

Clearswift

Deployment Guide

UPDATED: 28 July 2023

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

These materials and all Progress® software products are copyrighted and all rights are reserved by Progress Software Corporation. The information in these materials is subject to change without notice, and Progress Software Corporation assumes no responsibility for any errors that may appear therein. The references in these materials to specific platforms supported are subject to change.

#1 Load Balancer in Price/Performance, 360 Central, 360 Vision, Chef, Chef (and design), Chef Habitat, Chef Infra, Code Can (and design), Compliance at Velocity, Corticon, Corticon.js, DataDirect (and design), DataDirect Cloud, DataDirect Connect, DataDirect Connect64, DataDirect XML Converters, DataDirect XQuery, DataRPM, Defrag This, Deliver More Than Expected, DevReach (and design), Driving Network Visibility, Flowmon, Inspec, Ipswitch, iMacros, K (stylized), Kemp, Kemp (and design), Kendo UI, Kinvey, LoadMaster, MessageWay, MOVEit, NativeChat, OpenEdge, Powered by Chef, Powered by Progress, Progress, Progress Software Developers Network, SequeLink, Sitefinity (and Design), Sitefinity, Sitefinity (and design), Sitefinity Insight, SpeedScript, Stylized Design (Arrow/3D Box logo), Stylized Design (C Chef logo), Stylized Design of Samurai, TeamPulse, Telerik, Telerik (and design), Test Studio, WebSpeed, WhatsConfigured, WhatsConnected, WhatsUp, and WS_FTP are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries.

Analytics360, AppServer, BusinessEdge, Chef Automate, Chef Compliance, Chef Desktop, Chef Workstation, Corticon Rules, Data Access, DataDirect Autonomous REST Connector, DataDirect Spy, DevCraft, Fiddler, Fiddler Classic, Fiddler Everywhere, Fiddler Jam, FiddlerCap, FiddlerCore, FiddlerScript, Hybrid Data Pipeline, iMail, InstaRelinker, JustAssembly, JustDecompile, JustMock, KendoReact, OpenAccess, PASOE, Pro2, ProDataSet, Progress Results, Progress Software, ProVision, PSE Pro, Push Jobs, SafeSpaceVR, Sitefinity Cloud, Sitefinity CMS, Sitefinity Digital Experience Cloud, Sitefinity Feather, Sitefinity Thunder, SmartBrowser, SmartComponent, SmartDataBrowser, SmartDataObjects, SmartDataView, SmartDialog, SmartFolder, SmartFrame, SmartObjects, SmartPanel, SmartQuery, SmartViewer, SmartWindow, Supermarket, SupportLink, Unite UX, and WebClient are trademarks or service marks of Progress Software Corporation and/or its subsidiaries or affiliates in the U.S. and other countries. Java is a registered trademark of Oracle and/or its affiliates. Any other marks contained herein may be trademarks of their respective owners.

Please refer to the NOTICE.txt or Release Notes – Third-Party Acknowledgements file applicable to a particular Progress product/hosted service offering release for any related required third-party acknowledgements.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

Table of Contents

1 Introduction **4**

2 Template **6**

3 ClearSwift Virtual Service **7**

3.1 Create the Clearswift Web Gateway Virtual Service 7

3.1.1 ClearSwift Virtual Service Recommended API Settings (optional) 7

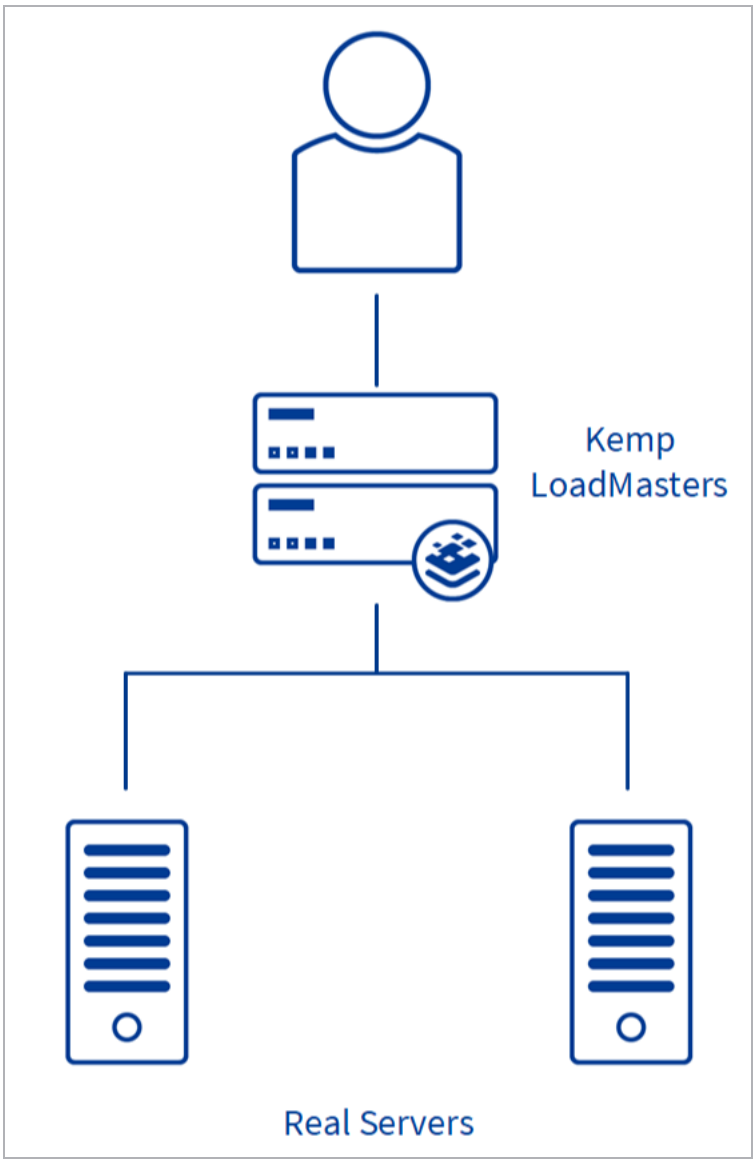
4 Server Side Modifications **9**

Last Updated Date **10**

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

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 Kemp

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

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 Kemp LoadMaster. The Kemp Support Team is available to provide solutions for scenarios not explicitly defined.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

2 Template

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.

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

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

3 ClearSwift Virtual Service

You can configure the necessary Virtual Service in a number of ways; using the template, manually configuring the settings, or using the Application Programming Interface (API). Refer to the relevant section below for further details.

3.1 Create the Clearswift Web Gateway Virtual Service

This step-by-step set up of the Virtual Service (VS) leverages the 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 Kemp 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.

3.1.1 ClearSwift Virtual Service Recommended API Settings (optional)

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

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

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

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

4 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**.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

Last Updated Date

This document was last updated on 28 July 2023.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.