



Updating the LoadMaster Software

Technical Note

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1 Introduction

New versions of the Kemp LoadMaster software are released on a quarterly basis. Each new software release comes with a host of new features, feature enhancements and bug fixes. To find out what is included in a LoadMaster software version, please refer to the **LoadMaster Release Notes, Product Overview**.

Customers can download the latest software from the Kemp website. The firmware can then be installed on the LoadMaster.

1.1 Document Purpose

This document describes the steps to upgrade the LoadMaster software. Kemp recommends performing a full backup of the system before updating the software.

1.2 Intended Audience

This document is intended to be read by anyone interested in finding out how to upgrade the LoadMaster firmware.

1.3 Related Firmware Version

Published with LMOS version 7.2.48.3 LTS. This document has not required changes since 7.2.48.3 LTS. However, the content is in sync with the latest LoadMaster LTS firmware.

1.4 Prerequisites

If you plan on updating from a pre-LTS firmware version to a post-LTS firmware version, you must first upgrade to LTS. This is because the kernel was upgraded in the LTS version. You can follow the steps in this document to do this, but ensure to update to the LTS version before updating to a later version.

2 Updating the LoadMaster Software

Follow the steps in the sub-sections below to back up and update the LoadMaster software.

You will experience issues accessing the LoadMaster if all of the below conditions are met:

- You update the LoadMaster firmware from a version below LTS to 7.2.XX
- Any time after updating the firmware, you change the password to access the LoadMaster
- After changing the LoadMaster password, you downgrade to version 7.1.XX

- This is because the hashing algorithm changed in version 7.2.36. LoadMasters with firmware version 7.2.36 and above can read old passwords, but LoadMasters with firmware version 7.1.XX cannot read new passwords.

2.1 Download the Software Update

To download the latest version of the LoadMaster software, follow the steps below:

1. Go to <https://support.kemptechnologies.com>.
2. Log in to the site by clicking the **Sign in** link at the top and entering your Kemp ID details.

For instructions on how to register for a Kemp ID, refer to the **Licensing, Feature Description**.

3. Click Downloads.
4. Click the relevant download link, depending on your type of LoadMaster.
5. Continue following the relevant links to download the software.

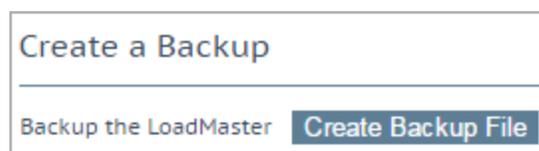
2.2 Back Up the LoadMaster

The sections below contain instructions on how to back up the LoadMaster system configuration and SSL certificates.

2.2.1 Back Up the System

Follow the steps below to create a backup file:

1. In the main menu of the LoadMaster Web User Interface (WUI), navigate to **System Configuration > System Administration > Backup/Restore**.



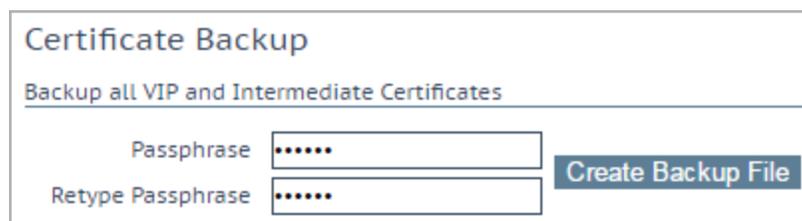
2. Click the **Create Backup File** button.

A download of the backup will start. The file name is set to **LMbackup** and the date and time. Select a location to save the backup file to – this is browser-dependent as some browsers will automatically save the file to a location that was already pre-set. The backup file will contain all of the LoadMaster base information such as system defaults and all information pertaining to each configured Virtual Service. If you rename the file, ensure to not change the file extension.

2.2.2 Back Up the Certificates

To back up certificates, follow the steps below:

1. In the main menu of the LoadMaster WUI, go to **Certificates & Security > Backup/Restore Certs**.



2. Enter a **Passphrase** in the text boxes provided.

The passphrase is very important and should be safeguarded. The backup file cannot be opened without the passphrase as it is encrypted.

3. Click the **Create Backup File** button.
4. The filename is automatically set with **CertBackup** and the date and time. Select the location to save the backup file to – this is browser-dependent as some browsers will automatically save the file to a location that was already pre-set. It is a good idea to save this file with the system backup. The file can be renamed but do not change the file extension.

The private keys are backed up as part of the certificate backup. Even though this file is password protected – it should be stored securely as it contains private key material.

2.3 Updating the Software

As the update process requires a reboot, Kemp recommend that the software update is performed during a maintenance window.

To update the software, follow the steps below:

1. In the main menu of the LoadMaster WUI, navigate to **System Configuration > System Administration > Update Software**.



Update LoadMaster Software

Software Update File: 7.1-Patch32...00-10G.bin

2. Click the **Choose File** button in the **Update LoadMaster Software** section and navigate to the software file that was downloaded from the Kemp site.

Do not install an ECS update image on a LoadMaster without the ECS add-on package already installed. Doing so invalidates your LoadMaster license.

3. Click the **Update Machine** button. The file is checked and validated.

4. Click the **OK** button to install the software after validation is complete. Once installed, the LoadMaster will need to be rebooted.
5. Click **Reboot**.
6. Click **Continue**.

Please Enable Kemp Analytics

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Performance
We sample network and appliance performance and use the aggregated data to provide indicators and guidance on how specific models and platforms are behaving.

Feature Usage
We gather statistics on feature usage to enable us to focus and prioritize enhancements on the features and capabilities that are most important to our customers.

For more information visit <https://kemp.ax/KempAnalytics>

The Kemp Analytics feature is currently disabled. Please click **Enable Kemp Analytics** to turn it on.

Don't Enable Kemp Analytics **Enable Kemp Analytics**

If you are updating the software to version 7.2.48.2 or higher, a screen appears to enable Kemp Analytics. To enable this feature, click **Enable Kemp Analytics**. To proceed without enabling this feature, click **Don't Enable Kemp Analytics**.

For further details, refer to the following pages:

- [Call Home - Disclosure and Usage](#)
- [Kemp Analytics Disclosure and Usage](#)

3 Restoring the Software

When performing a software update, the LoadMaster automatically creates a restore point of the current system and, provided no changes are made, the restore point can be used. Therefore, when restoring to a previous version there are two options;

- Restore to the previous version – no changes made
- Restore to the previous version – changes made

Refer to the relevant section below for restore instructions.

3.1 Restore the Software – No Changes Made

If there have been no further changes to the configuration since the software update, the software can be restored by following the steps below:

1. In the main menu of the LoadMaster WUI, go to **System Configuration > System Administration > Update Software**.



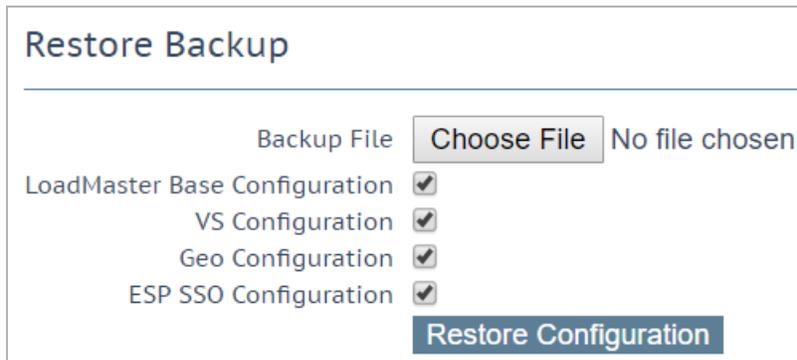
2. Click the **Restore Software** button and click **OK** to confirm.
3. Reboot the LoadMaster.

After the reboot, the LoadMaster is restored to the time before the software update and it is fully operational, as it was at that time.

3.2 Restore the Software – Changes Made

If changes have been made and you want to keep those changes, you will need to back up the system by following the steps in the **Back Up the System** section. Then, after restoring the software (steps in the **Restore the Software – No Changes Made** section), the backup can be restored by following the steps below:

1. In the main menu of the LoadMaster (WUI), navigate to **System Configuration > System Administration > Backup/Restore**.



Restore Backup

Backup File No file chosen

LoadMaster Base Configuration

VS Configuration

Geo Configuration

ESP SSO Configuration

2. Click the **Choose File** button.
3. Browse to and select the backup file.

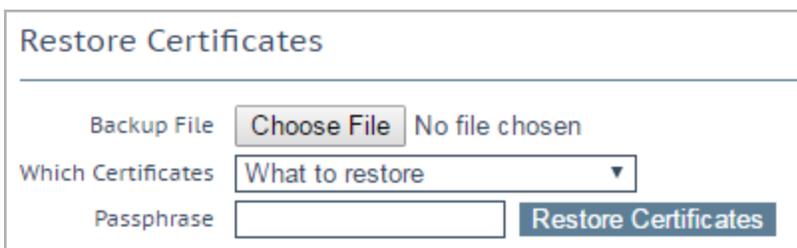
Kemp recommends restoring all settings (check all boxes).

4. Click the **Restore Configuration** button.
5. Click **Reboot**.
6. Click **Continue**.

3.3 Restoring Certificates and Private Keys

To restore certificates, follow the instructions below:

1. In the main menu of the LoadMaster WUI, navigate to **Certificates & Security > Backup/Restore Certs**.



Restore Certificates

Backup File No file chosen

Which Certificates

Passphrase

2. Click the **Choose File** button. Locate and select the certificate backup file.
3. In the drop-down list select **All VS and Intermediate Certs**.
4. Enter the passphrase assigned to the certificate backup file.
5. Click **Restore Certificates** button.

References

Unless otherwise specified, the following documents can be found at <http://kemptechnologies.com/documentation>.

LoadMaster Release Notes, Product Overview

Licensing, Feature Description

Last Updated Date

This document was last updated on 07 December 2020.