

D4Science Infrastructure - Task #5451

Task # 5448 (Closed): Dataminer - Need to align R configuration with RStudio simulation environment

Ensure that dependent libraries invoked by R have same versions in Dataminer / RStudio environment

Oct 07, 2016 12:30 PM - Emmanuel Blondel

Status:	Closed	Start date:	Oct 07, 2016
Priority:	Normal	Due date:	
Assignee:	Andrea Dell'Amico	% Done:	100%
Category:	High-Throughput-Computing	Estimated time:	0.00 hour
Target version:	Dataminer and StatMan provisioning		
Infrastructure:	Development, Pre-Production, Production		
Description			
Non exhaustive inventory of libraries (to complete by R-related system admins probably): • CURL • GDAL • libxml • GEOS			

History

#1 - Oct 07, 2016 12:39 PM - Pasquale Pagano

- Tracker changed from Support to Task
- Category set to High-Throughput-Computing
- Assignee set to Andrea Dell'Amico
- Target version changed from UnSprintable to Dataminer and StatMan provisioning

#2 - Oct 07, 2016 02:16 PM - Andrea Dell'Amico

The dataminer all have the same set of R packages installed.
On the rstudio/rstudio-dev servers the R installed packages are different.

I need a bit of work to merge the two lists, but after that the packages will always be the same everywhere.

#3 - Oct 07, 2016 03:36 PM - Andrea Dell'Amico

- Status changed from New to In Progress

#4 - Oct 07, 2016 04:20 PM - Andrea Dell'Amico

- % Done changed from 0 to 50
- Infrastructure Pre-Production added

The R packages update is running right now.

I'm listing the debian packages that provide libraries needed by some of the packages, the R packages installed from debian packages, the R packages installed from CRAN mirrors, and the R packages installed from github.
Other packages, like curl/libcurl/libxml, are always installed on our system or were installed as dependencies from other packages.
It's a raw list directly taken from the provisioning configuration.

```
r_distribution_required_packages:
- gdal-bin
- dans-gdal-scripts
- libgdal-dev
- libgeos-dev
- libspatialite-dev
- proj-bin
- proj-data
- libproj-dev
- texlive
```

- texlive-base
- texlive-binaries
- texlive-latex-base
- texlive-latex-extra
- texlive-formats-extra
- texlive-xetex
- libnetcdf-dev
- netcdf-bin
- mono-runtime
- libmono-microsoft-visualbasic10.0-cil
- gsl-bin
- libgsl0-dev
- mesa-common-dev
- libglul-mesa-dev
- postgis
- postgresql-client
- jags

r_base_packages_list:

- r-recommended
- r-base
- r-base-dev
- r-base-html
- r-base-core
- r-doc-html
- r-cran-boot
- r-cran-cluster
- r-cran-foreign
- r-cran-kernsmooth
- r-cran-lattice
- r-cran-mgcv
- r-cran-nlme
- r-cran-rpart
- r-cran-survival
- r-cran-mass
- r-cran-class
- r-cran-nnet
- r-cran-spatial
- r-cran-codetools
- r-cran-matrix

r_plugins_list_to_install:

- { name: 'data.table', repo: '{{ r_cran_mirror_site }}' }
- { name: 'doBy', repo: '{{ r_cran_mirror_site }}' }
- { name: 'multcomp', repo: '{{ r_cran_mirror_site }}' }
- { name: 'mvtnorm', repo: '{{ r_cran_mirror_site }}' }
- { name: 'survival', repo: '{{ r_cran_mirror_site }}' }
- { name: 'splines', repo: '{{ r_cran_mirror_site }}' }
- { name: 'TH.data', repo: '{{ r_cran_mirror_site }}' }
- { name: 'Matrix', repo: '{{ r_cran_mirror_site }}' }
- { name: 'abind', repo: '{{ r_cran_mirror_site }}' }
- { name: 'baysemix', repo: '{{ r_cran_mirror_site }}' }
- { name: 'coda', repo: '{{ r_cran_mirror_site }}' }
- { name: 'R2jags ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'R2WinBUGS', repo: '{{ r_cran_mirror_site }}' }
- { name: 'rjags ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'runjags ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'maptools', repo: '{{ r_cran_mirror_site }}' }
- { name: 'sp', repo: '{{ r_cran_mirror_site }}' }
- { name: 'compiler', repo: '{{ r_cran_mirror_site }}' }
- { name: 'datasets', repo: '{{ r_cran_mirror_site }}' }
- { name: 'graphics', repo: '{{ r_cran_mirror_site }}' }
- { name: 'grDevices', repo: '{{ r_cran_mirror_site }}' }
- { name: 'grid', repo: '{{ r_cran_mirror_site }}' }
- { name: 'methods', repo: '{{ r_cran_mirror_site }}' }
- { name: 'nnet', repo: '{{ r_cran_mirror_site }}' }
- { name: 'parallel', repo: '{{ r_cran_mirror_site }}' }
- { name: 'rpart', repo: '{{ r_cran_mirror_site }}' }
- { name: 'stats', repo: '{{ r_cran_mirror_site }}' }
- { name: 'stats4', repo: '{{ r_cran_mirror_site }}' }
- { name: 'tools', repo: '{{ r_cran_mirror_site }}' }
- { name: 'utils', repo: '{{ r_cran_mirror_site }}' }
- { name: 'withr', repo: '{{ r_cran_mirror_site }}' }
- { name: 'Rcpp ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'plyr ', repo: '{{ r_cran_mirror_site }}' }

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- { name: 'digest ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'httr ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'stringr ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'reshape2 ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'R2HTML ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'snow ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'RcppEigen ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'minqa ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'lme4 ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'RCurl ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'memoise ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'whisker ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'evaluate', repo: '{{ r_cran_mirror_site }}' }
- { name: 'devtools ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'rgdal ', repo: '{{ r_cran_mirror_site }}' }
- { name: 'rgeos', repo: '{{ r_cran_mirror_site }}' }
- { name: 'knitr', repo: '{{ r_cran_mirror_site }}' }
- { name: 'rworldmap', repo: '{{ r_cran_mirror_site }}' }
- { name: 'spam', repo: '{{ r_cran_mirror_site }}' }
- { name: 'maps', repo: '{{ r_cran_mirror_site }}' }
- { name: 'fields', repo: '{{ r_cran_mirror_site }}' }
- { name: 'highlight', repo: '{{ r_cran_mirror_site }}' }
- { name: 'dichromat', repo: '{{ r_cran_mirror_site }}' }
- { name: 'colorspace', repo: '{{ r_cran_mirror_site }}' }
- { name: 'munsell', repo: '{{ r_cran_mirror_site }}' }
- { name: 'labeling', repo: '{{ r_cran_mirror_site }}' }
- { name: 'scales', repo: '{{ r_cran_mirror_site }}' }
- { name: 'gtable', repo: '{{ r_cran_mirror_site }}' }
- { name: 'ggplot2', repo: '{{ r_cran_mirror_site }}' }
- { name: 'jsonlite', repo: '{{ r_cran_mirror_site }}' }
- { name: 'magrittr', repo: '{{ r_cran_mirror_site }}' }
- { name: 'gridExtra', repo: '{{ r_cran_mirror_site }}' }
- { name: 'viridis', repo: '{{ r_cran_mirror_site }}' }
- { name: 'base64enc', repo: '{{ r_cran_mirror_site }}' }
- { name: 'htmltools', repo: '{{ r_cran_mirror_site }}' }
- { name: 'htmlwidgets', repo: '{{ r_cran_mirror_site }}' }
- { name: 'plotly', repo: '{{ r_cran_mirror_site }}' }
- { name: 'mapdata', repo: '{{ r_cran_mirror_site }}' }
- { name: 'mapplots', repo: '{{ r_cran_mirror_site }}' }
- { name: 'mnormt', repo: '{{ r_cran_mirror_site }}' }
- { name: 'numDeriv', repo: '{{ r_cran_mirror_site }}' }
- { name: 'sn', repo: '{{ r_cran_mirror_site }}' }
- { name: 'mclust', repo: '{{ r_cran_mirror_site }}' }
- { name: 'tclust', repo: '{{ r_cran_mirror_site }}' }
- { name: 'modeltools', repo: '{{ r_cran_mirror_site }}' }
- { name: 'flexmix', repo: '{{ r_cran_mirror_site }}' }
- { name: 'prabclus', repo: '{{ r_cran_mirror_site }}' }
- { name: 'diptest', repo: '{{ r_cran_mirror_site }}' }
- { name: 'DEoptimR', repo: '{{ r_cran_mirror_site }}' }
- { name: 'robustbase', repo: '{{ r_cran_mirror_site }}' }
- { name: 'kernlab', repo: '{{ r_cran_mirror_site }}' }
- { name: 'trimcluster', repo: '{{ r_cran_mirror_site }}' }
- { name: 'fpc', repo: '{{ r_cran_mirror_site }}' }
- { name: 'RJSONIO', repo: '{{ r_cran_mirror_site }}' }
- { name: 'cowplot', repo: '{{ r_cran_mirror_site }}' }
- { name: 'DBI', repo: '{{ r_cran_mirror_site }}' }
- { name: 'RPostgreSQL', repo: '{{ r_cran_mirror_site }}' }
- { name: 'raster', repo: '{{ r_cran_mirror_site }}' }
- { name: 'xtable', repo: '{{ r_cran_mirror_site }}' }
- { name: 'reshape', repo: '{{ r_cran_mirror_site }}' }
- { name: 'kobe', repo: '{{ r_cran_mirror_site }}' }
- { name: 'shiny', repo: '{{ r_cran_mirror_site }}' }
- { name: 'ncdf4', repo: '{{ r_cran_mirror_site }}' }
- { name: 'lubridate', repo: '{{ r_cran_mirror_site }}' }
- { name: 'dplyr', repo: '{{ r_cran_mirror_site }}' }
- { name: 'tidyr', repo: '{{ r_cran_mirror_site }}' }
- { name: 'gam', repo: '{{ r_cran_mirror_site }}' }
- { name: 'rgl', repo: '{{ r_cran_mirror_site }}' }
- { name: 'readxl', repo: '{{ r_cran_mirror_site }}' }
- { name: 'geosphere', repo: '{{ r_cran_mirror_site }}' }
- { name: 'shapefiles', repo: '{{ r_cran_mirror_site }}' }
- { name: 'rmarkdown', repo: '{{ r_cran_mirror_site }}' }
- { name: 'igraph', repo: '{{ r_cran_mirror_site }}' }
- { name: 'curl', repo: '{{ r_cran_mirror_site }}' }
- { name: 'caret', repo: '{{ r_cran_mirror_site }}' }

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- { name: 'XML', repo: '{{ r_cran_mirror_site }}' }
- { name: 'gdata', repo: '{{ r_cran_mirror_site }}' }
- { name: 'earth', repo: '{{ r_cran_mirror_site }}' }
- { name: 'plotrix', repo: '{{ r_cran_mirror_site }}' }
- { name: 'bitops', repo: '{{ r_cran_mirror_site }}' }
- { name: 'sandwich', repo: '{{ r_cran_mirror_site }}' }
- { name: 'googleVis', repo: '{{ r_cran_mirror_site }}' }
- { name: 'gsl', repo: '{{ r_cran_mirror_site }}' }
- { name: 'copula', repo: '{{ r_cran_mirror_site }}' }
- { name: 'mgcv', repo: '{{ r_cran_mirror_site }}' }
- { name: 'triangle', repo: '{{ r_cran_mirror_site }}' }
- { name: 'FLa4a', repo: 'http://flr-project.org/R' }
```

r_plugins_from_sources:

```
- { name: 'ncdf', version: '1.6.9', source: 'ncdf_1.6.9.tar.gz', url: 'https://cran.r-project.org/src/contrib/Archive/ncdf/ncdf_1.6.9.tar.gz' }
```

r_plugins_from_github:

```
- { plugin_name: 'RFigisGeo', github_user: 'openfigis' }
- { plugin_name: 'rsdmx', github_user: 'opensdmx' }
- { plugin_name: 'R.methodsS3', github_user: 'HenrikBengtsson' }
- { plugin_name: 'R.oo', github_user: 'HenrikBengtsson' }
- { plugin_name: 'digest', github_user: 'eddelbuettel' }
- { plugin_name: 'R.utils', github_user: 'HenrikBengtsson' }
- { plugin_name: 'R.cache', github_user: 'HenrikBengtsson' }
- { plugin_name: 'repmis', github_user: 'christophergandrud' }
- { plugin_name: 'pryr', github_user: 'hadley' }
- { plugin_name: 'RColorBrewer', github_user: 'cran' }
- { plugin_name: 'rCharts', github_user: 'ramnathv' }
- { plugin_name: 'IRD_TunaAtlas', github_user: 'juldebar' }
- { plugin_name: 'FLCore', github_user: 'flr' }
```

#5 - Oct 07, 2016 08:15 PM - Andrea Dell'Amico

- Status changed from In Progress to Feedback

- % Done changed from 50 to 100

The R packages and their dependencies are now aligned on all the dataminer and rstudio servers.

#6 - Oct 18, 2016 02:47 PM - Andrea Dell'Amico

We are going towards a continuous packages synchronization, see [#4371](#).

#7 - Oct 28, 2016 10:07 AM - Andrea Dell'Amico

- Status changed from Feedback to Closed