



MS Terminal Services

Feature Description

UPDATED: 29 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.

Table of Contents

1 Introduction	4
1.1 Document Purpose	4
1.2 Intended Audience	4
2 Load Balancing Microsoft Terminal Services	5
References	7
Last Updated Date	8

1 Introduction

Kemp leads the industry in driving the price/performance value proposition for application delivery and load balancing to levels that our customers can afford. Our products' versatile and powerful architecture provide the highest value, while enabling our customers to optimize their businesses that rely on Internet-based infrastructure to conduct business with their customers, employees and partners.

Kemp products optimize web and application infrastructure as defined by high-availability, high-performance, flexible scalability, security and ease of management. They maximize the total cost-of-ownership for web infrastructure, while enabling flexible and comprehensive deployment options.

1.1 Document Purpose

This document describes various aspects of configuring the Kemp LoadMaster for use with Microsoft Terminal Services. It describes in detail how to configure the LoadMaster using the LoadMaster Web User Interface (WUI).

1.2 Intended Audience

This document is intended to help anyone who wishes to learn about or implement load balancing on Microsoft Terminal Services using the Kemp LoadMaster.

2 Load Balancing Microsoft Terminal Services

Setting up a Virtual Service to balance Microsoft Terminal Servers is very similar to setting up any other Virtual Service. The system tries to automatically detect the type of Virtual Service based on the port of the Virtual Service. If the Virtual Service uses port 80, 8080 or 443, then it will be configured as a HTTP/HTTPS service. If it uses port 3389 then it will be configured for terminal services. If the port is set to anything else, the service will be configured as “Generic”.

The type of the service can always be changed manually if needed.

This configuration is intended to allow the LoadMaster to balance Microsoft Terminal Services across multiple servers. Upon first connection, a server is allocated using the standard scheduling methods, i.e. Round Robin, Least Connection, Adaptive, etc.

If a user disconnects from his/her session without logging out, it is preferable to maintain persistence with the server that he/she originally connected to. This allows that user to come back to the screen they were working on, with all the same windows open and applications running where they had left off.

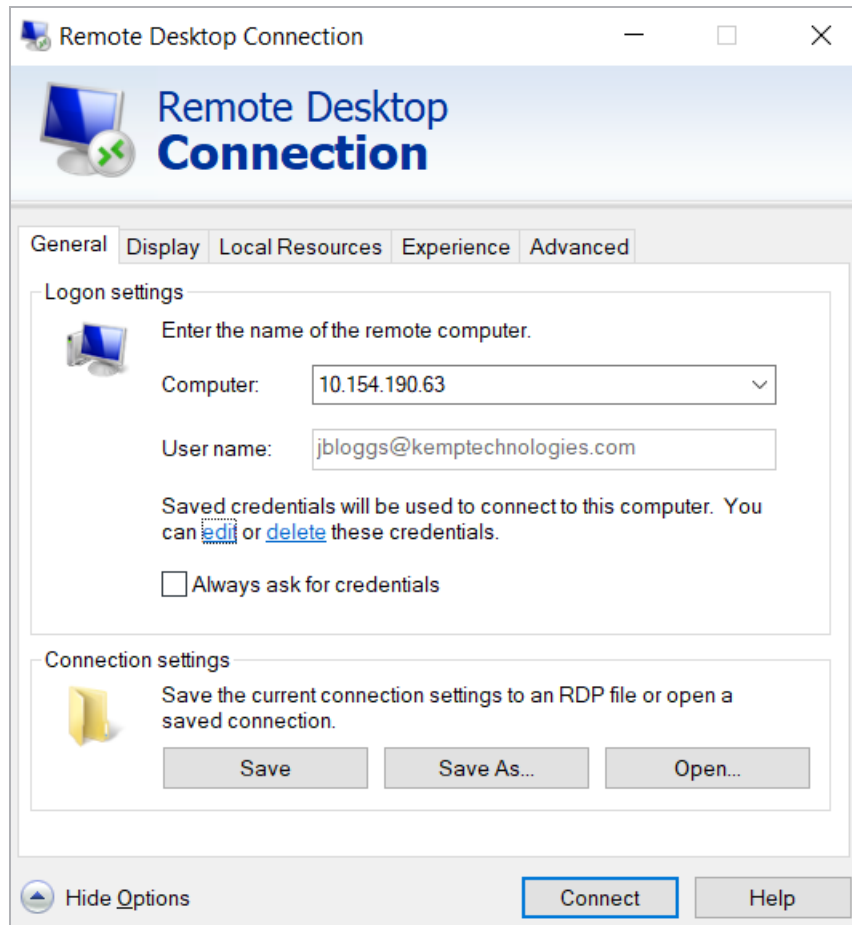
This is where the Persistence Mode of Terminal Service comes in. If this persistence mode is enabled, when a user reconnects, the LoadMaster will try to connect the session to the same server. It does this in one of three ways:

▼ Standard Options	
Transparency	<input checked="" type="checkbox"/>
Extra Ports	<input type="text"/> Set Extra Ports
Persistence Options	Mode: <input type="text" value="Terminal Service or Source IP"/> ▼
	Timeout: <input type="text" value="6 Minutes"/> ▼
Scheduling Method	<input type="text" value="round robin"/> ▼
Idle Connection Timeout (Default 660)	<input type="text"/> Set Idle Timeout
Use Address for Server NAT	<input type="checkbox"/>
Quality of Service	<input type="text" value="Normal-Service"/> ▼

2 Load Balancing Microsoft Terminal Services

If the terminal servers support a RD Connection Broker, the LoadMaster will use the "routing token" supplied by the RD Connection Broker to determine the correct host to connect to. The LoadMaster persistency timeout value is irrelevant here - it is a feature of the RD Connection Broker.

The **IP address redirection** option in the RD Connection Broker configuration must be unchecked for this to work.



Using RD Connection Broker with the LoadMaster is optional in terms of persistence. If the client pre-populates the username and password fields in the initial request, then this value is stored on the LoadMaster. As long as these fields are still populated upon reconnect, the LoadMaster will look up the name and reconnect to the same server as the original connection. The persistence timeout is used to limit the time the information is kept on the LoadMaster.

If using **Terminal-Service** or **source IP** mode, then if neither of these two modes succeeds, the source IP address will be used for persistency.

References

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

Web User Interface (WUI), Configuration Guide

Kemp LoadMaster, Product Overview

Last Updated Date

This document was last updated on 29 July 2023.