Laboratory
0

Introduction

Basics of Riverbed Modeler Academic Edition

Objective

This lab teaches you the basics of using Riverbed Modeler Academic Edition. Riverbed Modeler Academic Edition enables students to better understand the core concepts of networking and equips them to effectively troubleshoot and manage real-world network infrastructures.

Overview

Riverbed's Modeler provides a Virtual Network Environment that models the behavior of your entire network, including its routers, switches, protocols, servers, and individual applications. By working in the Virtual Network Environment, IT managers, network and system planners, and operations staff are empowered to diagnose difficult problems more effectively, validate changes before they are implemented, and plan for future scenarios including growth and failure.

In this lab, you will learn the basics of the Riverbed Modeler Academic Edition software. You will learn how to setup and run Riverbed Modeler Academic Edition. You will become familiar with some of its preferences and will practice using the software by running some tutorials.

The labs in this manual are implemented with Riverbed Modeler Academic Edition release 17.5. If your computer meets the system requirements, shown below, and if you want to download the software, please visit the following site to register with Riverbed technology:

https://enterprise37.opnet.com/4dcgi/SIGNUP_NewUserOther

System Requirements:

- Memory:
  - 3 GB Up to an additional 2 GB of free disk space may be required during installation

- Disk space:
  - 512MB required

- Display:
  - 1024x768 minimum resolution

- Operating Systems:
  - Windows 7 Professional (32 and 64 bit)
  - Windows Vista Business (32-bit and 64-bit)
  - Windows XP Professional (32-bit and 64-bit)
  - Windows Server 2008 (32-bit and 64-bit)
  - Windows Server 2003 (32-bit and 64-bit)
  - Windows Server 2003 R2 (32-bit and 64-bit)

Procedure

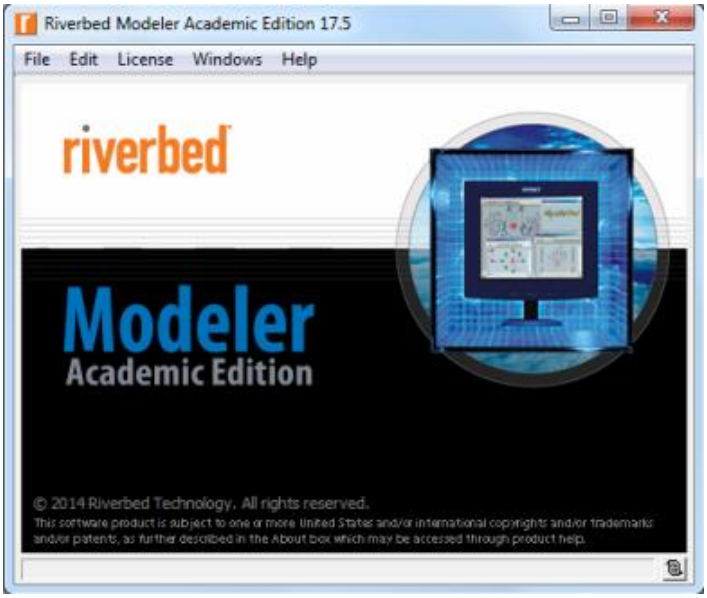
Start Riverbed Modeler Academic Edition

To start Riverbed Modeler Academic Edition:

1. Click on **Start** ⇒ **Programs** ⇒ ***Riverbed Modeler Academic Edition x.x*** ⇒ ***Riverbed Modeler Academic Edition x.x***, where ***x.x*** is the software version (e.g., 17.5).

2. Read the **Restricted Use Agreement** and if you agree, click **I have read this SOFTWARE AGREEMENT and I understand and accept the terms and conditions described herein**.

Now you should see the starting window of Riverbed Modeler Academic Edition as shown:



Check the Modeler Preferences

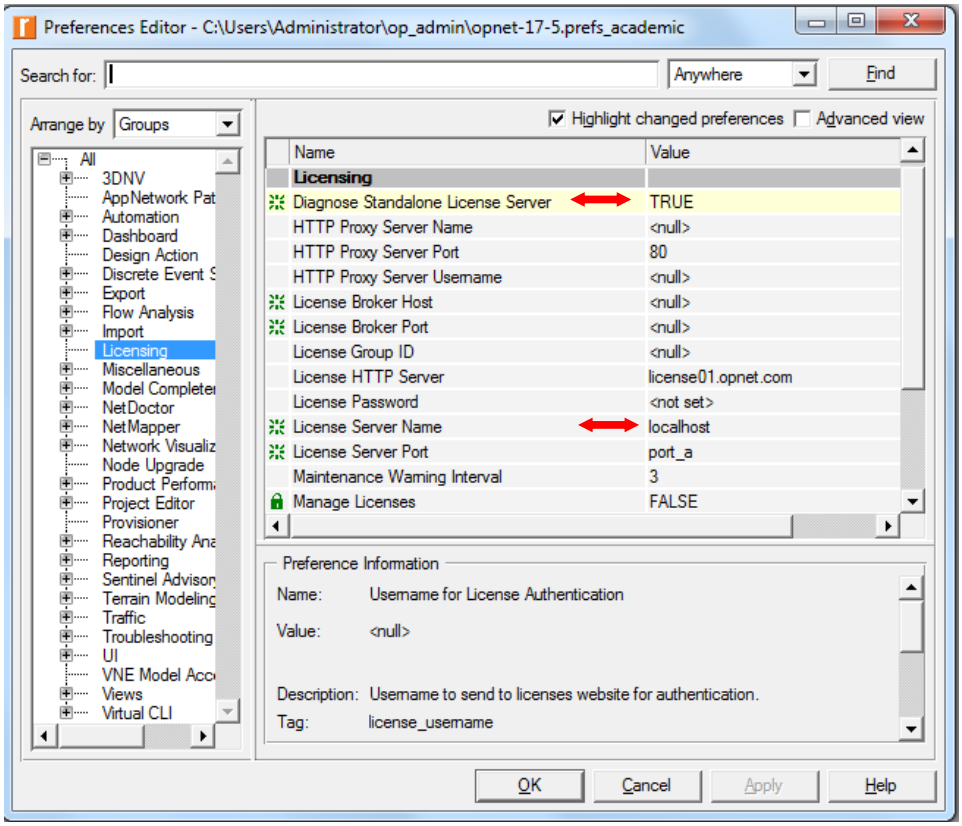
The Modeler Preferences let you display and edit environment attributes, which control program operations. In this lab you will check three of those environments attributes.

1. After starting Modeler, from the **Edit** menu, choose **Preferences**.

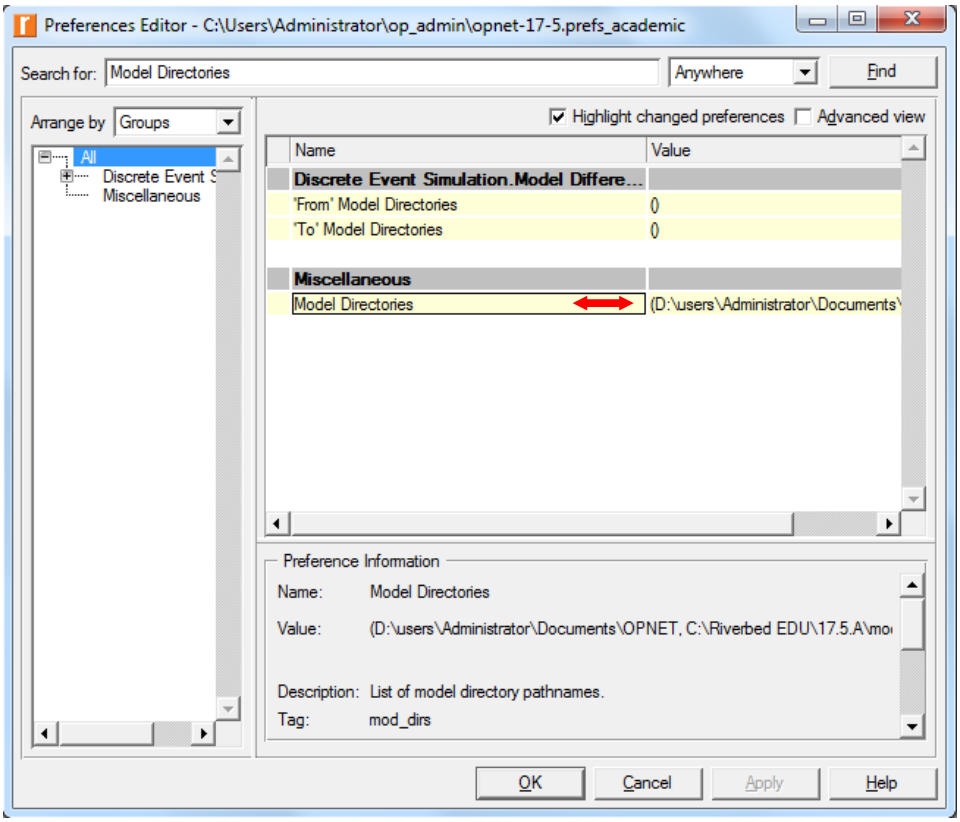
2. Click on the **Licensing** tab on your right to enter license preferences. The list of environment attributes is sorted alphabetically according to name and to topic. You can locate attributes faster by typing any part of the attribute's name in the **Find** field. You can also locate group of environment attributes.

3. Check the value of the **license server name** attribute. It has the name of the License Server's host. If Modeler is getting its license from the local host (i.e., the computer on which the software was installed), the value of **license server name** should be **localhost** as shown in the following figure.

4. Set the **Standalone License Server** attribute to **TRUE**. This attribute specifies whether the program acts as its own license server.



5. Enter **Model Directories** in **Search for** to find the model directory. A model directory is a directory that contains Modeler model files. If the directory is listed in the **Model Directories** environment attribute, then Modeler programs will use the models in that directory. Check the value of the **Model Directories** attribute. The first directory in the list is where your own models will be saved. In the future you might need to access that directory to back up, copy, or move your models. Modeler saves numerous files for every single project you create.



6. Click **OK** to close the dialog box.

Lab Report

The laboratory report of this lab (and also all the following labs in this manual) should include the following items/sections:

- A cover page with your name, course information, lab number and title, and date of submission.
- A summary of the addressed topic and objectives of the lab.
- Implementation: a brief description of the process you followed in conducting the implementation of the lab scenarios.
- Results obtained throughout the lab implementation, the analysis of these results, and a comparison of these results with your expectations.
- Answers to the given questions at the end of the lab. If an answer incorporates new graphs, analysis of these graphs should be included here.
- A conclusion that includes what you learned, difficulties you faced, and any suggested extensions/improvements to the lab.