



# Ellucian Portal

## Deployment Guide

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# 1 Introduction

Ellucian Luminis Portal is a web services and delivery environment tailored for higher education. It enables you to provide an interactive and collaborative environment. It supports a richer, more personalized user experience, improved information and service delivery and simplified administration and technology management.

## 1.1 Document Purpose

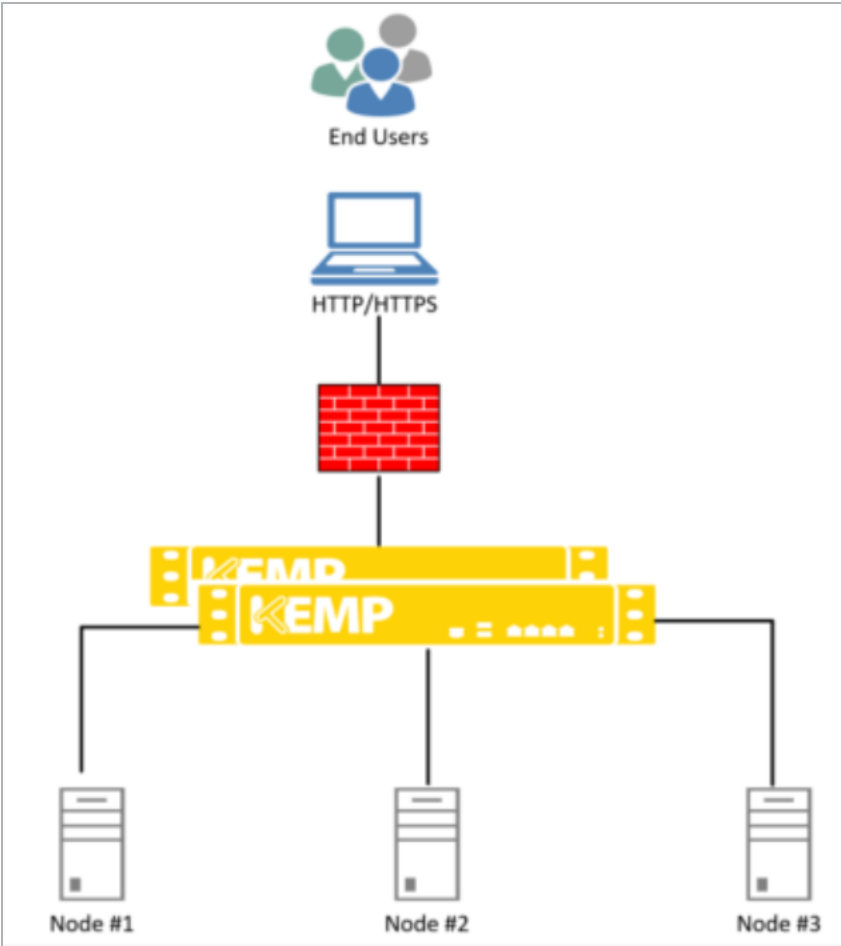
This document provides the recommended LoadMaster settings used when load balancing the Ellucian Luminis Portal workload. The Kemp Support Team is available to provide solutions for scenarios not explicitly defined. The Kemp support site can be found at:

<https://support.kemptechnologies.com>.

## 1.2 Intended Audience

This document is for anyone deploying Ellucian Luminis Portal with a Kemp LoadMaster.

# 2 Architecture



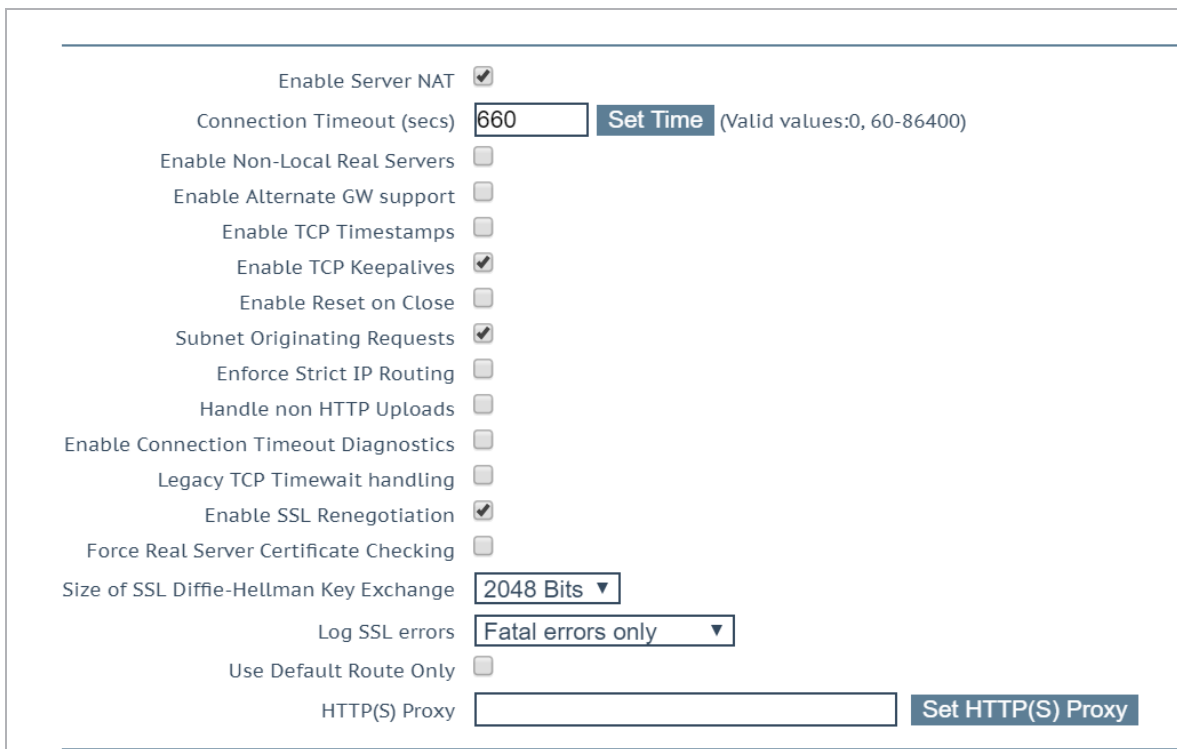
# 3 Configure the LoadMaster

Follow the steps in the sections below to configure the LoadMaster with the recommended settings to load balance the Ellucian Luminis Portal workload.

## 3.1 Enable Check Persist Globally

It is recommended that you change the **Always Check Persist** option to **Yes – Accept Changes**. Use the following steps:

1. Go to **System Configuration > Miscellaneous Options > L7 Configuration**.



Enable Server NAT	<input checked="" type="checkbox"/>
Connection Timeout (secs)	660 <a href="#">Set Time</a> (Valid values:0, 60-86400)
Enable Non-Local Real Servers	<input type="checkbox"/>
Enable Alternate GW support	<input type="checkbox"/>
Enable TCP Timestamps	<input type="checkbox"/>
Enable TCP Keepalives	<input checked="" type="checkbox"/>
Enable Reset on Close	<input type="checkbox"/>
Subnet Originating Requests	<input checked="" type="checkbox"/>
Enforce Strict IP Routing	<input type="checkbox"/>
Handle non HTTP Uploads	<input type="checkbox"/>
Enable Connection Timeout Diagnostics	<input type="checkbox"/>
Legacy TCP Timewait handling	<input type="checkbox"/>
Enable SSL Renegotiation	<input checked="" type="checkbox"/>
Force Real Server Certificate Checking	<input type="checkbox"/>
Size of SSL Diffie-Hellman Key Exchange	2048 Bits ▼
Log SSL errors	Fatal errors only ▼
Use Default Route Only	<input type="checkbox"/>
HTTP(S) Proxy	<input type="text"/> <a href="#">Set HTTP(S) Proxy</a>

2. Click the **Always Check Persist** drop-down arrow and select **Yes – Accept Changes**.

## 3.2 Enable Subnet Originating Requests Globally

It is best practice to enable the **Subnet Originating Requests** option globally.

### 3 Configure the LoadMaster

In a one-armed setup (where the Virtual Service and Real Servers are on the same network/subnet) **Subnet Originating Requests** is usually not needed. However, enabling **Subnet Originating Requests** should not affect the routing in a one-armed setup.

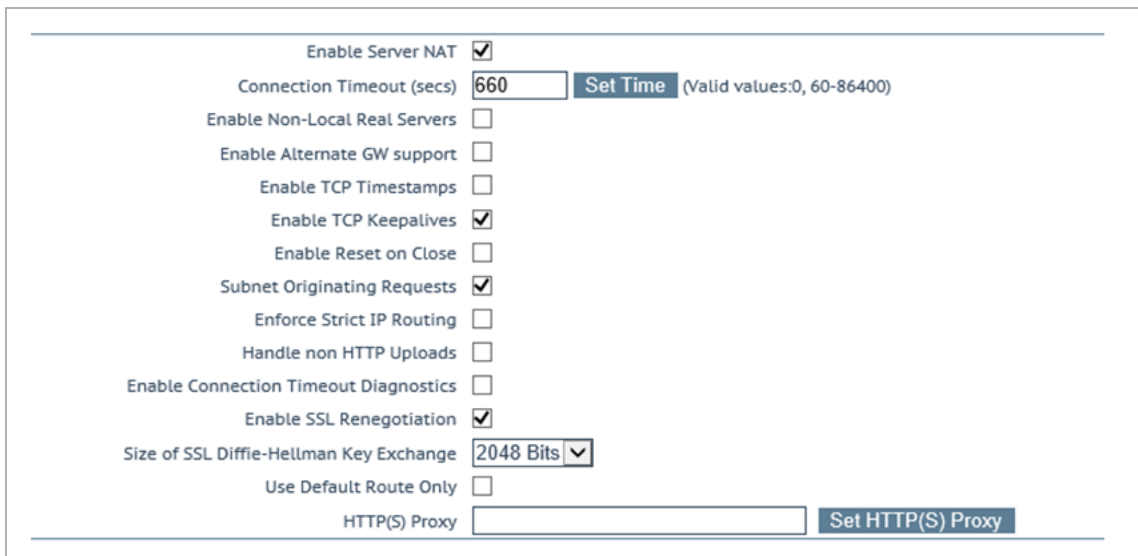
In a two-armed setup where the Virtual Service is on network/subnet A, for example, and the Real Servers are on network B, **Subnet Originating Requests** should be enabled on LoadMasters with firmware version 7.1-16 and above.

When **Subnet Originating Requests** is enabled, the LoadMaster routes traffic so that the Real Server sees traffic arriving from the LoadMaster interface that is in that network/subnet.

When **Subnet Originating Requests** is enabled globally, it is automatically enabled on all Virtual Services. If the **Subnet Originating Requests** option is disabled globally, you can choose whether to enable **Subnet Originating Requests** on a per-Virtual Service basis.

To enable **Subnet Originating Requests** globally, follow the steps below:

1. In the main menu of the LoadMaster Web User Interface (WUI), go to **System Configuration > Miscellaneous Options > Network Options**.



Enable Server NAT	<input checked="" type="checkbox"/>
Connection Timeout (secs)	660 <span>Set Time</span> (Valid values:0, 60-86400)
Enable Non-Local Real Servers	<input type="checkbox"/>
Enable Alternate GW support	<input type="checkbox"/>
Enable TCP Timestamps	<input type="checkbox"/>
Enable TCP Keepalives	<input checked="" type="checkbox"/>
Enable Reset on Close	<input type="checkbox"/>
Subnet Originating Requests	<input checked="" type="checkbox"/>
Enforce Strict IP Routing	<input type="checkbox"/>
Handle non HTTP Uploads	<input type="checkbox"/>
Enable Connection Timeout Diagnostics	<input type="checkbox"/>
Enable SSL Renegotiation	<input checked="" type="checkbox"/>
Size of SSL Diffie-Hellman Key Exchange	2048 Bits <span>▼</span>
Use Default Route Only	<input type="checkbox"/>
HTTP(S) Proxy	<input type="text"/> <span>Set HTTP(S) Proxy</span>

2. Select the **Subnet Originating Requests** check box.

# 4 Configure the Luninis Portal Reencrypted Virtual Service

Follow the steps below to create and configure the recommended settings for the Luninis Portal Reencrypted Virtual Service:

1. In the main menu of the LoadMaster Web User Interface (WUI), go to **Virtual Services > Add New**.

Please Specify the Parameters for the Virtual Service.

Virtual Address

10.154.11.186

Port

443

Service Name (Optional)

Luminis Portal Reenc

Use Template

Select a Template

Protocol

tcp

Cancel

Add this Virtual Service

2. Type a valid IP address in the **Virtual Address** text box.
3. Type **443** in the **Port** text box.
4. Enter a recognizable **Service Name**, for example, **Luminis Portal Reencrypted**.
5. Ensure **tcp** is selected as the **Protocol**.
6. Click **Add this Virtual Service**.
7. Configure the settings as shown in the following table:

Section	Option	Value	Comment
<b>Standard Options</b>	Persistence Mode	Active Cookie	You must enable SSL Acceleration before you can select Active Cookie



#### 4 Configure the Luninis Portal Reencrypted Virtual Service

Section	Option	Value	Comment
	Timeout	1 Hour	
	Cookie name	jsessionid	
	Scheduling Method	least connection	
	Idle Connection Timeout	660	
<b>SSL Properties</b>	SSL Acceleration	Enabled	
	Reencrypt	Selected	
	Supported Protocols	TLS1.0	While this workload may not support TLS1.3 yet, Kemp recommend enabling it for future proofing.
		TLS1.1	
		TLS1.2	
		TLS1.3	
	Cipher Set	BestPractices	
<b>Advanced Properties</b>	Add a Port 80 Redirector VS	https://%h%s	<p>Click <b>Add HTTP Redirector</b>. This automatically creates a redirect on port 80.</p> <p><b>Note:</b> This field disappears after it is clicked.</p>
<b>Real Servers</b>	Real Server Check Method	HTTPS Protocol	
	Checked Port	443	

8. Add the Real Servers:

- Expand the **Real Servers** section.
- Click **Add New**.
- Type the address of the Real Server.
- Type **443** as the **Port**.
- Click **Add This Real Server**.

f) Repeat the steps above to add more Real Servers as needed, based on the environment.

## 4.1 Configure the Luminis Portal Reencrypted HTTP Redirect Virtual Service

Clicking the **Add HTTP Redirector** button automatically creates a port 80 redirect Virtual Service. This is optional, but the purpose of this Virtual Service is to redirect any clients who have connected using HTTP to the HTTPS Virtual Service. Kemp also recommends changing the **Real Server Check Method** and **Persistence Mode** to **None**.

# Last Updated Date

This document was last updated on 27 July 2023.