

CS 4414/5416: Systems Programming

Lab 3: Process Registry

2026-09-11

Primary goal: Work together on something

- Fine to have small groups (up to 4)
- Grab a question sheet per person (as in lecture)
- Work on the lab assignment during the hour

This week is still about practicing Rust (and extends lab 2).

- The NewType idiom
- Understanding module use in tests
- Trait implementation
- Error handling
- Iterators
- Packaging with `cargo`

Getting set for next week

- You *should* get yourself set up with GCP credits (see Ed)
 - I recommend you use your *Cornell* Google account
- We will primarily be running GCE instances
- On your own (or if you finish early), try the quickstart
 - Choose a cheap instance type initially
 - Remember to shut it down at the end!
- You can `ssh` into these or use the cloud shell interface

Getting the material

Repo: <https://github.coecis.cornell.edu/cs4414-f26/lab-03>

At the end of the hour run **cargo package** and submit the **crate** file as a group on Gradescope (I will only grade on the correct file type, not whether all tests are passing).

Question sheet at the end of session:

- What questions came up in the hour?
- What Rust topics are you worried that you might not have practiced enough (between labs, P1, in-class questions)?