



Edupoint Synergy

Deployment Guide

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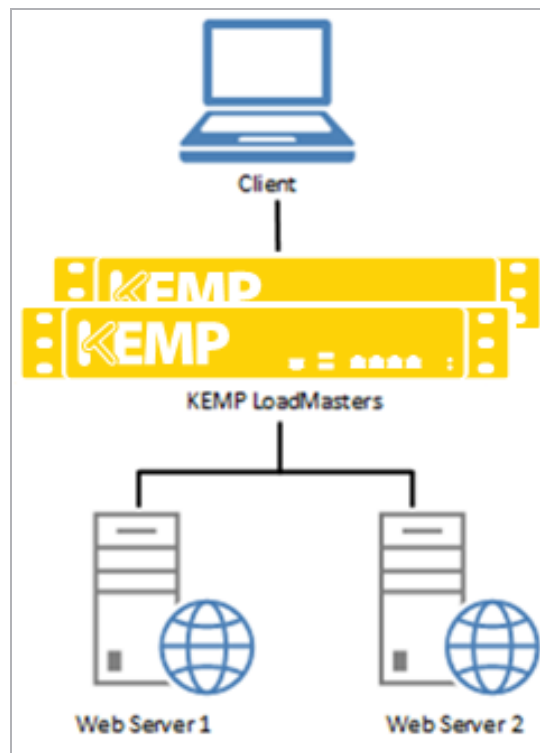
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1 Introduction

Edupoint Synergy is a web-based solution that delivers Student Information System (SIS) features. Synergy is Schools Interoperability Framework (SIF) compliant and SIF-certified. Synergy delivers features and compliance reporting capabilities through a flexible, customizable architecture that:

- Streamlines workflow
- Supports data-driven decision making
- Facilitates collaborative communications

Synergy tracks and manages all essential district and student data while streamlining all essential K-12 student information management processes.



The Kemp LoadMaster can be used to load balance the Edupoint Synergy workload. The LoadMaster offers advanced Layer 4 and Layer 7 server load balancing, content switching, SSL Acceleration and a multitude of other advanced Application Delivery and Optimization (ADC) features. The LoadMaster intelligently and efficiently distributes user traffic among application servers so that users get the best experience possible.

1.1 Document Purpose

The purpose of the document is to outline steps on how to configure the Kemp LoadMaster to load balance the Edupoint Synergy workload.

1.2 Intended Audience

This document is intended to be read by anyone who is interested in finding out how to load balance Edupoint Synergy using a Kemp LoadMaster.

2 Configuring the LoadMaster

Two Virtual Services are needed to load balance the Edupoint Synergy workload. This Virtual Services can be configured manually, or a template can be used to quickly and easily configure the Virtual Services with the recommended settings. Refer to the relevant section below to find out how to create the Virtual Services.

2.1 Manually Configure the Virtual Services

2.1.1 Create the Virtual Service

To manually configure the Virtual Services, follow the steps below in the LoadMaster Web User Interface (WUI):

1. In the main menu, select **Virtual Services > Add New**.

Please Specify the Parameters for the Virtual Service.

| | |
|-------------------------|--|
| Virtual Address | <input type="text" value="10.11.0.37"/> |
| Port | <input type="text" value="443"/> |
| Service Name (Optional) | <input type="text" value="Edupoint Synergy HTTP"/> |
| Use Template | <input type="text" value="Select a Template"/> |
| Protocol | <input type="text" value="tcp"/> |

2. Enter a valid **Virtual Address**.
3. Enter **443** as the **Port**.
4. Enter a recognizable Service Name, for example **Edupoint Synergy HTTPS Offloaded**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

| Section | Option | Value | Comment |
|----------------|------------------|---------|---------|
| SSL Properties | SSL Acceleration | Enabled | |
| | Reencrypt | Enabled | |


| Section | Option | Value | Comment |
|---------------------|------------------|---------------|------------------------------------|
| Standard Options | Persistence Mode | Active Cookie | |
| | Timeout | 1 Hour | |
| | Cookie Name | LM_Synergy | Click Set Cookie . |
| Advanced Properties | Add HTTP Headers | None | Click Add HTTP Redirector . |

7. Add any Real Servers as needed.

2.1.2 Modify the Redirector Virtual Service

When **Add HTTP Redirector** is clicked, a redirector Virtual Service is automatically created. To configure this Virtual Service, follow the steps below:

1. In the main menu, select **Virtual Services > View/Modify Services**.

| Status | Real Servers | Operation |
|---|--------------|---|
|  Redirect | | Modify Delete |
|  Up | 10.154.201.2 | Modify Delete |

2. Click **Modify** on the redirect Virtual Service.

| Basic Properties | |
|--------------------------------|---|
| Service Name | Edupoint Synergy HTTPS Offloaded Set Nickname |
| Alternate Address | <input type="text"/> Set Alternate Address |
| Service Type | HTTP/HTTPS ▼ |
| Activate or Deactivate Service | <input checked="" type="checkbox"/> |

3. Enter a recognizable **Service Name**, for example **Edupoint Synergy HTTPS Offloaded HTTP Redirection**.

| | |
|---------------------------------------|---|
| ▼ Standard Options | |
| Transparency | <input type="checkbox"/> |
| Subnet Originating Requests | <input type="checkbox"/> |
| Extra Ports | <input type="text"/> Set Extra Ports |
| Persistence Options | Mode: <input type="text" value="None"/> ▼ |
| Scheduling Method | <input type="text" value="round robin"/> ▼ |
| Idle Connection Timeout (Default 660) | <input type="text"/> Set Idle Timeout |
| Quality of Service | <input type="text" value="Normal-Service"/> ▼ |

4. Select **None** as the **Persistence Mode**.

2.1.3 Create the Virtual Services using a Template

Kemp has developed a template containing the recommended settings for Edupoint Synergy. This template can be installed on the LoadMaster and can be used when creating each the Virtual Services. Using a template automatically populates the settings in the Virtual Services. This is quicker and easier than manually configuring each Virtual Service. If needed, you can make changes to any of the Virtual Service settings after using the templates.

Released templates can be downloaded from the Kemp website: [Templates](#).

For more information and steps on how to import and use templates, refer to the [Virtual Services and Templates, Feature Description](#).

If you create another Virtual Service using the same template, ensure to change the **Service Name** to a unique name.

References

Unless otherwise specified, the following documents can be found at <https://support.kemptechnologies.com>.

Virtual Services and Templates, Feature Description

Web User Interface (WUI), Configuration Guide

Last Updated Date

This document was last updated on 27 July 2023.