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TABLE OF CONTENTS

1. Introduction
2. Installation
2.1. Overview
2.2. System Requirements
2.3. Plan the Client-Server Configuration
2.4. Download Virtual Reactor
2.5. Install the RLM Server
2.5.1. Firewall Configuration
2.6. Install the RLM License
2.7. Install Virtual Reactor
2.8. Point Client Machines to the RLM Server
2.9. Install NVIDIA Drivers
2.10. Troubleshooting
2.10.1. License not found
2.10.2. RLM Server Issues
2.10.3. NVIDIA Driver Issues
3. Setup Grid
4. Global Settings
5. Base Materials
6. Particles
7. Initial Conditions
8. Boundary Conditions
9. BC Connections
10. Chemistry
11. Numerics
12. Time Controls
13. Data Output
14. Run
15. Post-Run
16. Plot Manager
17. Useful Formulas
18. Release Guides
19. References

2. Installation

2.1. Overview

This chapter documents the procedures for installing Virtual Reactor and its license server, the Reprise License Manager (RLM). The following steps lead you through the process of getting started with Virtual Reactor:

1. [Create a CPFD Support site account](#) in order to access downloads
2. Acquire hardware that meets recommended [System Requirements](#)
3. [Plan the Client-Server Configuration](#)
4. [Download Virtual Reactor](#)
5. [Install the RLM Server](#)
6. [Install the RLM License](#)
7. [Install Virtual Reactor](#)
8. [Point Client Machines to the RLM Server](#)
9. [Install NVIDIA Drivers](#)

In order to use Virtual Reactor, you must have a valid software license installed. Virtual Reactor uses a client-server model for licensing, meaning that your license(s) can be placed on one machine, which acts as a license server, and other machines on the same network can point to and request licenses from that server. The server may also use the license(s) that it hosts.

The licensing policy for Virtual Reactor is as follows:

- Each solver license allows the user to run one instance of the Virtual Reactor solver. Optionally, add-ons to each solver license may be purchased to include Chemistry capabilities and/or Parallel capabilities.
- The number of Virtual Reactor solvers that can be run simultaneously is limited to the number of solver licenses that have been purchased.
- With any license, an unlimited number of Virtual Reactor Graphical User Interfaces (GUIs) can be open at the same time. This allows users to set up simulations, review previously set up models, and use all functions of the GUI.
- [Running a single time step](#) does not count against the number of Virtual Reactor solver licenses in use. This allows users to review a project setup at any time.
- An unlimited number of GMV post-processing instances can be open at the same time.
- If Parallel add-on licenses have been purchased, Virtual Reactor can utilize NVIDIA GPU cards to increase calculation speed. The number of simulations that can use GPU acceleration simultaneously is limited to the number of Parallel add-on licenses purchased.
- If Chemistry add-on licenses have been purchased, Virtual Reactor can include user-specified chemical reactions in the simulation. The number of simulations that can solve chemistry simultaneously is limited to the number of chemistry add-on licenses that have been purchased.
- If Parallel and Chemistry add-on licenses have been purchased, Virtual Reactor can use multiple CPU cores for parallelization of volume-average chemistry to increase calculation speed. The number of simulations that can use CPU parallel acceleration simultaneously is limited to the number of Parallel add-on licenses purchased.

2.2. System Requirements

Virtual Reactor can be used on either Linux or Windows. The following table lists minimum and recommended system requirements.

	Minimum	Recommended
Operating System	Recent 64-bit Linux 64-bit Windows 7, 8, or 10	64-bit CentOS 6 (RHEL 6) or higher Windows 7 Professional 64-bit

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Table of Contents Barracuda User Guide

1. Understanding the eBook Barracuda User Guide
 - The Rise of Digital Reading Barracuda User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Barracuda User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Barracuda User Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Barracuda User Guide
 - Personalized Recommendations

- Barracuda User Guide User Reviews and Ratings
- Barracuda User Guide and Bestseller Lists
- 5. Accessing Barracuda User Guide Free and Paid eBooks
 - Barracuda User Guide Public Domain eBooks
 - Barracuda User Guide eBook Subscription Services
 - Barracuda User Guide Budget-Friendly Options
- 6. Navigating Barracuda User Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Barracuda User Guide Compatibility with Devices
 - Barracuda User Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Barracuda User Guide
 - Highlighting and Note-Taking Barracuda User Guide
 - Interactive Elements Barracuda User Guide
- 8. Staying Engaged with Barracuda User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Barracuda User Guide
- 9. Balancing eBooks and Physical Books Barracuda User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Barracuda User Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Barracuda User Guide
 - Setting Reading Goals Barracuda User Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Barracuda User Guide
 - Fact-Checking eBook Content of Barracuda User Guide

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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