



Deployment Guide Microsoft Print Server

24 July 2024

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Introduction

Introduction

Microsoft Print Server enables you to share printers throughout your organization from a single location.

The LoadMaster is used to load balance the Microsoft Print Server workload. The LoadMaster offers advanced Layer 4 and Layer 7 server load balancing, SSL Acceleration and a multitude of other advanced Application Delivery Controller (ADC) features. The LoadMaster intelligently and efficiently distributes user traffic among the application servers so that users get the best experience possible.

Related Links

- [Document Purpose](#)
- [Intended Audience](#)

Document Purpose

Document Purpose

This document provides the recommended LoadMaster settings used when load balancing the Microsoft Print Server workload. The Progress Kemp Support Team is available to provide solutions for scenarios not explicitly defined. The Progress Kemp support site can be found at: <https://support.kemptechnologies.com>

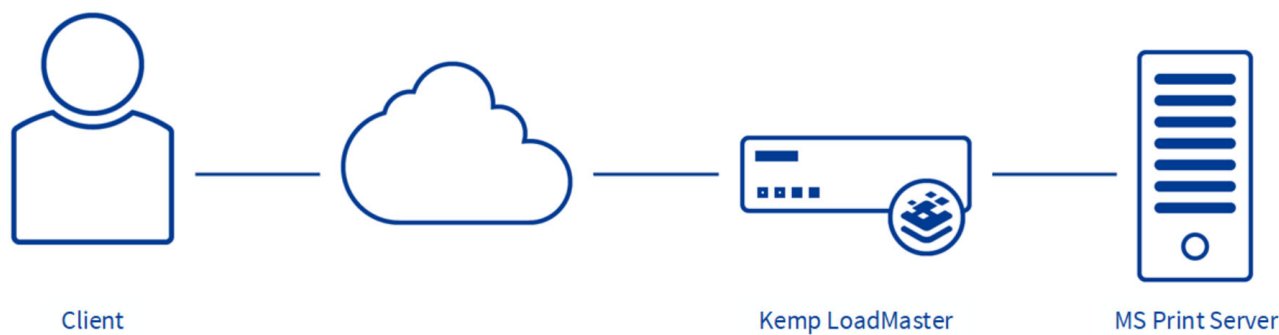
Intended Audience

Intended Audience

This document is intended to be read by anyone who is interested in configuring the LoadMaster to optimize Microsoft Print Server.

Architecture

Architecture



Configure the LoadMaster

Configure the LoadMaster

The deployed Microsoft Print Server environment determines which of the following setups is used.

Related Links

- [Transparency Overview](#)
- [Enable Check Persist Globally](#)

Transparency Overview

Transparency Overview

This service runs at Layer 4. All Layer 4 services are transparent. For transparency to work, the following rules/conditions must be met:

- The Real Server must have the LoadMaster as the default gateway
- The clients cannot be on the same subnet as the Real Server

For further details, refer to the **Transparency Requirements** section of the **Transparency Feature Description** on the [Documentation Page](#).

Enable Check Persist Globally

Enable Check Persist Globally

It is recommended that you change the **Always Check Persist** option to **Yes – Accept Changes**. Use the following steps:

1. Go to **System Configuration > Miscellaneous Options > L7 Configuration**.

Allow connection scaling over 64K Connections	<input type="checkbox"/>
Always Check Persist	<div>No ▾</div>
Add Port to Active Cookie	<input type="checkbox"/>
Conform to RFC	<input checked="" type="checkbox"/>
Close on Error	<input type="checkbox"/>
Add Via Header In Cache Responses	<input type="checkbox"/>
Real Servers are Local	<input type="checkbox"/>
Drop Connections on RS failure	<input type="checkbox"/>
Drop at Drain Time End	<input type="checkbox"/>
L7 Connection Drain Time (secs)	<div><div>300</div><div>Set Time (Valid values:0, 60 - 86400)</div></div>
L7 Authentication Timeout (secs)	<div><div>30</div><div>Set Timeout (Valid values:30 - 300)</div></div>
L7 Wait after POST(ms)	<div><div>2000</div><div>Set Post Wait (Valid values:1 - 2000)</div></div>
L7 Client Token Timeout (secs)	<div><div>120</div><div>Set Timeout (Valid values:60 - 300)</div></div>
Additional L7 Header	<div>X-Forwarded-For ▾</div>
100-Continue Handling	<div>RFC-7231 Compliant ▾</div>
Allow Empty POSTs	<input type="checkbox"/>
Allow Empty HTTP Headers	<input type="checkbox"/>
Force Complete RS Match	<input type="checkbox"/>
Least Connection Slow Start	<div><div>0</div><div>Set Slow Start (Valid values:0 - 600)</div></div>
Share SubVS Persistence	<input type="checkbox"/>
Log Insight Message Split Interval	<div><div>10</div><div>Set Log Split Interval (Valid values:1 - 100)</div></div>
Include User Agent Header in User Logs	<input type="checkbox"/>
Use CEF Log Format	<input type="checkbox"/>
SSO Maximum Threads	<div><div>128</div><div>Set SSO Max Threads (Valid values:64 - 512)</div></div>
NTLM Proxy Mode	<input checked="" type="checkbox"/>

2. Click the **Always Check Persist** dropdown arrow and select **Yes – Accept Changes**.

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Create a Microsoft Print Server Virtual Service

Create a Microsoft Print Server Virtual Service

The following are the steps involved and the recommended settings to configure the Microsoft Print Server Virtual Service:

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > Add New**.

Please Specify the Parameters for the Virtual Service.

Virtual Address	<input type="text" value="10.154.11.185"/>
Port	<input type="text" value="80"/>
Service Name (Optional)	<input type="text" value="Microsoft Print Serve"/>
Use Template	<input type="text" value="Select a Template"/> ▼
Protocol	<input type="text" value="tcp"/> ▼

2. Type a valid **Virtual Address**.
3. Type * as the **Port**.
4. Type a recognizable **Service Name**, such as **Microsoft Print Server**.
5. Click **Add this Virtual Service**.

6. Configure the settings as recommended in the following table:

Section	Option	Value
Basic Properties	Service Type	Generic
Standard Options	Force L4	Enabled
	Persistence Options	Source IP Address
	Timeout	1 Hour
	Scheduling Method	least connection
Real Servers	Real Server Check Method	TCP Connection Only
	Checked Port	135

7. Add the Real Servers:

1. Expand the **Real Servers** section.
2. Click **Add New**.
3. Enter the address of the relevant Real Server.
4. Complete the other fields as required.
5. Click **Add this Real Server** then click **OK** to the pop-up message.
6. Repeat the steps above to add more Real Servers as needed, based on your environment.