



Installation Guide HP ProLiant

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Introduction

Introduction

The 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 Progress 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 LoadMaster software on HP ProLiant servers using DL320 and DL380 as examples.

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

Related Links

- [Prerequisites](#)

Prerequisites

Prerequisites

The following are needed:

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

Note: The ISO image can be downloaded from www.kemptechnologies.com/baremetal-trial.

- 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

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.

Related Links

- [Install the LoadMaster](#)
- [License and Configure the LoadMaster](#)

Install the LoadMaster

Install the LoadMaster

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

The screenshot shows the HP iLO 4 ProLiant DL380p Gen8 interface. On the left is a navigation menu with the following items: Expand All, Information (Overview, System Information, iLO Event Log, Integrated Management Log, Active Health System Log, Diagnostics, Location Discovery Services, Insight Agent), Remote Console, Virtual Media (Virtual Media, Boot Order), Power Management (Server Power, Power Meter, Power Settings), Remote Support (Registration, Service Events, Data Collections), and Administration. The 'Boot Order' option under 'Virtual Media' is selected. The main content area is titled 'Boot Order' and contains two sections: 'Server Boot Order' and 'One-Time Boot Status'. The 'Server Boot Order' section has a list box with the following items: Hard Disk Drive, USB Storage Device, CD/DVD Drive, Floppy Drive, and Network Device 1. Below the list box are 'Up' and 'Down' buttons. The 'One-Time Boot Status' section has a table with two rows: 'Select One-Time Boot Option:' with a dropdown menu showing 'CD/DVD Drive', and 'Current One-Time Boot Option' with the value 'No One-Time Boot'. Below this is an 'Additional Options' section.

hp iLO 4
ProLiant DL380p Gen8

Expand All

- Information
 - Overview
 - System Information
 - iLO Event Log
 - Integrated Management Log
 - Active Health System Log
 - Diagnostics
 - Location Discovery Services
 - Insight Agent
- + Remote Console
- Virtual Media
 - Virtual Media
 - Boot Order
- Power Management
 - Server Power
 - Power Meter
 - Power Settings
- Remote Support
 - Registration
 - Service Events
 - Data Collections
- + Administration

Boot Order

Server Boot Order

Hard Disk Drive	^
USB Storage Device	
CD/DVD Drive	
Floppy Drive	
Network Device 1	v

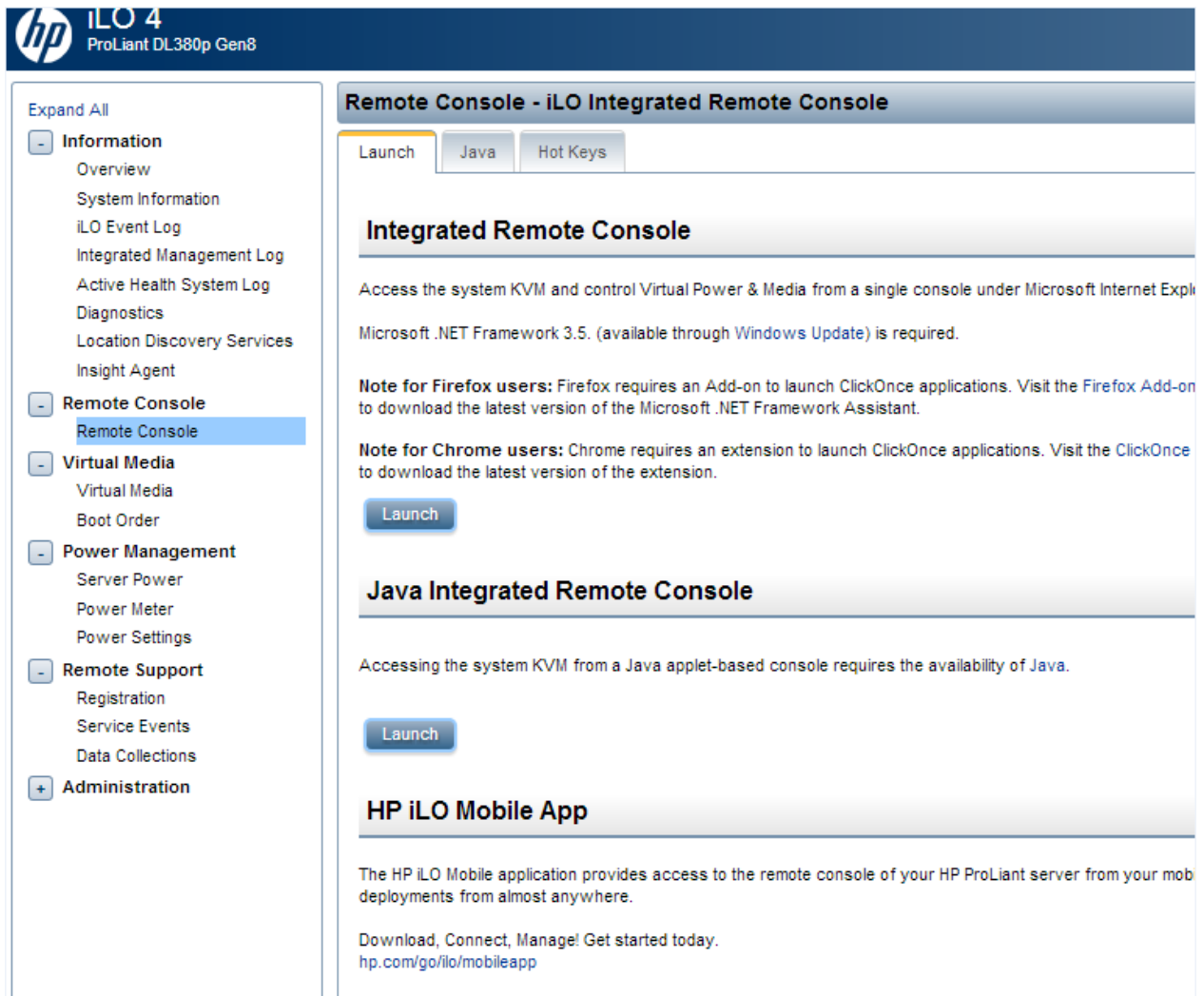
Up Down

One-Time Boot Status

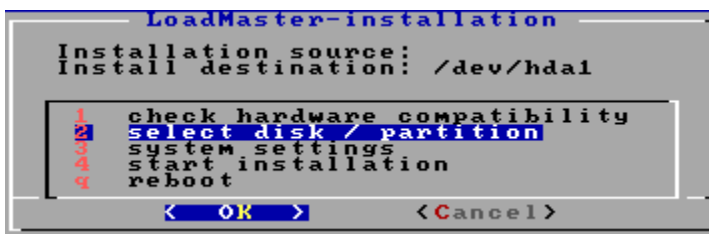
Select One-Time Boot Option:	CD/DVD Drive
Current One-Time Boot Option	No One-Time Boot

Additional Options

1. In the main menu, select **Virtual Media**.
2. Select **Boot Order**.
3. In the **Select One-Time Book Option** drop-down list, select **CD/DVD Drive**.



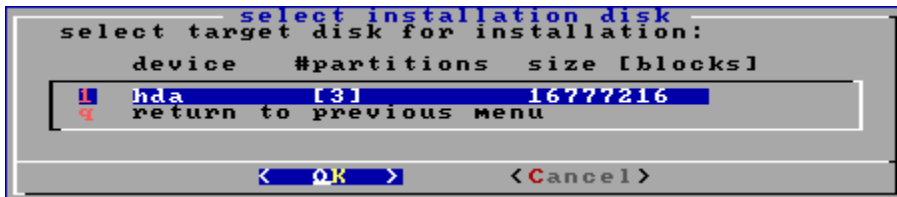
4. In the main menu, select **Remote Console**.
5. Select **Remote Console**.
6. Click **Launch**.
7. In the virtual console click **Virtual Drives > CD/DVD > Virtual Image**.
8. Browse to and select the LoadMaster ISO.
9. Click the **Power Switch** and select **Cold Boot**.



Note: For further information on the different boot options that are available, refer to the [Bare Metal Boot Options, Technical Note](#).

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

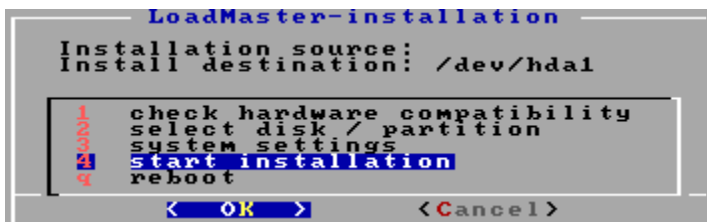
10. Select select disk/partition and press **OK**.



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.

```

#####
#
# 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 via the Console](#) section for further information regarding manually configuring the LoadMaster.

License and Configure the LoadMaster

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.

Note: 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.

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:	<input type="text"/>	License Now
Password:	<input type="password"/>	
Order ID# (optional):	<input type="text"/>	
HTTP(S) Proxy (optional):	<input type="text"/>	

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

Note: 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 Progress Kemp **Order ID#** if this was provided to you.

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

Note: For detailed instructions on how to register for a Kemp ID and license the LoadMaster, refer to the **Licensing, Feature Description** on the [Documentation Page](#).

Please select license type

Reload

License Types

Trial Licenses

VLM-5000 ESP GEO with Evaluation + WAF - 1 available
Buy More...

Continue

- 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.

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

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

10.154.11.190 says:

This appliance is licensed until midnight, December 19 2016 It may cease functioning after this date if a permanent license has not yet been installed.

☐ Prevent this page from creating additional dialogs.

OK

- Click **OK**.
- You should now connect to the **Home** screen of the LoadMaster.
- Go to **System Configuration > Network Setup** in the main menu.
- 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 Bonding

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.
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 **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 <https://docs.progress.com/> page.

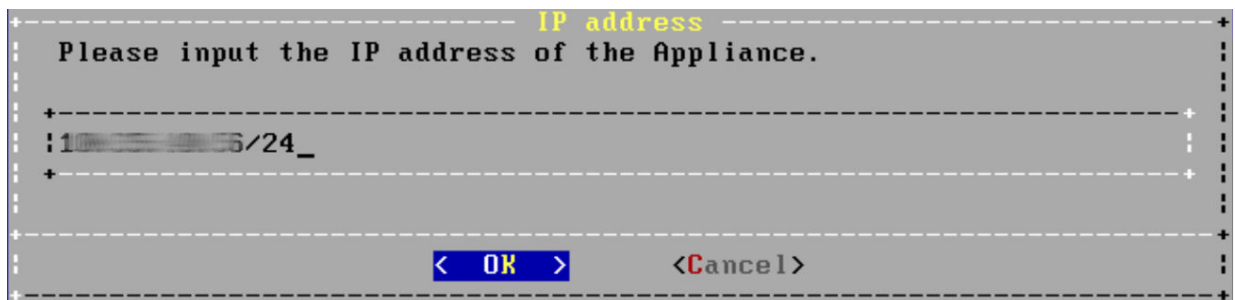
Configuring the LoadMaster Using the Console

Configuring the LoadMaster Using the Console

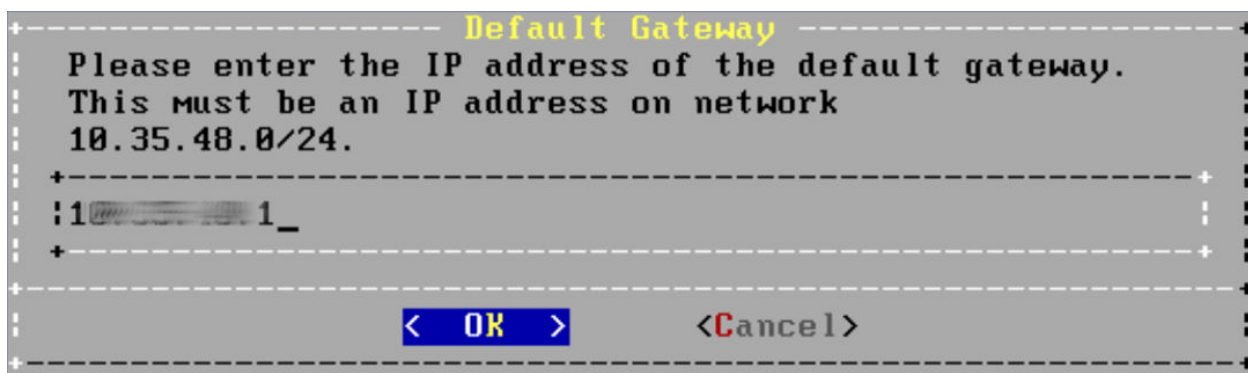
If the LoadMaster does not automatically obtain an IP address using DHCP, or if you would prefer to configure the LoadMaster using the console, then the following configuration steps must be completed before starting the LoadMaster.

1. Login into the LoadMaster using the console with the following settings:

- **lb100 login:** bal
- **Password:** 1fourall

A screenshot of a terminal window showing an 'IP address' configuration dialog. The dialog has a title bar with the text 'IP address'. Inside, it says 'Please input the IP address of the Appliance.' Below this is a text input field containing '10.10.10.1/24_'. At the bottom of the dialog are two buttons: '< OK >' and '< Cancel >'. The dialog is enclosed in a dashed border.

2. Enter the IP address of the eth0 interface, the network facing interface of the LoadMaster, in the input field within the **IP address** dialog box.
3. Press **OK**.



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.

Note: 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: <https://docs.progress.com/>.

References

References

Unless otherwise specified, the below documents can be found at <https://docs.progress.com/>

Licensing, Feature Description

Bare Metal Boot Options, Technical Note