Progress®
Kemp® LoadMaster®

Deployment Guide Sitefinity

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1

Introduction

Progress Sitefinity® is an award-winning Web Content Management System empowering teams to independently create and manage content that delivers engaging digital experiences.

The LoadMaster delivers an exceptional, cost effective, and easy to use solution which by employing intelligent server health checking, load balancing, high availability, and security can support an always-on application experience for Sitefinity.

Contents

- Document Purpose
- Intended Audience

Document Purpose

This document provides the recommended LoadMaster settings used when providing load balancing for Sitefinity. The Progress Kemp Support team is available to provide solutions for scenarios not explicitly defined. For further details, refer to the: LoadMaster Support and Learning Hub.

Intended Audience

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

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.

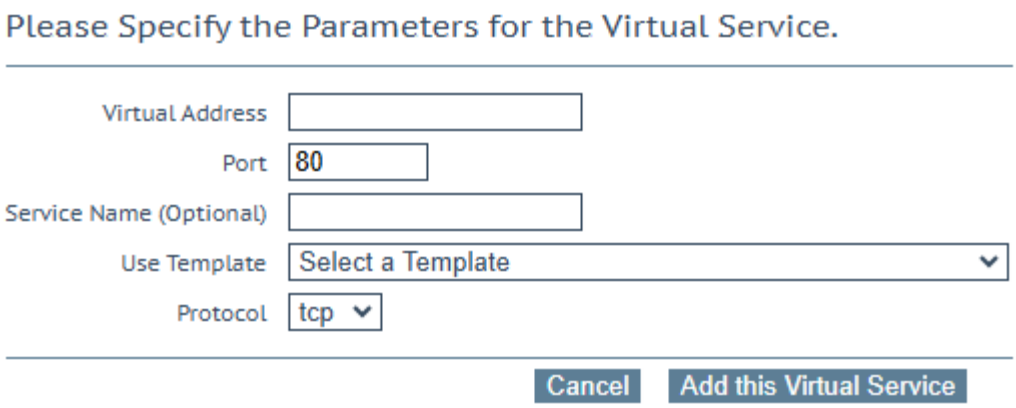
You can remove templates after use and this will not affect deployed services. If needed, you can make changes to any of the VS settings after using the template.

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.



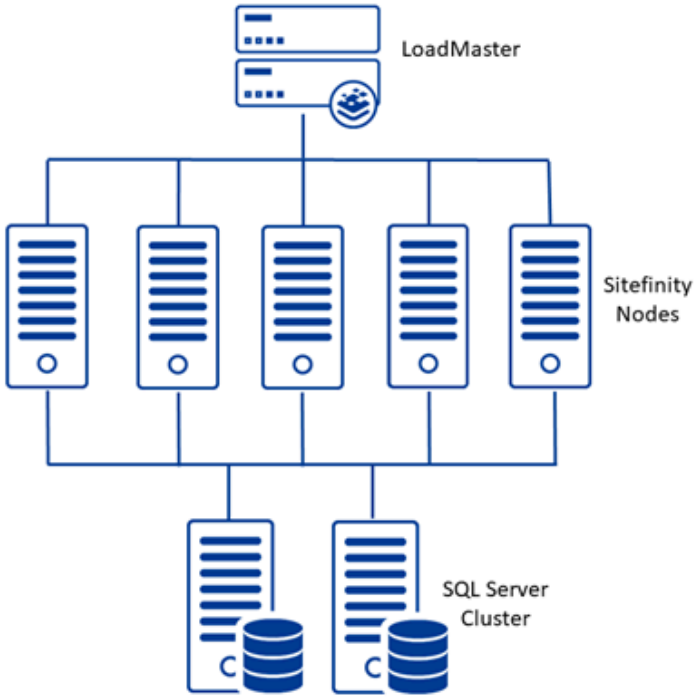
This opens the Virtual Service parameters page which prompts to enter the Virtual IP (VIP) address of the Virtual Service, the port, and the name to give the service and the protocol. You can select a previously-imported template in the **Use Template** drop-down list.

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

3

Architecture

Progress Sitefinity deployments consist of multiple front-end servers running the Sitefinity CMS and a back-end SQL Server (SQL clustering recommended).



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Configure the LoadMaster

Refer to the sections below for details on some recommended global settings.

Contents

- Enable Subnet Originating Requests Globally

Enable Subnet Originating Requests Globally

It is best practice to enable the **Subnet Originating Requests** option globally.

In a one-armed setup (where the Virtual Service and Real Servers are on the same network/subnet) **Subnet Originating Requests** is usually not needed. However, enabling **Subnet Originating Requests** should not affect the routing in a one-armed setup.

In a two-armed setup where the Virtual Service is on network/subnet A, for example, and the Real Servers are on network B, **Subnet Originating Requests** should be enabled on LoadMasters with firmware version 7.1-16 and above.



When **Subnet Originating Requests** is enabled, the Real Server sees traffic originating from 10.20.20.21 (LoadMaster eth1 address) and responds correctly in most scenarios.

With **Subnet Originating Requests** disabled, the Real Server sees traffic originating from 10.0.0.15 (LoadMaster Virtual Service address on **eth0**) and responds to **eth0** which could cause asymmetric routing.

When **Subnet Originating Requests** is enabled globally, it is automatically enabled on all Virtual Services. If the **Subnet Originating Requests** option is disabled globally, you can choose whether to enable **Subnet Originating Requests** on a per-Virtual Service basis.

To enable **Subnet Originating Requests** globally, follow the steps below:

1. In the main menu of the LoadMaster User Interface (UI), go to **System Configuration > Miscellaneous Options > Network Options**.
2. Select the **Subnet Originating Requests** check box.

5

Virtual Services

This step-by-step setup of Virtual Services (VSs) leverages the Progress Kemp application template for Sitefinity. This template configures the Virtual Services to publish Sitefinity with HTTP, HTTPS with TLS/SSL Offloading, or HTTPS with TLS/SSL Reencryption.

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

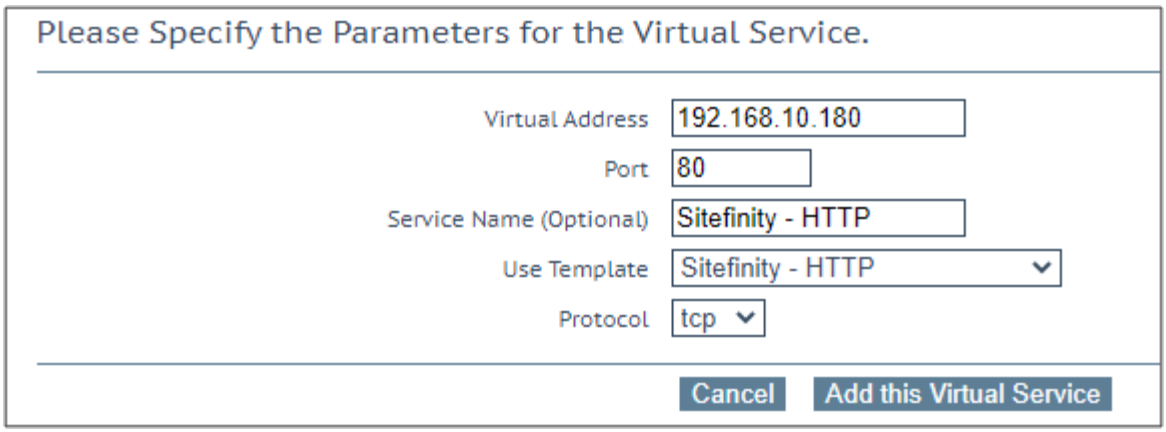
Contents

- Create the Sitefinity - HTTP Virtual Service
- Create the Sitefinity – HTTPS Offloaded Virtual Services
- Create the Sitefinity – HTTPS Reencrypt Virtual Services

Create the Sitefinity - HTTP Virtual Service

The following are the steps involved and the recommended settings to configure the Sitefinity HTTP Virtual Service.

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 the **Sitefinity - HTTP** template 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**.
8. Click **Add This Real Server**.
9. Repeat these steps to add more Real Servers as needed.

Contents

- Sitefinity - HTTP Virtual Service Recommended Settings (optional)

Sitefinity - HTTP Virtual Service Recommended Settings (optional)

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

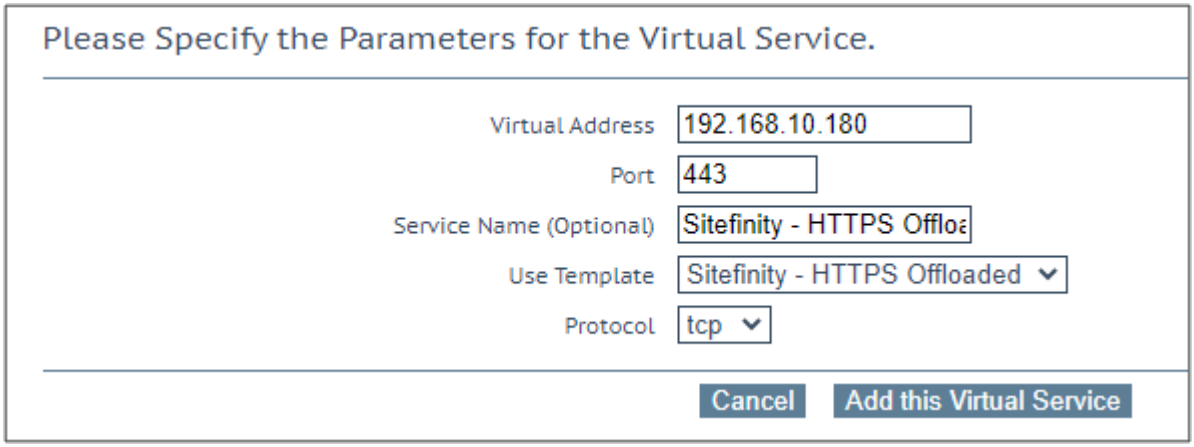
API Parameter	API Value	WUI Field Name	WUI Field Value
port	80	Port	80
prot	tcp	Protocol	tcp

API Parameter	API Value	WUI Field Name	WUI Field Value
VStype	http	Service Type	HTTP-HTTP/2-HTTPS
Schedule	lc	Scheduling Method	least connection
Persist	none	Persistence Options	None
CheckType	http	Real Server Check Method	HTTP Protocol
CheckPort	80	Checked Port	80

Create the Sitefinity – HTTPS Offloaded Virtual Services

The following are the steps involved and the recommended settings to configure the Sitefinity HTTPS Offloaded Virtual Service.

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 the **Sitefinity – HTTPS Offloaded** template in the **Use Template** drop-down list.
4. Click **Add this Virtual Service**.

5. Click **Virtual Services** and **View/Modify Services**.
6. Click **Modify** on the **Sitefinity – HTTPS Offloaded** Virtual Services on port 443.
7. Expand the **SSL Properties** section.
8. Select the certificate to use from **Available Certificates** and click the arrow (>) to move it to **Assigned Certificates**.
9. Expand the **Real Servers** section.
10. Click **Add New**.
11. Type the **Real Server Address**.
12. Click **Add This Real Server**.
13. Repeat these steps to add more Real Servers as needed.

Contents

- Sitefinity – HTTPS Offloaded Virtual Service Recommended Settings (optional)

Sitefinity – HTTPS Offloaded Virtual Service Recommended Settings (optional)

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

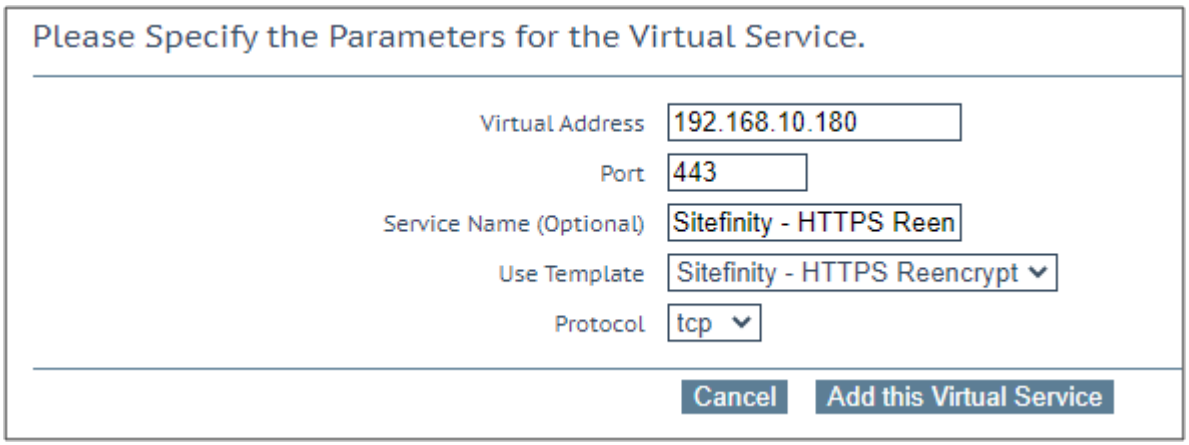
API Parameter	API Value	WUI Field Name	WUI Field Value
port	443	Port	443
prot	tcp	Protocol	tcp
VStype	http	Service Type	HTTP-HTTP/2-HTTPS
SubnetOriginating	1	Subnet Originating Requests	Enabled
Forcel7	1	Force L4	Disabled

API Parameter	API Value	WUI Field Name	WUI Field Value
Schedule	lc	Scheduling Method	least connection
SSLAcceleration	1	SSL Acceleration	Enabled
TLSType	7	Supported Protocols	TLS1.2 and TLS1.3 (Enabled)
CipherSet	BestPractices	Cipher Set	BestPractices
CheckType	http	Real Server Check Method	HTTP Protocol
CheckUseGet	1	HTTP Method	GET
CheckPort	80	Checked Port	80

Create the Sitefinity – HTTPS Reencrypt Virtual Services

The following are the steps involved and the recommended settings to configure the Sitefinity HTTPS Reencrypt Virtual Service.

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 the **Sitefinity – HTTPS Reencrypt** template in the **Use Template** drop-down list.
4. Click **Add this Virtual Service**.
5. Click **Virtual Services** and **View/Modify Services**.
6. Click **Modify** on the **Sitefinity – HTTPS Reencrypt** Virtual Services on port 443.
7. Expand the **SSL Properties** section.
8. Select the certificate to use from **Available Certificates** and click the arrow (>) to move it to **Assigned Certificates**.
9. Expand the **Real Servers** section.
10. Click **Add New**.
11. Type the **Real Server Address**.
12. Click **Add This Real Server**.
13. Repeat these steps to add more Real Servers as needed.

Contents

- Sitefinity – HTTPS Reencrypt Virtual Service Recommended Settings (optional)

Sitefinity – HTTPS Reencrypt Virtual Service Recommended Settings (optional)

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

API Parameter	API Value	WUI Field Name	WUI Field Value
port	443	Port	443
prot	tcp	Protocol	tcp
VStype	http	Service Type	HTTP-HTTP/2-HTTPS
SubnetOriginating	1	Subnet Originating Requests	Enabled

API Parameter	API Value	WUI Field Name	WUI Field Value
Forcel7	1	Force L4	Disabled
Schedule	lc	Scheduling Method	least connection
SSLAcceleration	1	SSL Acceleration	Enabled
Reencrypt	1	Reencrypt	Enabled
TLSType	7	Supported Protocols	TLS1.2 and TLS1.3 (Enabled)
CipherSet	BestPractices	Cipher Set	BestPractices
CheckType	https	Real Server Check Method	HTTPS Protocol
CheckUseGet	1	HTTP Method	GET
CheckPort	443	Checked Port	443