

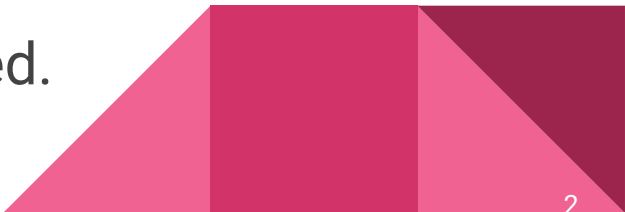
Welcome & Ex0 - Reptilian Setup

COP4600



Welcome to OS Discussions!

- Discussion attendance is both mandatory (for on-campus students) and highly encouraged.
- We will assign a new exercise and/or project, and go over them.
- Projects and exercises are completely solvable without what we tell you in discussions, but discussions **will** be are very, very helpful to you.
- Missed one? UFOL discussions are recorded.



Quizzes

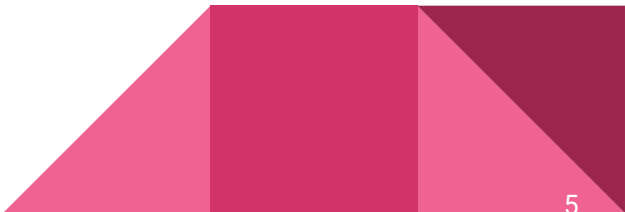
- You will be given a quiz on the previous week's lecture material. Quizzes are short; generally 3-5 MC-style questions.
- Quizzes will be on canvas, but in class. Bring a (charged) laptop with Respondus Lockdown Browser installed. A calculator is nice to have.
- Handwritten paper notes are fair game to use on quizzes! Good notetaking is good practice, and will make your life a lot easier building a cheat sheet for the midterm/final.

Assignments

- Each discussion, we will assign and go over a new Exercise/Project.
- Projects and major exercises may have a supplementary set of slides to go with them (like this one!)
- Start assignments early! Do not leave them for the weekend they're due.
- Best case scenario: you complete them early, and they'll be out of your way.
- Worst case scenario: you have extra time to program, troubleshoot, test, write reports, and come to office hours if necessary.

Assignment Grading and Submission Policy

- Exercises and Projects are “due” on Fridays, but you can submit by Sunday midnight (11:59 PM) for **no penalty**. This will not apply to extensions.
- The functionality of your assignments will usually be autograded by testing scripts. Other work will be graded by the TAs. If you have a grading issue, please contact the TA that graded it within 1 week of the grade being published.
- Each assignment is very explicit about how we want you to format and submit them.
- If an exact name for the file(s) you are submitting is not given, name them something that makes sense.
- Ex: is part one of Ex3 asking for a screenshot?
- Name it something like: Ex3P1.png



AI, Large Language Models, and StackOverflow

- This course incentivizes research, and you are allowed and encouraged to use external resources and documentation to help you solve the assignments.
- Cite your sources in your reports or in your assignment comments, and use common sense when actually using those resources.
- **OK**: Asking ChatGPT to help write you a helper function that performs some kind of string operation or bit manipulation.
- **Not OK**: Pasting an entire project doc into an LLM and asking it to solve the project for you.
- Online forums and AI are **tools**. IDEs and debuggers are also tools. Using tools honestly and efficiently makes you a better programmer.
- Fact checking your sources is your responsibility.
- AI models can lie and will be confidently wrong.

Office Hours

- Can be very useful to you! It is encouraged that you make good use of them.
- Come early! On the weeks that stuff is due, lines will form and you might not get to receive help...
- Before coming to office hours, please put forth an honest effort to solve your issue on your end first.
- We will help as much as we can, but we cannot solve the assignments for you.
- Please join the MS Teams channel, post if you have any questions, and see if your question has already been answered before coming to OH.

What is Reptilian?

- Reptilian is a linux-based OS with the Ubuntu and Android userspace environments built on top of it.
- You will be running Reptilian in a virtual machine (VM), and remotely logging into it with ssh. How you ssh into Reptilian depends on your host operating system (ex: Windows, MacOS, etc).
- All programming assignments in this course will be tested on Reptilian and are graded based on how they run in Reptilian.

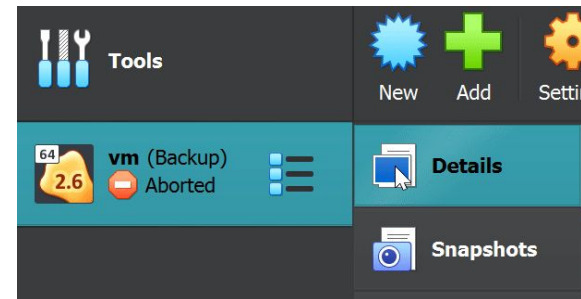
Ex0 - Reptilian Setup

(Go over pdf, and demo functionality).



Ex0 - Reptilian Setup (cont.)

- Everything works and you can successfully ssh? Perfect!
- After you complete the assignment and successfully run make on the kernel, take a snapshot in VirtualBox. This will probably save you in a couple weeks.
- Having issues? Troubleshooting steps are on the canvas assignment page.
- Everyone, every semester, gets it working eventually. Keep at it, play with the network settings, Google your issues, and come to office hours if necessary.



General Tips

- Back up any code you create by taking it out of Reptilian and put it somewhere safe (like a Google Drive or other cloud service). If your VM bricks and you revert to an early snapshot, you will lose **all** of your progress. If you 'rm' all of your code, it is **gone**, and unrecoverable. Losing your code late into project development is not a valid excuse!
- Snapshots take up a lot of disk space, and so does Reptilian itself. Please make sure that you have at least 25 GB of free space for this course, preferably double that.