

Xerox

Deployment Guide

UPDATED: 27 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 **5**

3 Virtual Service - Xerox Print **6**

3.1 Using the Template 6

3.2 API Configuration 7

4 Registry Modifications **8**

5 Configuring Name Resolution **10**

6 Finalizing the Server Configuration **11**

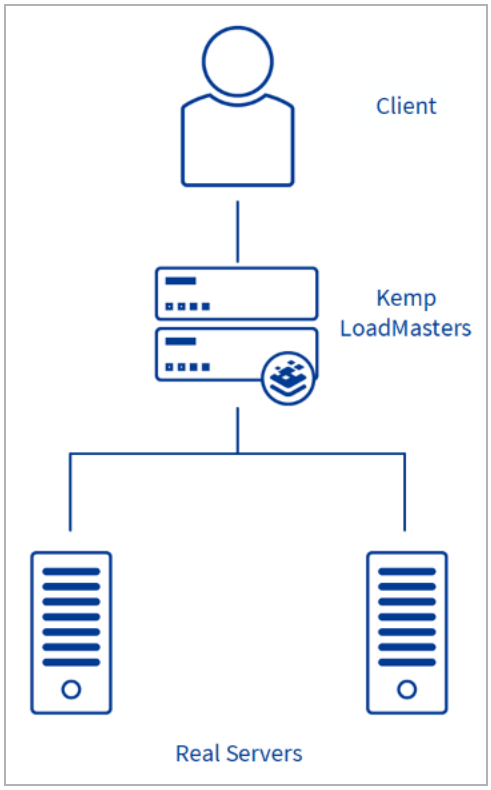
7 Testing the Load Balanced Print Service **12**

Last Updated Date **13**

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

1 Introduction

Xerox print servers provide a flexible and high performance front-end for printing hardware, such as printers and presses. From a common workflow, users have the power to manage print jobs, queues, and resources across varied printer environments. Colour management, secure printing, and more can be handled from a drag-and-drop graphical interface. Third party print management solutions can be load balanced when used with Xerox print servers.



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 LoadMaster can load balance the Xerox print 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 Xerox Print 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 Virtual Service - Xerox Print

Refer to the sections below for details on using the Kemp template or Application Programming Interface (API) parameters and values to configure the Virtual Service.

3.1 Using the Template

This step-by-step set up of the Virtual Service leverages the Kemp application template for Xerox print servers.

The table in the **API Configuration** section outlines the settings configured by the application template. You can use this information to manually configure the Virtual Service or use the Kemp LoadMaster Application Programming Interface (API) and automation tools.

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

1. In the main menu of the LoadMaster User Interface (UI), go to **Virtual Services > Add New**.
2. Type a valid **Virtual Address**.
3. Select **Xerox Print** in the **Use Template** drop-down list.
4. Click **Add this Virtual Service**.
5. In the left-hand navigation select **View/Modify Services**.
6. Click **Modify** on the **Xerox Print** Virtual Service on port TCP 445.
7. Expand the **Real Servers** section.
8. Click **Add New**.
9. Type the **Real Server Address**. (This is the Xerox print servers.)
10. Confirm that port **445** is entered.
11. Click **Add This Real Server**.
12. Repeat these steps to add more Real Servers as needed.

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

3.2 API Configuration

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

API Parameter	API Value
port	445
prot	tcp
Schedule	lc

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

4 Registry Modifications

To enable the print servers to be accessed using a shared name (**XeroxPrintService** in the example Virtual Service in this guide), add the following registry entries to each print server:

KEY: HKEY_LOCAL_MACHINE\SYSTEM\CURRENTCONTROLSET\CONTROL\LSA

VALUE: DISABLELOOPBACKCHECK

TYPE: REG_DWORD

DATA: 1

Key: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanserver\parameters

Value: DisableStrictNameChecking

Type: REG_DWORD

Data: 1

Key: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanserver\parameters

Value: OptionalNames

Type: REG_MULTI_SZ

Data: XeroxPrintService

Microsoft Windows Server 2008 Registry Change

Key: HKLM\SYSTEM\CurrentControlSet\Control\Print\DNSOneWire

Value: DnsOnWire

Type: REG_QWORD

Data: 1

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

In the example presented here, **XeroxPrintService** is the name that is used to access the load balanced print servers using the Virtual Service. This can be set to any name. Whatever name is used, it must resolve to the IP address of the Virtual IP address (VIP).

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

5 Configuring Name Resolution

For printer load balancing to work, DNS name resolution should be configured. A host name and corresponding A record for the Virtual Service should be created and should match the Virtual Service address.

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

6 Finalizing the Server Configuration

To finalize the print server configuration changes, each print server must be rebooted.

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

7 Testing the Load Balanced Print Service

The load-balanced print service can be tested either by browsing to the virtual service IP address or the share name. In the example presented in this document, this would be done by going to \\10.10.10.190 or \\XeroxPrintService. Any shared printers and shared folders that have been configured on the real print servers should be visible.

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

Last Updated Date

This document was last updated on 27 July 2023.

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