



Data Science Academy

www.datascienceacademy.com.br

Big Data Analytics com R e Microsoft Azure Machine Learning

Bônus

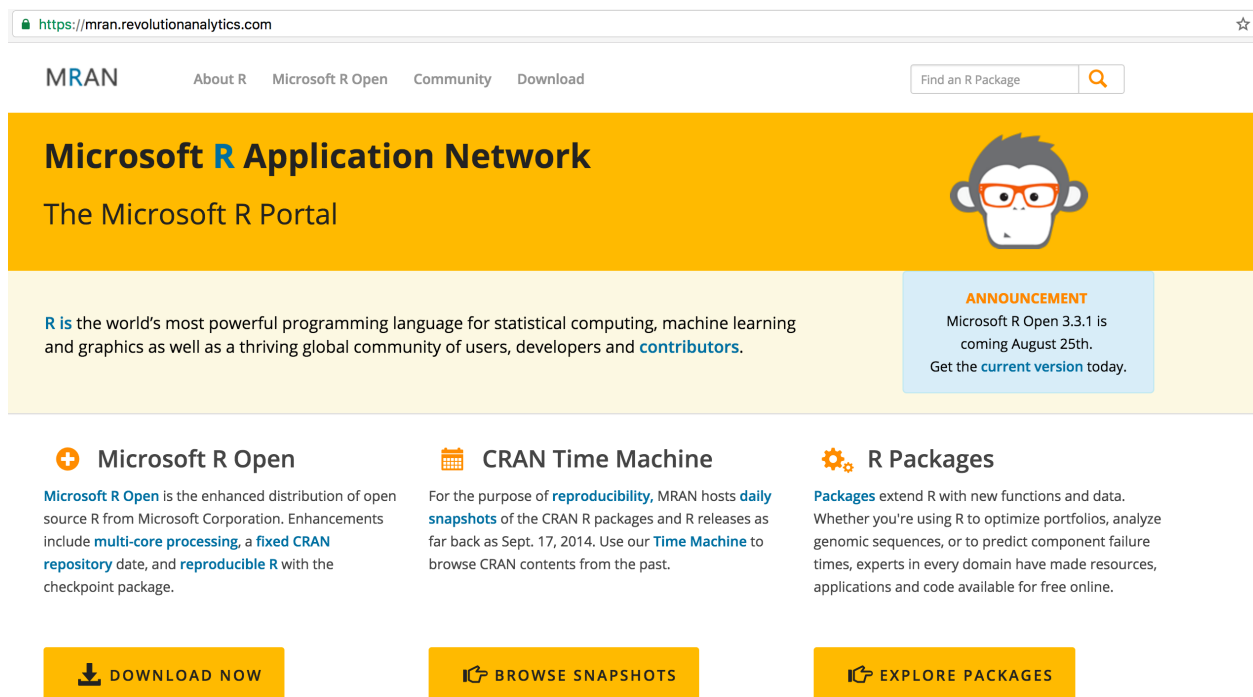
Instalando Microsoft R Open

Este manual tem como objetivo demonstrar a instalação do Microsoft R Open, distribuição R da Microsoft que originalmente tinha o nome Revolution Analytics (e foi comprada pela Microsoft).

Instalação da Distribuição R da Microsoft

1- Acesse o site: <https://mran.revolutionanalytics.com> para fazer o download do Microsoft R Open.

Esta é a distribuição R da Microsoft, com algumas diferenças da versão oficial do R, que está disponível no CRAN.



The screenshot shows the Microsoft R Application Network website. The header includes the MRAN logo and navigation links: About R, Microsoft R Open, Community, and Download. A search bar labeled 'Find an R Package' is on the right. The main banner features the text 'Microsoft R Application Network' and 'The Microsoft R Portal' next to a cartoon monkey wearing glasses. Below the banner, a paragraph describes R as the world's most powerful programming language for statistical computing, machine learning, and graphics, mentioning a thriving global community. To the right, an 'ANNOUNCEMENT' box states that Microsoft R Open 3.3.1 is coming August 25th and encourages users to get the current version. The footer is divided into three columns: 'Microsoft R Open' with a download button, 'CRAN Time Machine' with a browse snapshots button, and 'R Packages' with an explore packages button.

<https://mran.revolutionanalytics.com>

MRAN About R Microsoft R Open Community Download Find an R Package

Microsoft R Application Network

The Microsoft R Portal

R is the world's most powerful programming language for statistical computing, machine learning and graphics as well as a thriving global community of users, developers and [contributors](#).

ANNOUNCEMENT
Microsoft R Open 3.3.1 is coming August 25th.
Get the [current version](#) today.

Microsoft R Open

Microsoft R Open is the enhanced distribution of open source R from Microsoft Corporation. Enhancements include [multi-core processing](#), a [fixed CRAN repository](#) date, and [reproducible R](#) with the checkpoint package.

DOWNLOAD NOW

CRAN Time Machine

For the purpose of [reproducibility](#), MRAN hosts [daily snapshots](#) of the CRAN R packages and R releases as far back as Sept. 17, 2014. Use our [Time Machine](#) to browse CRAN contents from the past.

BROWSE SNAPSHOTS

R Packages

[Packages](#) extend R with new functions and data. Whether you're using R to optimize portfolios, analyze genomic sequences, or to predict component failure times, experts in every domain have made resources, applications and code available for free online.

EXPLORE PACKAGES

2- Faça do download do R Open e do MKL

<https://mran.revolutionanalytics.com/download/>
[Learn more...](#)


- MKL now bundled with Microsoft R Open on Windows & Linux
- A fix for bug that sometimes stopped RStudio Server from finding Microsoft R Open on Linux

[Prerequisites & Install Docs](#) | [Forum](#) | [News](#) | [Past Releases](#)

Microsoft R Open & MKL Downloads

While the install of MKL, used for multithreaded performance, is **optional**, we recommend both Microsoft R Open & MKL for optimal performance on Windows and Linux. Mac OS X includes Math Libraries by default.

Platforms (64-Bit only)	Downloads
Windows - Windows 7.0 (SP1), 8.1, 10 and Windows Server® 2008 R2 (SP1), 2012 R Open SHA 256: 6436157ee5c789af308dd8f340241f372e1c73dd4f2ed8087e46e72e3131b39 MKL SHA 256: 6c8be1dcabee8bfc7fe2acd7c174dc09facf0c17f9e362aaa48257a42fca6bf5	R Open MKL
Ubuntu - 14.04 R Open SHA 256: 04d21c2f6cdb54cc56e3aa57bd16491e0c6ba2d273c4b6d5617cc68c4feaa1f9 MKL SHA 256: 55cc239a98ca4a763f9943ba3088710bd2b59823fa6ea7475a1024309af5a875	R Open MKL
Ubuntu - 15.04 R Open SHA 256: 792b9e92adb485efe7513adc60fd3d3cc17545dddbd6f3786cfa8321fa822eb MKL SHA 256: 55cc239a98ca4a763f9943ba3088710bd2b59823fa6ea7475a1024309af5a875	R Open MKL
Red Hat Enterprise Linux - 6.5 R Open SHA 256: d52a9bc108f5c27a75ba5fc99cf1e18c9a0414232baad94193d1b305f3445c49 MKL SHA 256: 55cc239a98ca4a763f9943ba3088710bd2b59823fa6ea7475a1024309af5a875	R Open MKL



Microsoft R Server Users:

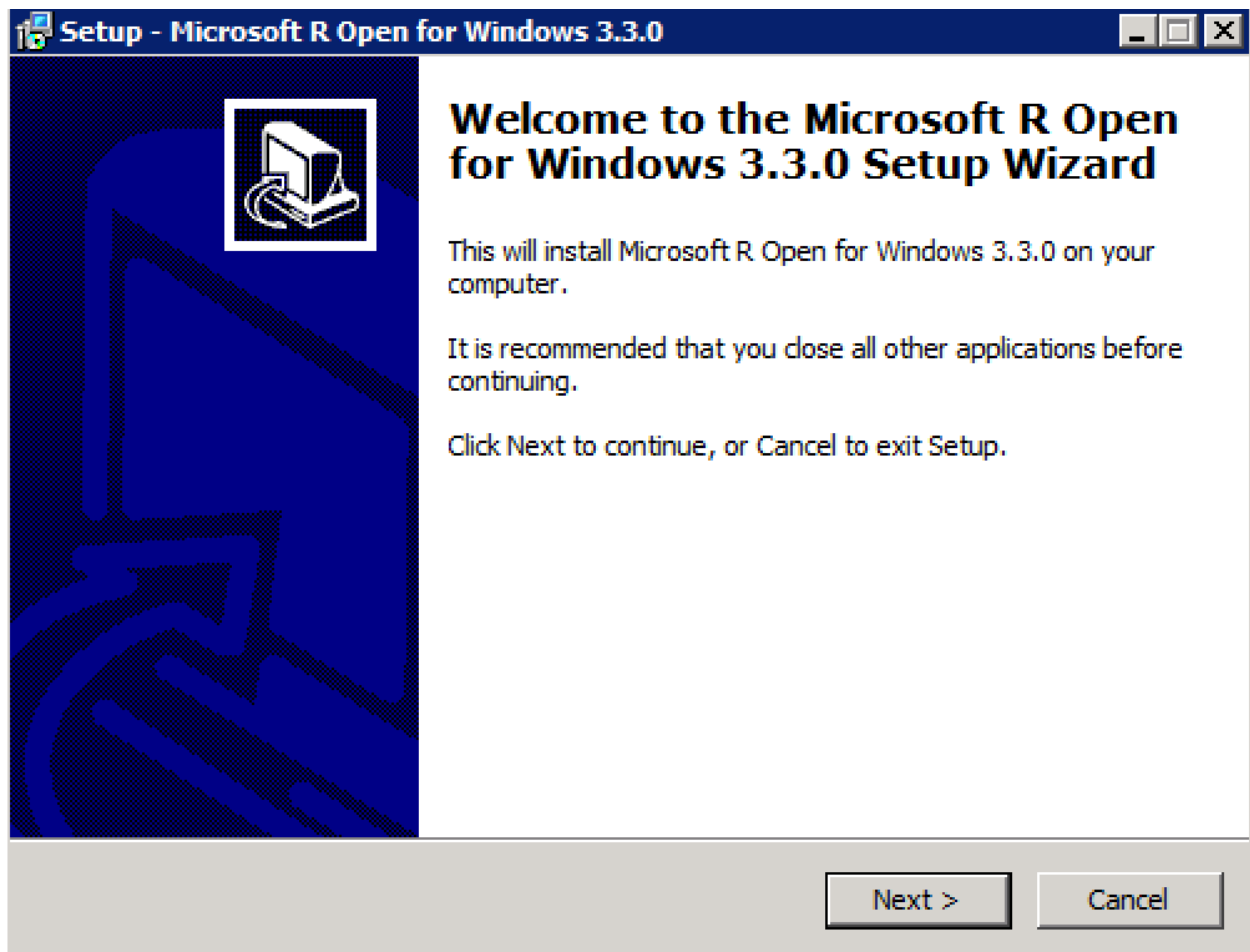
- Get [R Open for R Server 2016](#)
- Get [R.R.O 8.0.3](#) for R.R.E 7.4.1

Licensing of R Open and MKL

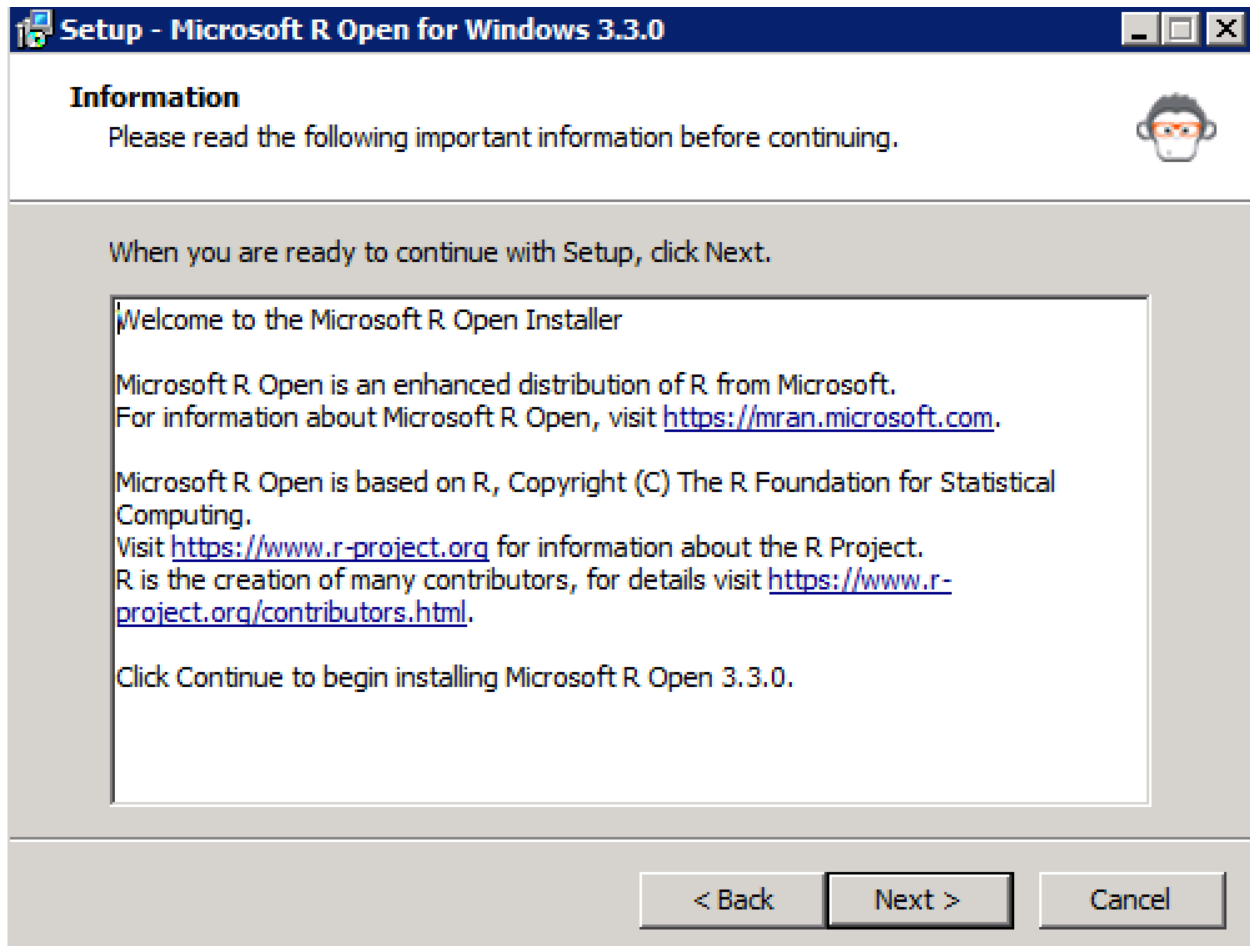
Microsoft R Open and Revolution R Open are distributed by Microsoft Corporation under the terms of the [GNU General Public License version 2](#).

Use of the Intel Math Kernel Library (**Intel MKL**) is governed by the terms of the [Microsoft R Services MKL End User License Agreement](#).

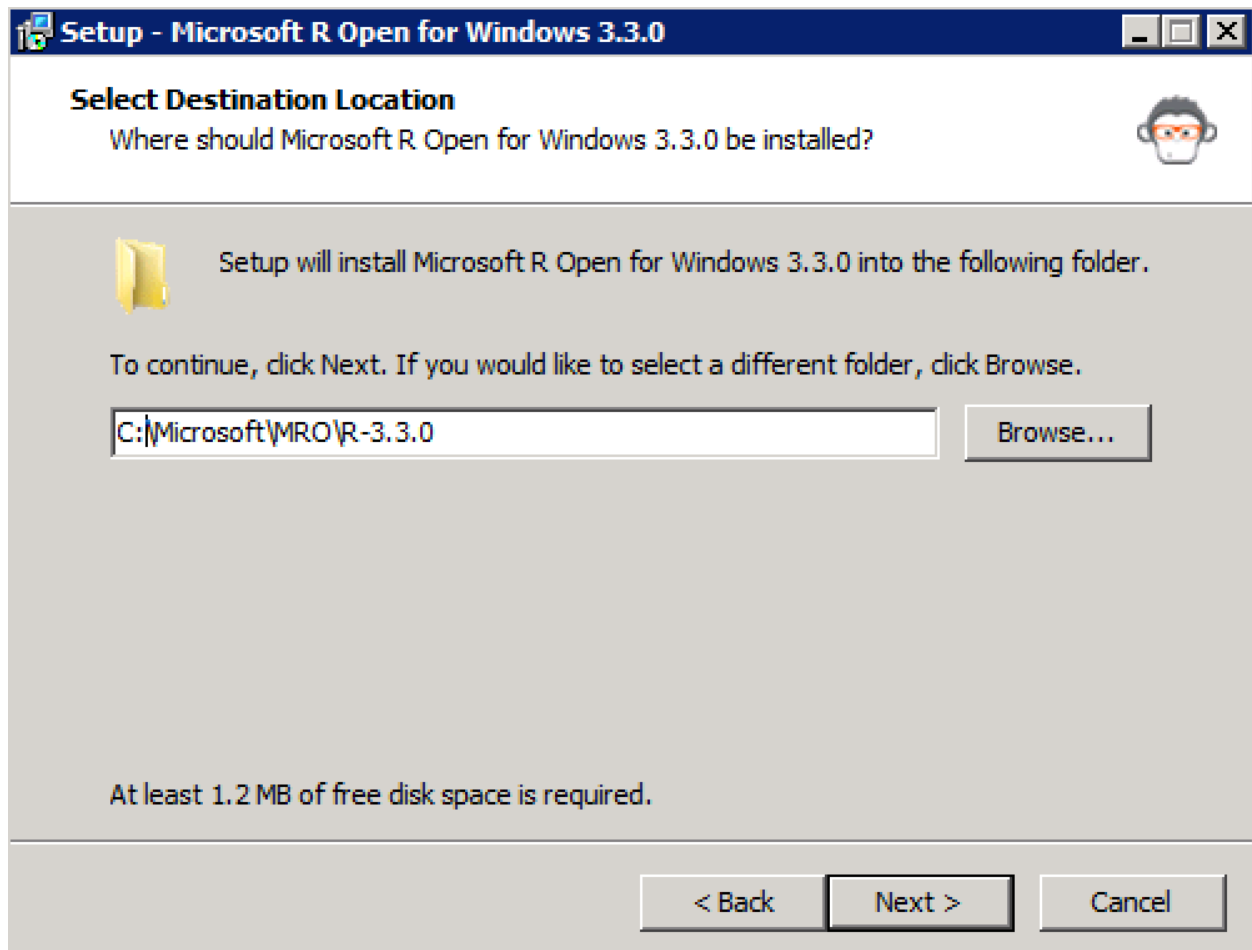
3- Instale primeiro o Microsoft R Open.



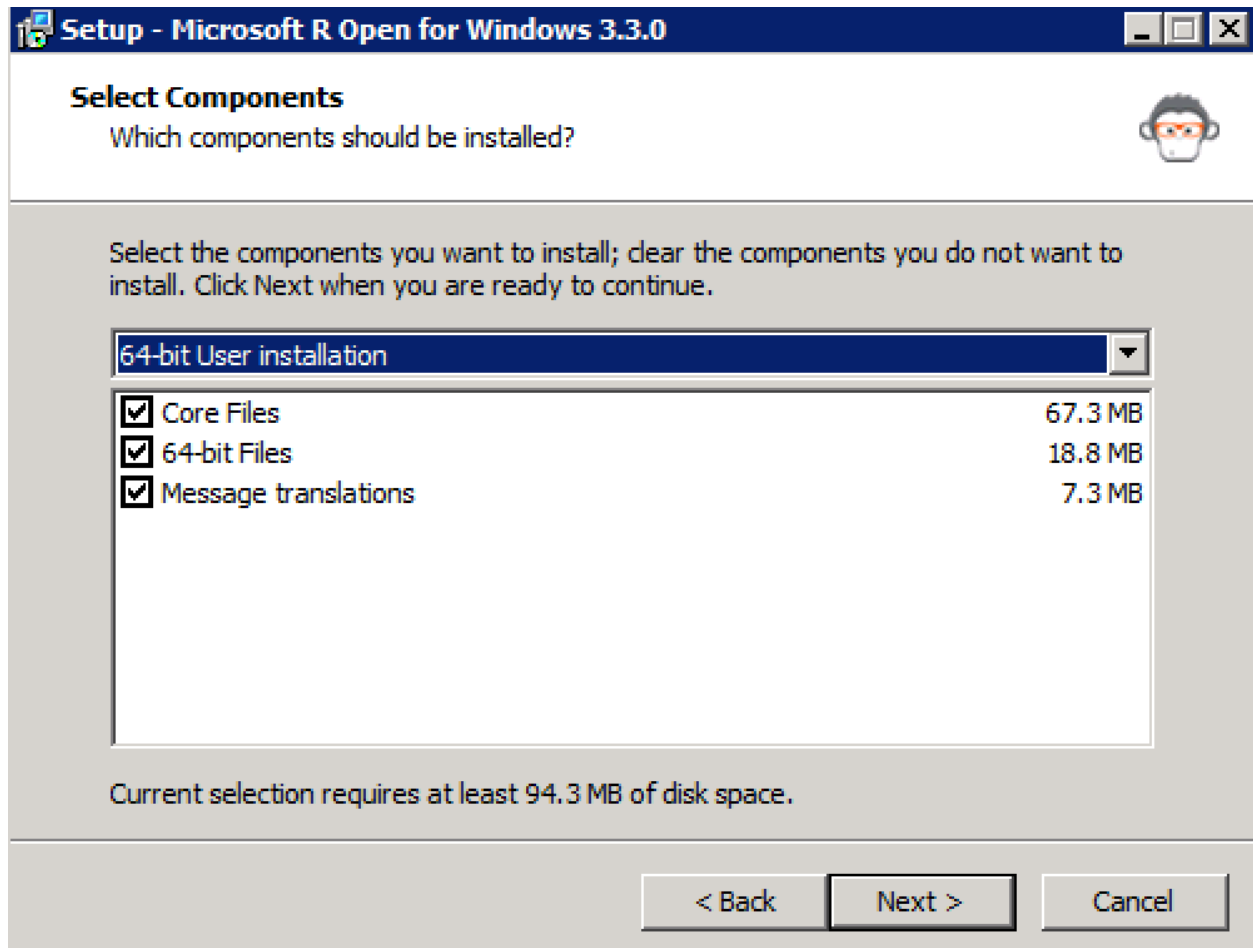
4- Aceite os termos de uso



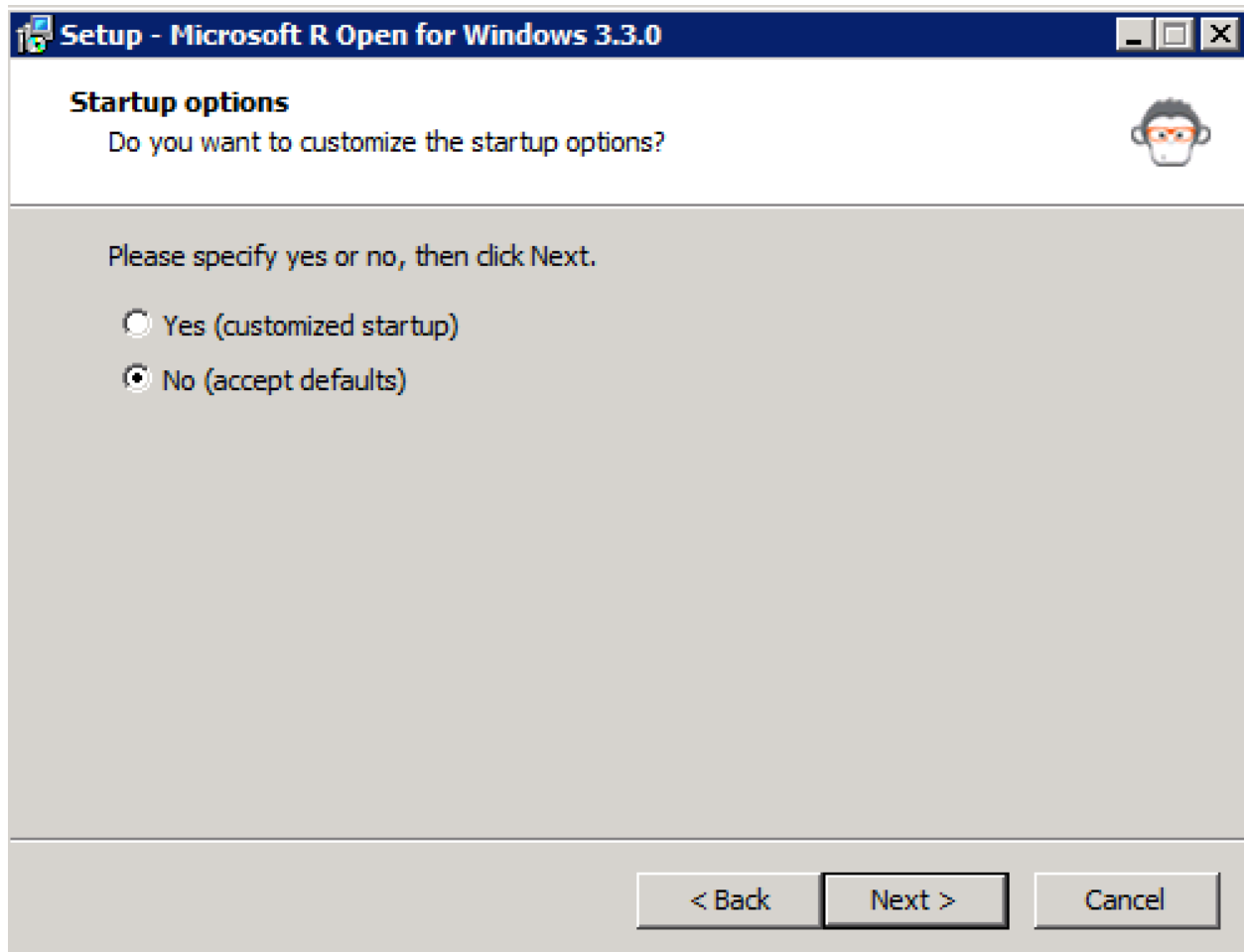
5- Defina o diretório de instalação.



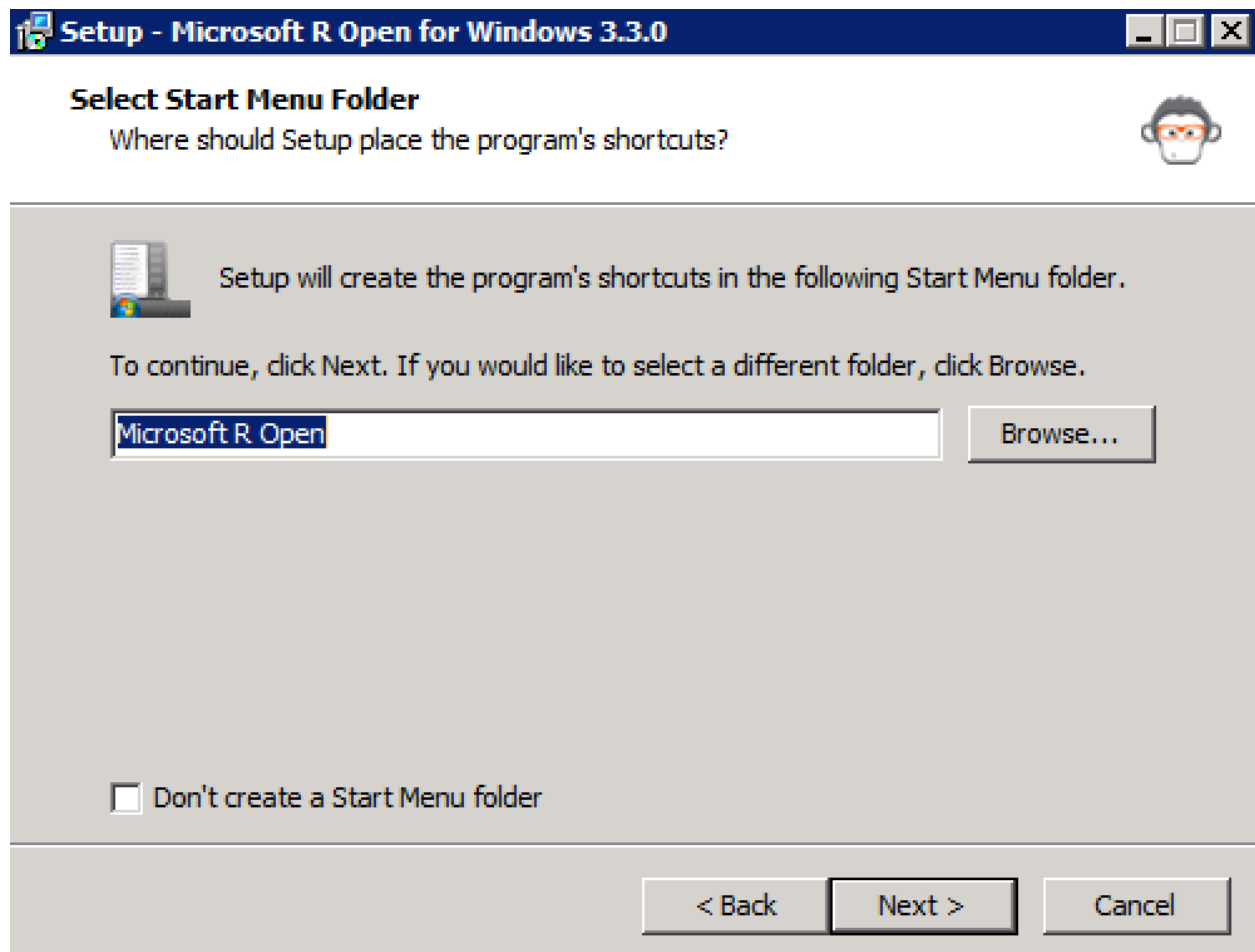
6- Selecione os componentes de instalação.



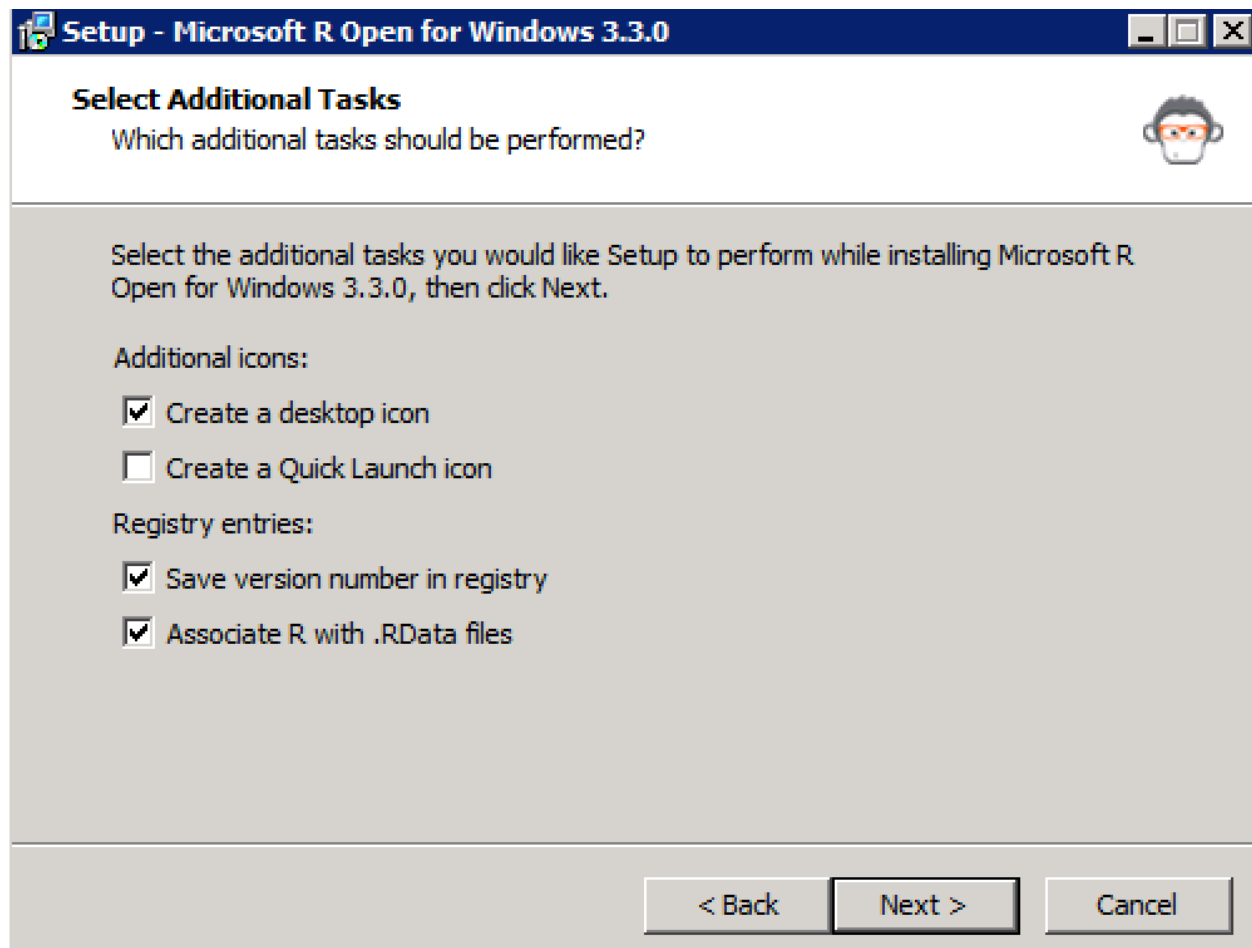
7- Aceite o padrão.



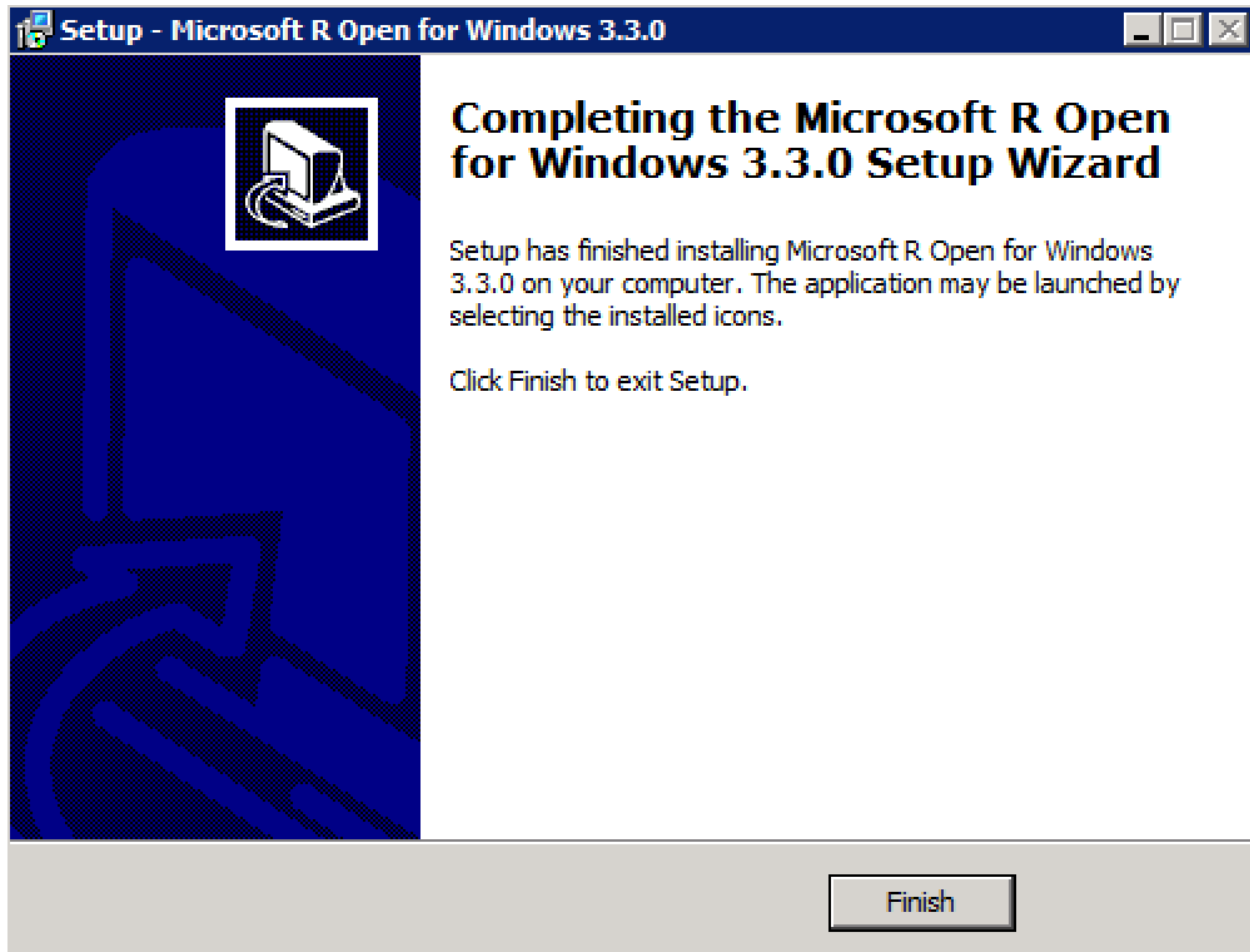
8- Clique em Next.



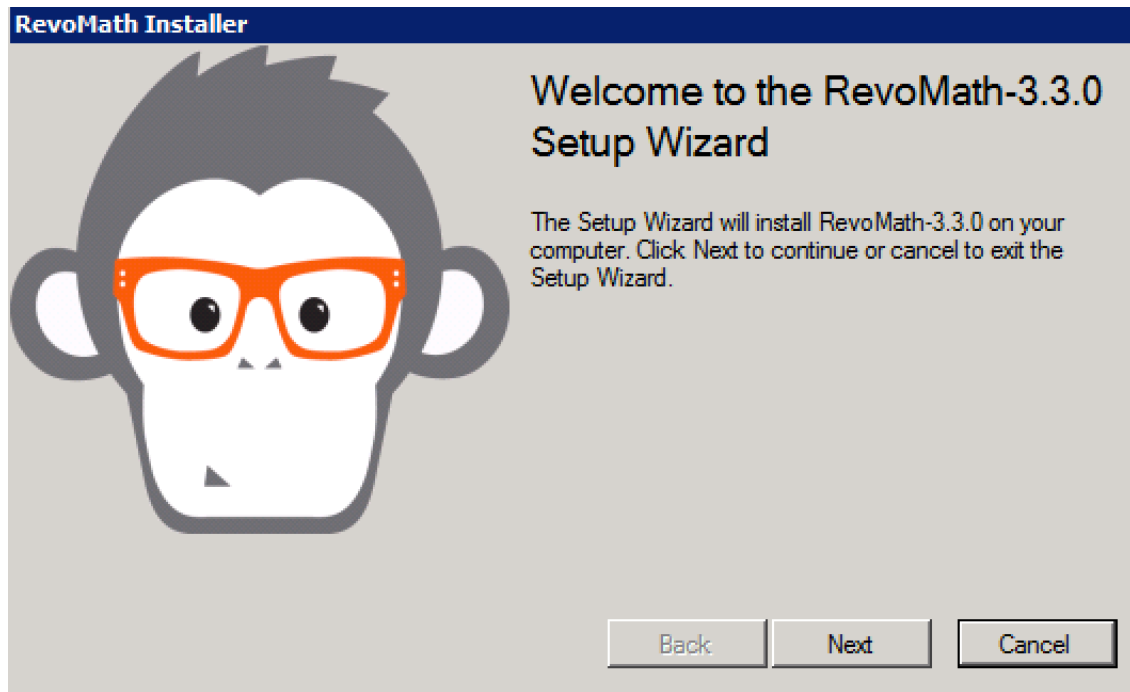
9- Clique em Next



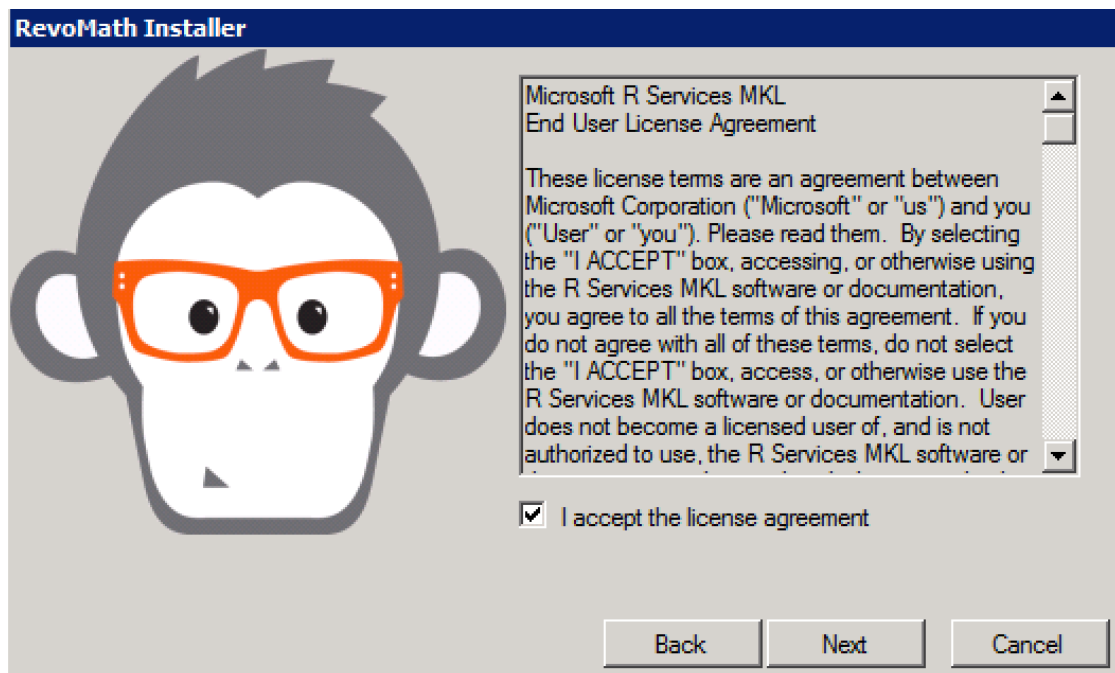
10- Instalação concluída.



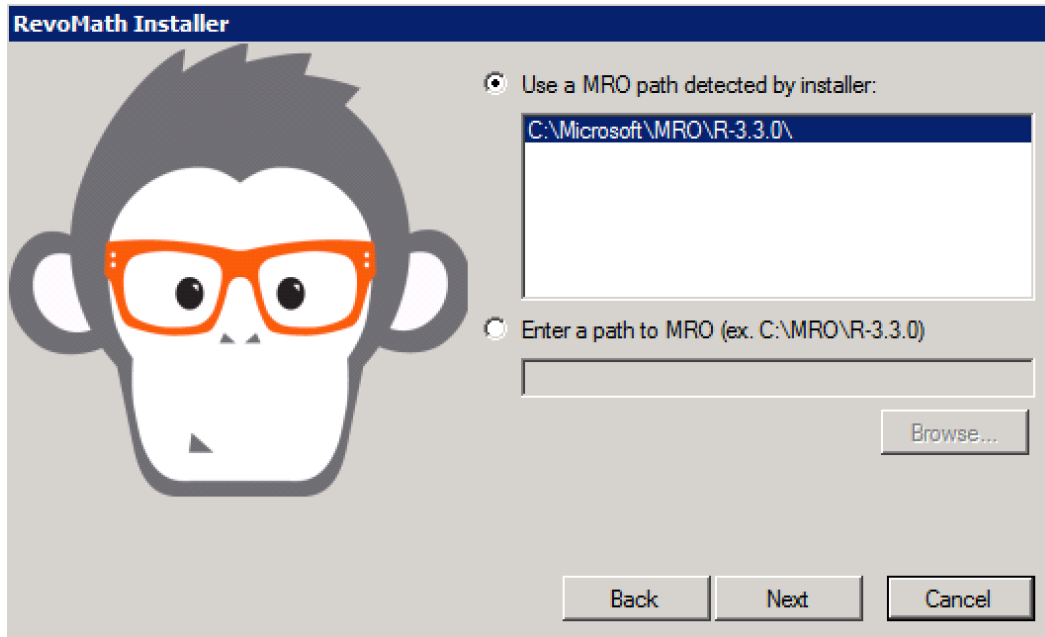
11- Instalando o MKL (Math Kernel Libraries)



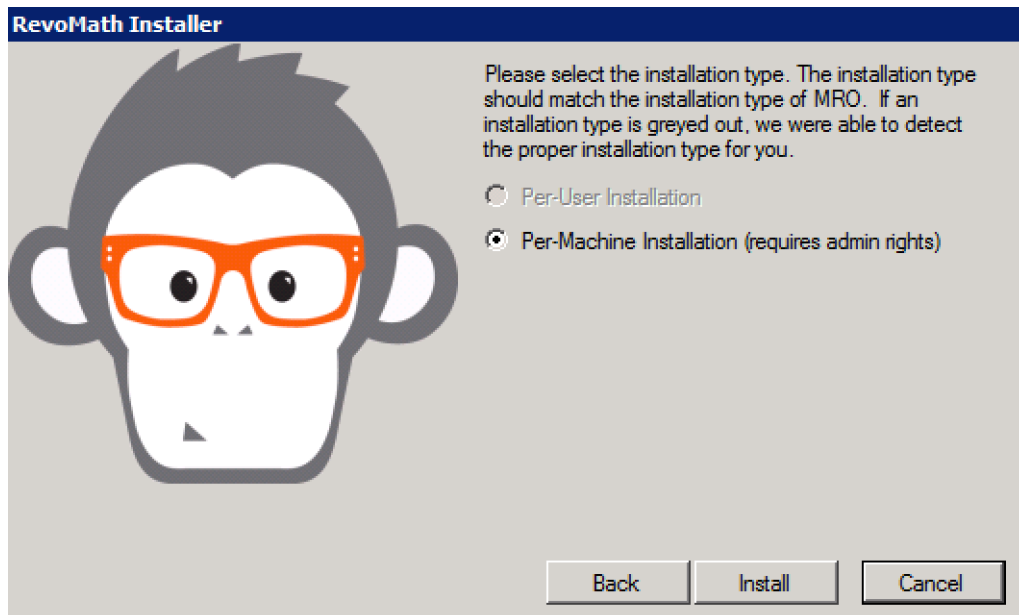
12- Aceite os termos



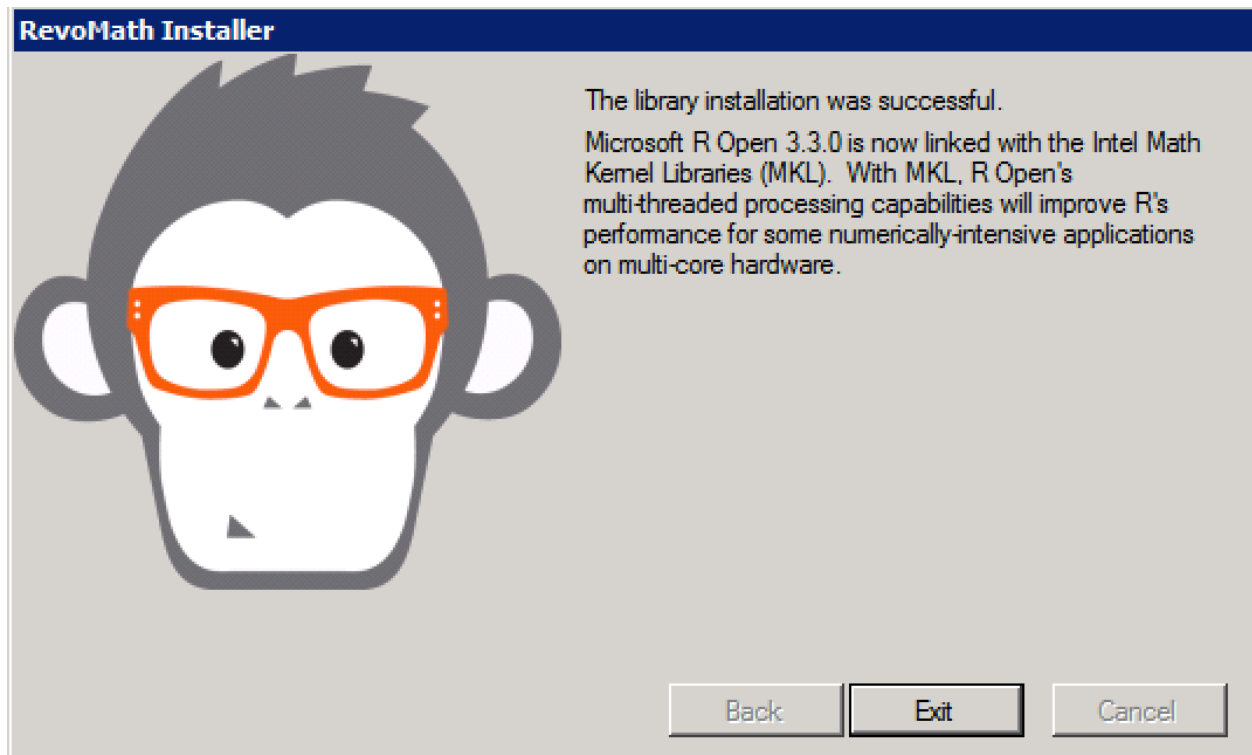
13- Seleção o Microsoft R Open instalado anteriormente



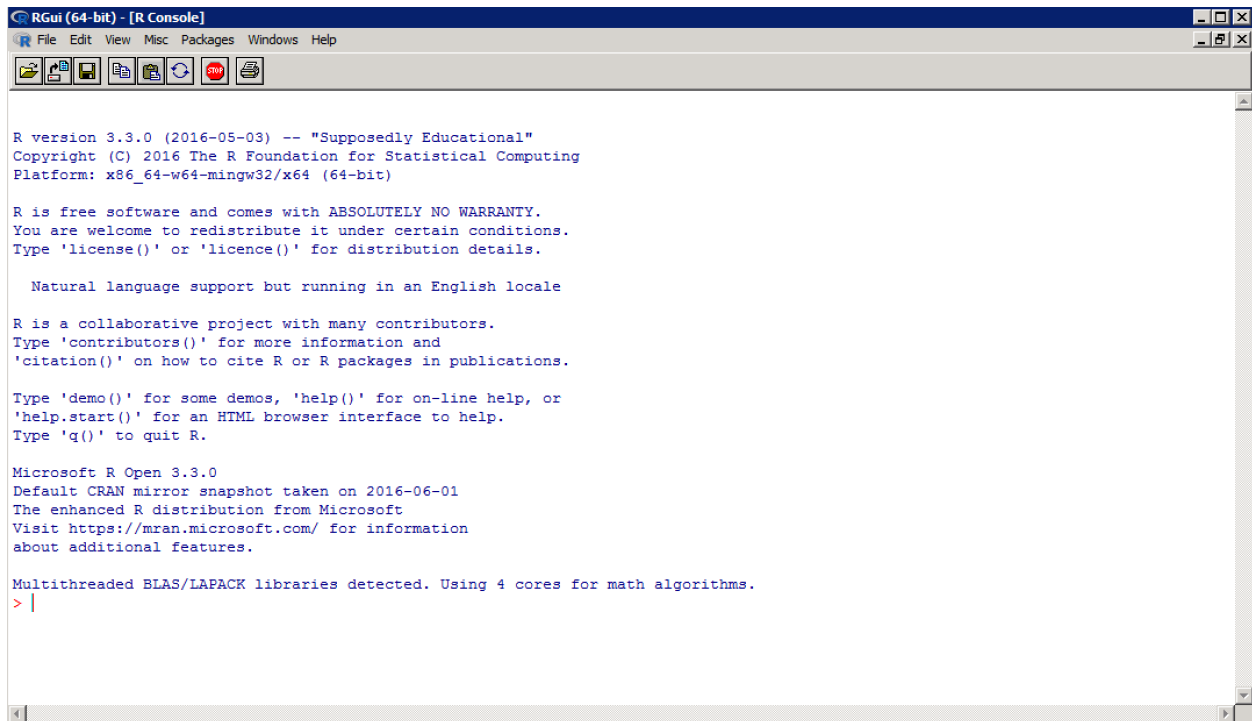
14- Clique em Next



15- Instalação concluída com sucesso.



16- R Console com a versão R da Microsoft



The screenshot shows the RGui (64-bit) - [R Console] window. The title bar is blue with the R logo and text. The menu bar includes File, Edit, View, Misc, Packages, Windows, and Help. Below the menu bar is a toolbar with icons for file operations and R-specific functions. The main console area displays the R startup screen, which includes version information, copyright notice, license information, and instructions for using R. The text is as follows:

```
R version 3.3.0 (2016-05-03) -- "Supposedly Educational"
Copyright (C) 2016 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

Microsoft R Open 3.3.0
Default CRAN mirror snapshot taken on 2016-06-01
The enhanced R distribution from Microsoft
Visit https://mran.microsoft.com/ for information
about additional features.

Multithreaded BLAS/LAPACK libraries detected. Using 4 cores for math algorithms.
> |
```


17- No RStudio, selecione a versão R da Microsoft e comece seu trabalho de análise.

