



# **Installation Guide LoadMaster for Orange Flexible Engine Platform**

**8 January 2024**

# Copyright

---

Visit the following page online to see Progress Software Corporation's current Product Documentation Copyright Notice/Trademark Legend: [Product Documentation Copyright Notice & Trademarks | Progress](#)

# Table of Contents

**Chapter 1: Introduction. . . . . 4**

**Chapter 2: Prerequisites. . . . . 5**

**Chapter 3: Instantiating a LoadMaster in the Flexible Engine Platform. . . . . 6**

**Chapter 4: Best Practices for Backups. . . . . 11**

# Introduction

---

## Introduction

Flexible Engine is a Public Cloud solution, operated by Orange Business Services (OBS). It gives you access to an innovative and well performing infrastructure to host your traditional and cloud native applications.

The LoadMaster is an Application Delivery Controller that provides enhanced security, resiliency, and advanced load balancing capabilities in an easily managed solution.

---

# Prerequisites

---

## Prerequisites

The following prerequisites must be configured before attempting the steps in this document:

- You must have a Flexible Engine account.
- You must have access to the relevant Virtual Private Clouds (VPCs) and subnets.
- A security group must be configured specifying the relevant ports and protocols. We recommend having rules for TCP port 22 and TCP port 80.
- An existing key pair must be configured. This is not used for LoadMaster authentication but it is a required step during the setup. For further details, refer to the **Creating a key pair** section of the [Flexible Engine Startup Guide](#).
- An External IP address (EIP) must be configured.

# **Instantiating a LoadMaster in the Flexible Engine Platform**

---

## **Instantiating a LoadMaster in the Flexible Engine Platform**

To instantiate a LoadMaster in the Flexible Engine Platform, follow the steps below:

1. Log in to the Orange Business Services User Interface (UI).

The screenshot shows the Orange Business Services console interface. At the top, there's a navigation bar with the Orange logo, 'Business Services', a region selector set to 'eu-west-0', and links for 'Homepage', 'Service List', and 'Favorites'. Below this, the 'Service List' is divided into two columns: 'Computing' and 'Storage'. Under 'Computing', several services are listed: Elastic Cloud Server, Bare Metal Server, Cloud Server Backup Service, Cloud Container Engine, Image Management Service (which is highlighted with a grey background and a heart icon), Auto Scaling, Dedicated Cloud, and Dedicated Host. Under 'Storage', the services listed are Cloud Backup and Recovery (Beta), Elastic Volume Service, Dedicated Storage Service, Storage Disaster Recovery Service, Volume Backup Service, Object Storage Service, and Scalable File Service.

2. Click **Service List** and **Image Management Service**.

The screenshot shows the 'Image Management Service' console. At the top, there's a header with the service name and a '+ Create Image' button. Below this, there are tabs for 'Public Images', 'Private Images', and 'Images Shared with Me'. A search bar is present with filters for 'All images', 'All OSs', and a search term 'Kemp'. Below the search bar is a table of images. The table has columns: Provider, Name, Status, OS, Image Type, Disk Capacity (GB), and Operation. The first row shows a 'Kemp' image with a status of 'Normal', OS 'Other Linux(64 bit)', and a disk capacity of 20 GB. The 'Operation' column for this row has a button labeled 'Apply for Server'.

3. Search for **Kemp** and click **Apply for Server**.

The screenshot shows the configuration wizard for the LoadMaster instance. It has four steps: 1. Configure Basic Settings (active), 2. Configure Network, 3. Configure Advanced Settings, and 4. Confirm. In the 'Configure Basic Settings' step, there are two main sections: 'Region' and 'AZ'. The 'Region' section shows 'eu-west-0' selected, with a note: 'To select a different region, use the region selector at the upper left of the main menu bar. ECSs within the same region can communicate over an internal network. For low network latency and quick access, select the nearest region.' The 'AZ' section shows 'Random' selected, with other options 'eu-west-0b', 'eu-west-0a', and 'eu-west-0c' available.

4. Select the relevant **Region**.
5. Select the relevant specification.

System Disk Common I/O − 20 + GB IOPS limit: 20, IOPS burst limit: 1,000 ?

+ Add Data Disk You can attach 23 more disks.

**Note:** Ensure to select a configuration with a minimum of 2 vCPUs and 2 GB of memory.

6. Enter the disk size.

**Note:** 20 GB is the recommended disk size. There is no need to add an extra disk.

7. Click **Next: Configure Network** in the bottom-right.

1 Configure Basic Settings 2 **Configure Network** 3 Configure Advanced Settings 4 Confirm

Network vpc-west0-vlan-0(192.168.0.0/24) C

subnet-vlan-0(192.168.0.0/24) C Manually-specified IP address 192 . 168 . 0 . 12 View In-Use IP Addresses 245 available private IP addresses ?

Create VPC.

Extension NIC + Add NIC You can add 11 more NICs.

8. Select the relevant VPC and specify the IP address details.

Security Group default (b40092ec-b4d3-4c56-a479-fbe25fcd21c) C Create Security Group ?

sg-f205 (fec4c2c2-e5a4-46c4-a870-b972d7544126) C

Ensure that the selected security group allows access to port 22 (SSH-based Linux login), 3389 (Windows login), and ICMP (ping operation). [Configure Security Group Rules](#)

[Security Group Rules](#) ^

9. Select the relevant security groups.

EIP ☐ Do not use ☐ Auto assign ☒ Specify ?

If you specify an EIP, you can create only one ECS at a time.

90.84.180.173 C

Current EIP Bandwidth: 5 Mbit/s

10. Specify the relevant Elastic IP (EIP).
11. Click **Next: Configure Advanced Settings** in the bottom-right.



Login Mode **Key pair**

To click Remote Login to log in to a Linux ECS in key pair login mode, you must set a login password after the ECS is created. [Learn how](#) to set the password.

The private key will be required for logging in to the ECS and for reinstalling or changing the OS. Keep it secure.

Key Pair  [C](#) [Create Key Pair](#) [?](#)


☒ I acknowledge that I have obtained private key file KeyPair-vlm-23-6-2020.pem and that without this file I will not be able to log in to my ECS.

After a Linux ECS is created, use this key pair to log in to the ECS. After a Windows ECS is created, locate the row that contains the ECS in the ECS list, click Get Password in the Operation column, and use this key pair to obtain the ECS login password. [Learn how](#) to obtain the Windows ECS login password.

12. Select the relevant key pairs.

[Previous](#) [Create Now](#)

13. Confirm the settings and click **Create Now**.

<input type="checkbox"/>	Name/ID	AZ	Status
<input type="checkbox"/>	<b>VLM-12</b> 5992f679-d810-4318-b2c8-a88b1fd3...	eu-west-0a	 Creating

14. Wait for the LoadMaster to be created. This can take a couple of minutes.

<input type="checkbox"/>	Name/ID	AZ	Status
<input type="checkbox"/>	<b>VLM-12</b> 5992f679-d810-4318-b2c8-a88b1fd3...	eu-west-0a	 Running

15. Click the refresh button. The **Status** will change to **Running** when the LoadMaster is created successfully.

## License Required To Continue

---

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 Identifier:

Password:

License Now

Order ID (optional):

HTTP(S) Proxy (optional):

### 16. Access the LoadMaster using the EIP.

For details on licensing the LoadMaster, refer to the [Licensing Feature Description](#) document.

---

# Best Practices for Backups

---

## Best Practices for Backups

Hypervisor snapshots cannot be used to restore a LoadMaster to a working state. The best way to back up your LoadMaster settings is by using the native backup and restore facility in the LoadMaster WUI or API.

To back up your LoadMaster configuration, follow these steps:

1. In the main menu, go to **System Configuration > System Administration > Backup/Restore**.
2. Click **Create Backup File**.

You can create a remote host for automated backups using SCP to save backups to a remote server.

For further details on backing up and restoring the LoadMaster configuration, including certificates and cipher sets, refer to the following links:

- [Backup and Restore Technical Note](#)
- [How to Create and Restore a LoadMaster Configuration or Certificate Backup](#)