



LoadMaster System Center Plugin

Feature Description

UPDATED: 08 December 2020



Copyright Notices

Copyright © 2002-2020 Kemp Technologies, Inc. All rights reserved. Kemp Technologies and the Kemp Technologies logo are registered trademarks of Kemp Technologies, Inc.

Kemp Technologies, Inc. reserves all ownership rights for the LoadMaster and Kemp 360 product line including software and documentation.

Used, under license, U.S. Patent Nos. 6,473,802, 6,374,300, 8,392,563, 8,103,770, 7,831,712, 7,606,912, 7,346,695, 7,287,084 and 6,970,933

Table of Contents

1 Related Firmware Version	4
2 Prerequisites	5
2.1 Enable the API Interface on the LoadMaster	5
3 Install the SCVMM Configuration Provider	6
4 Add the Kemp LoadMaster to the SCVMM	8
5 Add Virtual IP (VIP) Templates to the SCVMM	12
6 Service Templates in SCVMM	15
Last Updated Date	16

1 Related Firmware Version

Published with LMOS version 7.2.48.3 LTS. This document has not required changes since 7.2.48.3 LTS. However, the content is in sync with the latest LoadMaster LTS firmware.

2 Prerequisites

The following prerequisites are required in order to utilize the Kemp LoadMaster plugin for System Center Virtual Machine Manager (SCVMM) 2012 R2:

- System Center Virtual Machine Manager (SCVMM) 2012 R2 must be fully deployed based on Microsoft best practices.
 - Generation 1 Virtual Machine (VM) Templates to be used within Service Template configuration.
- A Kemp LoadMaster must be fully deployed based on Kemp best practices. Further Kemp documentation can be found on the Kemp website:
 - Enable the API Interface on the LoadMaster within **Remote Access** settings. For step-by-step instructions on how to do this, refer to the next section.

2.1 Enable the API Interface on the LoadMaster

In order for the System Center VMM plugin to work with the LoadMaster, the API interface on the LoadMaster must be enabled. To enable it, follow the steps below in the LoadMaster Web User Interface (WUI):

1. In the main menu, go to **Certificates & Security > Remote Access**.

Administrator Access

Allow Remote SSH Access Using: All Networks Port: 22 Set Port

SSH Pre-Auth Banner Set Pre-Auth Message

Allow Web Administrative Access Using: eth0: 10.35.48.22 Port: 443

Admin Default Gateway Set Administrative Access

Allow Multi Interface Access

Enable API Interface

Self-Signed Certificate Handling RSA self-signed certs

Outbound Connection Cipher Set None - Outbound Default

Admin Login Method Password Only Access (default) Only Password mode is available if no Pre-Auth Banner is specified

Enable Software FIPS 140-2 Level 1 Mode Enable Software FIPS mode

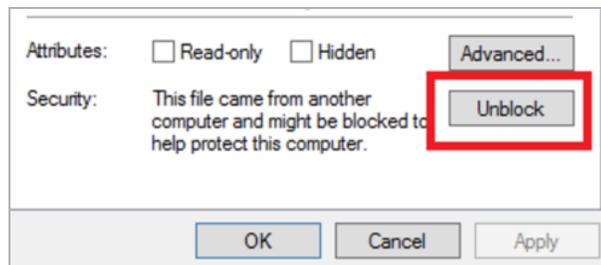
Enable Kemp Analytics

2. Tick the **Enable API Interface** check box.

3 Install the SCVMM Configuration Provider

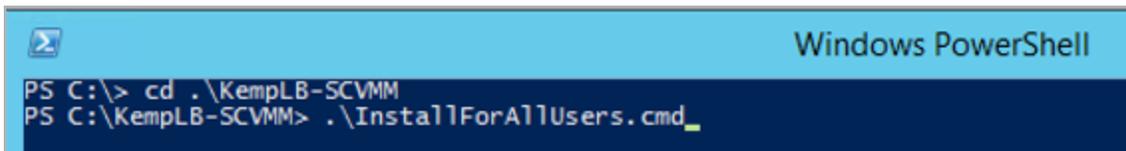
To install the SCVMM Configuration Provider, follow the steps below:

1. Download the Kemp LoadMaster plugin for SCVMM 2012 R2 from the Kemp documentation page - <http://www.kemptechnologies.com/documentation/>.



Before you extract the zip file, open the properties and click **Unlock** if necessary.

2. Extract the zip file.
3. Open Windows PowerShell as Administrator and navigate to the location of the extracted files.



4. Run the **InstallForAllUser.cmd** file.
5. Verify the installation of the PowerShell modules by ensuring that the **KempLB** folder has been placed in the following location:

C:\Windows\System32\WindowsPowerShell\v1.0\modules\KempLB



6. When the installation has completed, run **Install-KempVMMConfigurationProvider**

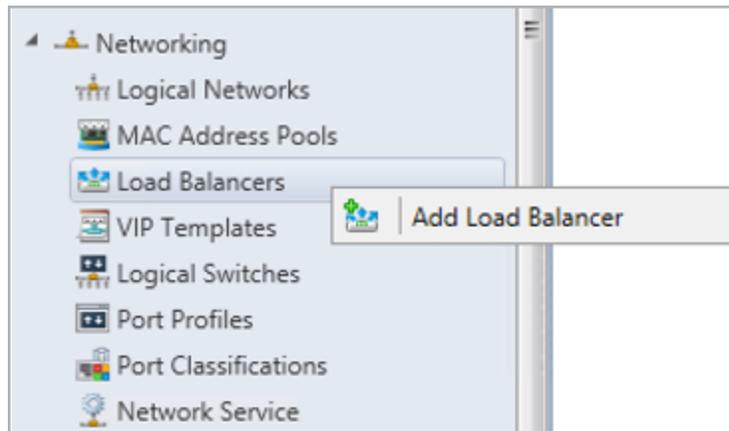


This will restart VMM services.

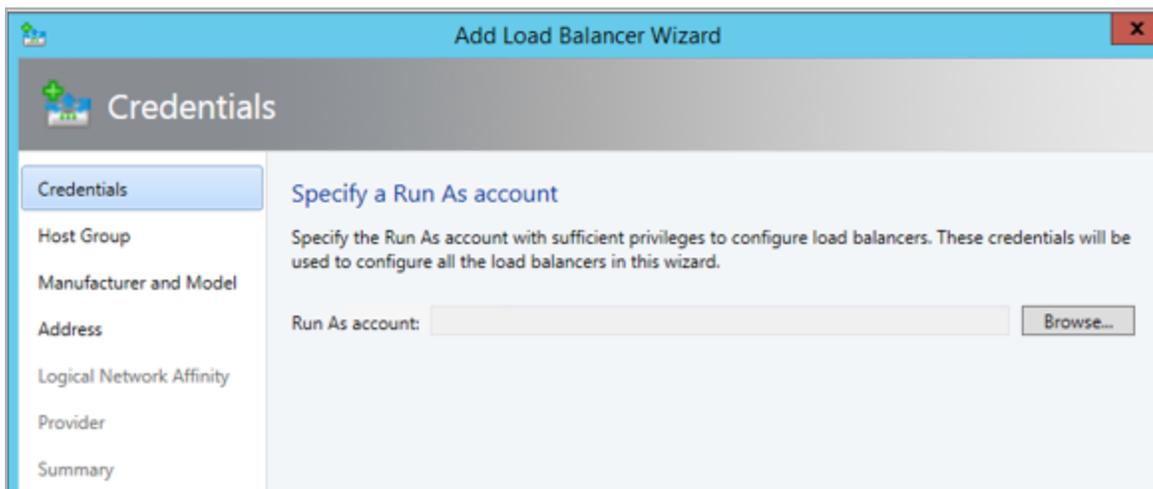
4 Add the Kemp LoadMaster to the SCVMM

System Center Virtual Machine Manager 2012 R2 is now able to accept the Kemp LoadMaster as a load balancer within the Fabric. To add the LoadMaster to the SCVMM, follow the steps below:

1. Launch the Virtual Machine Manager console.
2. Select **Fabric** in the left-hand navigation.

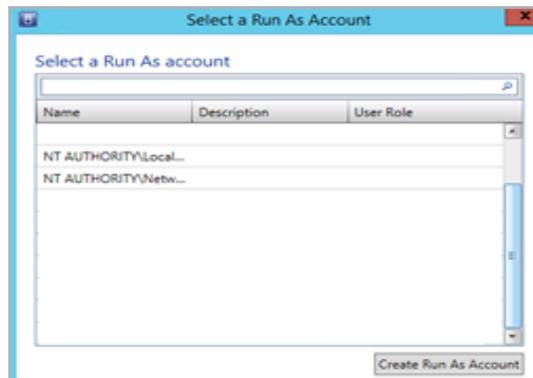


3. Add Load Balancer under Networking, right-click **Load Balancers** and select **Add Load Balancer**.

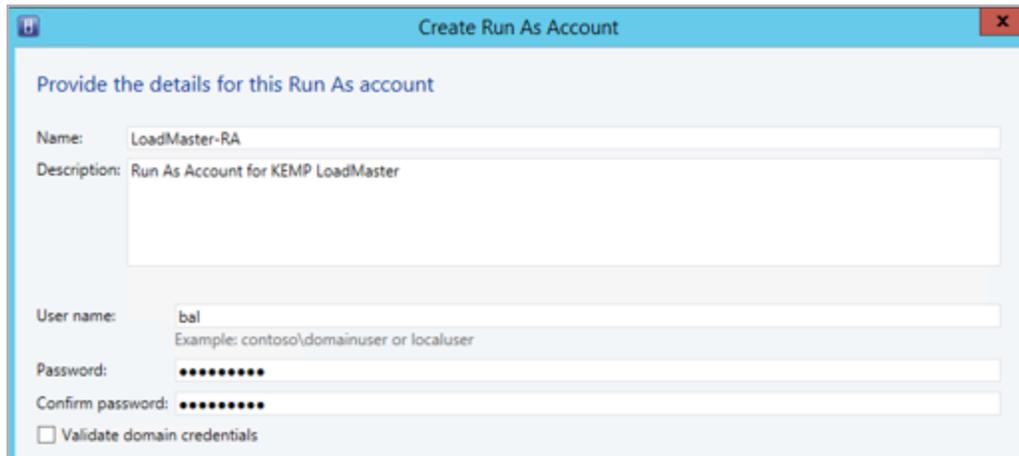


4 Add the Kemp LoadMaster to the SCVMM

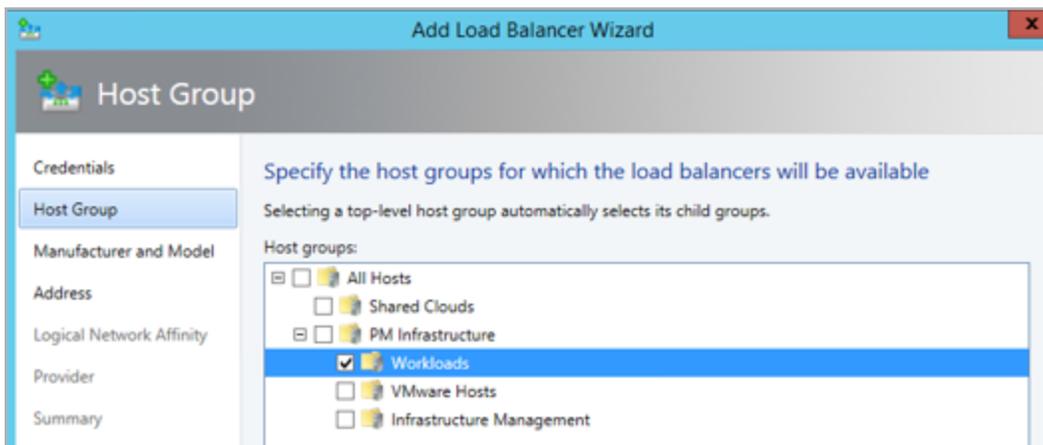
4. Click **Browse**.



5. Click **Create Run As Account**.

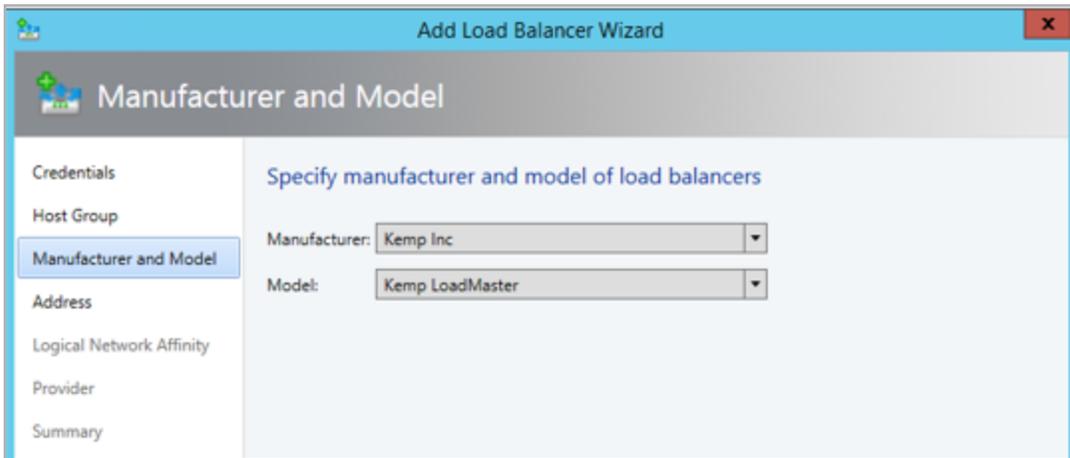


6. Enter the LoadMaster login details for the **bal** account.

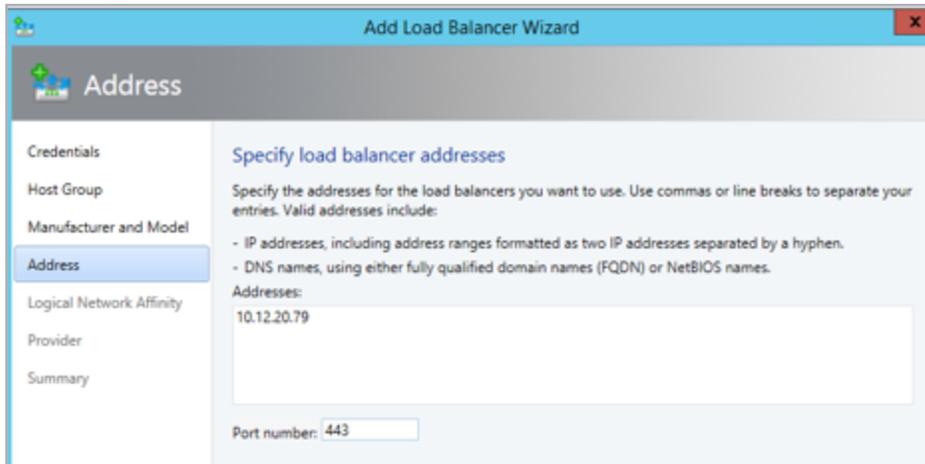


4 Add the Kemp LoadMaster to the SCVMM

7. Select which host groups the LoadMaster should be available to.

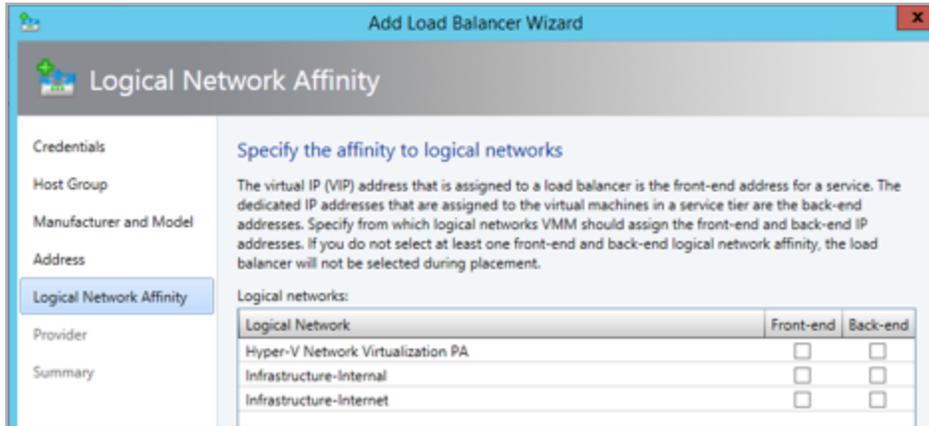


8. Ensure that **Kemp Inc** and **Kemp LoadMaster** are selected as the **Manufacturer** and **Model**.



9. Specify the IP address and port of the Kemp LoadMaster deployed in the environment.

4 Add the Kemp LoadMaster to the SCVMM



10. Select which networks to use for the **Front-end/Back-end**.

Test results:		
Function	Implemented	Test Result
Retrieve-LBSystemInfo	Yes	Passed
Open-LBConnection	Yes	Passed
Close-LBConnection	Yes	Passed
Retrieve-LBKnownVip	Yes	Passed
Retrieve-LBKnownCertificate	Yes	Passed
Retrieve-LBKnownBalancingMethod	Yes	Passed
Retrieve-LBKnownPersistence	Yes	Passed

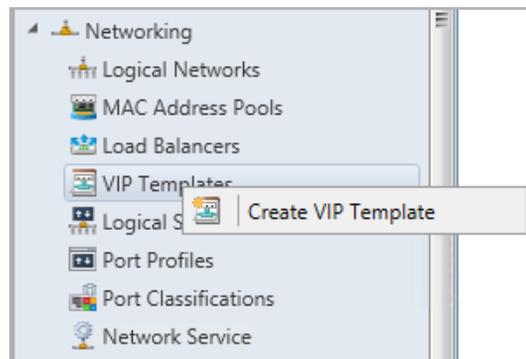
11. Click **Test** and confirm that all tests pass.

If some tests fail, please confirm that the API interface is enabled on the LoadMaster by following the steps in the **Enable the API Interface on the LoadMaster** section.

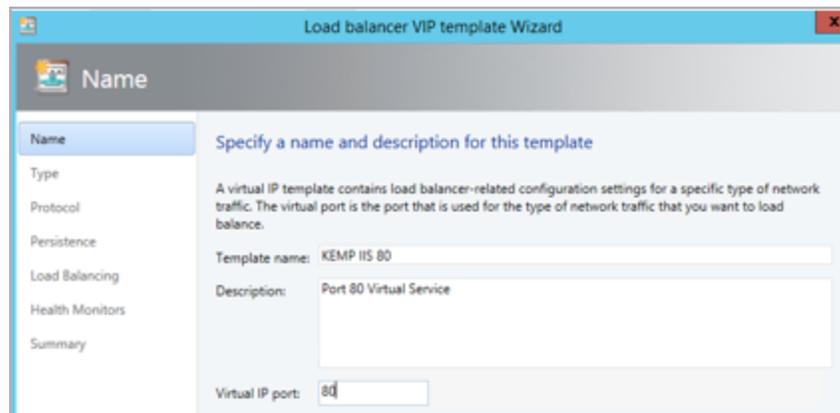
5 Add Virtual IP (VIP) Templates to the SCVMM

VIP Templates can be created after the LoadMaster has been added to SCVMM.

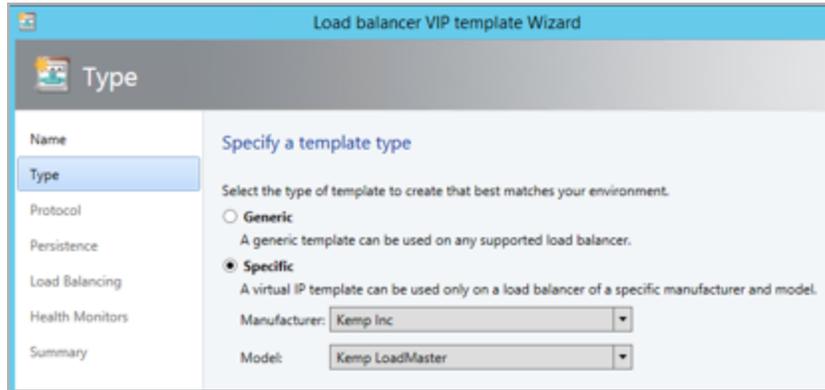
To create a VIP Template, follow the steps below:



1. Under **Networking**, right-click **VIP Templates** and select **Create VIP Template**.

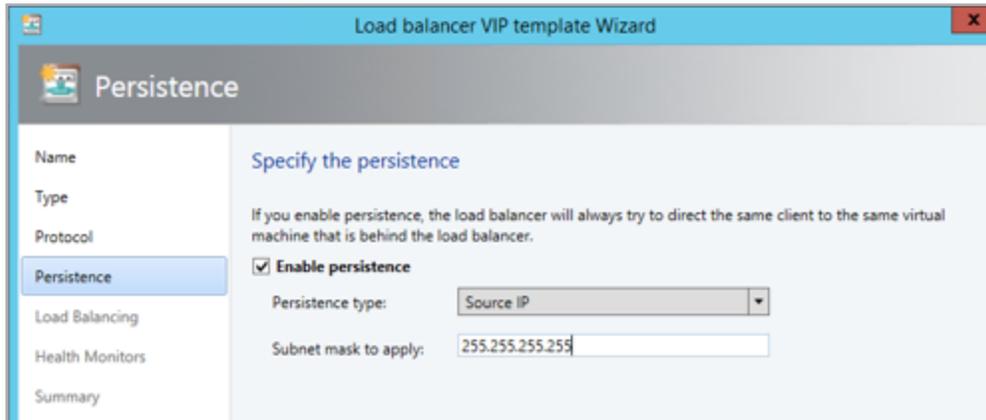


2. Enter a name and description.
3. Enter the **Virtual IP port** number.



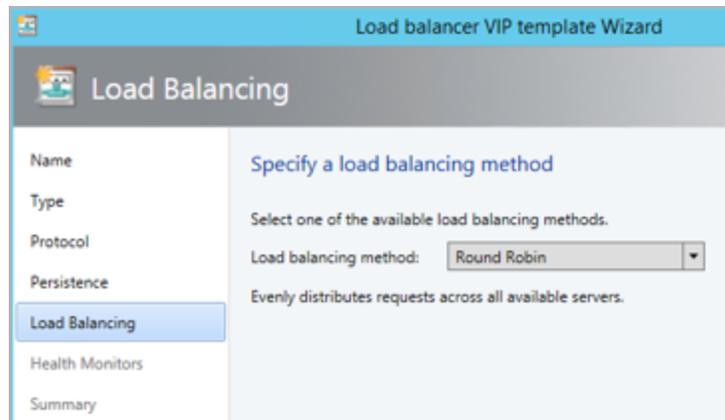
4. Select **Specific** and choose **Kemp Inc** and **Kemp LoadMaster**.

5. Select the relevant protocol option.



6. Select the desired **Persistence type**, if any.

Use only persistence types found under **Custom**



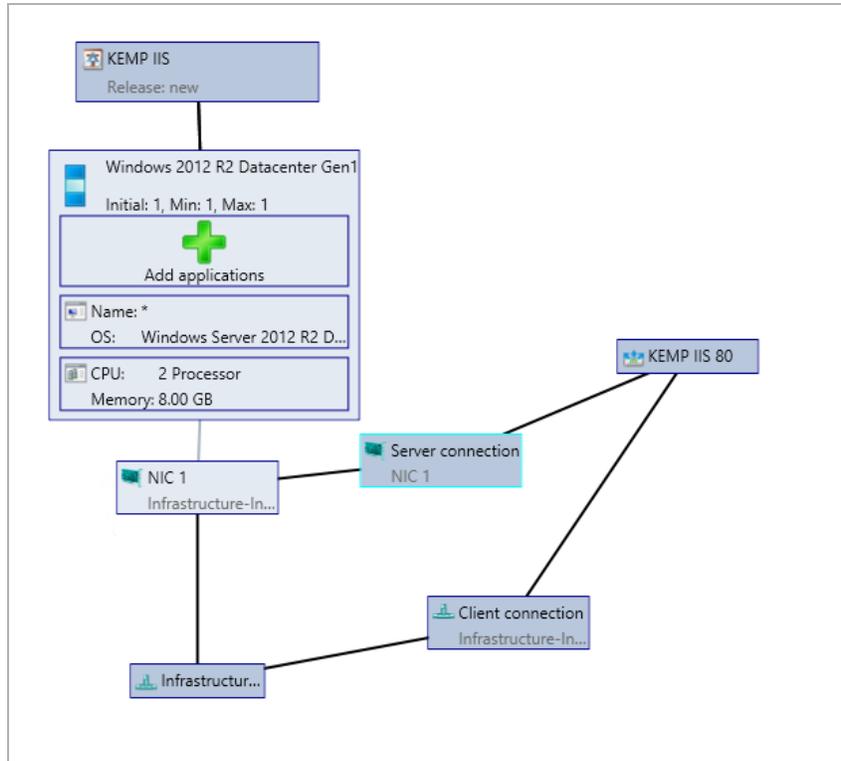
7. Select the relevant **Load balancing method**.

Use only scheduling methods found under **Custom**.

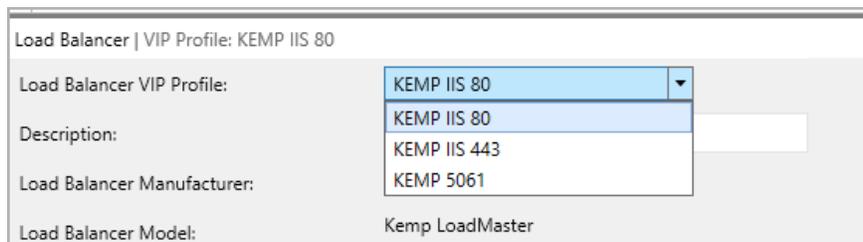
Health Monitors are optional and can be added later.

6 Service Templates in SCVMM

After following the steps above, the Kemp LoadMaster should now be available to be added to Service Templates.



To add the LoadMaster, select **Load Balancer** and choose **VIP Template**.



Select the relevant **Load Balancer VIP Profile**.

Last Updated Date

This document was last updated on 08 December 2020.