ComS 252 Homework 4: Processes

Individual assignment

Due October 3, 2023

1   Objectives

For this assignment, you will manage processes and services. You should be comfortable with the notion of a process, and familiar with utilities for managing processes and services.

2   Build a virtual machine

1. Download the ISO file to initialize the virtual machine for homework.

2. In VirtualBox, create a new virtual machine for this assignment. The default disk size (a few GB) should be sufficient.

3. Set the ISO file as the optical disk, and boot up the VM.

4. Select "Build Hw04 virtual machine" from the boot menu.

5. After installation completes, remove the homework initialization ISO from the Optical Drive. You are encouraged to take a snapshot of the VM at this point, in case you need to roll back to a fresh install.

6. At first boot, the VM initializes itself by fetching and running a script from the server. This requires Internet access, and VPN access if you are off campus. The script will, among other things, create a user account with your ISU username. All user accounts will initially have passwords that are the account name, followed by "`pw`".

7. When the VM shuts down after initialization, you are again encouraged to take a snapshot of the VM. That way, if you make a mistake and accidentally trash the user files, you can easily roll back to a freshly initialized VM.

3   Completing the assignment

Run the custom `instructions` utility to get detailed instructions for this assignment. You will probably want to pipe output into a pager. Your goal is to generate a number of "Key" files.

4   Submitting your work

From your user account, run "`sudo Turnin`" to submit your work. Again, this requires Internet access (and VPN access, from off campus), as this will collect and upload your work to the homework server.

Feedback on your submission is collected in a text file, that you can view later using "`cat submit.log`" or "`less submit.log`".

To shutdown the VM cleanly, run "`poweroff`".