirectoryIndex** and alter it so that *login.php* is nearest to DirectoryIndex on line : *DirectoryIndex login.php index.htm ....*

7. Save and close httpd.conf

8. Now go to *c:\php\ directory and open file c:\php\php.ini*

Note: if the *php.ini* file does not exist then rename the exisiting file *php.ini-dist* as *php.ini* and open it

---

9. Find the following key-words in it and change them if required

    ```
    rror_reporting = E_ALL
    isplay_errors = On
    xtesion_dir = "c:\php\extensions"
    ```

10. Save and close *php.ini*

---

11. Now copy the files below;

- copy all files in directory c:\php\dlls into c:\windows\system32
- copy file c:\php\php4ts.dll into c:\windows\system32
- copy file php.ini into both c:\windows\system32 and c:\windows\

12. Restart Windows

5.3 Installing MySQL server

1. Double-click the setup.exe file to start the installation.The Setup Wizard panel is displayed. Click Next.

2. Select Custom Install and click Next.

3. Expand the Developer Components and select "Scripts,Examples" to run from your hard drive, as shown change installation directory to *C:\MySQL.*

   Click Next.

4. When asked to signup for MySql.com account select skip sign-up, press Next.The installation setup wizard is complete, leave the checkmark next to the field - Configure the MySQL Server now.

5. Click Finish.

6. Click Next to begin the configuration process, accept the default value of Detailed Configuration for the configuration type and click Next.

7. Select Sever Machine for the server type and click Next.

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8. Select Transactional Database Only for the database usage and click Next.

9. For the InnoDB Tablespace Settings, select MySQL Datafiles from the dropdown list Click Next.

10. Select Manual Setting for the number of concurrent connections. Set this value to 5 (depending on number clients using the application) Click Next.

11. Accept the default value of Enable TCP/IP Networking for the networking options and click Next.

12. Accept the default value of Standard Character Set for the default character set and click Next.

13. Accept the default value of Install as Windows Service for the Windows. You may explicitly identify which version of MySQL is running (you need not worry if you are having only single MySQL server check the box to Include Bin Directory in Windows. Click Next.

14. Always select a new root password when you install MySQL for the first time. That is because MySQL normally has no password in Windows which allows anyone to access the database. Make sure you remember what the password is. Remove the check mark next to the Anonymous Account, click Next.

15. All of the information required by the configuration wizard is complete, click the Execute button to begin the actual configuration. After all the status messages are issued, click the Finish button.

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