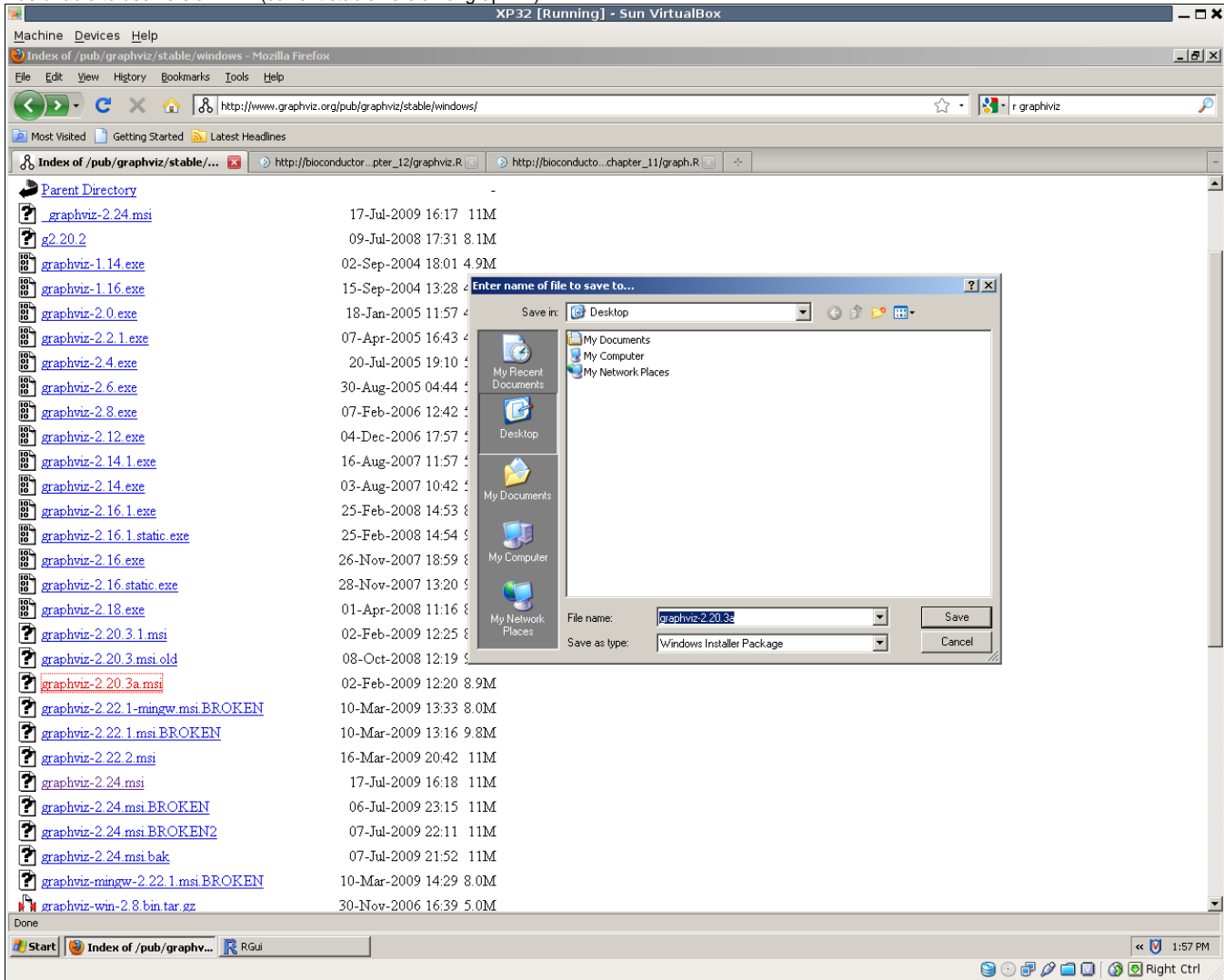


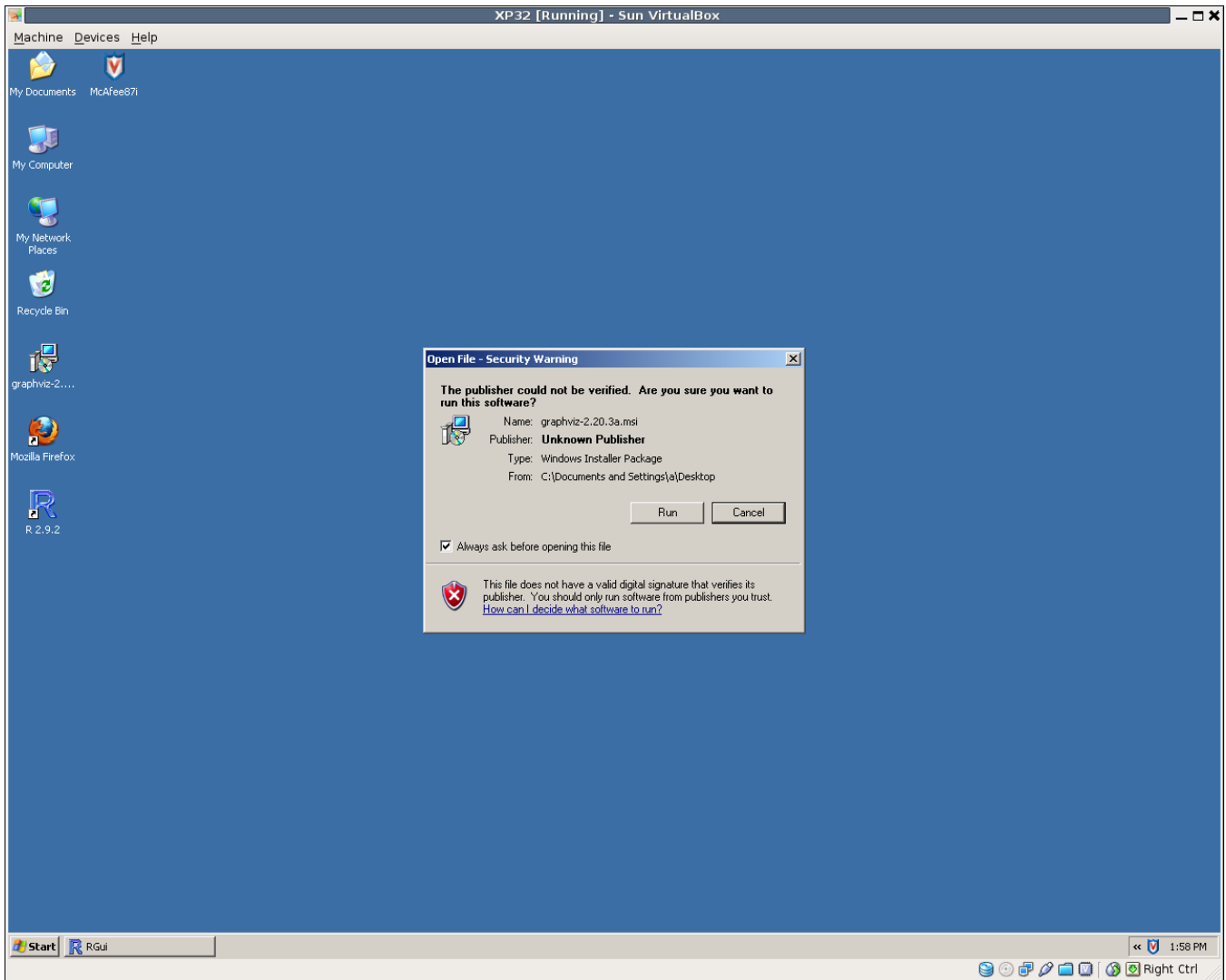
Install RGraphviz under Windows

In this page, I aim to illustrate how to get Rgraphviz installed on Windows XP (32-bit). I recommend that you consider using an OS more suitable for research (my personal recommendation is Debian GNU/Linux). If you are stuck using Windows, then I hope you find these instructions useful.

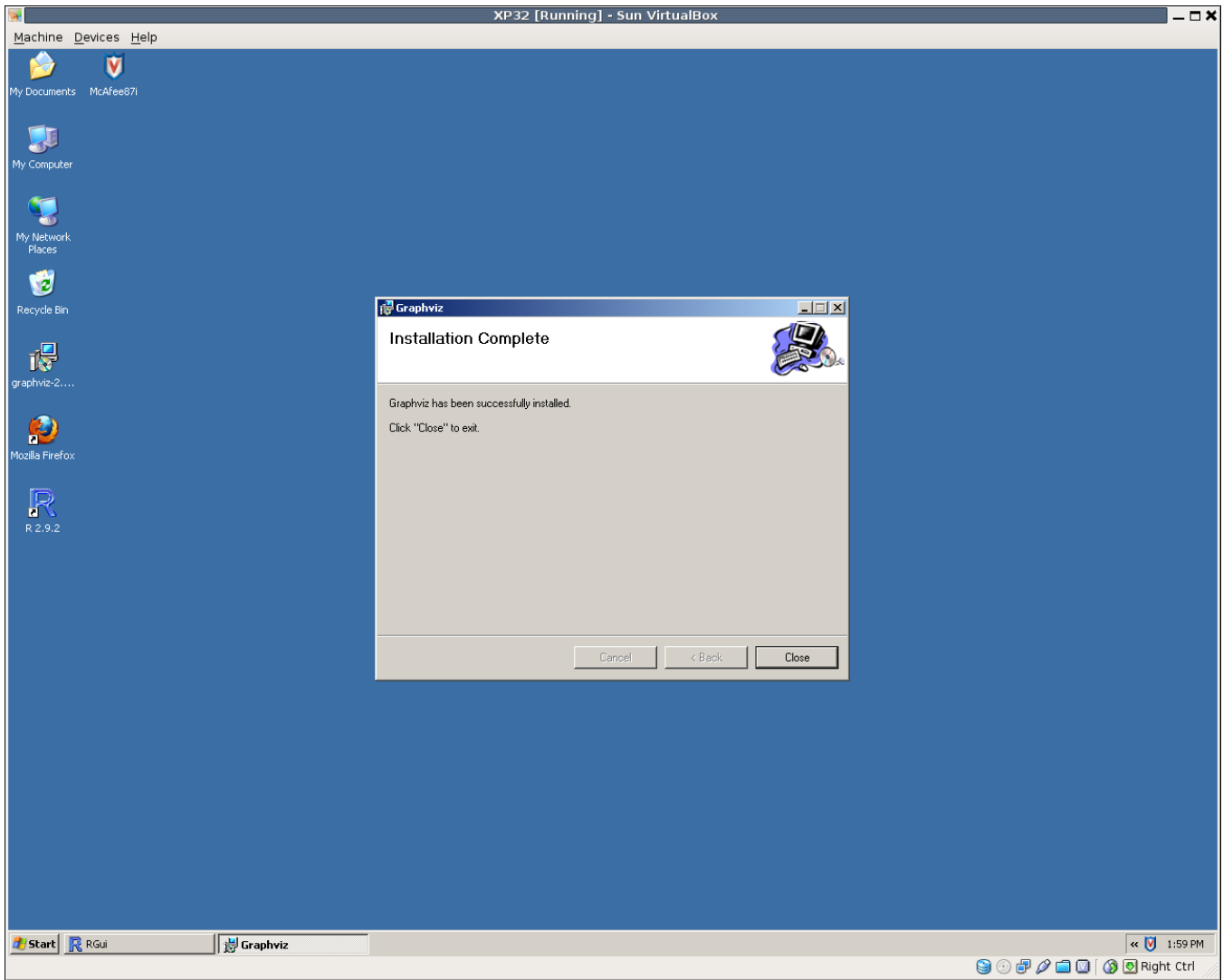
The first step is to download the graphviz binaries. Download graphviz-2.20.3a.msi from <http://www.graphviz.org/pub/graphviz/stable/windows>. I note that I was unable to use version 2.24 (current stable version of graphviz)



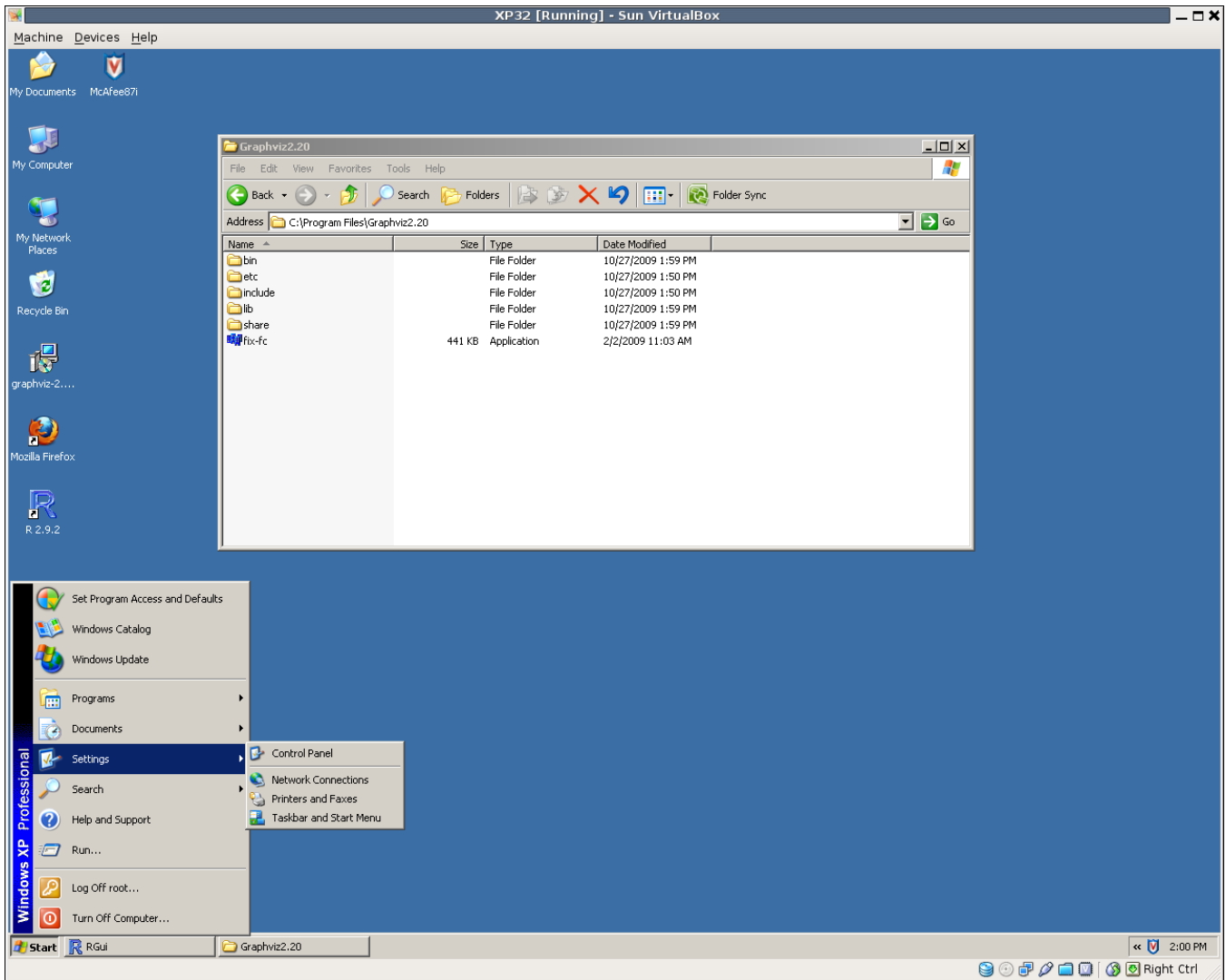
Click on the graphviz-2.20.3a.msi icon to start the installation process. I suggest that you just accept all the defaults. Make a note of where graphviz will be installed (default C:\Program Files\Graphviz2.20 during the installation process).



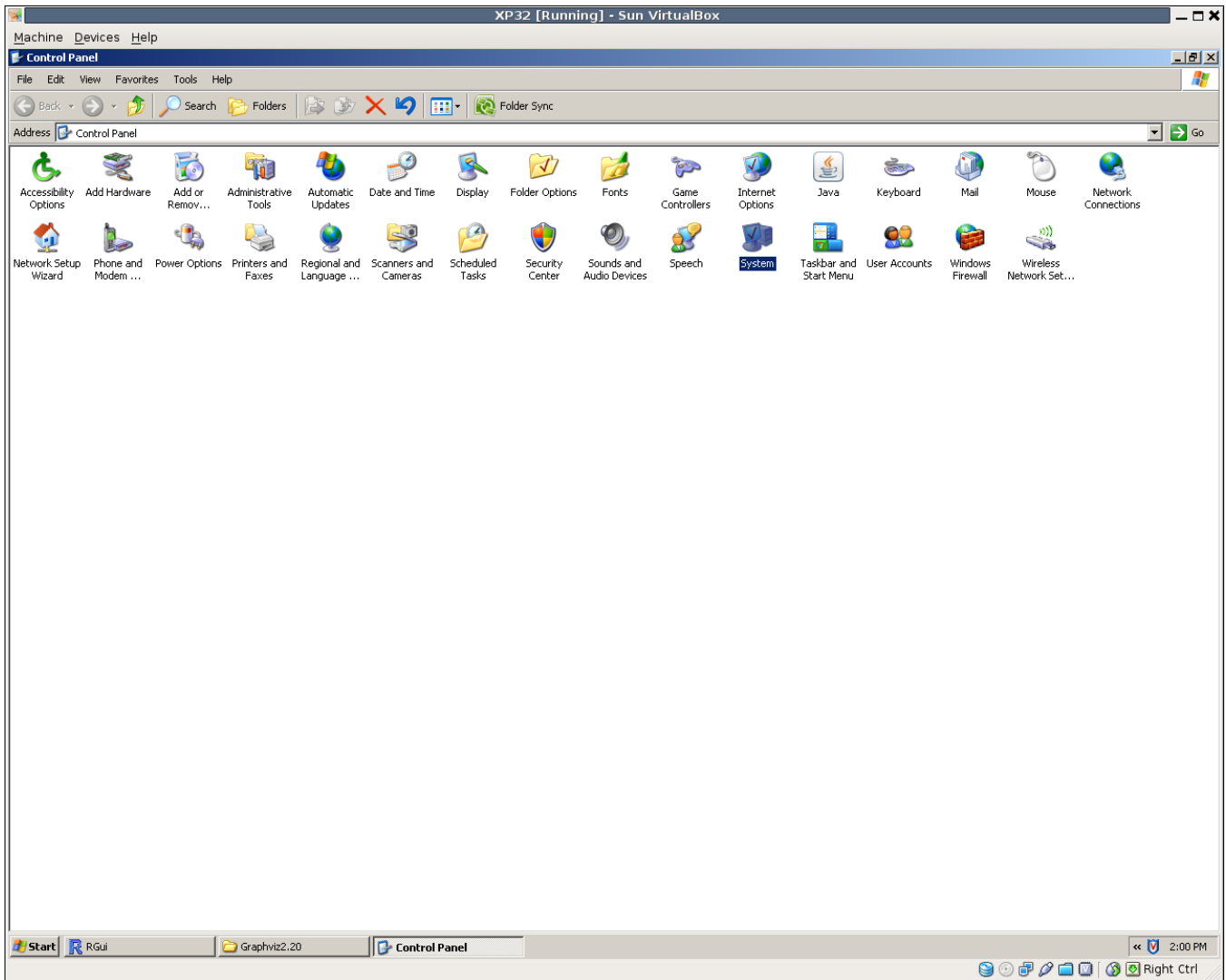
If you see this, then you have successfully installed Graphviz



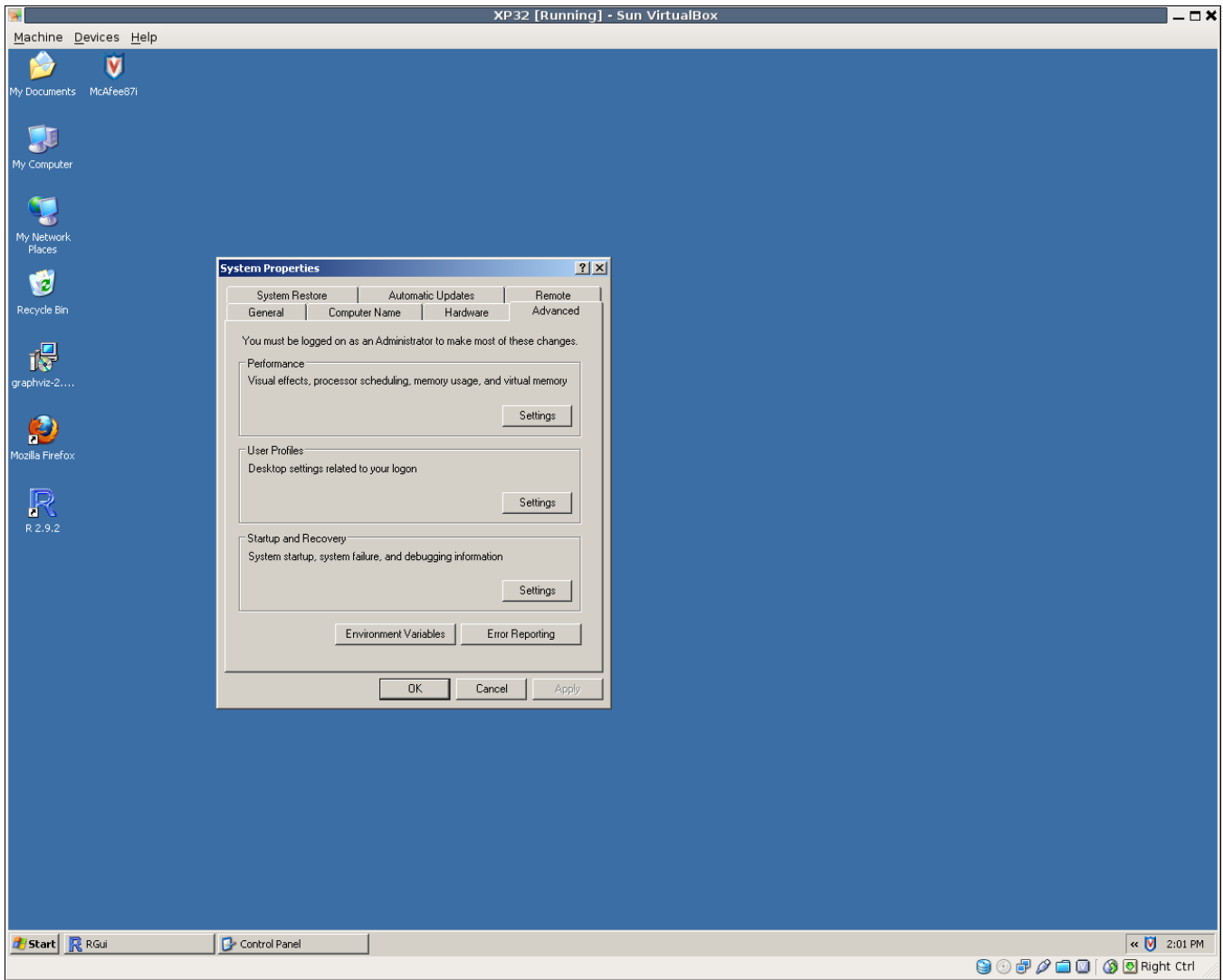
In the Start menu go to Settings then to Control Panel



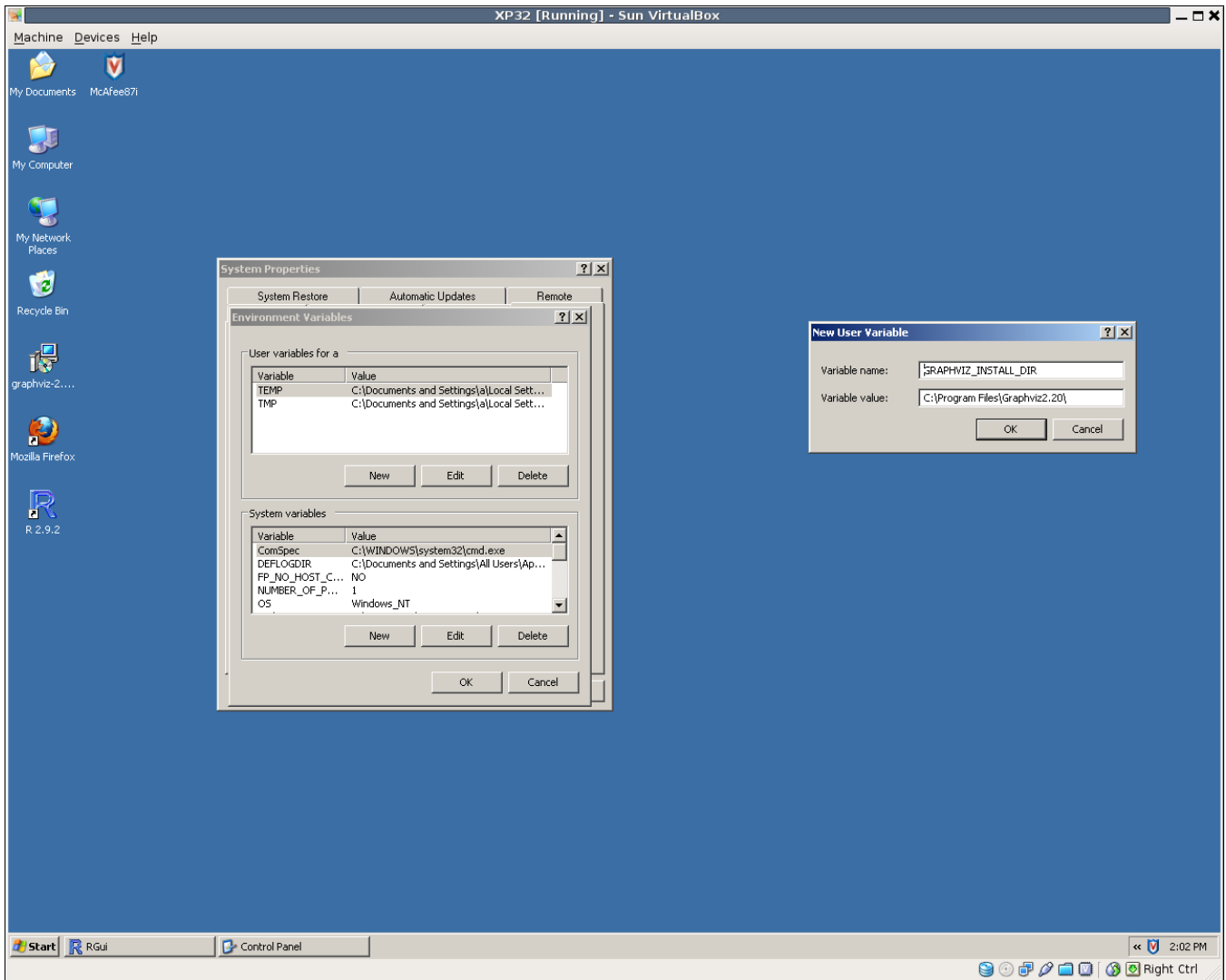
Click on the System icon



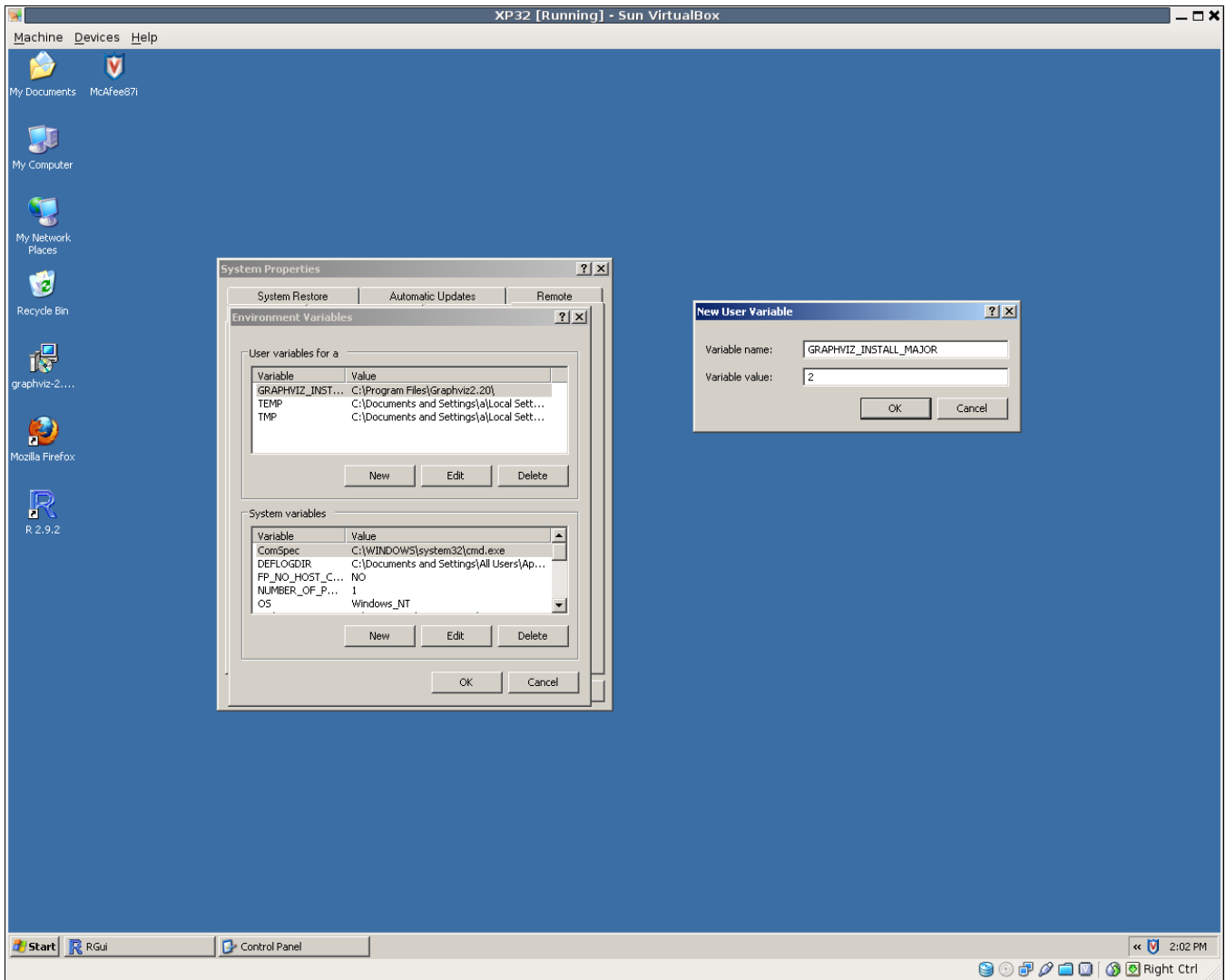
Under the Advanced tab click on Environment Variables



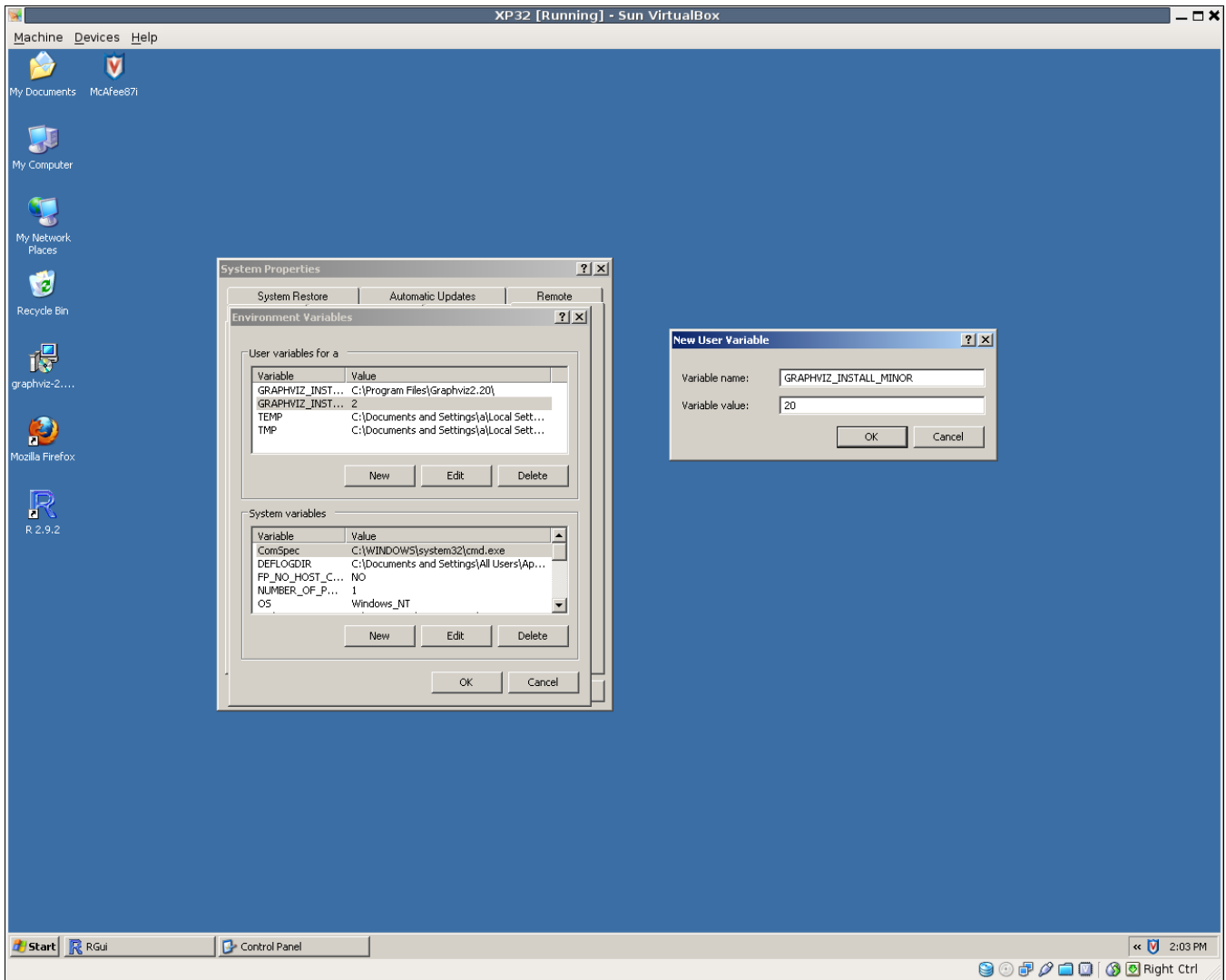
Click on New under the User variables tab. In the window that pops up enter Variable Name and Variable Value as shown on the screen shot



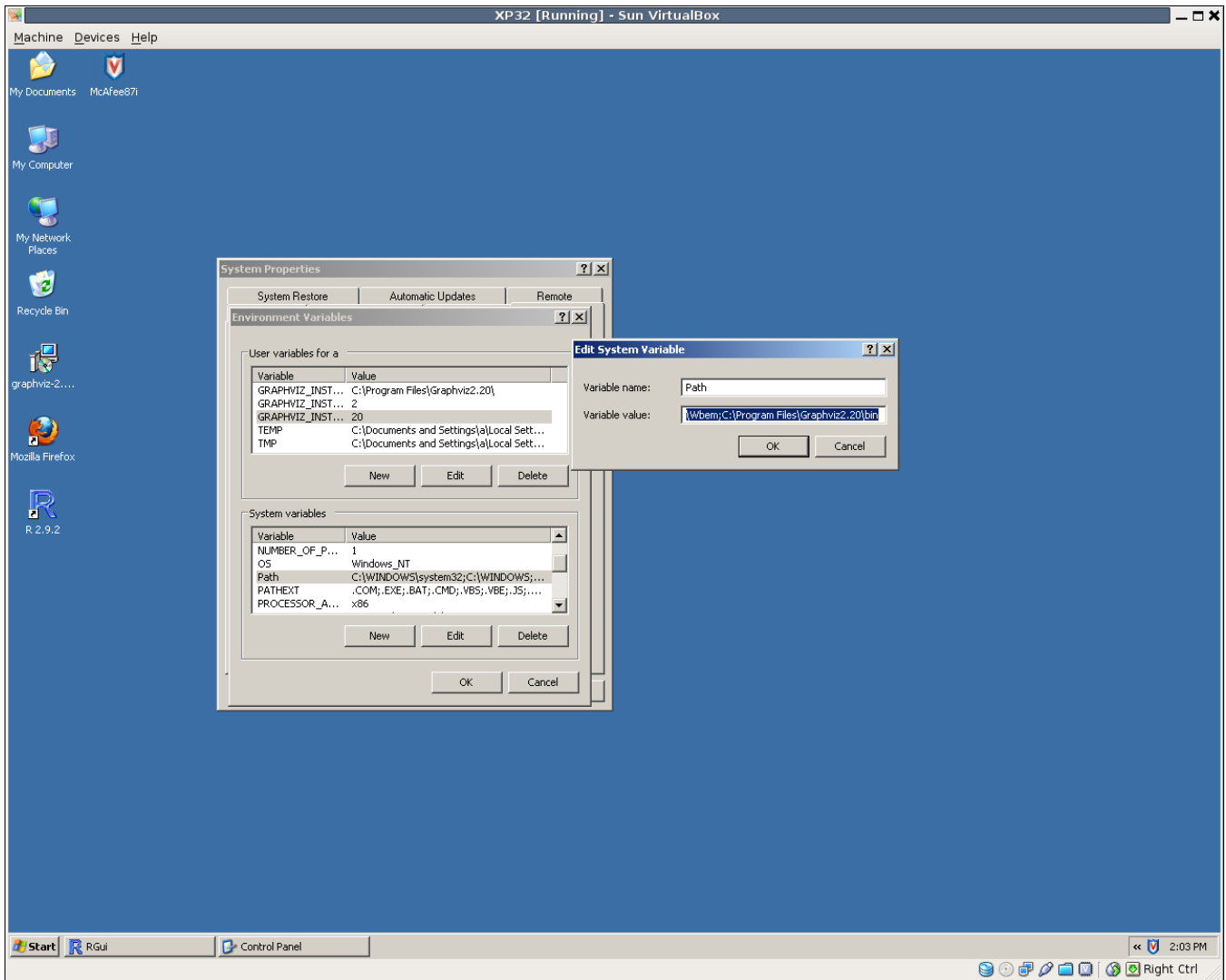
Click again on New under the User variables tab. In the window pops up enter Variable Name and Variable Value as shown on the screen shot



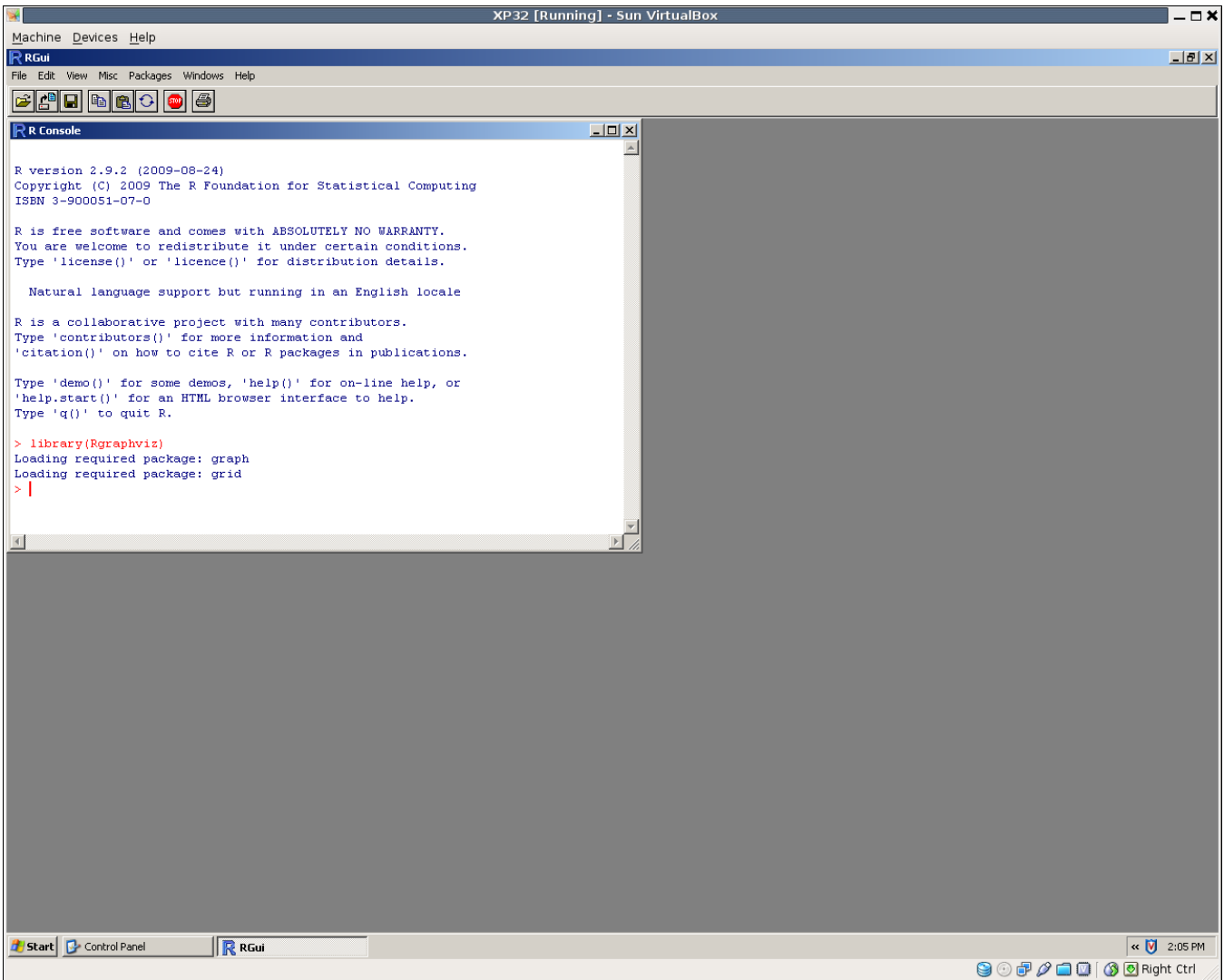
Click once on again on New under the User variables tab. In the window pops up enter Variable Name and Variable Value as shown on the screen shot



Now click on Path under the System variables tab and make sure that C:\Program Files\Graphviz2.20 appears there. If not add it (make sure you spell it correctly and that the entries are separated by semi-colons)



Start an R session and load the package Rgraphviz (I assume that it is installed). If it loads without throwing error or warning messages, you should be in good shape



Enter the commands shown on in the console and see if you can reproduce the graph shown here.

The screenshot shows an R GUI window titled "XP32 [Running] - Sun VirtualBox". The window has a menu bar with "Machine", "Devices", and "Help". Below the menu bar is a toolbar with icons for file operations. The main area is split into two panes:

- R Console:** Contains the following text and code:

```
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.  
  
> library(Rgraphviz)  
Loading required package: graph  
Loading required package: grid  
> set.seed(123)  
> V <- letters[1:5]  
> M <- 1:2  
> g1 <- randomGraph(V, M, 0.5)  
> edgemode(g1) <- "directed"  
> x <- layoutGraph(g1)  
> renderGraph(x)  
> |
```
- R Graphics: Device 2 (ACTIVE):** Displays a directed graph with five nodes labeled 'a', 'b', 'c', 'd', and 'e'. The nodes are arranged in a roughly circular pattern. Directed edges connect the nodes as follows:
 - Node 'a' has a directed edge to node 'b'.
 - Node 'b' has a directed edge to node 'd'.
 - Node 'c' has a directed edge to node 'd'.
 - Node 'd' has a directed edge to node 'e'.
 - Node 'e' has a directed edge to node 'c'.

The task is to reproduce the graph shown in the graphics window using the commands in the console.