



# LoadMaster Software Migration

Between

**Versions 5.1 and 6.0**

**Version 1.1**

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## 1. Overview

This paper describes the steps necessary to upgrade the LoadMaster software, appliance or VLM, from version 5.1 to 6.0, and to revert back to 5.1 from 6.0. KEMP recommend performing a full backup of the system before updating to version 6.0 or reverting back to version 5.1.

## 2. Backing Up the LoadMaster

Here we will back up the LoadMaster system configuration and SSL certificates.

### Backing Up the System


1. On the LoadMaster WUI, in the left panel navigate to > *System Configuration > System Administration > Backup/Restore >*.

The screenshot shows the 'Create a Backup' section of the LoadMaster WUI. It is divided into three horizontal panels. The top panel, 'Backup the LoadMaster', has a 'Create Backup File' button. The middle panel, 'Restore Configuration', includes a 'Backup File:' input field with a 'Browse...' button, checkboxes for 'LoadMaster Base Configuration' and 'VS Configuration', and a 'Restore Configuration' button. The bottom panel, 'Automated Backups', has an 'Enable Automated Backups' checkbox.

2. Click *Create Backup File* and it will automatically set a file name with LMbackup and the date and time. Select where you want to save the backup file –this is browser dependent since some browsers will automatically save the file to a location that you have already preset. The backup file will contain all the LoadMaster Base Information –such as system defaults- and all information pertaining to each configured Virtual Service. You may rename the file to something more meaningful to you, but do not change the file extension.

### Backing Up Certificates

3. On the LoadMaster WUI, in the left panel navigate to > *Certificates > Backup/Restore Certs. >*.
4. Enter a passphrase in the box provided.

 The passphrase is very important and should be safeguarded. You will not be able to open the backup file without the passphrase since it is encoded.

The screenshot shows the 'Certificate Backup' section of the LoadMaster WUI. It features a single horizontal panel with the text 'Backup all VIP and Intermediate Certificates', a 'Passphrase' input field, and a 'Create Backup File' button.

5. Click the *Create Backup File* button and it will automatically set a file name with CertBackup and the date and time. Select where you want to save the backup file –this is browser dependent since some browsers will automatically save the file to a location that you have already preset. It

is a good idea to save this file with the system backup. You may rename the file to something more meaningful to you, but do not change the file extension.

### 3. Updating the Software to version 6.0

6. Send an email to KEMP support at [nasupport@kemptechnologies.com](mailto:nasupport@kemptechnologies.com) (North America & Canada) or to [emeausupport@kemptechnologies.com](mailto:emeausupport@kemptechnologies.com) (for all other countries).
7. KEMP Support will return to you an email containing a link to the software file, a User name and Password.
8. Click the link and save the file to your PC.
9. On the LoadMaster WUI, in the left panel navigate to > *System Configuration* > *System Administration* > *Update Software* and you will see the panel shown below.

10. Click the *Browse* button and navigate to the software file you downloaded from KEMP site.
11. Click the *Update Machine* button. The file will be checked and validated.
12. Click the *OK* button to install the software after validation is complete. Once installed, you will need to reboot the LoadMaster.
13. Click *Reboot* and on the next screen, click *Continue*.
14. The LoadMaster should now be operational on a version of 6.0 software as shown by the Home screen.

IP address	192.168.201.128
Machine Identifier	sqNE4TT8Fq99 (Instance 136783)
Boot Time	Tue Dec 13 23:07:53 UTC 2011
LoadMaster Version	6.0-23.20111213-0849
License	Activation date: September 30 2011 Licensed until: Unlimited
CPU Load	2%
TPS	Total 0 (SSL 0)
NetLoad	Mbits/sec
eth0	0.0

### 4. Restoring the Software to version 5.1

When performing software update, the LoadMaster automatically creates a restore point of the current system and provided no changes are made, you can use the restore point created. Therefore when restoring to 5.1 there are two alternatives.

#### Restore to Version 5.1 – No Changes

If, since the LoadMaster has been upgraded to 6.0, there have been no further updates within the 6.0 family **AND** no changes to the configuration since the initial update was performed, the User can take advantage of the Restore feature built into the LoadMaster.

15. On the LoadMaster WUI, in the left panel navigate to > *System Configuration* > *System Administration* > *Update Software* and you will see the panel shown below.

Patch File:

Restore previous version: 5.1-46.20110120-0919

16. Click '*Restore previous version*' and click *OK* to confirm.
17. *Reboot* the LoadMaster.
18. The LoadMaster has been restored to the point that was active at the time of update and will be fully operational as it was at that time.

### Restore to Version 5.1 - with Changes

If changes to the 6.0 configuration have been made and you wish to keep those changes for future use, you will need to backup the 6.0 system by following the steps in section 2. above.

19. On the LoadMaster WUI, in the left panel navigate to > *System Configuration* > *System Administration* > *Backup/Restore* and you will see the panel shown below.

**Create a Backup**


Backup the LoadMaster

**Restore Configuration**

Backup File:   LoadMaster Base Configuration    
 VS Configuration

**Automated Backups**

Enable Automated Backups

20. Click *Browse* button and locate the backup LMbackup file you created in section 2 above and select that file.
  -  At this point you have the option to restore the system base configuration, the VS configuration, or both. We recommend you restore both (check both boxes).
21. Click the *Restore Configuration* button.
22. Click *Reboot* and on the next screen, click *Continue*.
23. You should now be able to access the LoadMaster with the same configuration that you had before moving up to version 6.0.

### Restoring Certificates

24. On the LoadMaster WUI, in the left panel navigate to > *Certificates* > *Backup/Restore Certs*.

**Restore Certificates**

Backup File

Which Certificates

Passphrase

25. Click the *Browse* button to locate the certificate backup file you created in section 2 and select that file.
26. In the drop down box select All VS and Intermediate certificates.
27. Enter the passphrase you assigned to the certificate backup file.
28. Click *Restore Certificates* button.

The LoadMaster will now have the exact same configuration as the one you backed up prior to the version 6.0 upgrade.