

Microsoft Always On VPN

Deployment Guide

UPDATED: 28 July 2023

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

These materials and all Progress® software products are copyrighted and all rights are reserved by Progress Software Corporation. The information in these materials is subject to change without notice, and Progress Software Corporation assumes no responsibility for any errors that may appear therein. The references in these materials to specific platforms supported are subject to change.

#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.

Analytics360, AppServer, BusinessEdge, Chef Automate, Chef Compliance, Chef Desktop, Chef Workstation, Corticon Rules, Data Access, DataDirect Autonomous REST Connector, DataDirect Spy, DevCraft, Fiddler, Fiddler Classic, Fiddler Everywhere, Fiddler Jam, FiddlerCap, FiddlerCore, FiddlerScript, Hybrid Data Pipeline, iMail, InstaRelinker, JustAssembly, JustDecompile, JustMock, KendoReact, OpenAccess, PASOE, Pro2, ProDataSet, Progress Results, Progress Software, ProVision, PSE Pro, Push Jobs, SafeSpaceVR, Sitefinity Cloud, Sitefinity CMS, Sitefinity Digital Experience Cloud, Sitefinity Feather, Sitefinity Thunder, SmartBrowser, SmartComponent, SmartDataBrowser, SmartDataObjects, SmartDataView, SmartDialog, SmartFolder, SmartFrame, SmartObjects, SmartPanel, SmartQuery, SmartViewer, SmartWindow, Supermarket, SupportLink, Unite UX, and WebClient are trademarks or service marks of Progress Software Corporation and/or its subsidiaries or affiliates in the U.S. and other countries. Java is a registered trademark of Oracle and/or its affiliates. Any other marks contained herein may be trademarks of their respective owners.

Please refer to the NOTICE.txt or Release Notes – Third-Party Acknowledgements file applicable to a particular Progress product/hosted service offering release for any related required third-party acknowledgements.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

Table of Contents

1 Introduction **5**

1.1 Intended Audience 5

1.2 Document Purpose 5

1.3 About the Author 5

1.4 Assumptions 6

1.5 Load Balancing Always On VPN 6

1.6 Prerequisites 6

2 Template **8**

3 LoadMaster Global Settings **9**

3.1 Enable Subnet Originating Requests Globally 9

3.2 Enable Check Persist Globally 10

4 LoadMaster Virtual Services - IKEv2 ..... **11**

4.1 Create a Virtual Service using a Template 12

4.1.1 IKEv2 UDP 500 Virtual Service Recommended API Settings (optional) 12

4.1.2 IKEv2 UDP 4500 Virtual Service Recommended API Settings (optional) 13

4.2 Configure Port Following for IKEv2 UDP Virtual Services 13

4.2.1 Port Following Configuration for IKEv2 UDP 500 13

4.2.2 Port Following Configuration for IKEv2 UDP 4500 14

5 LoadMaster Virtual Services - SSTP **15**

5.1 Create a Virtual Service using a Template 15

5.1.1 SSTP Passthrough Virtual Service Recommended API Settings (optional) 16

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

5.1.2 SSTP Offloaded Virtual Service Recommended API Settings (optional) 16

5.1.3 Configure TLS Offloading on the RRAS Server 17

6 LoadMaster Virtual Services for NPS 19

6.1 Create a Virtual Service using a Template 19

6.1.1 NPS UDP 1812 Virtual Service Recommended API Settings (optional) 20

6.1.2 NPS UDP 1813 Virtual Service Recommended API Settings (optional) 20

6.2 Configure Port Following for NPS UDP Virtual Services 21

6.2.1 Port Following Configuration for NPS UDP 1812 21

6.2.2 Port Following Configuration for NPS UDP 1813 21

6.2.3 NPS Server Certificate Configuration 21

6.2.4 NPS Server Radius Configuration 22

7 References 24

Last Updated Date 25

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

1 Introduction

Always On VPN is the replacement solution for Microsoft's popular DirectAccess remote access technology. It makes use of the native VPN client in the Windows 10 operating system to provide seamless, transparent, and always on remote access for mobile workers. Always On VPN is infrastructure independent and can be configured to use many popular VPN devices including Windows Server Routing and Remote Access Services (RRAS).

1.1 Intended Audience

This document is intended for Windows administrators tasked with implementing a scalable and highly-available Always On VPN infrastructure. The engineer should have a strong understanding of IPv4 networking and routing, as well as common VPN protocols such as Internet Key Exchange version 2 (IKEv2) and Secure Socket Tunnelling Protocol (SSTP). A fundamental understanding of Active Directory authentication, RADIUS, as well as certificates and Public Key Infrastructure is also helpful.

1.2 Document Purpose

This document provides guidance for configuring the KEMP LoadMaster load balancer to eliminate single points of failure and to provide scalability, redundancy, and fault tolerance for an Always On VPN deployment. This document uses a representative environment, which is described in detail later. It does not address all possible scenarios. For questions regarding unique configurations, contact the KEMP support team.

1.3 About the Author

Richard Hicks is the founder and principal consultant of Richard M. Hicks Consulting, Inc. He is focused on delivering enterprise mobility and security infrastructure solutions to customers of all sizes. Richard has more than 25 years of experience working in enterprise corporate computing environments and has designed and deployed secure remote access solutions for some of the largest companies in the world. He is also the author of *Implementing DirectAccess with Windows Server 2016* from Apress Media (ISBN: 978-1484220580). You can learn more about Richard by visiting https://www.richardhicks.com/.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

1.4 Assumptions

This document assumes the reader has configured two Windows Server RRAS servers with two network interfaces, one in a perimeter or DMZ network, the other on the internal network. It should be noted that using two NICs is not a strict requirement. It is possible to configure Windows Server RRAS servers with a single network interface, if required. In addition, two Windows Server Network Policy Server (NPS) servers have been configured with a single network interface on the Internal network.

For details on recommended deployments, please reference the following link: https://directaccess.richardhicks.com/2018/01/22/always-on-vpn-protocol-recommendations-for-windows-server-routing-and-remote-access-service-rras/

1.5 Load Balancing Always On VPN

An enterprise Always On VPN deployment presents many opportunities to deploy KEMP LoadMaster products to provide scalability, fault tolerance, and deployment flexibility. The LoadMaster can be deployed to provide load balancing for the following Always On VPN infrastructure components.

1. **Routing and Remote Access Servers (RRAS) Servers** – An Always On VPN deployment may require more than one RRAS server to provide redundancy or to increase capacity to service more VPN connections than a single server is capable of.

2. **Network Policy Server (NPS) Servers** – To authenticate VPN connections, VPN servers are configured to forward authentication requests to an NPS server. Having more than one NPS server eliminates this single point of failure and may be required to support authentication for large scale deployments.

3. **Geographic Redundancy** – Unlike DirectAccess, Always On VPN has no concept of "multisite" configuration. To provide geographic redundancy, multiple VPN servers can be configured in various locations using a single, common public hostname. VPN client connections can then be routed to the most preferred location.

1.6 Prerequisites

Several prerequisites must be in place before proceeding with this documentation. In addition to the assumptions outlined earlier in this document, it is assumed that the KEMP LoadMaster has been configured and that network connectivity to all networks has been validated. In addition, the following prerequisites must be in place before continuing.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

- A public hostname for the VPN server that resolves to the IP address assigned to the VPN virtual service (or edge firewall if the LoadMaster is in a perimeter or DMZ network).
- An SSL certificate with a subject name that matches the VPN server's public hostname.
- Each VPN server must be configured to assign unique IP addresses to its clients. Using DHCP for VPN client address assignment when there is more than one VPN server in a cluster is not supported.
- An internal hostname for the NPS cluster that resolves to the IP address assigned to the NPS virtual service.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

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.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

3 LoadMaster Global Settings

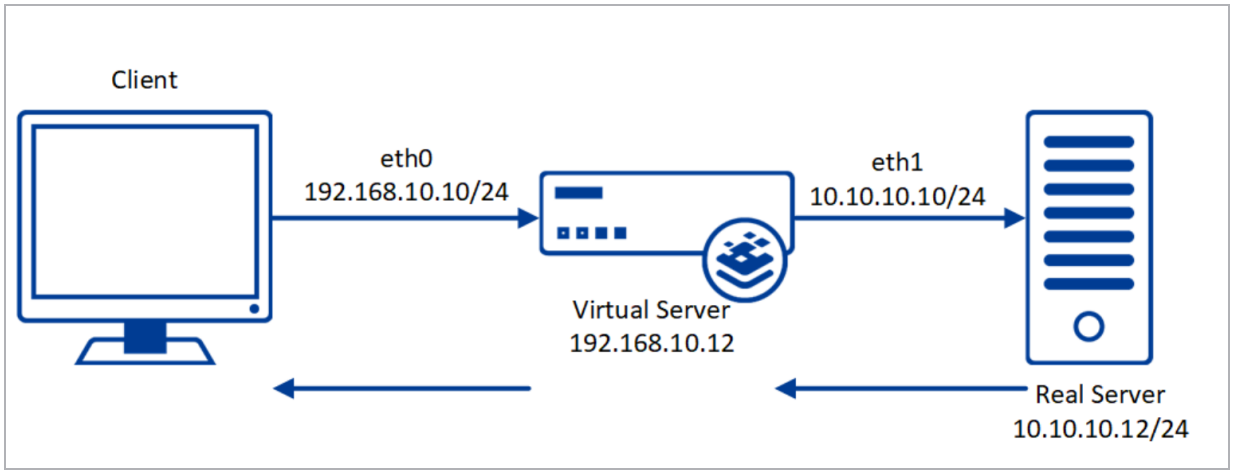
Before setting up the Virtual Services, the following global settings should be configured to support the workload.

3.1 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.



In the diagram above, you can see the following details:

- Virtual Service on **eth0**: 192.168.10.10/24
- Virtual Server: 192.168.10.12
- Real Server on **eth1**: 10.10.10.10/24

With **Subnet Originating Requests** enabled, the Real Server sees traffic originating from 10.10.10.10 (LoadMaster **eth1** address) and responds directly.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

If **Subnet Originating Requests** is disabled, the Real Server sees traffic originating from 192.168.10.10 (the Virtual Service address) and responds directly. In some environments this can lead to asymmetric routing which is why Kemp recommends enabling **Subnet Originating Requests** unless specified otherwise

When **Subnet Originating Requests** is enabled globally, it is automatically enabled on all Virtual Services.

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

3.2 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**.
2. Click the **Always Check Persist** drop-down arrow and select **Yes – Accept Changes**.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

4 LoadMaster Virtual Services - IKEv2

IKEv2 communication takes place over UDP ports 500 and 4500. The initial connection is always made on UDP port 500. If a Network Address Translation (NAT) device is detected in the path, communication switches to using UDP port 4500. Since UDP is connectionless, special configuration is required to ensure that client connections are routed to the same Real Server.

> Windows limits the number of IPSec Security Associations (SAs) coming from a single IP address. Because of this limit, transparency must be set on the Virtual Service allowing the original client IP address to be seen on the VPN server. This requires that the default gateway on the VPN servers points to the LoadMaster for proper routing. If this configuration is not possible, the following workaround may resolve the issue: https://support.microsoft.com/en-us/help/2579729/ipsec-traffic-may-be-blocked-when-a-computer-that-is-running-windows-7

> For further information on transparency, refer to the Transparency Feature Description.

This guide contains a section on creating a Virtual Service in the WUI using a template. To configure the Virtual Services using the Application Programming Interface (API), refer to the RESTful API on the Kemp documentation page.

> The recommended settings for the IKEv2 LoadMaster Virtual Services use the **Refresh Persist** option to ensure proper persistence for Microsoft Always On VPN clients. This functionality requires LoadMaster version 7.2.53 or higher.

The table in each section outlines the API settings and values. You can use this information when using the Kemp LoadMaster API and automation tools.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

4.1 Create a Virtual Service using a Template

To configure a Virtual Service using the application template, perform the following steps:

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > Add New**.
2. Type a valid **Virtual Address**.
3. Select the appropriate 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. Enter the **Real Server Address**.
8. Confirm that the correct port is entered.
9. Click **Add This Real Server**.

> Do not forget to configure Port Following in **Configure Port Following for IKEv2 UDP Virtual Services** to ensure connections for IKEV2 are sent to the same Real Server. For more information, see the **Port Following** document on the Kemp documentation page.

4.1.1 IKEv2 UDP 500 Virtual Service Recommended API Settings (optional)

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

API Parameter	API Value
port	500
prot	udp
ForceL7	1
Transparent	1
Persist	src
PersistTimeOut	345600

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

API Parameter	API Value
RefreshPersist	1
Schedule	lc
CheckType	icmp

4.1.2 IKEv2 UDP 4500 Virtual Service Recommended API Settings (optional)

This table outlines the API parameters and values set using the Kemp application template. These settings can be used with scripts and automation tools.

API Parameter	API Value
port	4500
prot	udp
ForceL7	1
Transparent	1
Persist	src
PersistTimeOut	345600
RefreshPersist	1
Schedule	lc
CheckType	icmp

4.2 Configure Port Following for IKEv2 UDP Virtual Services

Port Following is required to ensure connections for IKEv2 UDP 500 and 4500 are sent to the same Real Server. To configure Port Following, see the following sections. For more information, see the **Port Following** document on the Kemp documentation page.

4.2.1 Port Following Configuration for IKEv2 UDP 500

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > View/Modify Services**.
2. Click **Modify** for the IKEv2 UDP 500 Virtual Service.
3. Expand **Advanced Properties**.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

4. Select the IKEv2 UDP 4500 Virtual Service in the **Port Following** drop-down list.

4.2.2 Port Following Configuration for IKEv2 UDP 4500

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > View/Modify Services**.
2. Click **Modify** for the IKEv2 UDP 4500 Virtual Service.
3. Expand **Advanced Properties**.
4. Select the **IKEv2 UDP 500** Virtual Service in the **Port Following** drop-down list.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

5 LoadMaster Virtual Services - SSTP

SSTP communication takes place over TCP port 443. It uses TLS and can be load balanced in much the same way as an ordinary web server, with a few exceptions. It is generally recommended that the LoadMaster not be configured to terminate (offload) TLS, but instead passthrough encrypted connections directly to Real Servers. However, with some additional configuration, TLS offload can be enabled on the LoadMaster to reduce CPU utilization on Real Servers, if required.

This guide contains a section on creating a Virtual Service in the WUI using a template. To configure the Virtual Services using the Application Programming Interface (API), refer to the RESTful API on the Kemp documentation page.

The table in each section outlines the API settings and values. You can use this information when using the Kemp LoadMaster API and automation tools.

5.1 Create a Virtual Service using a Template

To configure a Virtual Service using the application template, perform the following steps:

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > Add New**.
2. Type a valid **Virtual Address**.
3. Select the appropriate template in the **Use Template** drop-down list.
4. Click **Add this Virtual Service**.
5. (Required only for TLS/SSL Offload and ReEncrypt) Expand the **SSL Properties** section.
6. (Required only for TLS/SSL Offload and ReEncrypt) Select the certificate to use in the **Available Certificates** and click the **arrow >** to move it to **Assigned Certificates**.
7. Expand the **Real Servers** section.
8. In the **HTTP1.1/Host** field, enter the public hostname/URL of the VPN and click **Set Host**.
9. Click **Add New**.
10. Enter the **Real Server Address**.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

11. Confirm that the correct port is entered.
12. Click **Add This Real Server**.

5.1.1 SSTP Passthrough Virtual Service Recommended API Settings (optional)

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

API Parameter	API Value
port	443
prot	tcp
VStype	http
SubnetOrg	1
Persist	src
PersistTimeOut	300
Schedule	lc
CheckType	tcp
CheckPort	443
CheckURL	/sra_{BA195980-CD49-458b-9E23-C84EE0ADCD75}/
CheckStatusCode	401
UseHTTP/1.1	1
HTTPMethod	Head

5.1.2 SSTP Offloaded Virtual Service Recommended API Settings (optional)

This table outlines the API parameters and values set using the Kemp application template. These settings can be used with scripts and automation tools.

API Parameter	API Value
port	443
prot	tcp

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

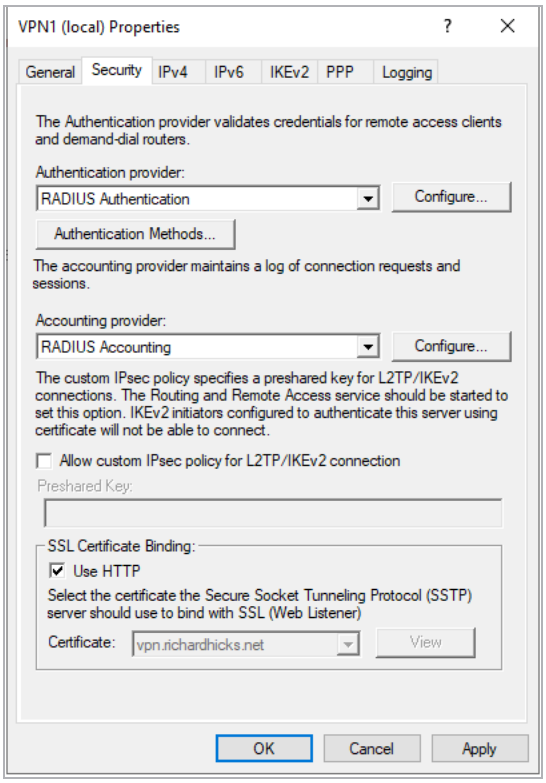
API Parameter	API Value
VStype	http
SubnetOriginating	1
Persist	src
PersistTimeOut	300
Schedule	lc
SSLAcceleration	1
TLSType	7
CheckType	HTTP
CheckURL	/sra_{BA195980-CD49-458b-9E23-C84EE0ADCD75}/
CheckStatusCode	401
UseHTTP/1.1	1
HTTPMethod	Head

5.1.3 Configure TLS Offloading on the RRAS Server

On the Windows RRAS server, open the Remote Access Management console (rrasmgmt.msc) and perform the following steps:

1. Right-click the VPN server and select **Properties**.
2. Select the **Security** tab.
3. Select the public SSL certificate in the **SSL Certificate Binding** box.
4. Select the option to **Use HTTP**.
5. Click **Ok**.
6. Click **Yes** when prompted to restart the service.
7. Repeat these steps on each RRAS server in the cluster.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.



It is assumed that the public SSL certificate is installed on the RRAS server when performing the steps above. In some cases, installing the public SSL certificate on the RRAS server may not be possible. In this scenario the administrator must manually configure the RRAS server to support SSL offload for SSTP using a custom PowerShell script that can be downloaded here.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

6 LoadMaster Virtual Services for NPS

NPS communication takes place over UDP ports 1812 and 1813. Authentication requests on UDP port 1812 and accounting requests on port UDP 1813. Both of these connections must be sent to the same NPS server. Since UDP is connectionless, special configuration is required to ensure that client connections are routed to the same Real Server.

This guide contains a section on creating a Virtual Service in the WUI using a template. To configure the Virtual Services using the Application Programming Interface (API), refer to the RESTful API on the Kemp documentation page.

The table in each section outlines the API settings and values. You can use this information when using the Kemp LoadMaster API and automation tools.

6.1 Create a Virtual Service using a Template

To configure a Virtual Service using the application template, perform the following steps:

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > Add New**.
2. Type a valid **Virtual Address**.
3. Select the appropriate 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. Enter the **Real Server Address**.
8. Confirm that the correct port is entered.
9. Click **Add This Real Server**.

> Do not forget to configure Port Following in **Configure Port Following for IKEv2 UDP Virtual Services** to ensure connections for IKEV2 are sent to the same Real Server. For

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

more information, see the **Port Following** document on the Kemp documentation page.

6.1.1 NPS UDP 1812 Virtual Service Recommended API Settings (optional)

This table outlines the API parameters and values set using the Kemp application template. These settings can be used with scripts and automation tools.

API Parameter	API Value
port	1812
prot	udp
ForceL7	1
Persist	src
PersistTimeOut	300
Schedule	lc
CheckType	icmp

6.1.2 NPS UDP 1813 Virtual Service Recommended API Settings (optional)

This table outlines the API parameters and values set using the Kemp application template. These settings can be used with scripts and automation tools.

API Parameter	API Value
port	1813
prot	udp
ForceL7	0
Persist	src
PersistTimeOut	300
Schedule	lc
CheckType	icmp

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

6.2 Configure Port Following for NPS UDP Virtual Services

Port Following is required to ensure connections for IKEv2 UDP 1812 and 1813 are send to the same Real Server. To configure Port Following, see the sections below.

6.2.1 Port Following Configuration for NPS UDP 1812

1. In the main menu of the LoadMaster WUI, go to **Virtual Services > View/Modify Services**.
2. Click **Modify** for the NPS UDP 1812 Virtual Service.
3. Expand **Advanced Properties**.
4. Select the **NPS UDP 1813** Virtual Service in the **Port Following** drop-down list.

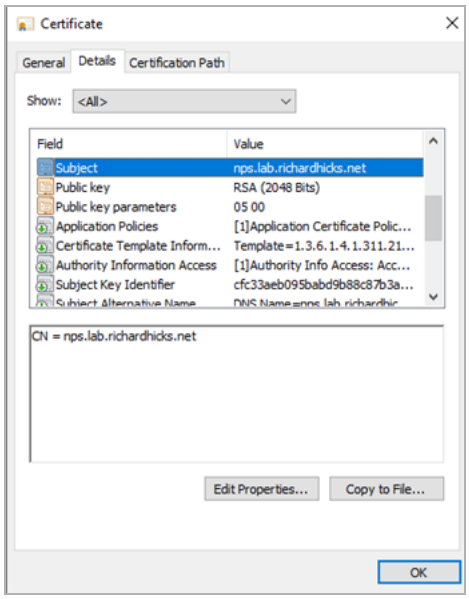
6.2.2 Port Following Configuration for NPS UDP 1813

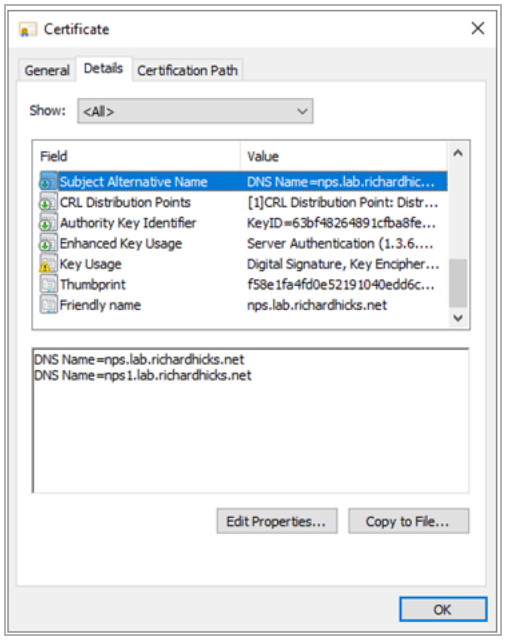
1. In the main menu of the LoadMaster WUI, go to **Virtual Services > View/Modify Services**.
2. Click **Modify** for the NPS UDP 1813 Virtual Service.
3. Expand **Advanced Properties**.
4. Select the **NPS UDP 1812** Virtual Service in the **Port Following** drop-down list.

6.2.3 NPS Server Certificate Configuration

To support LoadMaster load balancing for NPS, the certificate installed on the NPS server must be configured to use the cluster Fully Qualified Domain Name (FQDN) as the subject name on the certificate, with the Subject Alternative Name fields including the FQDNs of both the cluster and server names.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.





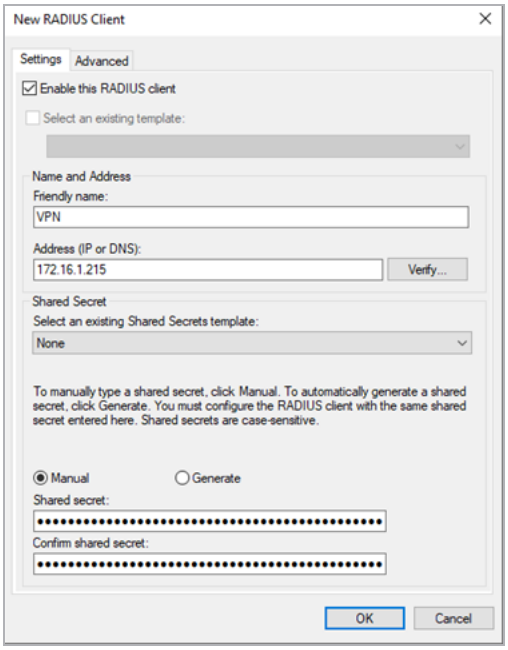
6.2.4 NPS Server Radius Configuration

When a LoadMaster is load balancing NPS, the source IP address of the RADIUS authentication and accounting requests is the Virtual IP Address (VIP) assigned to the virtual service. A RADIUS client must be configured in NPS to allow authentication and accounting requests to be processed. Open the NPS management console and perform the following steps.

1. Expand **RADIUS Clients and Servers**.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

2. Right-click **RADIUS Clients** and select **New**.
3. Enter a friendly name for the new RADIUS client.
4. Enter the VIP of the NPS virtual service in the **Address (IP or DNS)** field.
5. Enter and confirm the shared secret used between the NPS and VPN servers.
6. Click **Ok**.
7. Repeat the steps above on each NPS server in the cluster.



© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

7 References

Some resources on Microsoft Always On VPN are listed below:

The Microsoft Always On VPN document can be found on the Kemp Documentation page.

Microsoft Windows 10 Always On VPN

https://docs.microsoft.com/en-us/windows-server/remote/remote-access/vpn/always-on-vpn/

Microsoft Windows 10 Always On VPN Deployment Guide

https://docs.microsoft.com/en-us/windows-server/remote/remote-access/vpn/always-on-vpn/deploy/always-on-vpn-deploy

Richard Hicks Enterprise Mobility Blog

https://directaccess.richardhicks.com/

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.

Last Updated Date

This document was last updated on 28 July 2023.

© 2022 Progress Software Corporation and/or one of its subsidiaries or affiliates. All rights reserved.