ASReml-R Version 4.2 Installation Guide

Please note: This documentation is specific to **ASReml-R 4.2 only**. ASReml-4.2 Standalone has its own separate licensing and documentation, which can be found here.

1. Install packages

Before beginning your ASReml-R 4.2 installation you will need to install the following packages:

- data.table

- ggplot2

- jsonlite

These are available for installation from the CRAN https://https:/cran.r-project.org/.

Alternatively, you can create a vector to directly download and install each package using the following commands:

```
packages <- c("data.table", "ggplot2", "jsonlite")
install.packages(packages)
```

2. Download ASReml-R 4.2

Site Reference: On the ASReml download page you will need to enter your **Site Reference**. This is a unique string of letters and numbers that was sent in the Order Confirmation email. If someone other than yourself organized the software purchase you will need to obtain the **Site Reference** from them.

Go to the following page https://asreml.kb.vsni.co.uk/asreml-r-4-download/.

Download the appropriate version of ASReml-R 4 for your operating system.

- For Windows, the download will be a `.zip` file.

- For Linux and Mac, the download will be a `.tar` file.

3. Install ASReml-R 4.2

Install ASReml-R 4.2 using one of the following commands as appropriate for your operating system.

Alternatively, use the standard package loading facilities available within an R interface such as RStudio or R Gui.

You will need to replace the filepath with the correct path on your computer, and also replace the filename `asreml_4.x.x.x` with the downloaded file name e.g. `asreml-4.2.0.257.tar.gz`.

This will install ASReml-R 4.2 into a default location dependant on your R configuration.

For Windows 10 DO NOT CUT AND PASTE THE INSTALL COMMAND BELOW
```
install.packages("C:/Users/<your_username>/Downloads/
asreml_4.2.0.257.zip", repos = NULL, type = "win.binary")
```

For Linux Ubuntu 18 DO NOT CUT AND PASTE THE INSTALL COMMAND BELOW

```
install.packages("/home/<your_username>/
asreml_4.2.0.257_linux-intel64_R4.2.0.tar.gz", repos = NULL)
```

For Linux RedHat 8 DO NOT CUT AND PASTE THE INSTALL COMMAND BELOW

```
install.packages("/home/<your_username>/asreml_4.x.x.x_R_x86_64-pc-
linux-gnu.tar.gz", repos = NULL)
```

For macOS (intel 64-bit) DO NOT CUT AND PASTE THE INSTALL COMMAND BELOW

```
install.packages("/Users/<your_username>/Downloads/asreml_4.2.0.257.tgz",
repos = NULL, type = "source")
```

For macOS (arm64) DO NOT CUT AND PASTE THE INSTALL COMMAND BELOW

```
install.packages("/Users/<your_username>/Downloads/asreml_4.2.0.257.tgz",
repos = NULL, type = "source")
```

4. Load the package

Load ASReml-R 4.2 using the following command:

```
library(asreml)
```

R will search its known library trees to find ASReml.

5. Activate your licence

You must be connected to the Internet before attempting to activate your licence

VSNi customer support will email you an activation code once we have processed your order. Type the following command:

```
asreml.license.activate()
```

The response will be:

```
Please enter your activation code (RET or 0 to exit):
```

Copy and paste the activation code from your email then wait for a response - *this may take some time*.

The response will look similar to the following:

```
License activation successful
Licensed to VSNi QA Group
Ref: VOFXXXX Expires: 2024-12-31, 365 days.
```

This completes the installation process. You can now run ASReml-R 4.

If your licence activation is unsuccessful

If you see the message below:

```
License activation unsuccessful
```

Try the following:

- Ensure that you are connected to the Internet.
- Ensure that the correct ports are open.
- Close and re-open your R session before loading ASReml-R again.

ASReml-R documentation

If you have installed ASReml-R in the default location, all documentation bundled with the package will be found in the following location (for Windows version):

```
C:\Users\<your name>\Documents\R\win-library\X.X\asreml\doc
```

where `X.X` is the ASReml-R version number.

Alternatively, you can find these documents (and more resources) on the ASReml Knowledge Base. https://asreml.kb.vsni.co.uk/article-categories/asreml-r-resources/

Troubleshooting

Most licensing problems are caused by not having an Internet connection. VSNi applications need to request the RLM licence connection details from the RLM licence server via the Internet.

Using ASReml-R 4.2 offline

You can use ASReml-R version 4.2 without an Internet connection for up to 30 days by taking your ASReml-R 4.2 license offline.

- Ensure you have an Internet connection so that you can connect to the RLM license server then run the following command:
  ```
  asreml.license.offline(X)
  ```

`X` equals the number of days you want to take the license offline (from 1 to 30 days).

Once the specified number of days has elapsed the license will automatically return to Online mode if an Internet connection is available. (If no connection is available ASReml–R 4 will cease to function until you connect to the Internet).

Going back online

- To put your license back online before the period is up, connect to the Internet then run the following command:
  ```
  asreml.license.online()
  ```