

D4Science Infrastructure - Task #138

Task # 131 (Closed): Report the R Interpreter environment to reproduce on the Generic Worker nodes

Automate the installation of the R suite and its packages

May 22, 2015 11:26 PM - Andrea Dell'Amico

<b>Status:</b>	Closed	<b>Start date:</b>	May 22, 2015
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Andrea Dell'Amico	<b>% Done:</b>	100%
<b>Category:</b>	System Application	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	System Configuration		
<b>Infrastructure:</b>	Production		
<b>Description</b>			
Create an ansible playbook that installs R and the listed packages on Ubuntu precise			
<b>Related issues:</b>			
Related to D4Science Infrastructure - Task #140: 36 new smartgears VMs are ne...			<b>Closed</b> <b>May 23, 2015</b>

History

#1 - May 22, 2015 11:27 PM - Andrea Dell'Amico

The result is the following:

Package Version  
abind "abind" "1.4-3"  
bayesm "bayesm" "0.7-3"  
coda "coda" "0.17-1"  
R2jags "R2jags" "0.5-6"  
R2WinBUGS "R2WinBUGS" "2.1-19"  
rjags "rjags" "3-15"  
runjags "runjags" "2.0.1-4"  
abind "abind" "1.4-0"  
coda "coda" "0.14-5"  
maptools "maptools" "0.7-38"  
rjags "rjags" "3-3"  
sp "sp" "0.9-81"  
base "base" "2.14.1"  
boot "boot" "1.3-3"  
class "class" "7.3-3"  
cluster "cluster" "1.14.1"  
codetools "codetools" "0.2-8"  
compiler "compiler" "2.14.1"  
datasets "datasets" "2.14.1"  
foreign "foreign" "0.8-48"  
graphics "graphics" "2.14.1"  
grDevices "grDevices" "2.14.1"  
grid "grid" "2.14.1"  
KernSmooth "KernSmooth" "2.23-7"  
lattice "lattice" "0.20-0"  
MASS "MASS" "7.3-16"  
Matrix "Matrix" "1.0-2"  
methods "methods" "2.14.1"  
mgcv "mgcv" "1.7-12"  
nlme "nlme" "3.1-102"  
nnet "nnet" "7.3-1"  
parallel "parallel" "2.14.1"  
rpart "rpart" "3.1-50"  
spatial "spatial" "7.3-3"  
splines "splines" "2.14.1"  
stats "stats" "2.14.1"  
stats4 "stats4" "2.14.1"  
survival "survival" "2.36-10"  
tcltk "tcltk" "2.14.1"  
tools "tools" "2.14.1"  
utils "utils" "2.14.1"

#2 - May 23, 2015 02:01 PM - Andrea Dell'Amico

- Status changed from New to In Progress

- % Done changed from 0 to 90

There's now a library playbook called 'R' that installs the base R packages and even additional packages.  
The additional packages can be installed in two ways:

- From the linux distribution repository
- From the CRAN repository as binary files.

The default packages are the ones listed by Gianpaolo.

The ones installed as debian packages are:

r-cran-rjags,r-cran-abind,r-cran-boot,r-cran-class,r-cran-cluster,r-cran-coda,r-cran-codetools,r-cran-foreign,r-cran-lattice,r-cran-maptools,r-cran-mass,r-cran-matrix,r-cran-mgcv,r-cran-nlme,r-cran-nnet,r-cran-rpart,r-cran-sp,r-cran-spatial,r-cran-survival

The ones installed directly from CRAN are: R2WinBUGS, R2jags, bayesmix, runjags

All the other packages in the Gianpaolo's list are part of the base R distribution.

### **#3 - May 23, 2015 02:10 PM - Andrea Dell'Amico**

- Related to Task #140: 36 new smartgears VMs are needed added

### **#4 - May 23, 2015 02:55 PM - Andrea Dell'Amico**

- Status changed from In Progress to Feedback

### **#5 - May 25, 2015 02:47 PM - Pasquale Pagano**

Gp please answer to the request for feedback.

### **#6 - May 25, 2015 03:03 PM - Andrea Dell'Amico**

- Status changed from Feedback to Closed

- % Done changed from 90 to 100

Gp says that the installation is correctly working.