Progress®
Kemp® LoadMaster®

Deployment Guide Edupoint Synergy

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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 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.

Related Links

For details, see the following topics:

- Document Purpose
- Intended Audience

Document Purpose

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

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 LoadMaster.

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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.

Related Links

For details, see the following topics:

- Manually Configure the Virtual Services

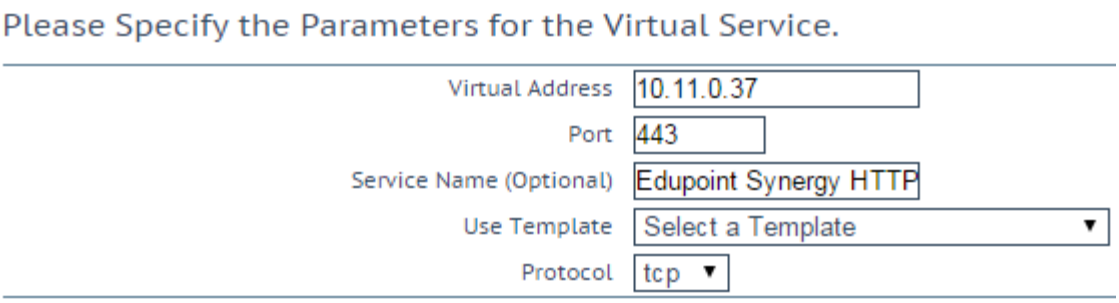
Manually Configure the Virtual Services

Refer to the following sections for details on how to manually configure the Virtual Services on the LoadMaster.

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**.



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	
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.

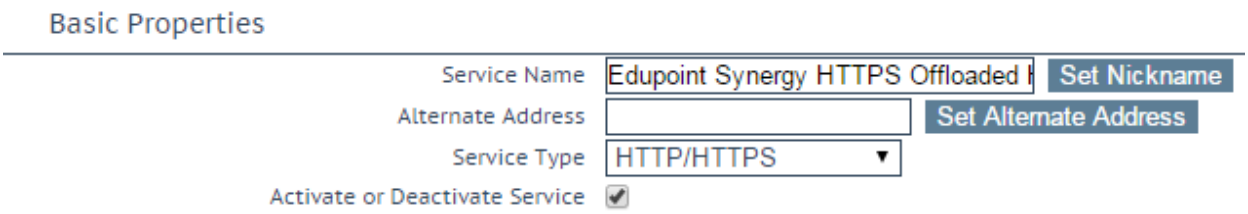
Modify the Redirector Virtual Service

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

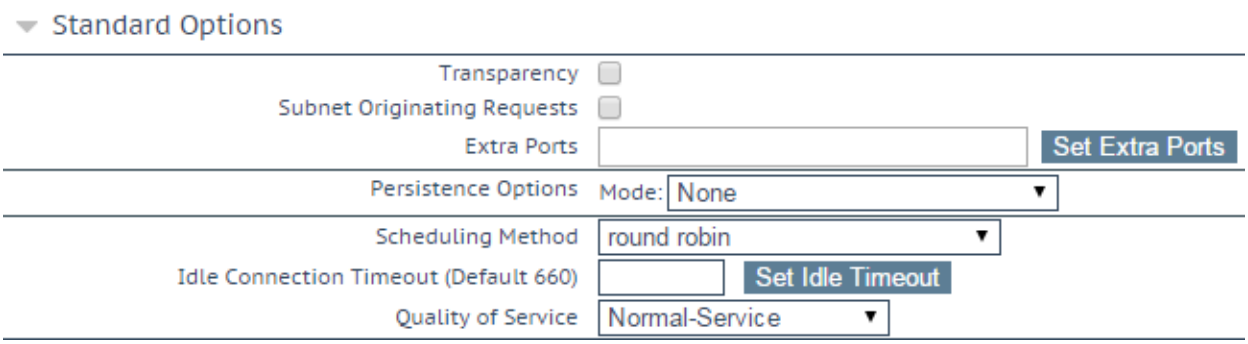
1. In the main menu, select **Virtual Services > View/Modify Services**.



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



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



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

Create the Virtual Services using a Template

Progress 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 Progress Kemp website: Templates.

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

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

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References

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

Virtual Services and Templates, Feature Description

Web User Interface (WUI), Configuration Guide