

D4Science Infrastructure - Task #5452

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

Is it possible to have a simple way for users to check that RStudio & Dataminer configs are aligned?

Oct 07, 2016 12:35 PM - Emmanuel Blondel

Status:	Closed	Start date:	Oct 07, 2016
Priority:	Normal	Due date:	Nov 04, 2016
Assignee:	Gianpaolo Coro	% Done:	100%
Category:	High-Throughput-Computing	Estimated time:	0.00 hour
Target version:	Dataminer and StatMan provisioning		
Infrastructure:	Development, Production		
Description			
Is it possible to have a simple way for users to check that RStudio & Dataminer configs are aligned? As suggestion, could we have a simple Dataminer process, that execution will return the complete R config under Dataminer vs RStudio? This could include: <ul style="list-style-type: none">• R session Info• dependent non-R libraries• available packages This would be really useful for users, and to fasten troubleshooting of algorithms			
Subtasks:			

History

#1 - Oct 07, 2016 12:40 PM - Pasquale Pagano

- Tracker changed from Support to Task
- Category set to High-Throughput-Computing
- Assignee set to Gianpaolo Coro
- Target version changed from UnSprintable to Dataminer and StatMan provisioning

#2 - Oct 07, 2016 12:46 PM - Gianpaolo Coro

Hi Emmanuel, your request is right and a process will be implemented to give you this information.
For the time being, please consider that we added an RStudio instance to the RPrototypeLab, which runs on a DataMiner service. This service is the one that hosts the deployed process and is a copy of the other Dataminers. Thus, in this case there is perfect alignment.

In my opinion, it would be very useful for you to switch to this VRE for your developments.

#3 - Oct 07, 2016 12:58 PM - Pasquale Pagano

- % Done changed from 0 to 40

If I correctly understood, in one VRE, RPrototypingLab, this issue is not present. A more general solution has to be provide in order to check the alignment also in the other VREs.

#4 - Oct 07, 2016 01:04 PM - Emmanuel Blondel

Gianpaolo Coro wrote:

Hi Emmanuel, your request is right and a process will be implemented to give you this information.
For the time being, please consider that we added an RStudio instance to the RPrototypeLab, which runs on a DataMiner service. This service is the one that hosts the deployed process and is a copy of the other Dataminers. Thus, in this case there is perfect alignment.

In my opinion, it would be very useful for you to switch to this VRE for your developments.

All developments were done in this VRE. I've been using the RPrototypingLab VRE for Rstudio, SAI and Dataminer, as suggested by @pasquale.pagano@isti.cnr.it for taking advantage of the computing resources, and this where i had to do troubleshoot the algorithm which led to spot out the issue of R system locales misalignment [#5290](#) ... That's why users need some quick way to check the R configuration, and exclude any problem of config when they debug algorithms.

#5 - Oct 07, 2016 01:06 PM - Emmanuel Blondel

Pasquale Pagano wrote:

If I correctly understood, in one VRE, RPrototypingLab, this issue is not present. A more general solution has to be provide in order to check the alignment also in the other VREs.

Maybe yes, maybe not: we don't have a way to check and assert that it is perfectly aligned. Until last friday, i was assuming R configs were aligned until i look deeper and spot out issue [#5290](#) (but i spent time to figure out it).

#6 - Oct 07, 2016 01:11 PM - Gianpaolo Coro

Hi Emmanuel, are you sure you are not using the RStudioLab or the StockAssessment VRE? IRD was using these two.

The RStudio on the RPrototypeLab is exactly on the same machine of DataMiner, so there is no possibility to misalignment. In fact, if you go in the VRE (<https://i-marine.d4science.org/group/rprototypinglab/rprototypinglab>) and click on the RStudio button, in the browser address bar you will see "<http://dataminer1-proto.d4science.org/>". Instead, in the other VREs, you would see "<http://rstudio.d4science.org/>".

Please, let me know if you see this too.

#7 - Oct 07, 2016 01:26 PM - Emmanuel Blondel

I confirm myself and Levi have been running GRID-ARENDAL algorithm in RPrototypingLab VRE RStudio (for running in parallel the algorithm) + DataMiner. Possibly what you say about URLs seems something new (at least after friday, i see that there were changes in this VRE °, but what is sure is that i run all recent developments of GRID-ARENDAL in this new VRE (including those when i had to deal with sys.locale and encoding issues!). But you confirmed it in [#5290](#) :

***the system Locale is equal to "C" on DataMiner, whereas it is UTF-8 on RStudio. The DataMiners Locale should be aligned to RStudio."

#8 - Oct 07, 2016 06:13 PM - Gianpaolo Coro

The Dataminer has been recently restarted several times in the RPrototypingLab thus the locale has been reloaded. In the ticket I was referring to the other RStudio machine with respect to the Dataminers. Thus, on the RStudio in the RPrototypingLab the locale was already aligned. Maybe at that time the Dataminer had not been restarted yet.

Anyway, can you confirm that now the locales are OK?

#9 - Oct 07, 2016 06:39 PM - Emmanuel Blondel

Maybe not, certainly. I'm categoric on the tests i did and where i did it, on RPrototypingLab RStudio and Dataminer, on friday 30/09. The benefit is that it will avoid other users to deal with the same encoding issues (but troubleshooting has a cost). For now i can't confirm the locales are OK, better to confirm it by launching the process to be implemented in #5461.

#10 - Oct 24, 2016 10:23 AM - Gianpaolo Coro

- Due date set to Nov 04, 2016

due to changes in a related task

#11 - Feb 14, 2017 04:03 PM - Gianpaolo Coro

- Status changed from New to Closed

As reported in [#5448](#) and [#4371](#), DataMiner provisioning has been fully automatised, with DM services acting beyond a proxy service, which cannot be invoked directly. Further, R packages installation has been centralised and automatised in order to have the DMs always aligned with RStudio. I guess at this point this ticket has been satisfied in another way. Misalignment should then considered issue when encountered.