

LoadMaster System Center Plugin

Feature Description

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1 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.

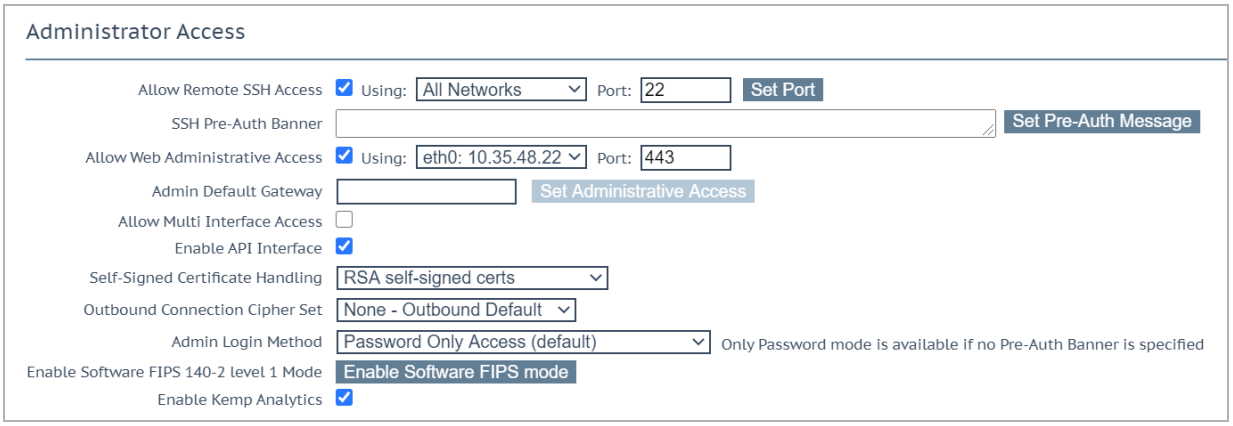
- A Kemp LoadMaster must be fully deployed based on Kemp best practices. Further Kemp documentation can be found on the Kemp website: http://kemptechnologies.com/documentation/

  - 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.

1.1 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**.



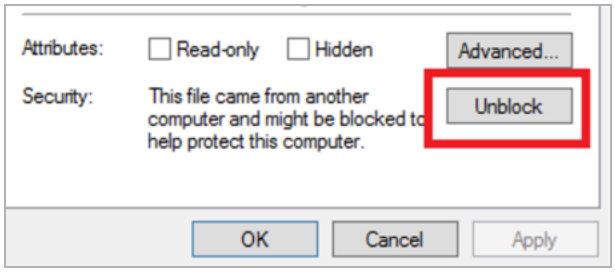
2. Tick the **Enable API** Interface check box.

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2 Install the SCVMM Configuration Provider

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

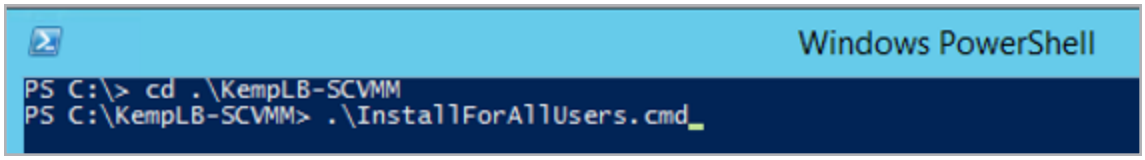
1. Download the Kemp LoadMaster plugin for SCVMM 2012 R2 from the Kemp documentation page - http://www.kemptechnologies.com/documentation/.



Before you extract the zip file, open the properties and click **Unblock** 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**

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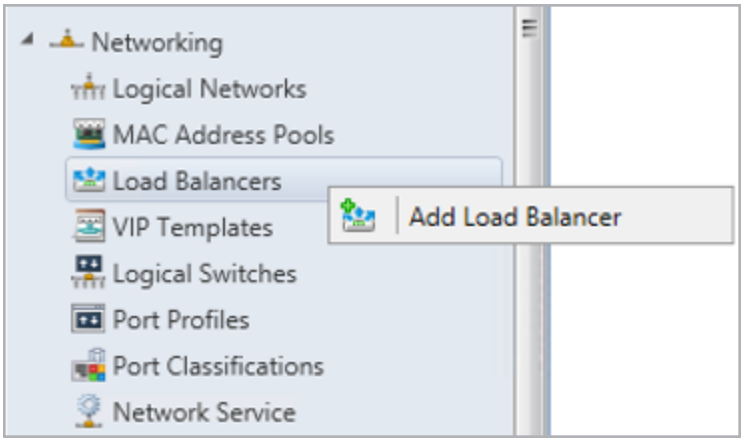
This will restart VMM services.

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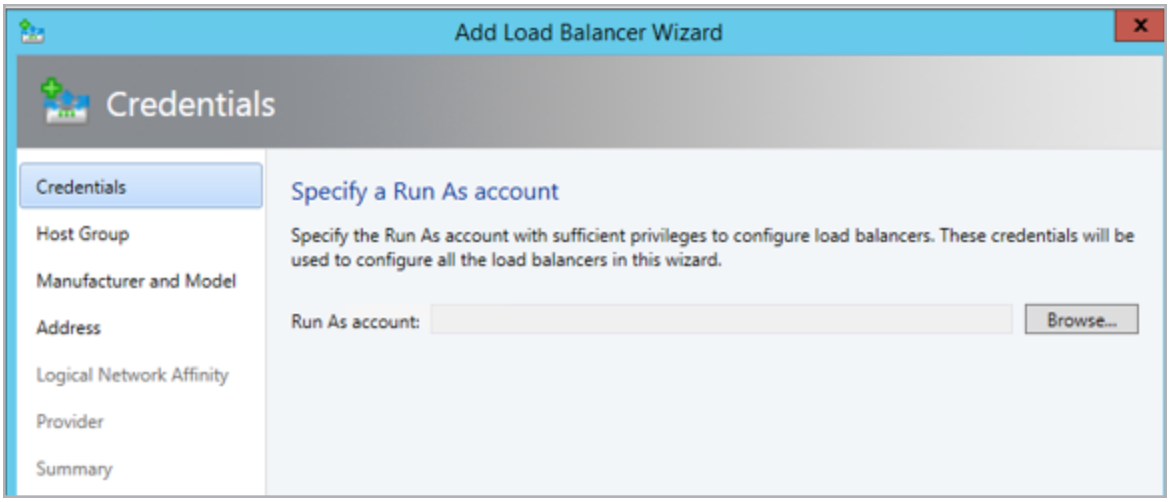
3 Add the Kemp LoadMaster to the SCVMM

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.

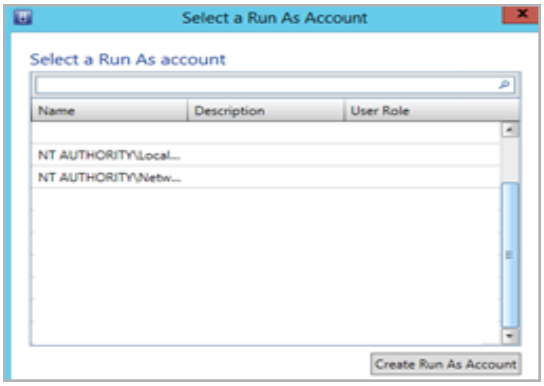


3. Add Load Balancer under Networking, right-click **Load Balancers** and select **Add Load Balancer**.

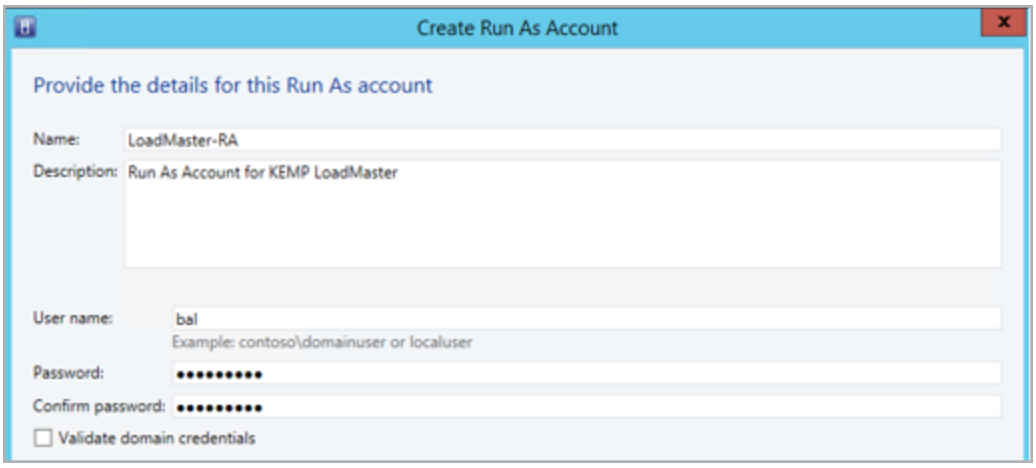


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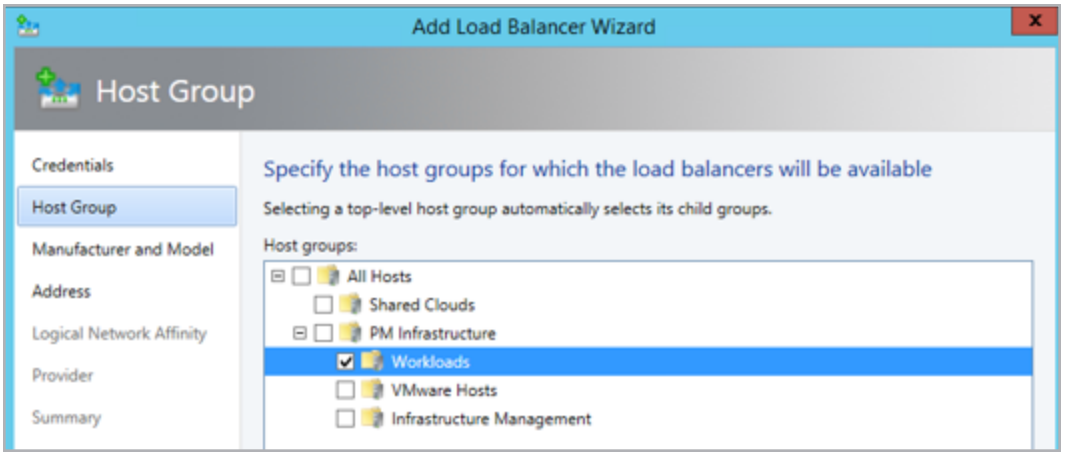
4. Click **Browse**.



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

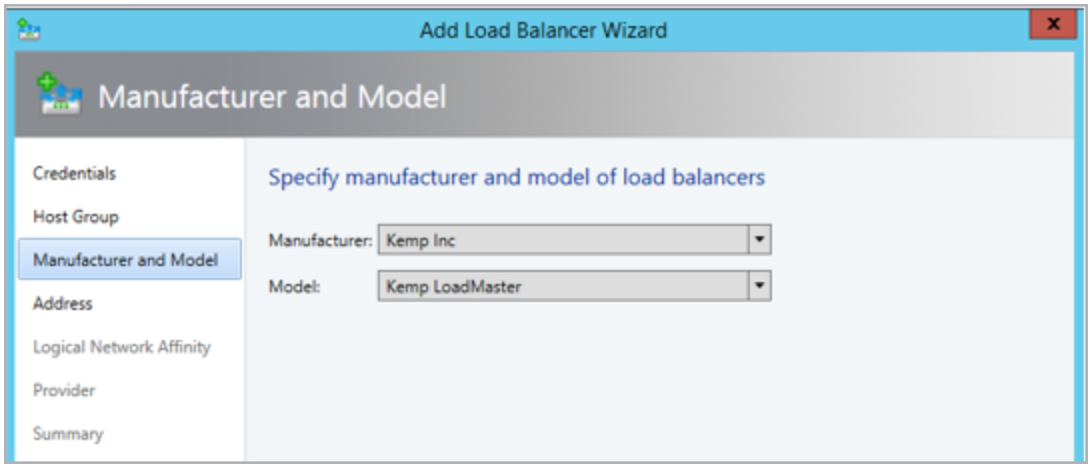


6. Enter the LoadMaster login details for the **bal** account.

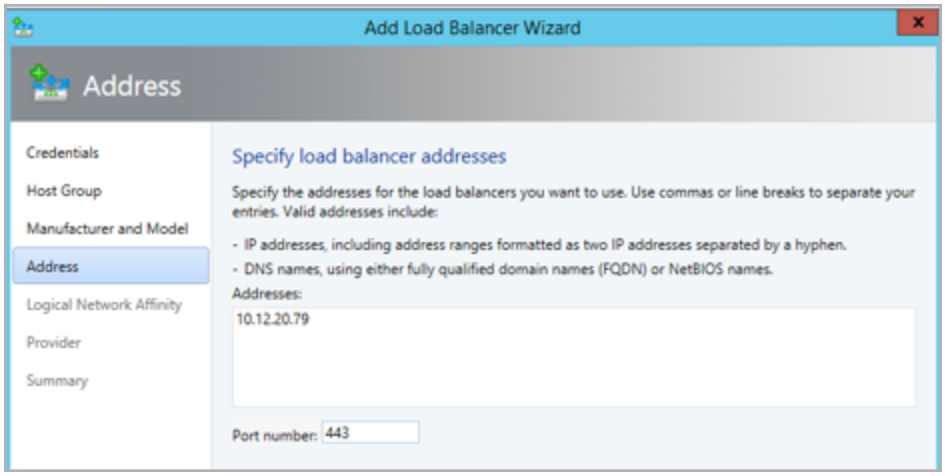


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7. Select which host groups the LoadMaster should be available to.

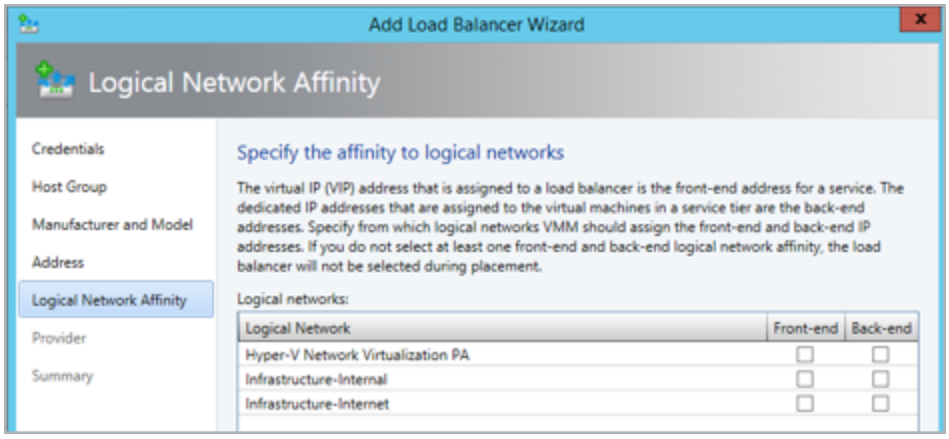


8. Ensure that **Kemp Inc** and **Kemp LoadMaster** are selected as the **Manufacturer** and **Model**.

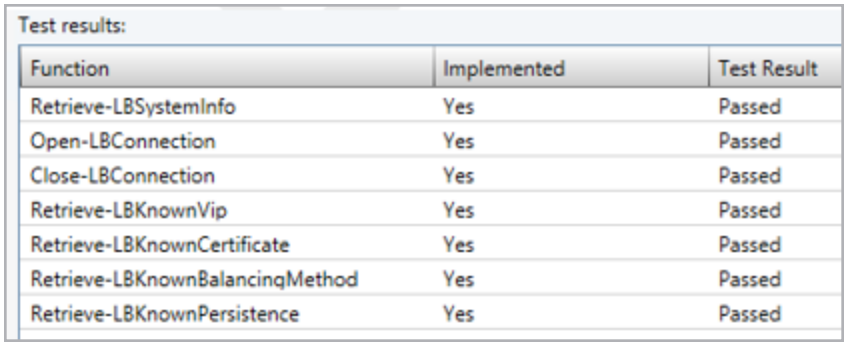


9. Specify the IP address and port of the Kemp LoadMaster deployed in the environment.

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



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

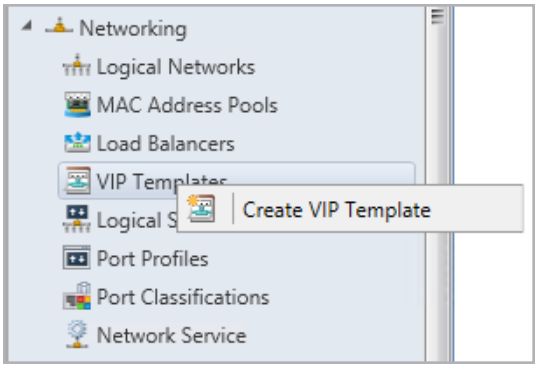
> If some tests fail, please confirm that the API interface is enabled on the LoadMaster by following the steps in the **Enable the API Interface on the LoadMaster** section.

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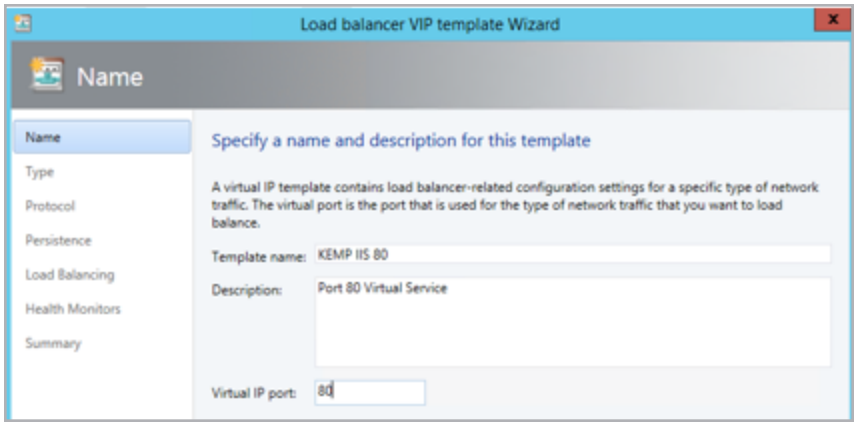
4 Add Virtual IP (VIP) Templates to the SCVMM

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

To create a VIP Template, follow the steps below:

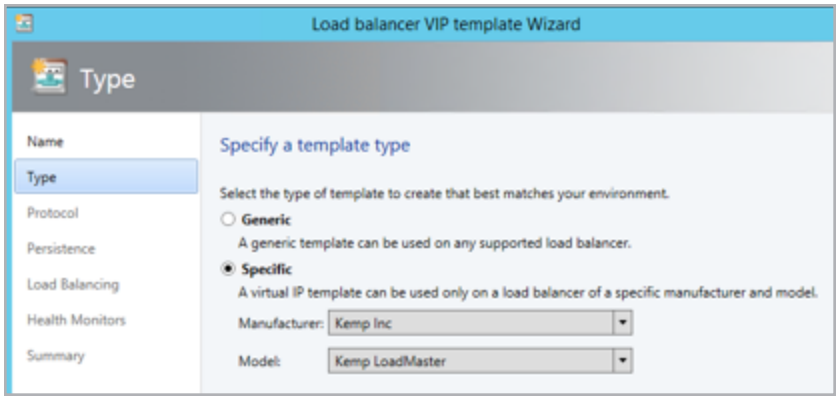


1. Under **Networking**, right-click **VIP Templates** and select **Create VIP Template**.

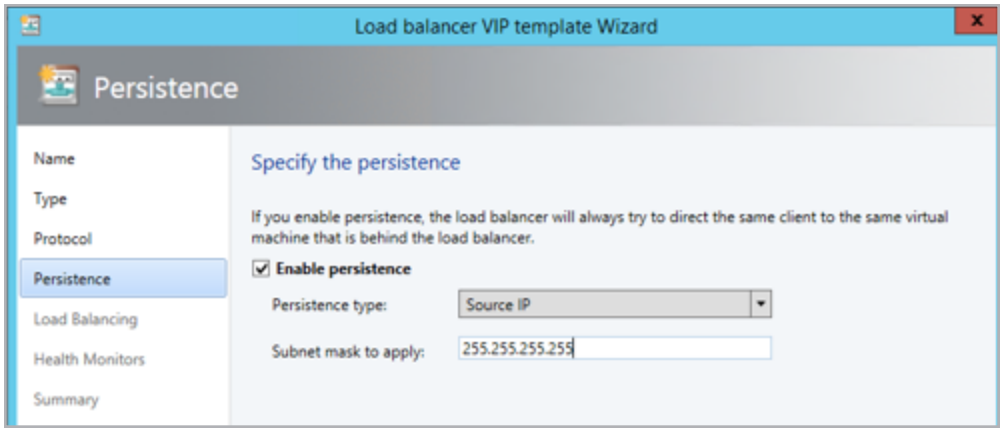


2. Enter a name and description.
3. Enter the **Virtual IP port** number.

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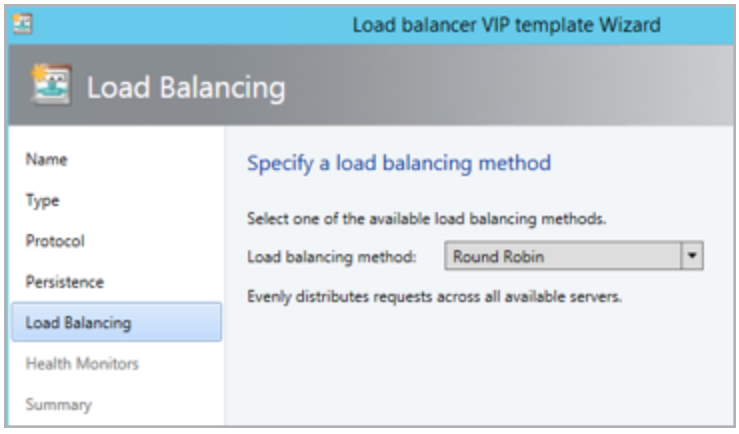


4. Select **Specific** and choose **Kemp Inc** and **Kemp LoadMaster**.
5. Select the relevant protocol option.



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

Use only persistence types found under **Custom**



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

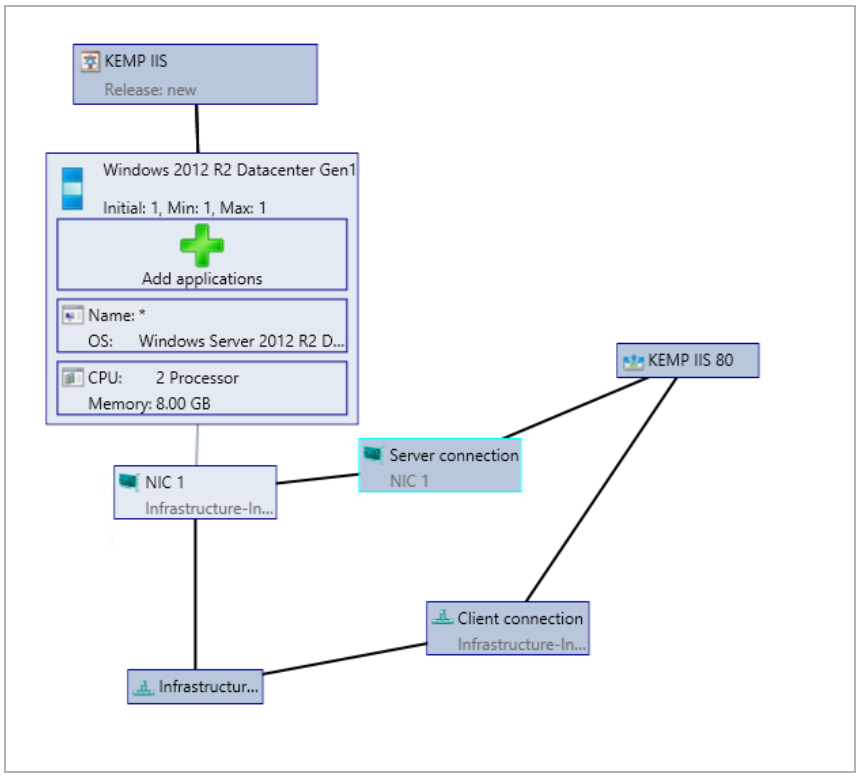
Use only scheduling methods found under **Custom**.

Health Monitors are optional and can be added later.

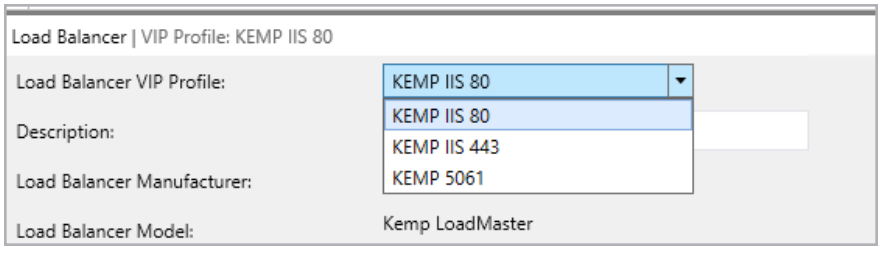
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5 Service Templates in SCVMM

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**.

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