

It's a whole new world: Getting used to Unix (A1)

1/13/2023

95/100 Points

Attempt 1



Review Feedback

Offline Score:

95/100



View Feedback

Anonymous Grading: no

Unlimited Attempts Allowed

Details

Overview

The purpose of this project is to get you acquainted with the tools you will be using this semester, particularly Unix, vim, git, and github. You will need to be able to use the command line interpreter for all these skills.

Procedure

Follow the lecture and lab instructions to ensure you can get into tesla from the lab machines and your local machine. Note you may need to install putty or another SSH tool, or you might want to configure your Mac or Windows machine to make this work easier.

Use the skills learned in the lecture to perform the following steps:

- Log into tesla (you will need push notifications, as Tesla uses our authentication system like canvas.) Your ID and password are the same as canvas.
- Host name: username@tesla.cs.iupui.edu
- Create a CSCI24000 directory
- In that directory, create another directory called CSCI24000_spring23_A1
- Also in CSCI24000_spring23_A1, create a directory called base, this is where your main assignment will go. We will only look for your main assignment in the base folder, then if you want to make a blackbelt you make a folder called blackbelt alongside base. This is where your blackbelt will go if you choose to do it, we will not accept blackbelts that are not in this folder.
- Now move back to the base directory or folder, whichever you like.
- In that directory, create (with vim) a file called about_me.txt
- In that file, tell us a bit about yourself (name, major, prior experience, why you're in this class, something interesting about yourself, your hopes and dreams, and anything else you want, like a rap song, a soliloquy, just any text you want.
- The goal here isn't really the text, but that you get the basic concepts of text manipulation in vim. (If you are already familiar with vim, you may use emacs instead, but nano will not be sufficient for the semester. Learn one of the primary CLI editors.)
- Write a quick 'hello world' program in any language you might know. Tesla has built-in support for python 2 and 3, gcc, g++, Java, common lisp, lua, ruby, and a number of other languages.
- Note that sudo access is disabled on tesla, so if you try to use sudo to install something, you will get an ugly message from the admin. (She's really nice, but still kind of scary.)
- Create a git repository for your project directory
- Add and commit all your files
- Create a private repository on github.iu.edu with the same name as your directory: CSCI24000_spring23_A1

- Register your local repo to github
- push your files to github

After Your Project your directory should look something like:

CSCI24000/

|--CSCI24000_spring23_A1/

|--base/

|--about_me.txt

|--hello_world.py

|--blackbelt/

|--Your blackbelt assignment if you choose to do it. Do not create a blackbelt directory unless you do a blackbelt.

Notes:

- CSCI24000_spring23_A1 should be a git repository and should contain a folder called base.
- It will contain a folder contained blackbelt only if you do a blackbelt.
- Make sure your folder is connected to GitHub (repo name: CSCI24000_spring23_A1), It doesn't matter that the folder name is different from the repo name, and collaborators are added

Turning in the project

- This assignment will be turned in through iu github. Please name your repo CSCI24000_spring23_A1
- **After you've submitted your assignment in Github, come back to this assignment page and submit the full Github URL (<https://github.iu.edu/username/reponame> ↗ (<https://github.iu.edu/username/reponame>)) for your repo here.**
- If your repo has another name, it will not be graded.
- Your repo must be private. We will not grade projects in public repos, and we will require you to take down any homework assignments in a public repo.
- Please consult this page to get the list of collaborators for this semester:
- **[Git Collaborators](https://iu.instructure.com/courses/2131288/pages/assignments-submission-and-grading) (<https://iu.instructure.com/courses/2131288/pages/assignments-submission-and-grading>)**

Black Belt Extensions

Every project will have some type of blackbelt extension suggestions. You never need to do the blackbelt, and you can always think of some other way to improve your project, but we'll make suggestions. Note that the standard assignment will guarantee a B, but if you want an A, you must do something special.

For this project, look at ways to extend the basic concepts:

- Explore how to build a BASH script to solve some unix problem, and include that script along with a description of what it is and how you use it
 - Try to write your hello_world in a language you don't know already know. As always, document so we know what you were trying to do.
 - Experiment a little more with git. Create a new branch, mess around, make a deliberate error, practice restoring, experiment with diff, merge your branches, pull to a second machine, and so on. If you do this, you'll need to provide some documentation about what you did and how it worked, because we won't know you did this unless you tell us.
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Enter Web URL



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You are unable to submit to this assignment as your enrollment in this course has been concluded.