



# HP ProLiant

## **Installation Guide**

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#1 Load Balancer in Price/Performance, 360 Central, 360 Vision, Chef, Chef (and design), Chef Habitat, Chef Infra, Code Can (and design), Compliance at Velocity, Corticon, Corticon.js, DataDirect (and design), DataDirect Cloud, DataDirect Connect, DataDirect Connect64, DataDirect XML Converters, DataDirect XQuery, DataRPM, Defrag This, Deliver More Than Expected, DevReach (and design), Driving Network Visibility, Flowmon, Inspec, Ipswitch, iMacros, K (stylized), Kemp, Kemp (and design), Kendo UI, Kinvey, LoadMaster, MessageWay, MOVEit, NativeChat, OpenEdge, Powered by Chef, Powered by Progress, Progress, Progress Software Developers Network, SequeLink, Sitefinity (and Design), Sitefinity, Sitefinity (and design), Sitefinity Insight, SpeedScript, Stylized Design (Arrow/3D Box logo), Stylized Design (C Chef logo), Stylized Design of Samurai, TeamPulse, Telerik, Telerik (and design), Test Studio, WebSpeed, WhatsConfigured, WhatsConnected, WhatsUp, and WS\_FTP are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries.

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# 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.

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

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## 1.1 Prerequisites

The following prerequisites are needed:

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

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The ISO image can be downloaded from [www.kemptechnologies.com](http://www.kemptechnologies.com).

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- 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:

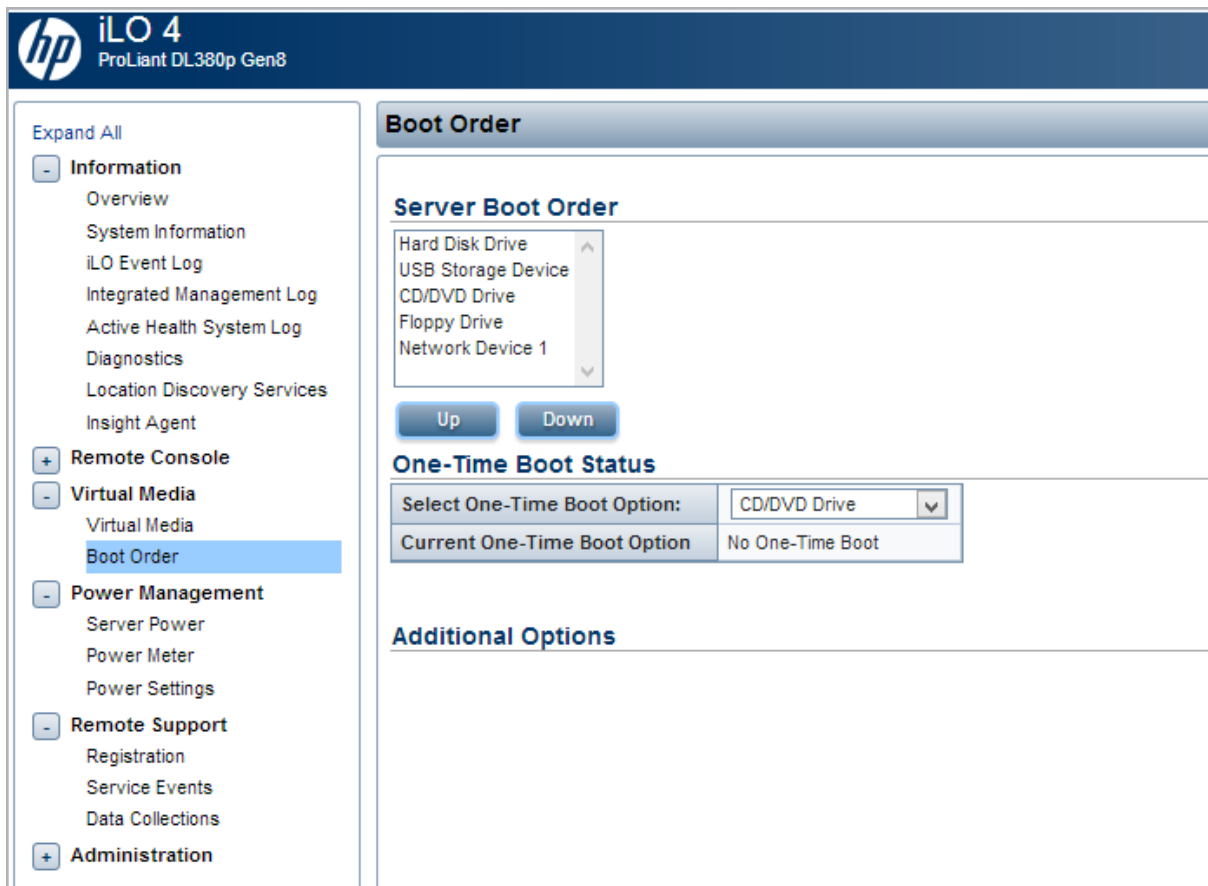
1. **HDD**
2. **CDROM**

# 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

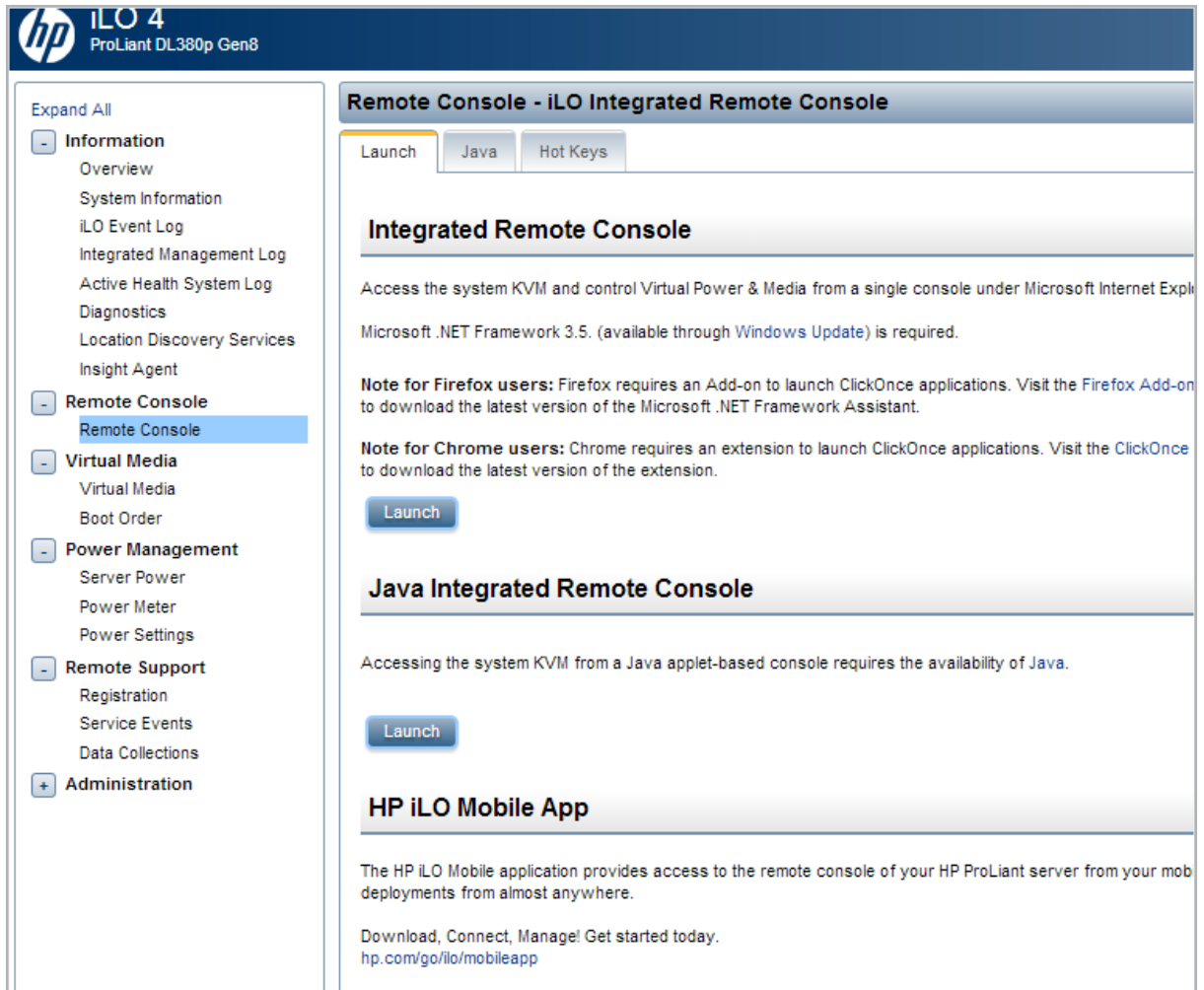
To install the LoadMaster, follow the steps below in HP Integrated Lights Out (iLO):



1. In the main menu, select **Virtual Media**.

## 2 Installing LoadMaster on the HP ProLiant

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

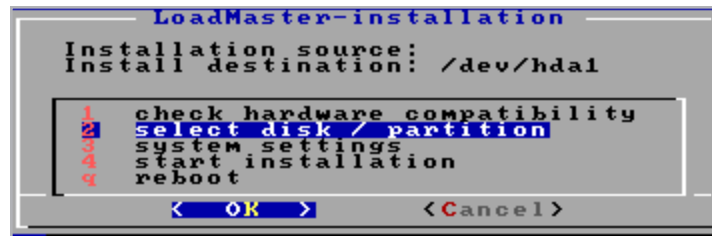


4. In the main menu, select **Remote Console**.
5. Select **Remote Console**.
6. Click **Launch**.
7. In the virtual console click **Virtual Drives > CD/DVD > Virtual Image**.
8. Browse to and select the LoadMaster ISO.
9. Click the **Power Switch** and select **Cold Boot**.

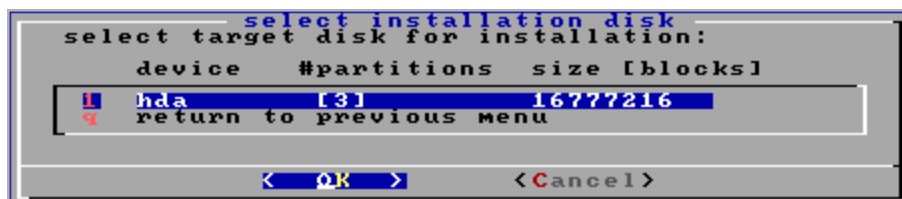
## 2 Installing LoadMaster on the HP ProLiant

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**.



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



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

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

## 2 Installing LoadMaster on the HP ProLiant

```
#####  
#  
# Your LoadMaster has finished booting.  
# UUID: 31159ab6-5da4-4b92-8ee2-b8922cc08dfe  
# Serial Number: 446312  
# IP address of LoadMaster is 10.154.11.180  
#  
# Point your browser at https://10.154.11.180 to configure your LoadMaster.  
#  
#####
```

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.

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

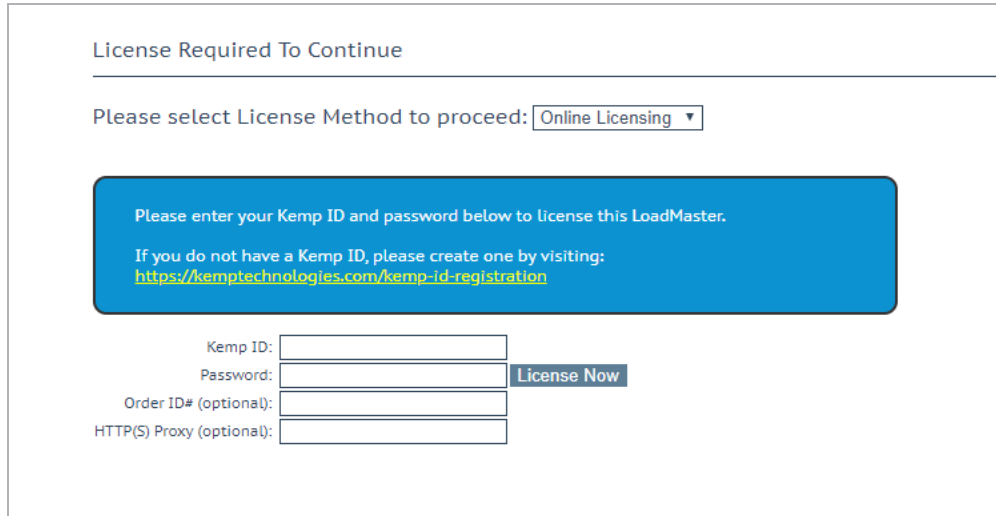
---

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



License Required To Continue

Please select License Method to proceed: Online Licensing ▼

Please enter your Kemp ID and password below to license this LoadMaster.

If you do not have a Kemp ID, please create one by visiting:  
<https://kemptechnologies.com/kemp-id-registration>

Kemp ID:

Password:  License Now

Order ID# (optional):

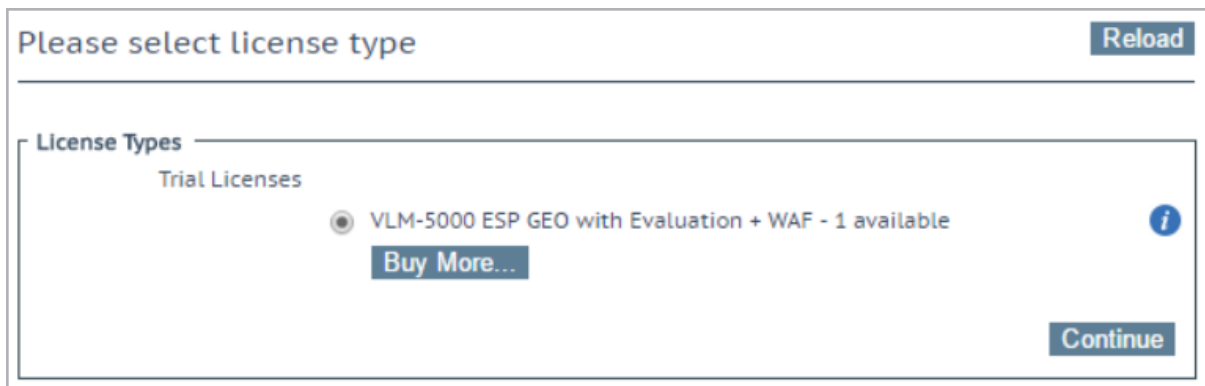
HTTP(S) Proxy (optional):

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 license type Reload

License Types

Trial Licenses

☒ VLM-5000 ESP GEO with Evaluation + WAF - 1 available i

Buy More...

Continue

## 2 Installing LoadMaster on the HP ProLiant

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.

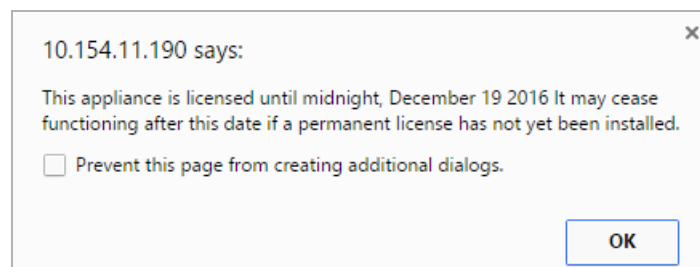
If the license type you want is not displayed, please contact your Kemp representative.

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])	<input type="text"/>	<b>Set Address</b>	
Link Status	Speed: 10000Mb/s, Full Duplex	<b>Automatic</b> ▼	<b>Force Link</b>
	MTU: <input type="text" value="1500"/>	<b>Set MTU</b>	
Additional addresses (address[/prefix])	<input type="text"/>	<b>Add Address</b>	
<b>VLAN Configuration</b> <b>Interface Bonding</b>			

## 2 Installing LoadMaster on the HP ProLiant

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 farm-side 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 Configuration** 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.

## 2 Installing LoadMaster on the HP ProLiant

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	<input type="text" value="10.154.0.1"/> <input type="button" value="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.

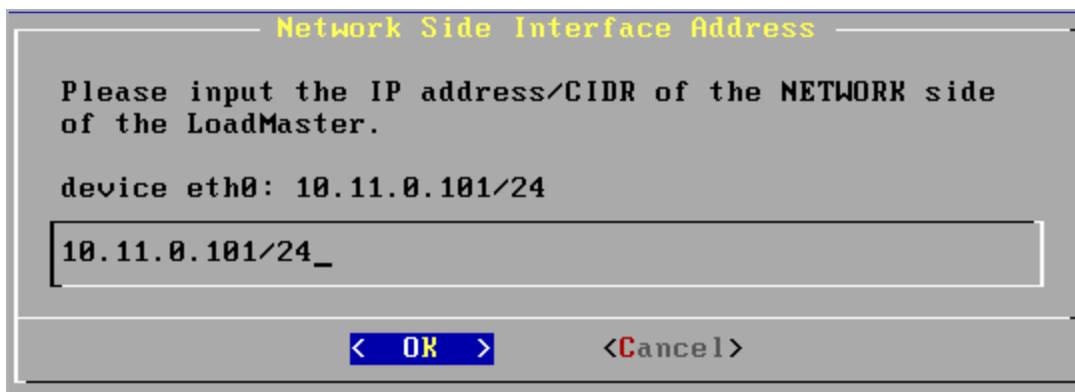
The LoadMaster is now fully installed and ready to be used. For further information on how to configure and implement the Virtual LoadMaster, please refer to the LoadMaster documentation which can be downloaded from the <http://kemptechnologies.com/documentation> page.

# 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**



**Network Side Interface Address**

Please input the IP address/CIDR of the NETWORK side of the LoadMaster.

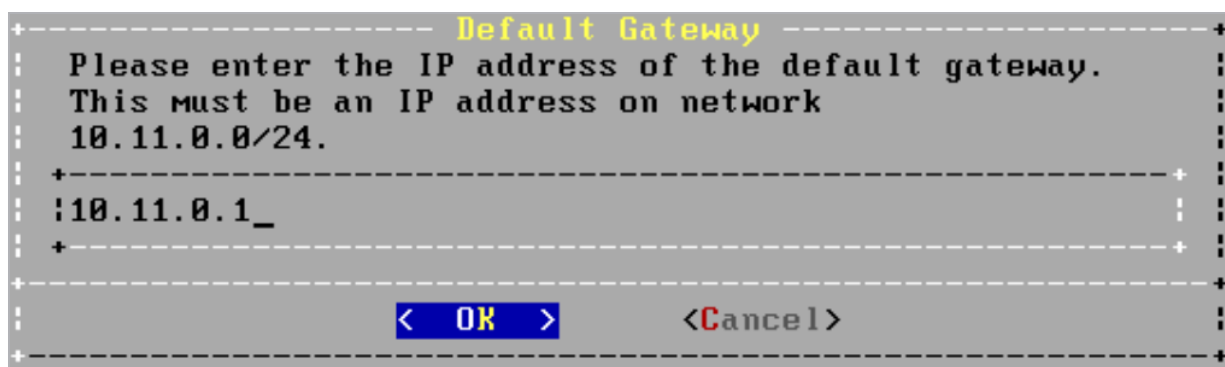
device eth0: 10.11.0.101/24

10.11.0.101/24\_

< OK >      <Cancel>

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**.



**Default Gateway**

Please enter the IP address of the default gateway. This must be an IP address on network 10.11.0.0/24.

10.11.0.1\_

< OK >      <Cancel>

### 3 Configuring the LoadMaster Using the Console

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.

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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: <https://kempttechnologies.com/documentation>.

# 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

This document was last updated on 28 July 2023.