Progress®
Kemp® LoadMaster®

Deployment Guide Clearswift

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Table of Contents

Chapter 1: Introduction 4

Chapter 2: Template 6

Chapter 3: Create the Clearswift Web Gateway Virtual Service. 8

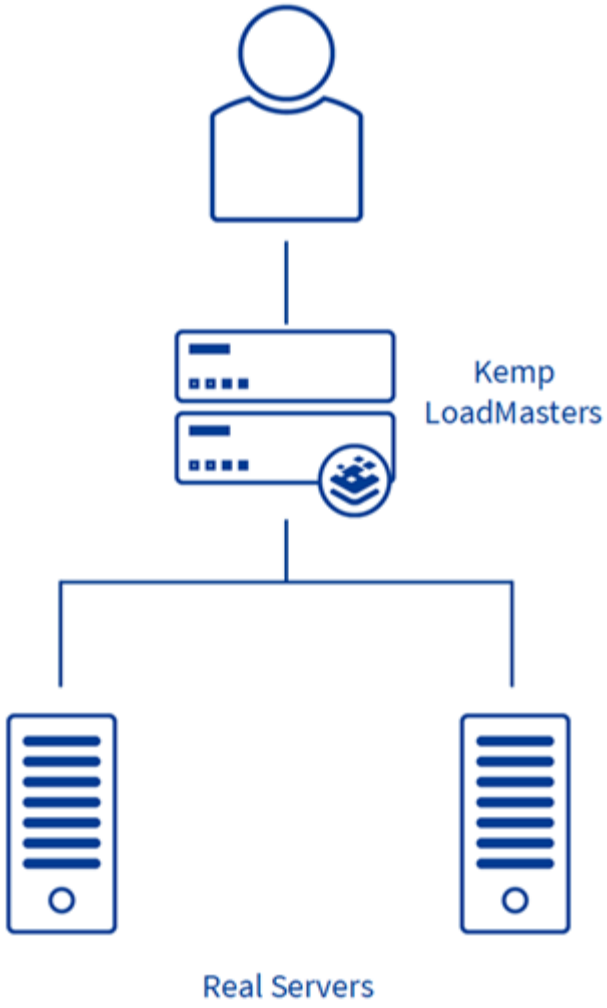
Chapter 4: ClearSwift Virtual Service Recommended API Settings (optional) 9

Chapter 5: Server Side Modifications 10

1

Introduction

This guide details the steps required to configure a load-balanced Clearswift Secure Web Gateway environment. It covers the configuration of the LoadMasters and any Clearswift Secure Web Gateway configuration changes that are required to enable load balancing.



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

This document provides guidance and recommended settings on how to load balance Clearswift servers with a LoadMaster. The Progress Kemp Support Team is available to provide solutions for scenarios not explicitly defined.

2

Template

Progress Kemp has developed a template containing our recommended settings for this workload. You can install this template to help create Virtual Services (VSs) because it automatically populates the settings. You can use the template to easily create the required VSs with the recommended settings. For some workloads, additional manual steps may be required such as assigning a certificate or applying port following. These steps are covered in the document, if needed.

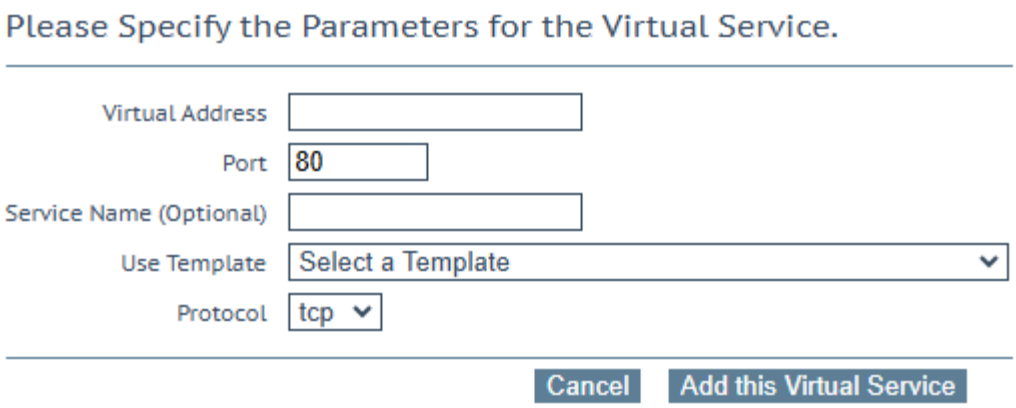
You can remove templates after use and this will not affect deployed services. If needed, you can make changes to any of the VS settings after using the template.

Download released templates from the following page: LoadMaster Templates.

You can import templates to the LoadMaster through the **Manage Templates** page under **Virtual Services** in the main menu of the LoadMaster User Interface (UI).

Click **Choose File**, select the template to install and click **Add New Template**. The template will then be available to select when you are adding a new Virtual Service.

To begin the process of creating a new Virtual Service, click **Virtual Services** and **Add New** in the main menu.



This opens the Virtual Service parameters page which prompts to enter the Virtual IP (VIP) address of the Virtual Service, the port, and the name to give the service and the protocol. You can select a previously-imported template in the **Use Template** drop-down list.

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

3

Create the Clearswift Web Gateway Virtual Service

This step-by-step set up of the Virtual Service (VS) leverages the Progress Kemp application template for ClearSwift Web Gateway servers.

The table in each section outlines the settings configured by the application template. You can use this information to manually configure VS or use the LoadMaster API and automation tools.

To configure a VS using the application template, perform the following steps:

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > Add New**.
2. Type a valid **Virtual Address**.
3. Select **ClearSwift Web Gateway** in the **Use Template** drop-down list.
4. Click **Add this Virtual Service**.
5. Expand the **Real Servers** section.
6. Click **Add New**.
7. Type the **Real Server Address**. (This is the Clearswift servers)
8. Confirm that port **8080** is entered.
9. Click **Add This Real Server**.
10. Repeat this step to add more Real Servers as needed.

4

ClearSwift Virtual Service Recommended API Settings (optional)

This table outlines the API parameters and values set using the Progress Kemp application template. You can use these settings with scripts and automation tools.

API Parameter	API Value
port	8080
prot	tcp
Transparent	1
Persist	src
PersistTimeout	360
schedule	lc
idletime	3600
CheckType	tcp
CheckPort	8080

5

Server Side Modifications

Since we are using L7 transparency, we must ensure the return traffic from the servers go back to the LoadMaster to ensure a symmetrical flow of traffic. We will do this by changing the default gateway of each of the servers to point to the interface address on the network on the LoadMaster. This will normally be Eth0 or Eth1 depending on your configuration.

Clearswift Proxy Mode will be set to **Standard Proxy Mode**.