

Kryptronic Software Installation README

This document outlines installation instructions for Kryptronic Software. The Kryptronic Hybrid X Core (KHXC) and all Kryptronic software is copyrighted, trademarked, developed and licensed by Kryptronic, Inc. All Kryptronic software is distributed under license.

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SOFTWARE REQUIREMENTS

The following requirements must be met by the webserver on which you intend to run the software. The software codebase, as well as the installer program, checks these requirements to ensure the software is operating in an environment which can support it.

The software requirements listed below are met by nearly 98% of all Internet hosting accounts on a variety of operating systems including: Unix, Linux, Mac OS X (BSD Unix) and Windows. The software has been fully tested under RedHat Linux, FreeBSD, Sun Solaris, Cobalt RAQ, Mac OS X and Microsoft Windows 2000, 2003, NT and XP. The software has been fully tested with the following webserver software: Apache, Microsoft IIS, Zeus and SunONE (Netscape). The software has been fully tested with the following database software: MySQL, PostgreSQL, SQLite and Microsoft SQL Server.

1. PHP Version: PHP 4.3.0 or newer.
2. The PHP INI value for 'safe_mode' must be 'Off'. The software attempts to set this value to 'Off' if 'safe_mode' is set to 'On' when the script executes. An error will be presented if the software is unable to dynamically change this value.
3. The PHP INI value for 'magic_quotes_runtime' must be 'Off'. The software attempts to set this value to 'Off' if 'magic_quotes_runtime' is set to 'On' when the script executes. An error will be presented if the software is unable to dynamically change this value.
4. The PHP INI value for 'file_uploads' must be 'On'. The software attempts to set this value to 'On' if 'file_uploads' is set to 'Off' when the script executes. An error will be presented if the software is unable to dynamically change this value.
5. The PHP INI value for 'upload_tmp_dir' must be set to a directory that exists on the webserver and is writable by the webserver process, or the PHP INI value for 'upload_tmp_dir' must not be set and the operating system's default temp directory must be writable by the webserver process.
6. The PHP cURL extension must be loaded. The software attempts to dynamically load the cURL extension if it is not loaded when the script executes. An error will be presented if the software is unable to dynamically load the cURL extension.
7. A relational database management system (RDBMS) account. The software stores information in an RDBMS to allow quick and secure access to data. This account must be set up with the following permissions: CREATE, DROP, ALTER, INSERT, UPDATE, DELETE and SELECT. The following relational database systems are supported by the software: MySQL, PostgreSQL, SQLite and Microsoft SQL Server.

8. The ability to send Internet email via SMTP or the sendmail executable. The software requires SMTP server access in order to send Internet email via SMTP. The software requires sendmail to be located on the webserver and accessible by your webserver account to send Internet email via sendmail.

98% of all Internet hosting accounts meet the above requirements. If your server does not meet these minimum requirements, speak to your server administrator and ask that the requirements be met. These requirements are similar to many other programs developed by Kryptonik, and other vendors, which you may want to use in the future.

Note for Unix/Linux webserver administrators: See the 'UNIX/LINUX INFO' section below for information on how to change PHP INI values using a .htaccess file under Apache webserver.

INSTALLATION SETUP

You were provided access to an installation archive file (zip file) when you received your software license key for the software. You will need to download that installation archive file and extract it locally on your computer. The installation archive file will be named:

```
khxc-{version}.zip
```

When you extract this file locally using a utility like WinZip (Windows) or unzip (Linux), it will create a directory named:

```
c:/unzipped/khxc-{version}
```

This directory will include five files:

```
c:/unzipped/admin.php  
c:/unzipped/index.php  
c:/unzipped/installer.php  
c:/unzipped/license.pdf  
c:/unzipped/readme.pdf
```

CREATING PROGRAM DIRECTORIES ON YOUR WEBSERVER

Once you have extracted the installation archive file locally on your computer, you will need to upload the installation files to your webserver via FTP. Use your FTP client software to do this.

First, browse to your root web directory via your FTP client. The root web directory on your server is the directory where your web pages are served from. Common names for this directory are: www, web, httpdocs, htdocs, html. You will need to know which directory your root web directory is to complete this installation. The instructions presented below assume the name 'www' for this directory.

Next, create a directory in your root web directory named 'khxc'. This will be your Public Directory. You can name this directory anything you like, but for illustrative purposes here we will assume your directory was named 'khxc'. Example:

```
/home/account/www/khxc
```

The next step is to create a Private Directory to store sensitive information and the software codebase. This directory must either be in a non-web-accessible location (not within your root web directory path), or in a password protected web-accessible location (in your root web directory path, but password protected). For security purposes, please ensure this directory is either non-web-accessible or password protected.

If you choose to create the Private Directory in a non-web-accessible location (not within your root web directory path), browse to that location via FTP and create the directory. This will be your Private Directory. You can name this directory anything you like, but for illustrative purposes here we will assume your directory was named 'khxc-private'. Example:

```
/home/account/khxc-private
```

If you choose to create the Private Directory in a web-accessible location (within your root web directory path), browse to that location via FTP and create the directory. After creating the directory, for security purposes, you must password protect this directory with whatever password protection method your host has available (.htaccess, Windows Explorer, etc.). Failure to password protect this directory could result in compromising your Internet site and possibly your webserver - depending on the data you store there.

For illustrative purposes, and because it is the preferred method, we will assume you chose to create the Private Directory in a non-web-accessible location.

UPLOADING FILES TO YOUR WEBSERVER

After both the Public Directory and the Private Directory have been created, you will need to upload the five installation files you extracted from the installation archive file. Upload these five files to the Public Directory you created. Example:

```
/home/account/www/khxc/admin.php  
/home/account/www/khxc/index.php  
/home/account/www/khxc/installer.php  
/home/account/www/khxc/license.pdf  
/home/account/www/khxc/readme.pdf
```

SETTING PERMISSIONS

After you've uploaded all five installation files from the installation archive file to the Public Directory on your webserver, you will need to ensure permissions are set correctly on those directories and files. The installer script will present an error if both the directories and the files do not have the correct permissions level.

The Public Directory and the Private Directory as well as all the files in the Public Directory will need to have writable permissions. Read below to find out how to set permissions on these directories and the files in the Public Directory for your particular operating system:

For Unix/Linux webserver: Setting permissions on these two directories and the files in the Public Directory is done using your FTP client software. Simply highlight the directory or file and choose to change it's 'Permissions', 'Properties' or 'CHMOD'. If your webserver runs under an anonymous account (like 'nobody' or 'apache') to execute your Internet scripts, you will have to set a permission level of '777' on the directories and files. If your webserver runs under your user account to execute your Internet scripts, you may be able to set a permission level of '755' on the directories and files. When in doubt, set the directories and files to permission level '777'.

For Windows webserver: Setting permissions on these two directories and the files in the Public Directory is done using Windows Explorer. Permissions on Windows webserver are set on directories only, with any file in a given directory taking on the same permission level as it's parent directory. If you do not own and operate your own Windows webserver you will most likely have to request that permissions be set on the Public and Private directories by your server administrator. Ask the server administrator to set permissions on the two directories to 'Full Control' for the process that PHP runs under. Typically permissions must be set to 'Full Control' for the groups 'Web Applications', 'Web Anonymous Users' and 'Everyone'. These permission changes need to be done via Windows Explorer, not the IIS Control Panel.

Note for Unix/Linux webserver administrators: See the 'UNIX/LINUX INFO' section below for information on how to change the software's default permissions level (777) for script created files and directories.

RUNNING THE INSTALLER

After you've set permissions on those files and directories, access the installer script to continue through the installation process. To access the installer script, simply open your web browser and browse to the location of the 'installer.php' script you uploaded earlier. Example:

<http://www.yourdomain.com/khxc/installer.php>

The installer script is an intelligent application that will handle installing, registering and configuring the software for you.

ACCESS THE MANAGEMENT INTERFACE

Once you have finished running the installer script, access the Management Interface script to configure your administrator account and work with applications installed with the software. To access the Management Interface, simply open your web browser and browse to the location of the 'admin.php' script you uploaded earlier. Example:

<http://www.yourdomain.com/khxc/admin.php>

ACCESS THE FRONT-END SCRIPT

Once you have configured your administrator account and have configured any applications installed, you will want to view the front-end content provided by the software. This is what your Internet site visitors will see when they interface with the software. To access the front-

end script, simply open your web browser and browse to the location of the 'index.php' script you uploaded earlier. Example:

`http://www.yourdomain.com/khxc/index.php`

UNIX/LINUX INFO

Change PHP INI values using .htaccess file under Apache webserver:

The software does a very good job of trying to set all PHP INI values on it's own, but some are directory controlled. Some server administrators allow for you to change directory controlled PHP INI values by using a .htaccess file in the root web directory. Because specific .htaccess file contents vary in different Apache versions, we recommend you use whatever .htaccess format your server administrator recommends to set the required PHP INI values.

Change the software's default permissions level (777) for script created files and directories:

The files and directories created by the software and software installer are set to permissions level '777' when they are created to allow for easy FTP access to the files. If you would like to change this default permissions level to a more restrictive level, edit the values for the 'perms_level_files', 'perms_level_dirs' and 'perms_level_config' variables in the files:

`/home/account/www/khxc/admin.php`

`/home/account/www/khxc/index.php`

`/home/account/www/khxc/installer.php`

Be sure to test your installation after making such a change to ensure the permissions level entered is appropriate.

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`http://www.kryptontronic.com/`