Progress®
Kemp® LoadMaster®

Deployment Guide Pure Storage FlashBlade//S

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Introduction

Pure Storage provides a unified data platform offering storage solutions for block, file, and object data.

When multiple Pure Storage FlashBlade//S clusters are deployed using active-active replication, Progress® Kemp® LoadMaster® is used to properly health check and distribute requests to healthy clusters.

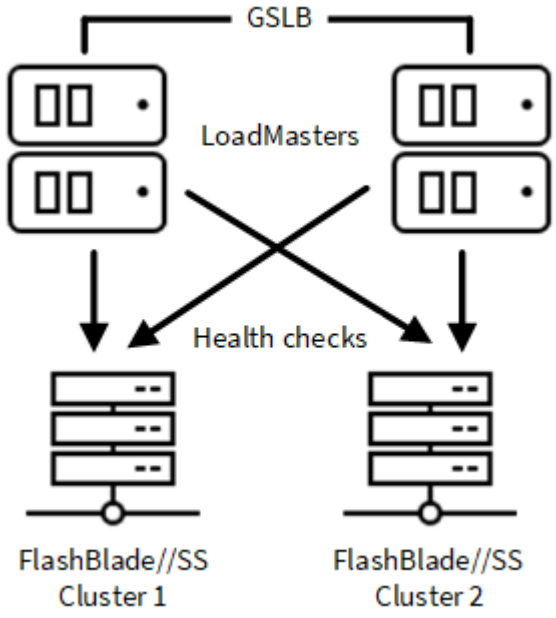
Document Purpose

This document provides the recommended LoadMaster settings used when providing load balancing for Pure Storage FlashBlade//S. The Progress Support team is available to provide solutions for scenarios not explicitly defined. For more information, refer to the LoadMaster Support and Learning Hub.

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Architecture

Pure Storage deployments consist of multiple FlashBlade//S clusters using the Global Server Load Balancer (GSLB) functionality on the LoadMaster to distribute requests to scale and provide resilience for the storage solution.



3

GSLB Configuration

Global Server Load Balancing (GSLB) is used to distribute traffic across multiple Pure Storage FlashBlade//S clusters using the LoadMaster. This ensures high availability, resilience, and optimized performance for global deployments.

For further details on GSLB, refer to the GEO Feature Description.

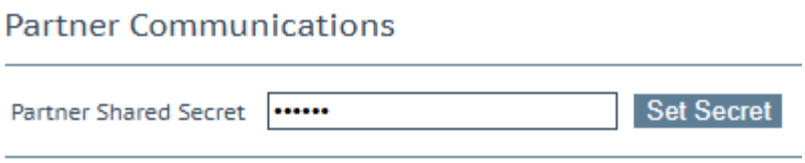
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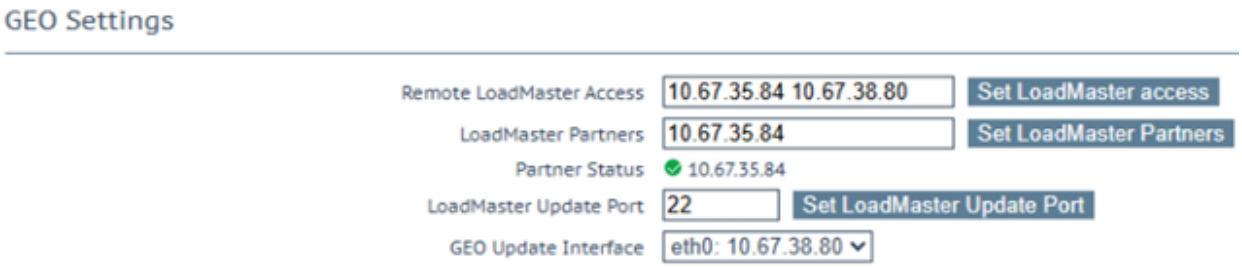
Configure Remote GSLB LoadMaster Access

GSLB settings can be synchronized between LoadMasters to simplify the configuration. Follow these steps on each of the LoadMasters in the GSLB configuration:

1. In the main menu, select **Certificates & Security** and **Remote Access**.



2. Under **Partner Communications**, enter a **Partner Shared Secret** to verify communication between LoadMasters in the GSLB configuration. Use the same **Partner Shared Secret** on all participating LoadMasters.



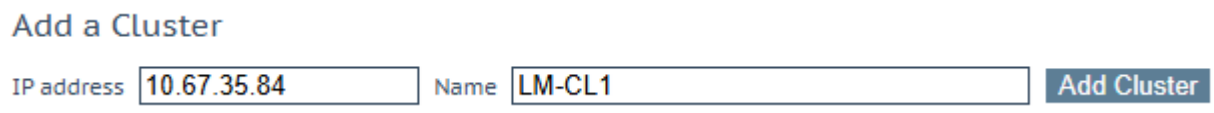
3. Under GEO Settings, complete the following fields:
   1. **Remote LoadMaster Access:** Enter the IP addresses of all remote LoadMasters and the local LoadMaster included in this GSLB configuration, then click **Set LoadMaster Access**.
   2. **LoadMaster Partners:** Enter the IP address of the remote LoadMaster(s) in the GSLB configuration, then click **Set LoadMaster Partners**.
   3. **LoadMaster Update Port:** Retain the default port (**22**).
   4. **GEO Update Interface:** Ensure the correct interface is selected.

Repeat these steps on the remaining LoadMasters in the GSLB configuration. The Partner Status will remain red until the first cluster is added in the next step, at which point the status will turn green.

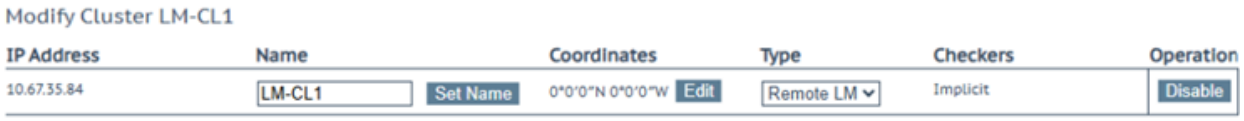
Create a GSLB Cluster

GSLB clusters can be configured to monitor Pure Storage FlashBlade//S clusters at their respective deployment sites. Each LoadMaster in the GSLB configuration must be added to the cluster. These steps can be performed on one LoadMaster and will be synchronized across the others:

1. In the main menu, select **Global Balancing**.
2. Select **Manage Clusters**.



3. Type the **IP address** of one of the LoadMasters in the GLSB configuration and give it a friendly **Name**.
4. Click **Add Cluster**.



5. Click **Modify**.



6. Change **Type** to **Remote LM**.

Repeat these steps on the remaining LoadMasters. Once complete, all LoadMasters should display their availability status as **Up**.

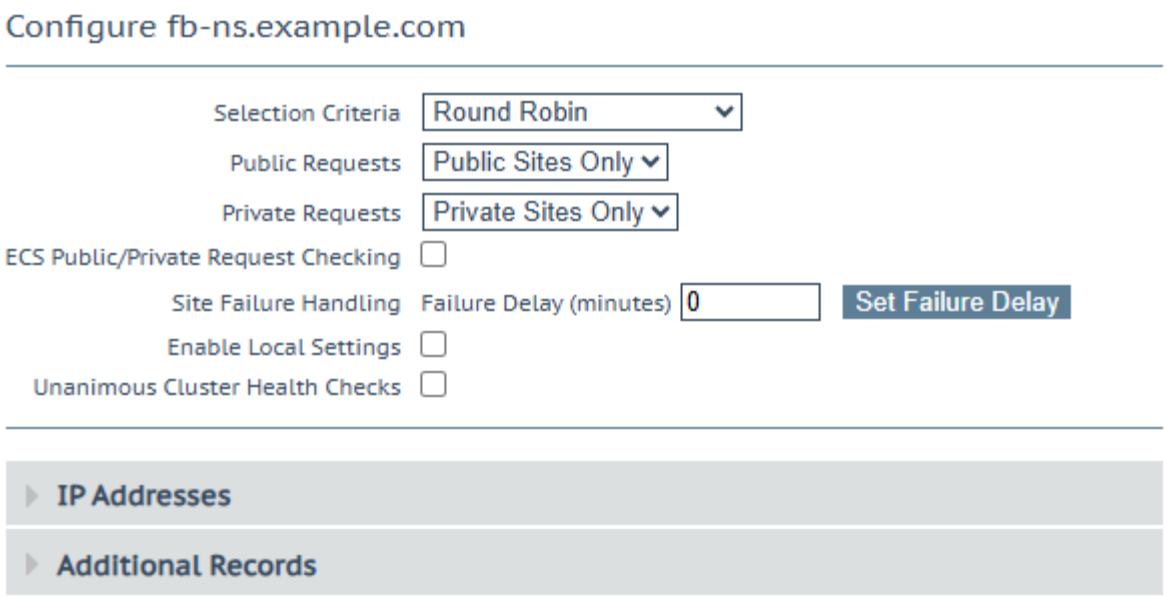
Create a Global Balancing Fully Qualified Domain Name

To configure Global Balancing on the LoadMaster, follow these steps. The Fully Qualified Domain Name (FQDN) set during configuration serves as the Pure Storage namespace used to access the storage. These steps can be performed on one LoadMaster in the GSLB configuration and will be replicated to the others.

1. In the main menu, select **Global Balancing**.
2. Select **Manage FQDNs**.

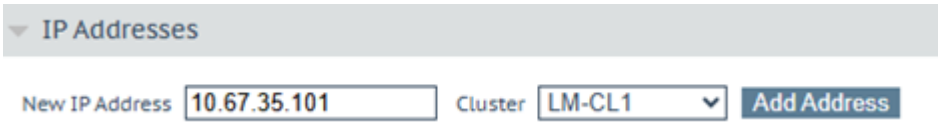


3. In **New FQDN**, provide the Pure Storage Namespace.
4. Click **Add FQDN**.



5. Update the **Selection Criteria**:

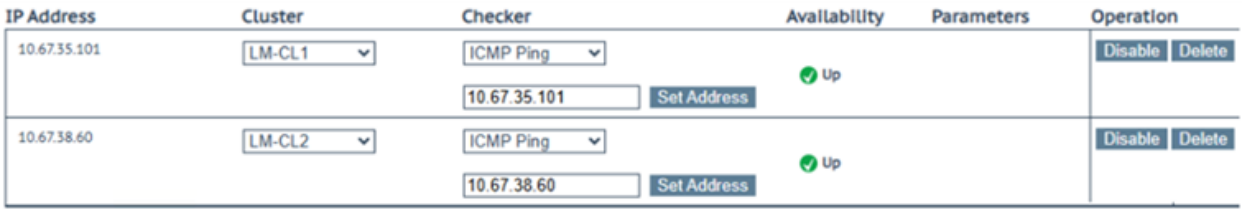
   - **Scale (Active/Active)**: If traffic should be distributed across all Pure Storage clusters, select **Round Robin**.
   - **Disaster Recovery (Active/Passive)**: If some Pure Storage clusters are intended to remain active while others are passive, select **Fixed Weighting**.



6. Expand **IP Addresses**:
   - For **New IP Address**, enter the Virtual IP address (VIP) of the first Pure Storage FlashBlade//S cluster.
   - For **Cluster**, select the LoadMaster created earlier that is located in the same site or location as the corresponding Pure Storage FlashBlade//S cluster.
   - Click **Add Address**.



7. For the **Checker**, select **ICMP Ping**, enter the IP address of the Pure Storage FlashBlade//S cluster VIP, and click **Set Address**.



(Optional) – if **Fixed Weighting** was chosen for the **Selection Criteria**, enter the appropriate **Weight**. (Weights with higher value with be used as Active and those with lesser value will be used as Passive.)

Repeat these steps for the remaining Pure Storage FlashBlade//S clusters. Once complete, all cluster VIPs should display their availability status as **Up**.

Create a CNAME record

To allow all existing and new buckets to be load balanced by the LoadMaster GSLB configuration, a wildcard CNAME record is required:

1. Go to **Global Balancing** and **Manage FQDNs**.
2. Click **Modify** for the Pure Storage Namespace FQDN created earlier.
3. Expand **Additional Records**.



4. In the **New Record: Type** drop-down list, select **CNAME** and prepend the Pure Storage FQDN with a *****.
5. Click **Add**.

Set up DNS Delegation

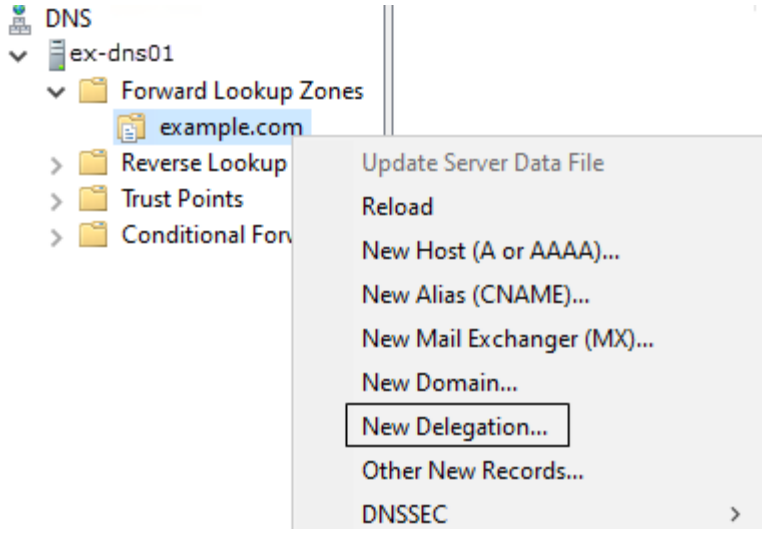
The final step is to set up DNS delegation to direct all requests for the Pure Storage Namespace FQDN to the LoadMasters configured for GSLB. This requires Name Server (NS) records to be set up for the specific FQDN that the Pure Storage Namespace uses.

Note: In this example, DNS delegation is set up using Microsoft DNS Server. Depending on the DNS server used in your environment, the steps may vary.

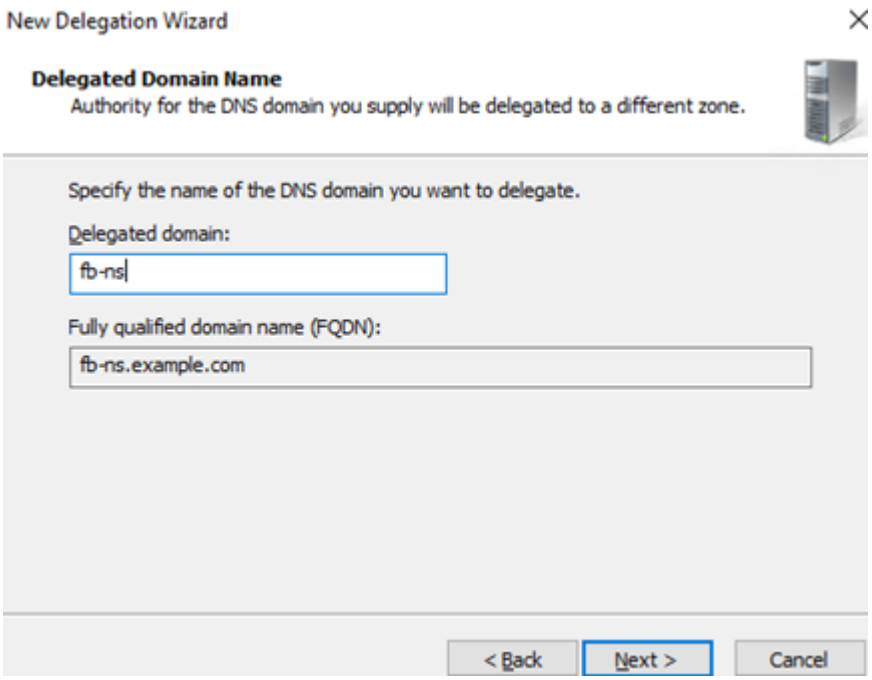
For detailed guidance on DNS delegation and other GSLB configurations, refer to the GEO Feature Description.

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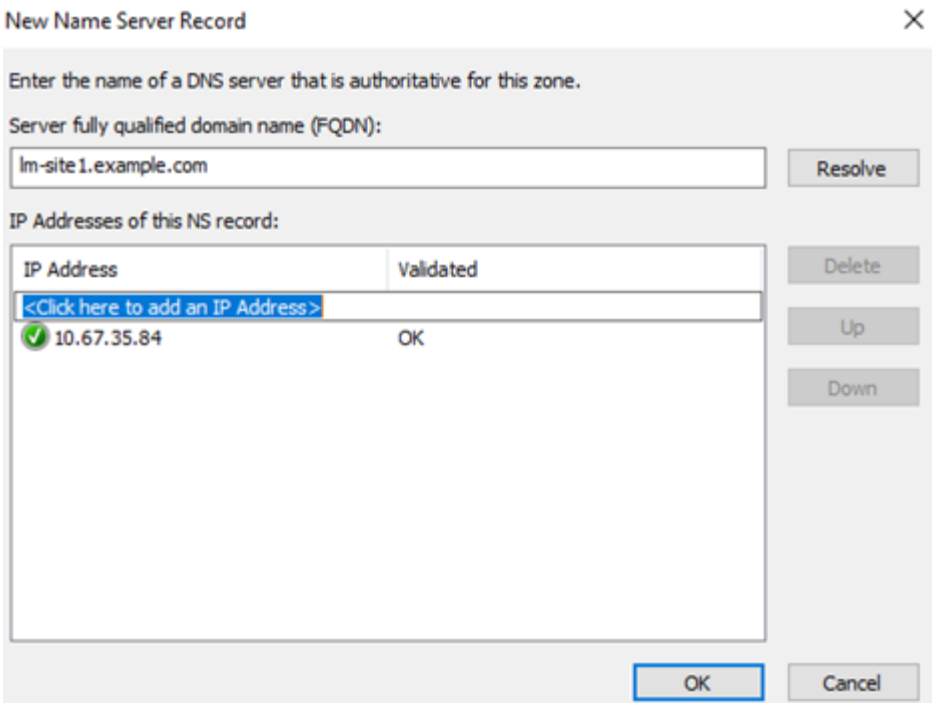
1. In the Microsoft **DNS Manager**, select the **Forward Lookup Zone** used by the Pure Storage FlashBlade//S environment.



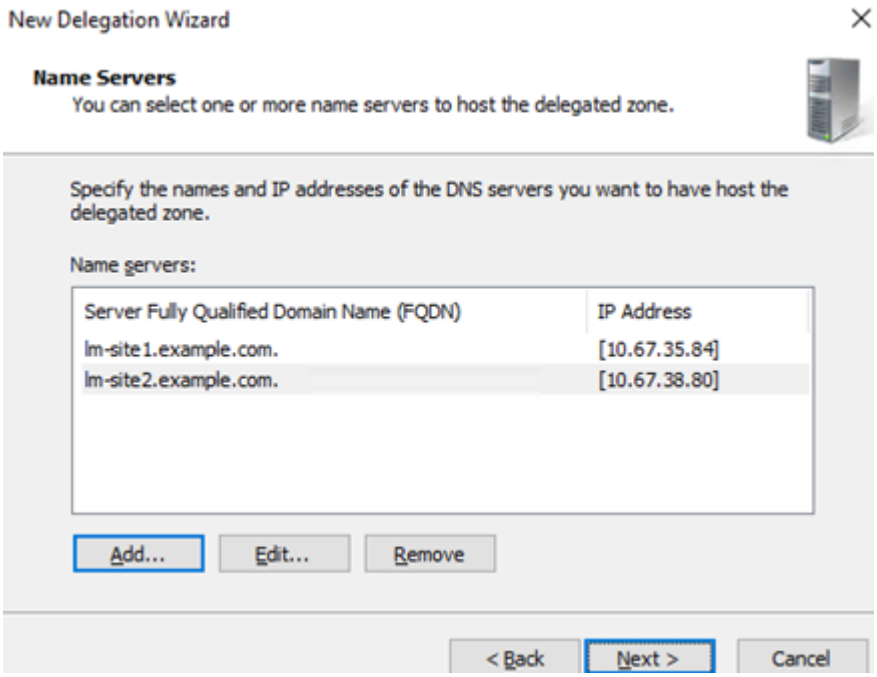
2. Right-click the **Forward Lookup Zone** and select **New Delegation**.



3. Click **Next** and enter the Pure Storage Namespace.
4. Click **Next**.
5. Click **Add**.



6. If available, enter the FQDN of the LoadMaster and click **Resolve**. Otherwise, manually enter the **IP address** of the LoadMaster.
7. Click **OK** once the validation status displays **OK**.



8. Add the remaining LoadMasters that are part of the GSLB configuration.
9. Click **Next**.
10. Click **Finish**.