



Domino

Deployment Guide

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#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.

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Table of Contents

1 Introduction	5
1.1 Document Purpose	5
1.2 Intended Audience	5
2 Template	6
3 Architecture	7
4 Configure the LoadMaster	8
4.1 Enable Subnet Originating Requests Globally	8
4.2 Enable Check Persist Globally	9
4.3 Create the Domino Virtual Services	10
4.3.1 Create a Domino HTTP Virtual Service	10
4.3.2 Create a Domino HTTP LDAP Virtual Service	12
4.3.3 Create a Domino HTTPS Virtual Service	13
4.3.4 Create a Domino HTTPS LDAP Virtual Service	14
4.3.5 Create a Domino HTTPS Offloaded Virtual Service	15
4.3.6 Create a Domino HTTPS Offloaded LDAP Virtual Service	17
4.3.7 Create a Domino HTTPS Re-encrypt Virtual Service	18
4.3.8 Create a Domino HTTPS Re-encrypt LDAP Virtual Service	20
4.3.9 Create a Domino IMAP Virtual Service	21
4.3.10 Create a Domino POP Virtual Service	22
4.3.11 Create a Domino SMTP Virtual Service	23
References	26

Last Updated Date **27**

1 Introduction

IBM® Domino is an advanced platform for hosting social business applications. It delivers scalable, security rich applications at a low cost. This improves productivity and enhances decision making. Its main features include:

- Low ownership costs: By minimizing administration requirements through automation, staff can focus on higher value tasks
- Minimal infrastructure: By using less power for providing data storage, network band width and servers, you reduce costs
- Rich application environment: Supporting workflow-driven and people-oriented applications that help a wide variety of business operations deliver enhanced results
- High availability: Features advanced clustering, replication, server fault recovery and automated diagnostic tools

The Kemp LoadMaster is used to load balance the Domino 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.

1.1 Document Purpose

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

1.2 Intended Audience

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

2 Template

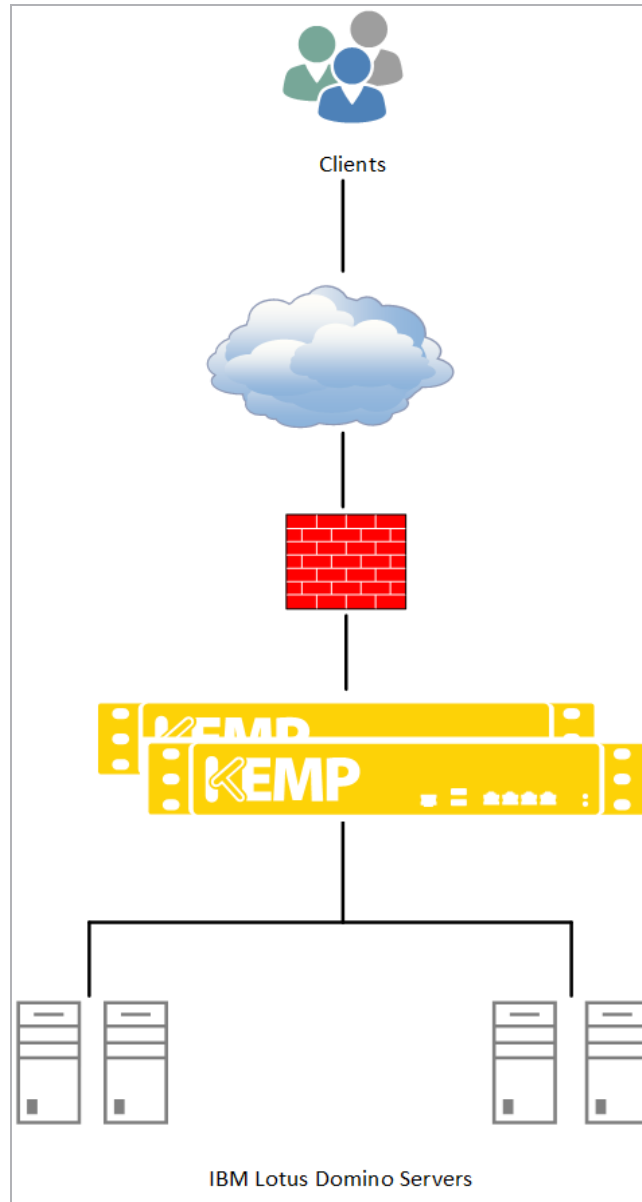
Kemp has developed a template containing our recommended settings for this workload. You can install this template to help create Virtual Services (VSs) because it automatically populates the settings. You can use the template to easily create the required VSs with the recommended settings. For some 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.

3 Architecture



4 Configure the LoadMaster

The deployed Domino environment determines which of the following setups is used.

4.1 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.

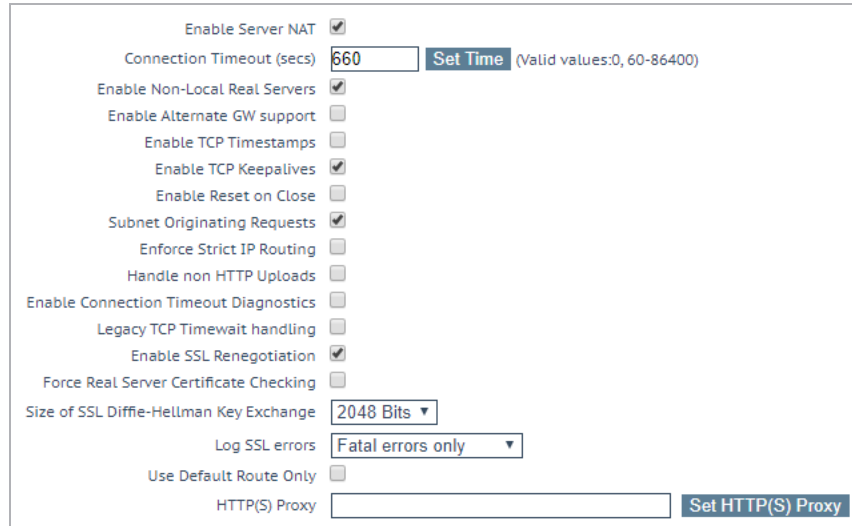
When **Subnet Originating Requests** is enabled, the LoadMaster routes traffic so that the Real Server sees traffic arriving from the LoadMaster interface that is in that network/subnet.

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 Web User Interface (WUI), go to **System Configuration > Miscellaneous Options > Network Options**.

4 Configure the LoadMaster



The screenshot shows a configuration window with the following settings:

- Enable Server NAT: ☒
- Connection Timeout (secs): 660 (Valid values:0, 60-86400)
- Enable Non-Local Real Servers: ☒
- Enable Alternate GW support: ☐
- Enable TCP Timestamps: ☐
- Enable TCP Keepalives: ☒
- Enable Reset on Close: ☐
- Subnet Originating Requests: ☒
- Enforce Strict IP Routing: ☐
- Handle non HTTP Uploads: ☐
- Enable Connection Timeout Diagnostics: ☐
- Legacy TCP Timewait handling: ☐
- Enable SSL Renegotiation: ☒
- Force Real Server Certificate Checking: ☐
- Size of SSL Diffie-Hellman Key Exchange: 2048 Bits ▾
- Log SSL errors: Fatal errors only ▾
- Use Default Route Only: ☐
- HTTP(S) Proxy:

2. Select the **Subnet Originating Requests** check box.

4.2 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**.

4 Configure the LoadMaster

Allow connection scaling over 64K Connections	<input type="checkbox"/>
Always Check Persist	Yes - Accept Changes ▼
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 checked="" type="checkbox"/>
Drop at Drain Time End	<input checked="" type="checkbox"/>
L7 Connection Drain Time (secs)	300 Set Time (Valid values:0, 60 - 86400)
L7 Authentication Timeout (secs)	30 Set Timeout (Valid values:30 - 300)
L7 Client Token Timeout (secs)	120 Set Timeout (Valid values:60 - 300)
Additional L7 Header	X-Forwarded-For ▼
100-Continue Handling	RFC-7231 Compliant ▼
Allow Empty POSTs	<input type="checkbox"/>
Allow Empty HTTP Headers	<input type="checkbox"/>
Force Complete RS Match	<input type="checkbox"/>
Least Connection Slow Start	0 Set Slow Start (Valid values:0 - 600)
Share SubVS Persistence	<input type="checkbox"/>
Log Insight Message Split Interval	10 Set Log Split Interval (Valid values:1 - 100)
Include User Agent Header in User Logs	<input type="checkbox"/>
Use CEF Log Format	<input type="checkbox"/>

2. Click the **Always Check Persist** drop-down arrow and select **Yes – Accept Changes**.

4.3 Create the Domino Virtual Services

The following sections describe the recommended settings for the Domino Virtual Services.

4.3.1 Create a Domino HTTP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino HTTP Virtual Service:

1. In the main menu of the LoadMaster Web User Interface (WUI), go to **Virtual Services > Add New**.

4 Configure the LoadMaster

Please Specify the Parameters for the Virtual Service.

Virtual Address	<input type="text" value="10.154.11.146"/>
Port	<input type="text" value="80"/>
Service Name (Optional)	<input type="text" value="Domino HTTP"/>
Use Template	<input type="text" value="Select a Template"/>
Protocol	<input type="text" value="tcp"/>

2. Type a valid **Virtual Address**.
3. Type **80** as the **Port**.
4. Enter a recognizable **Service Name**, such as **Domino HTTP**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value	Comment
Standard Options	Persistence Mode	Source IP Address	
	Timeout	5 minutes	
	Scheduling Method	least connection	
Real Servers	URL	/	

7. Add the Real Servers:
 - a) Expand the **Real Servers** section.
 - b) Click **Add New**.
 - c) Type the address of the relevant real server.
 - d) Complete the other fields as required.
 - e) Click **Add this Real Server** then click **OK** to the pop-up message.
 - f) Repeat the steps above to add more Real Servers as needed, based on your environment.

4 Configure the LoadMaster

4.3.2 Create a Domino HTTP LDAP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino LDAP 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

Port

Service Name (Optional)

Use Template

Select a Template

▼

Protocol

tcp

▼

Cancel

Add this Virtual Service

2. Type a valid **Virtual Address**.
3. Type **389** as the **Port**.
4. Type a recognizable **Service Name**, such as **Domino HTTP LDAP**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value	Comment
Standard Options	Persistence Mode	Source IP Address	
	Timeout	5 minutes	
	Scheduling Method	least connection	
	Idle Connection Timeout	660 (seconds)	Click Set Idle Timeout.
Real Servers	Checked Port	389	

7. Add the Real Servers:
 - a) Expand the **Real Servers** section.
 - b) Click **Add New**.

4 Configure the LoadMaster

- c) Enter the address of the relevant Real Server.
- d) Complete the other fields as required.
- e) Click **Add this Real Server** then click **OK** to the pop-up message.
- f) Repeat the steps above to add more Real Servers as needed, based on your environment.

4.3.3 Create a Domino HTTPS Virtual Service

The following are the steps involved and the recommended settings to configure the Domino HTTPS 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

Port

Service Name (Optional)

Use Template ▼

Protocol ▼

Cancel
Add this Virtual Service

2. Type a valid **Virtual Address**.
3. Type **443** as the **Port**.
4. Enter a recognizable **Service Name**, such as **Domino HTTPS**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value	Comment
Standard Options	Persistence Mode	Source IP Address	
	Timeout	1 Hour	
	Scheduling	least	

4 Configure the LoadMaster

Section	Option	Value	Comment
	Method	connection	
	Idle Connection Timeout	900 (seconds)	Click Set Idle Timeout.
Advanced Properties	Add a Port 80 Redirector VS		Click the Add HTTP Redirector button. This automatically creates a redirect on port 80.
Real Servers	URL	/	

7. Add the Real Servers:

- a) Expand the **Real Servers** section.
- b) Click **Add New**.
- c) Enter the address of the relevant Real Server.
- d) Complete the other fields as required.
- e) Click **Add this Real Server** then click **OK** to the pop-up message.
- f) Repeat the steps above to add more Real Servers as needed, based on your environment.

Create a Domino HTTPS HTTP Redirect Virtual Service

Clicking the **Add HTTP Redirector** button automatically creates a port 80 redirect Virtual Service. This is optional, but the purpose of this Virtual Service is to redirect any clients who have connected using HTTP to the HTTPS Virtual Service. Kemp also recommends changing the **Persistence Mode** and **Real Server Check Method** to **None**.

4.3.4 Create a Domino HTTPS LDAP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino HTTPS LDAP Virtual Service:

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > Add New**.
2. Enter a valid **Virtual Address**.
3. Enter **389** as the **Port**.
4. Enter a recognizable **Service Name**, such as **Domino HTTPS LDAP**.
5. Click **Add this Virtual Service**.

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

Section	Option	Value
Standard Options	Persistence Mode	Source IP Address
	Timeout	5 minutes
	Scheduling Method	least connection
Real Servers	Check Method	TCP Connection Only
	Checked Port	389

7. Add the Real Servers:

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

4.3.5 Create a Domino HTTPS Offloaded Virtual Service

The following are the steps involved and the recommended settings to configure the Domino HTTPS Offloaded Virtual Service:

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

4 Configure the LoadMaster

Please Specify the Parameters for the Virtual Service.

Virtual Address

Port

Service Name (Optional)

Use Template

Select a Template ▼

Protocol

tcp ▼

Cancel

Add this Virtual Service

2. Type a valid **Virtual Address**.
3. Type **443** as the **Port**.
4. Type a recognizable Service Name, such as **Domino HTTPS Offloaded**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value	Comment
Standard Options	Persistence Mode	Source IP Address	
	Timeout	1 Hour	
	Scheduling Method	least connection	
	Idle Connection Timeout	900 seconds	
SSL Properties	Enabled	Selected	
	Cipher Set	BestPractices	
Advanced Properties	Add a Port 80 Redirector VS		Click the Add HTTP Redirector button. This automatically creates a redirect on port 80.
Real Servers	URL	/	

7. Add the Real Servers:

- a) Expand the **Real Servers** section.
- b) Click **Add New**.
- c) Type the address of the relevant Real Server.
- d) Complete the other fields as required.
- e) Click **Add this Real Server** then click **OK** to the pop-up message.
- f) Repeat the steps above to add more Real Servers as needed, based on your environment.

Create a Domino HTTPS HTTP Redirect Virtual Service

Clicking the **Add HTTP Redirector** button automatically creates a port 80 redirect Virtual Service. This is optional, but the purpose of this Virtual Service is to redirect any clients who have connected using HTTP to the HTTPS Virtual Service. Kemp also recommends changing the **Persistence Mode** and **Real Server Check Method** to **None**.

4.3.6 Create a Domino HTTPS Offloaded LDAP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino HTTPS Offloaded LDAP 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="10.154.11.143"/>
Port	<input type="text" value="389"/>
Service Name (Optional)	<input type="text" value="Domino HTTPS Offlo"/>
Use Template	<input type="text" value="Select a Template"/>
Protocol	<input type="text" value="tcp"/>

2. Type a valid **Virtual Address**.
3. Type **389** as the **Port**.
4. Type a recognizable Service Name, such as **Domino HTTPS Offloaded LDAP**.
5. Click **Add this Virtual Service**.

4 Configure the LoadMaster

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

Section	Option	Value
Standard Options	Persistence Mode	Source IP Address
	Timeout	5 Minutes
	Scheduling Method	least connection
Real Servers	Checked Port	389

7. Add the Real Servers:

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

4.3.7 Create a Domino HTTPS Re-encrypt Virtual Service

The following are the steps involved and the recommended settings to configure the Domino HTTPS Re-encrypt Virtual Service:

- 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="10.154.11.146"/>
Port	<input type="text" value="443"/>
Service Name (Optional)	<input type="text" value="Domino HTTPS Reer"/>
Use Template	<input type="text" value="Select a Template"/>
Protocol	<input type="text" value="tcp"/>

4 Configure the LoadMaster

2. Type a valid **Virtual Address**.
3. Type **443** as the **Port**.
4. Type a recognizable **Service Name**, such as **Domino HTTPS Re-encrypt**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value	Comment
Standard Options	Persistence Mode	Source IP Address	
	Timeout	1 hour	
	Scheduling Method	least connection	
	Idle Connection Timeout	900 seconds	Click Set Idle Timeout.
SSL Properties	Enabled	Selected	
	Reencrypt	Selected	
	Cipher Set	BestPractices	
Advanced Properties	Add a Port 80 Redirector VS		Click the Add HTTP Redirector button. This automatically creates a redirect on port 80.
Real Servers	Check Method	HTTPS Protocol	
	URL	/	

7. Add the Real Servers:
 - a) Expand the **Real Servers** section.
 - b) Click **Add New**.
 - c) Type the address of the relevant Real Server.
 - d) Complete the other fields as required.
 - e) Click **Add this Real Server** then click **OK** to the pop-up message.

f) Repeat the steps above to add more Real Servers as needed, based on your environment.

Create a Domino HTTPS HTTP Redirect Virtual Service

Clicking the **Add HTTP Redirector** button automatically creates a port 80 redirect Virtual Service. This is optional, but the purpose of this Virtual Service is to redirect any clients who have connected using HTTP to the HTTPS Virtual Service. Kemp also recommends changing the **Persistence Mode** and **Real Server Check Method** to **None**.

4.3.8 Create a Domino HTTPS Re-encrypt LDAP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino HTTPS Re-encrypt LDAP 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

Port

Service Name (Optional)

Use Template

Protocol

2. Type a valid **Virtual Address**.
3. Type **389** as the **Port**.
4. Type a recognizable **Service Name**, such as **Domino HTTPS Re-encrypt LDAP**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value	Comment
Standard Options	Persistence Mode	Source IP Address	
	Timeout	5 Minutes	

4 Configure the LoadMaster

Section	Option	Value	Comment
	Scheduling Method	least connection	
	Idle Connection Timeout	660 seconds	Click Set Idle Timeout.
Real Servers	Checked Port	389	

7. Add the Real Servers:

- a) Expand the **Real Servers** section.
- b) Click **Add New**.
- c) Type the address of the relevant Real Server.
- d) Complete the other fields as required.
- e) Click **Add this Real Server** then click **OK** to the pop-up message.
- f) Repeat the steps above to add more Real Servers as needed, based on your environment.

4.3.9 Create a Domino IMAP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino IMAP 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

Port

Service Name (Optional)

Use Template

Select a Template ▾

Protocol

tcp ▾

Cancel

Add this Virtual Service

2. Type a valid **Virtual Address**.
3. Type **143** as the **Port**.
4. Type a recognizable **Service Name**, such as **Domino IMAP**.

4 Configure the LoadMaster

5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value
Standard Options	Scheduling Method	least connection
	Idle Connection Timeout	3600 seconds
Real Servers	Checked Port	143

7. Add the Real Servers:
 - a) Expand the **Real Servers** section.
 - b) Click **Add New**.
 - c) Type the address of the relevant Real Server.
 - d) Complete the other fields as required.
 - e) Click **Add this Real Server** then click **OK** to the pop-up message.
 - f) Repeat the steps above to add more Real Servers as needed, based on your environment.

4.3.10 Create a Domino POP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino POP 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

Port

Service Name (Optional)

Use Template

Select a Template ▼

Protocol

tcp ▼

Cancel

Add this Virtual Service

4 Configure the LoadMaster

2. Type a valid **Virtual Address**.
3. Type **110** as the **Port**.
4. Type a recognizable **Service Name**, such as **Domino POP**.
5. Click **Add this Virtual Service**.
6. Configure the settings as recommended in the following table:

Section	Option	Value
Standard Options	Scheduling Method	Least connection
	Persistence Options	Source IP Address
	Timeout	1 Minute
	Idle Connection Timeout	3600 seconds
Real Servers	Checked Port	110

7. Add the Real Servers:
 - a) Expand the **Real Servers** section.
 - b) Click **Add New**.
 - c) Type the address of the relevant Real Server.
 - d) Complete the other fields as required.
 - e) Click **Add this Real Server** then click **OK** to the pop-up message.
 - f) Repeat the steps above to add more Real Servers as needed, based on your environment.

4.3.11 Create a Domino SMTP Virtual Service

The following are the steps involved and the recommended settings to configure the Domino SMTP Virtual Service:

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

4 Configure the LoadMaster

Please Specify the Parameters for the Virtual Service.

Virtual Address

Port

Service Name (Optional)

Use Template

Protocol

2. Type a valid **Virtual Address**.
3. Type **25** as the **Port**.
4. Type a recognizable **Service Name**, such as **Domino SMPT**.
5. Click Add this Virtual Service.
6. Configure the settings as recommended in the following table:

Section	Option	Value
Standard Options	Persistence Options	Source IP Address
	Timeout	1 Hour
	Scheduling Method	least connection
	Idle Connection Timeout	120 seconds
Real Servers	Checked Port	25

7. Add the Real Servers:
 - a) Expand the **Real Servers** section.
 - b) Click **Add New**.
 - c) Type the address of the relevant Real Server.
 - d) Complete the other fields as required.
 - e) Click **Add this Real Server** then click **OK** to the pop-up message.

f) Repeat the steps above to add more Real Servers as needed, based on your environment.

References

Unless otherwise specified, the following documents can be found at <http://kemptechnologies.com/documentation>.

Virtual Services and Templates, Feature Description

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