

HP ProLiant

Installation Guide

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1 Introduction



1 Introduction

The Kemp LoadMaster load balancing solution works with the HP ProLiant series, enabling customers to deploy full-feature, high-performance load balancers. This can reduce network design complexity as well as increased performance. The HP ProLiant servers are flexible, high performing and have enterprise-class uptime. The Kemp solution is designed to handle load balancing for application-to-application connections for external/internet based connections to web services.

This document describes the steps required to install the Kemp LoadMaster software on HP ProLiant servers using DL320 and DL380 as examples.

PXE and USB booting options are also supported by the LoadMaster installation ISO file.

1.1 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.

1.2 Prerequisites

The following prerequisites are needed:

- An HP ProLiant server
- An ISO image with the LoadMaster software.

The ISO image can be downloaded from www.kemptechnologies.com.

• For a standalone LoadMaster, one IP-address on an untagged LAN is required. Three IP-addresses are required for a High Availability (HA) pair; one for each LoadMaster and one for the shared IP address.

The boot order on the server should be configured as follows:

- 1. HDD
- 2. CDROM



2 Installing LoadMaster on the HP ProLiant

The following steps must be completed in order to install the LoadMaster software on the HP ProLiant. These steps must be completed on the jump host, where the LoadMaster installation ISO image is located.

2.1 Install the LoadMaster

To install the LoadMaster, follow the steps below in HP Integrated Lights Out (iLO):

ILO 4 ProLiant DL380p Gen8		
Expand All	Boot Order	
- Information		
Overview	Server Boot Order	
System Information	Hard Dick Drive	
iLO Event Log	USB Storage Device	
Integrated Management Log	CD/DVD Drive	
Active Health System Log	Floppy Drive	
Diagnostics	Network Device 1	
Location Discovery Services	¥	
Insight Agent	Up Down	
+ Remote Console	One-Time Boot Status	
- Virtual Media	Select One-Time Boot Option:	CD/DVD Drive
Virtual Media	Current One Time Boot Ontion	No One Time Boot
Boot Order	Current one-rime boot option	No One-Time Boot
- Power Management		
Server Power	Additional Options	
Power Meter		
Power Settings		
- Remote Support		
Registration		
Service Events		
Data Collections		
+ Administration		

1. In the main menu, select Virtual Media.

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- 2. Select Boot Order.
- 3. In the Select One-Time Book Option drop-down list, select CD/DVD Drive.



- 4. In the main menu, select **Remote Console**.
- 5. Select Remote Console.
- 6. Click Launch.
- 7. In the virtual console click Virtual Drives > CD/DVD > Virtual Image.
- 8. Browse to and select the LoadMaster ISO.
- 9. Click the **Power Switch** and select **Cold Boot**.



For further information on the different boot options that are available, refer to the **Bare Metal Boot Options, Technical Note**.

The serial number should be automatically pulled from the LoadMaster. If it is not, please enter it when prompted.



10. Select select disk/partition and press **OK**.



11. Select the target disk for installation and press **OK**.

Select (primary)	partition for in	<mark>hda</mark> stallation
partition	sectors type	
1 /dev/hda1 2 /dev/hda2 3 /dev/hda3	506016 6 FAT 7663005 83 Lin 8185117 83 Lin	16 ux
4 /dev/hda4 d delete exist	0 Emp ing partition(s)	ŧŷ
	evious menu	
	к ок >	<pre>< Cancel ></pre>

12. Select delete existing partition(s) and press **OK**.

LoadMaster-installation Installation source: Install destination: /dev/hda1
<pre>1 check hardware compatibility 2 select disk / partition 3 system settings 3 start installation 9 reboot</pre>
KOR X (Cancel)

13. Select start installation and press **OK**.

2 Installing LoadMaster on the HP ProLiant



14. Press **OK**. The installation should complete successfully.



On initial deployment, DHCPv4 and DHCPv6 both run to attempt to obtain an IP address. If the LoadMaster obtains an IP address using DHCP, take note of it because this is how you will access the LoadMaster.

If the LoadMaster does not obtain an IP address using DHCP the static IP address of **192.168.1.101** is assigned and the LoadMaster must be manually configured using the console.

Refer to the **Configuring the LoadMaster Using the Console** section for further information regarding manually configuring the LoadMaster.

2.2 License and Configure the LoadMaster

The LoadMaster must now be configured to operate within the network configuration.

1. In an internet browser, enter the IP address that was previously noted.

Ensure to enter **https://** before the IP address.

2. A warning may appear regarding website security certificates. Please click the continue/ignore option.

3. The LoadMaster End User License Agreement screen appears.

Please read the license agreement and, if you are willing to accept the conditions therein, click on the **Agree** button to proceed.

2 Installing LoadMaster on the HP ProLiant



Please select Lice	nse Method to pro	ceed: Online Licensi	ng 🔻	
Please enter your	(emp ID and password b	elow to lícense this Lo	adMaster.	
Please enter your H	Kemp ID and password b	elow to license this Lo	adMaster.	
Please enter your H If you do not have	Kemp ID and password b a Kemp ID, please creat	elow to license this Lo e one by visiting:	adMaster.	
Please enter your H If you do not have <u>https://kemptechn</u>	Kemp ID and password b a Kemp ID, please creat ologies.com/kemp-id-re	elow to license this Lo e one by visiting: gi <u>stration</u>	adMaster.	
Please enter your H If you do not have https://kemptechn	Kemp ID and password b a Kemp ID, please creat ologies.com/kemp-id-re	elow to license this Lo e one by visiting: g <u>istration</u>	adMaster.	
Please enter your H If you do not have https://kemptechn Kemp ID:	Kemp ID and password b a Kemp ID, please creat ologies.com/kemp-id-re	elow to license this Lo e one by visiting: g <u>istration</u>	adMaster.	
Please enter your H If you do not have https://kemptechn Kemp ID: Password:	Kemp ID and password b a Kemp ID, please creat ologies.com/kemp-id-re	elow to license this Lo e one by visiting: gistration	adMaster.	
Please enter your H If you do not have https://kemptechn Kemp ID: Password: Order ID# (optional):	Kemp ID and password b a Kemp ID, please creat ologies.com/kemp-id-re	e one by visiting: gistration	adMaster.	

4. If using the **Online** licensing method, fill out the fields and click **License Now**.

If you are starting with a trial license, there is no need to enter an Order ID. If you are starting with a permanent license, enter the Kemp **Order ID#** if this was provided to you.

If using the **Offline Licensing** method, select **Offline Licensing**, obtain the license text, paste it into the **License** field and click **Apply License**.

For detailed instructions on how to register for a Kemp ID and license the LoadMaster, refer to the **Licensing, Feature Description** on the Kemp Documentation Page.

Please select licen	se type	Reload
- License Types	VLM-5000 ESP GEO with Evaluation + WAF - 1 available Buy More	0
		Continue



5. If you entered an **Order ID**, a screen appears that provides a list of available licenses for that order ID, in addition to any licenses registered for the Kemp ID based on the LoadMaster platform type. Select the license type you want to apply to this LoadMaster.

If the license type you want is not displayed, please contact your Kemp representative.

- 6. Click **Continue**.
- 7. The login screen appears, enter the **bal** user name and the password.
- 8. In the screen informing you that the password has changed, press the **Continue** button.

9. If your machine has shipped with a temporary license you should get a warning informing you that a temporary license has been installed on your machine and for how long the license is valid.



10. Click **OK** .

11. You should now connect to the **Home** screen of the LoadMaster.

12. Go to **System Configuration > Network Setup** in the main menu.

13. Click the **eth0** menu option within the **Interfaces** section.

Network Interface 0	
Interface Address (address[/prefix])	Set Address
Link Status	Speed: 10000Mb/s, Full Duplex Automatic Force Link
	MTU: 1500 Set MTU
Additional addresses (address[/prefix])	Add Address
VLAN Configuration Interface Bondir	ng

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14. In the **Network Interface 0** screen, enter the IP address of the eth0 interface, the network facing interface of the LoadMaster, in the **Interface Address** input field.

15. Click the **Set Address** button.

16. Click the **eth1** menu option within the **Interfaces** section.

17. In the **Network Interface 1** screen, enter the IP address of the eth1 interface, the farmside interface of the LoadMaster, in the **Interface Address** input field.

18. Click on the **Set Address** button.

This interface is optional, depending on the network configuration.

19. Click on the **Local DNS Configuration > Hostname Con**figuration menu option.

Set Hostname	
Hostname	Set Hostname

20. In the **Hostname configuration** screen, enter the hostname into the **Current Hostname** input field.

21. Click the Set Hostname button.

22. Click the **Local DNS Configuration > DNS Configuration** menu option.

DNS Servers	
DNS NameServer (IP Address)	Operation
10.154.75.25	Delete
Add Nameserver	
IP Address Add	
Add Search Domain	
Domain Add	

23. In the **DNS configuration** screen, enter the IP address(es) of the DNS Server(s) which is used to resolve names locally on the LoadMaster into the **DNS NameServer** input field.

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24. Click the **Add** button.

25. Enter the domain name that is to be prepended to requests to the DNS nameserver into the **DNS NameServer** input field.

26. Click the **Add** button.

27. Click the **System Configuration > Network Setup > Default Gateway** menu option.

The IPv4 default gateway must be on the 10.154.0.0/16 network

IPv4 Default Gateway Address 10.154.0.1

Set IPv4 Default Gateway

28. In the **DNS configuration** screen, enter the IP address of the default gateway into the **IPv4 Default Gateway Address** input field.

If you have an IPv6 Default Gateway, please enter the value in the **IPv6 Default Gateway Address** input field.

29. Click the Set IPv4 Default Gateway button.

The LoadMaster is now fully installed and ready to be used. For further information on how to configure and implement the Virtual LoadMaster, please refer to the LoadMaster documentation which can be downloaded from the http://kemptechnologies.com/documentation page.



3 Configuring the LoadMaster Using the Console

If the LoadMaster does not automatically obtain an IP address using DHCP, or if you would prefer to configure the LoadMaster using the console, then the following configuration steps must be completed before starting the LoadMaster.

- 1. Login into the LoadMaster using the console with the following settings:
 - lb100 login: bal
 - Password: 1fourall

Please input the IP address/CIDR of the NETWORK side of the LoadMaster.
device eth0: 10.11.0.101/24
10.11.0.101/24_
< OK > <cancel></cancel>

2. Enter the IP address of the eth0 interface, the network facing interface of the LoadMaster, in the input field within the **Network Side Interface Address** dialog box.

3. Press **OK**.

Please enter th This must be an 10.11.0.0/24.	e IP address of IP address on	f the default gateway. network	
10.11.0.1_ +			+
; 	< 0X >	<cancel></cancel>	+



4. Enter the IP address of the default gateway in the input field of the **Default Gateway** dialog box.

5. Press **OK**.

6. Once these are set, a prompt will appear asking to connect to the web interface at the newly configured IP address. In an internet browser enter the IP address of the eth0 entered in Step 2.

Ensure to enter **https://** before the IP address.

7. A warning may appear regarding website security certificates. Please click the continue/ignore option.

8. The LoadMaster End User License Agreement screen appears.

9. Please read the license agreement and, if willing to accept the conditions therein, click on the **Agree** button to proceed.

10. If the machine has shipped with a temporary license, a warning will appear informing that a temporary license has been installed on the machine and for how long the license is valid.

11. Click **OK**.

12. The home screen of the LoadMaster should appear.

The LoadMaster is now fully installed and ready to be used. For further information on how to configure and implement the Virtual LoadMaster, please refer to the LoadMaster documentation which can be found here: <u>https://kemptechnologies.com/documentation</u>.

HP ProLiant

References





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

Licensing, Feature Description

Bare Metal Boot Options, Technical Note



Last Updated Date

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