



Fujitsu Primergy

Installation Guide

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1 Introduction

The Kemp LoadMaster load balancing solution is specifically optimized for the Fujitsu Primergy servers, enabling customers to deploy full-feature, high-performance load balancers. This can reduce network design complexity as well as increased performance. The Fujitsu Primergy servers are optimized for all types of business applications by focusing on versatility and scalability. 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 a Fujitsu Primergy Server.

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

1.1 Prerequisites

The following prerequisites are needed:

- A Fujitsu Primergy server
- A CD 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.
- A USB CD-ROM drive, or one built in to the server
- A USB keyboard and VGA monitor
- The boot order on the server should be configured as follows:
 1. CDROM
 2. HDD

1 Introduction

For instructions on how to configure the boot order, refer to:

<http://www.fujitsu.com/downloads/PRMRGY/configurationsheet-ca92276-8049-01.pdf>

2 Installing LoadMaster on the Fujitsu Server

The following steps must be completed in order to install the LoadMaster software on the Fujitsu Primergy server.

These instructions were written based on the Fujitsu Primergy RX300 S8.

2.1 Install the LoadMaster

To install the LoadMaster, follow the steps below:

1. Insert the CD into the CD-ROM drive.
2. Boot the server.

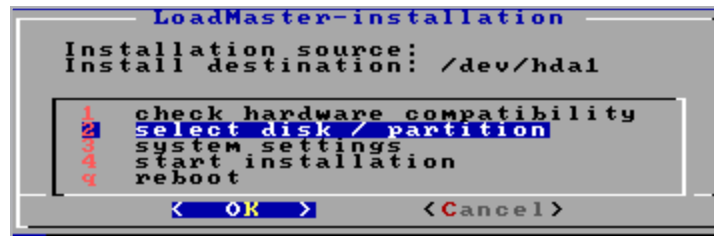
```
LoadMaster Installion:
Boot Menu:
<install> to start installation with no boot parameters
<acpinoirq> to boot with acpi=noirq
<acpino> to boot with acpi=no
<pcibiosirq> to boot with pci=biosirq
boot: _
```

3. Once the server boots from the CD, the LoadMaster installation begins automatically with no parameters if no boot parameters are entered.

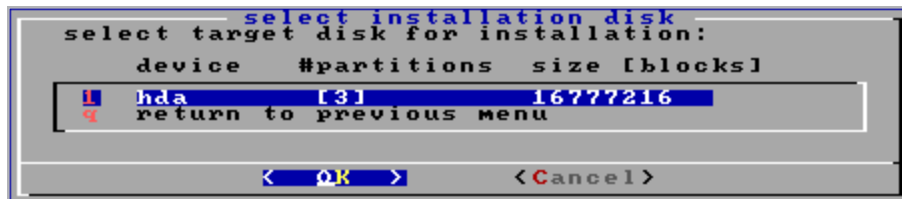
For further information on the different boot options that are available, refer to the [Bare Metal Boot Options, Technical Note](#).

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

2 Installing LoadMaster on the Fujitsu Server



4. Select disk/partition and press **OK**.



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



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



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

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

2.2 Boot the Installed LoadMaster

Before rebooting the server, eject the CD.

The server is now ready to be rebooted with the LoadMaster software installed on the local disk.

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Within the console, press **Ctrl-Alt-Del**.

The server should begin to boot from the local disk.

```
#####
#
# 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.
#
#####
```

The LoadMaster should obtain an IP address using DHCP, please note this value.

If the LoadMaster does not obtain an IP address using DHCP then the LoadMaster must be manually configured using the console. Please refer to the **Configuring the LoadMaster Using the Console** section for further information regarding manually configuring the LoadMaster.

After a successful boot, a login prompt will appear. Log in using the LoadMaster user credentials. The default login details are as follows:

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

2.3 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.

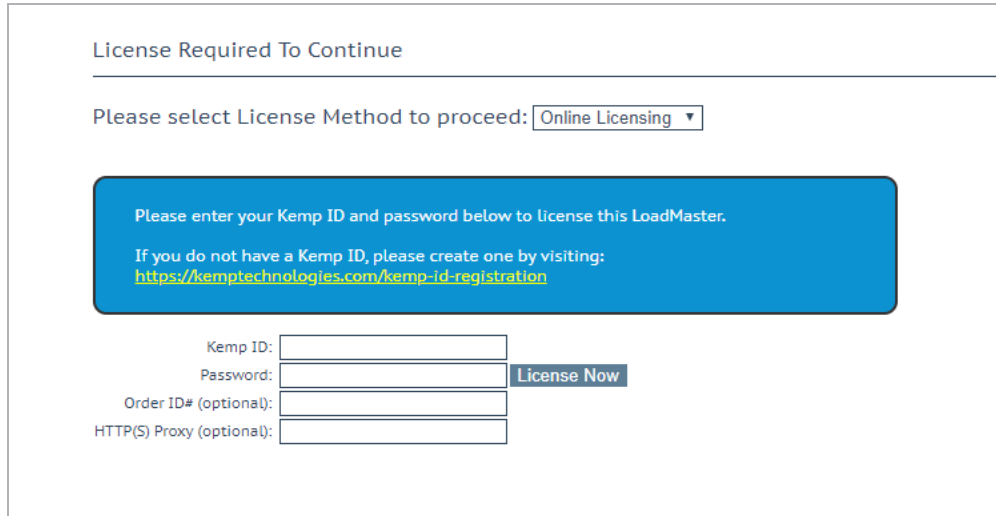
2. A warning may appear regarding website security certificates. Please click the continue/ignore option.

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.

4. A screen appears asking if you are OK with the LoadMaster regularly contacting Kemp to check for updates and other information. If you are OK with this, click **Continue** to proceed. If you want to disable this functionality, remove the check from the **Enable Call Home** check box and click **Continue** to proceed.

2 Installing LoadMaster on the Fujitsu Server



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):

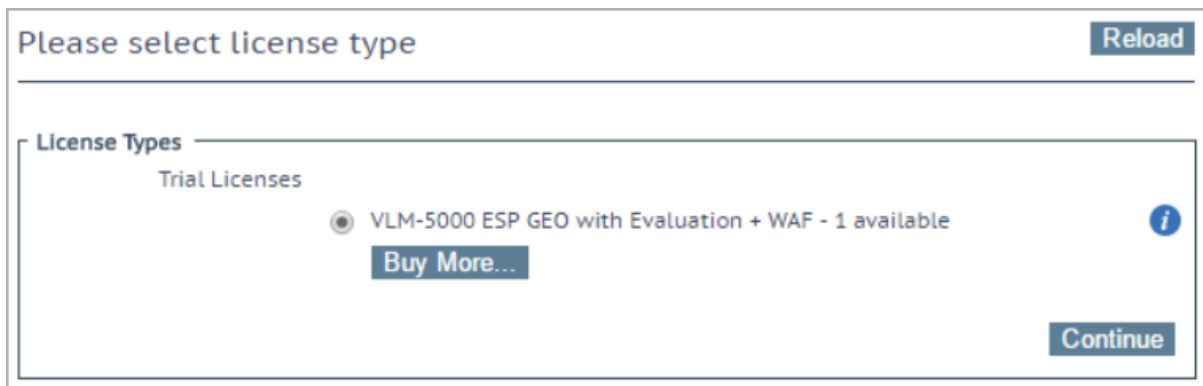
HTTP(S) Proxy (optional):

5. 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 Fujitsu Server

6. 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.

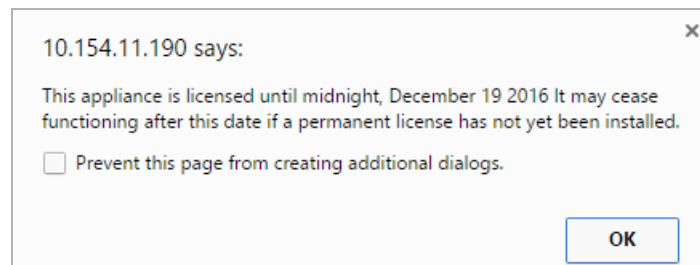
If the license type you want is not displayed, please contact your Kemp representative.

7. Click **Continue**.

8. The login screen appears, enter the **bal** user name and the password.

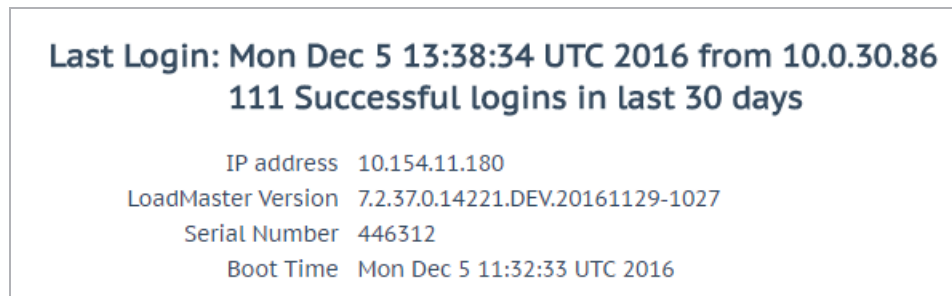
9. In the screen informing you that the password has changed, press the **Continue** button.

10. 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.



11. Click **OK**.

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



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

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

Network Interface 0	
Interface Address (address[/prefix])	<input type="text"/> Set Address
Link Status	Speed: 10000Mb/s, Full Duplex Automatic Force Link
MTU:	<input type="text" value="1500"/> Set MTU
Additional addresses (address[/prefix])	<input type="text"/> Add Address
VLAN Configuration Interface Bonding	

15. 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.

16. Click the **Set Address** button.

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

18. 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.

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

This interface is optional, depending on the network configuration.

20. Click on the **Local DNS Configuration > Hostname Configuration** menu option.

Set Hostname	
Hostname	<input type="text"/> Set Hostname

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

22. Click the **Set Hostname** button.

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

DNS Servers	
DNS NameServer (IP Address)	Operation
10.154.75.25	<button>Delete</button>
Add Nameserver	
IP Address <input type="text"/>	<button>Add</button>
Add Search Domain	
Domain <input type="text"/>	<button>Add</button>

24. 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.

25. Click the **Add** button.

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

27. Click the **Add** button.

28. 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"/>	<button>Set IPv4 Default Gateway</button>

29. 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.

30. Click the **Set IPv4 Default Gateway** button.

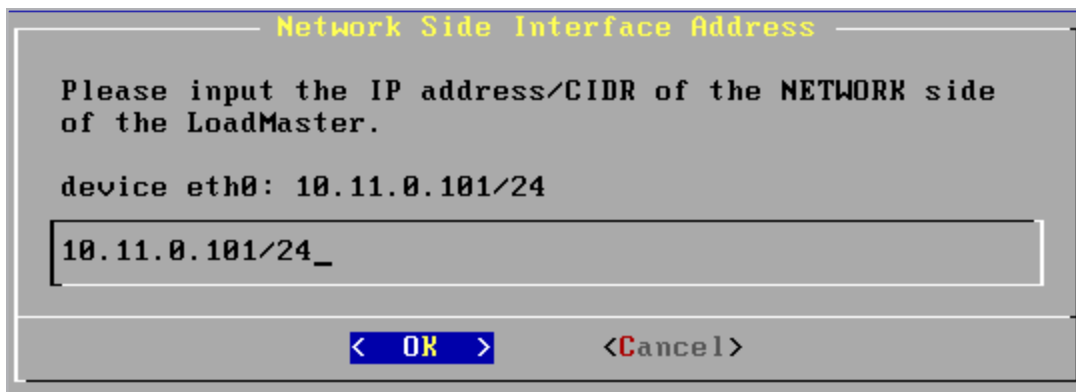
The LoadMaster is now fully installed and ready to be used. For further information on how to configure and implement the Virtual LoadMaster, please refer to the LoadMaster documentation which can be downloaded from the <http://kemptechnologies.com/documentation> page.

3 Configuring the LoadMaster Using the Console

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

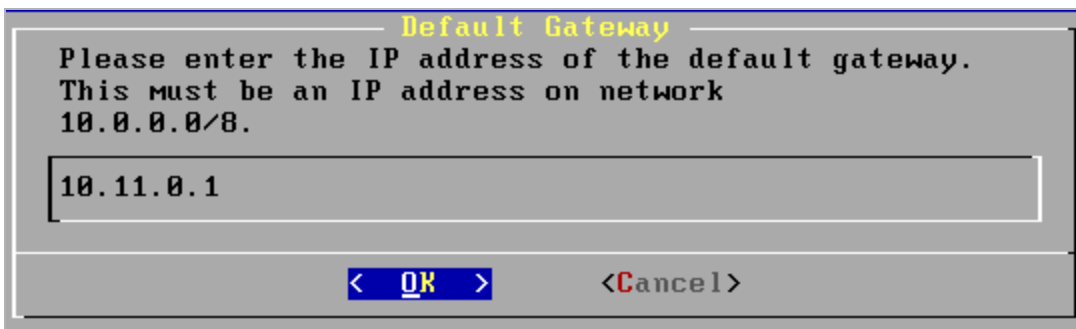
1. Login into the LoadMaster using the console with the following settings:

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



A screenshot of a terminal window showing a dialog box titled "Network Side Interface Address". The text inside the dialog box reads: "Please input the IP address/CIDR of the NETWORK side of the LoadMaster." Below this, it shows "device eth0: 10.11.0.101/24" and a text input field containing "10.11.0.101/24_". At the bottom of the dialog box, there are two buttons: "< OK >" and "<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**.



A screenshot of a terminal window showing a dialog box titled "Default Gateway". The text inside the dialog box reads: "Please enter the IP address of the default gateway. This must be an IP address on network 10.0.0.0/8." Below this, there is a text input field containing "10.11.0.1". At the bottom of the dialog box, there are two buttons: "< OK >" and "<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.

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 Appliance Vitals screen of the LoadMaster should appear.

3 Configuring the LoadMaster Using the Console

IP address	10.154.11.51 (lb100:10.154.11.50)
Serial Number	1050788
Boot Time	Tue Sep 8 09:30:58 UTC 2015
Active Since	Tue Sep 8 09:31:13 UTC 2015
LoadMaster Version	7.1-29-1851.20150907-1730
License	UUID: 6987ad8c-ff52-4158-acbb-372a07faa13d Activation date: Thu Aug 20 09:04:46 UTC 2015 Licensed until: September 20 2015 Support Level: Evaluation + WAF Support Until: Sat Aug 20 04:00:00 UTC 2016 License Type: VLM-5000 ESP GEO License Status: Single Temp Appliance Model: VLM-5000G+
	Upgrade ↗
CPU Load	2% <div></div>
TPS	Total 0 (SSL 0)
WAF Stats	Total handled: 0 Incidents: 0
NetLoad	Mbits/sec
eth0	0.0 <div></div>

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>.

4 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 27 July 2023.