Farmshare computing cluster manual

<https://docs.farmshare.stanford.edu/connecting/>

1. ssh into the server

ssh SUNetID@login.farmshare.stanford.edu

1. finger print keys: SHA256:bKb1Znir/1tOg+TMyALDYWeK0lclsulriDN8aOvWteU (ED25519)  
   SHA256:o5E5OOkaxwF+CzKT5A2/DNSmDzljTYs/a1V7Fm6ssSw (RSA)
2. login using your SUNet ID and password along with two-step authentication. To logout, type exit or logout

running jobs:

you can either

1. Start an interactive job (for heavy/long-running work)

* srun --pty --partition=interactive --time=01:00:00 /bin/bash

1. load the R module, or any other program

* sometimes modules don’t show up. You need to look for them

1. then start R

* either interactively: You can then start R interactively by typing: R
* or un an R script non-interactively: Rscript your\_script.R
* RMD files: Rscript -e "rmarkdown::render('your\_file.Rmd')"

1. If the compute nodes don’t have the full software environment like R for example:

* Node rice-04, don’t have r installed
* Log into a dev node where R is available: probably (ion-3)

srun --pty -p interactive --qos=interactive --time=01:00:00 /bin/bash

* Know which software is available:

sacctmgr show qos format=name

* If still not there; try searching for modules:

module avail

* When you see the module you want, load it:

module load r/4.2.1 # Replace with actual version

which Rscript

working: r/4.4.0

notes:

**🧠 TL;DR:**

* rice-\* nodes = login shells only → no R.
* iron-\* nodes = compute shells → R works here.
* Use srun to get onto an iron-\* node.

Always run the interactive session:

### ✅ How to fix it:

You should **rerun your script inside a new srun interactive session**. Like this:

Bash: srun --pty -p interactive --qos=interactive --time=01:00:00 /bin/bash

Once inside the compute node (iron-\*), confirm by running: which Rscript