Linux Command Line Basics

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In this module, we will learn the basics of Linux command line. If you are confident in your skills skip to Scripting for Kiddies.

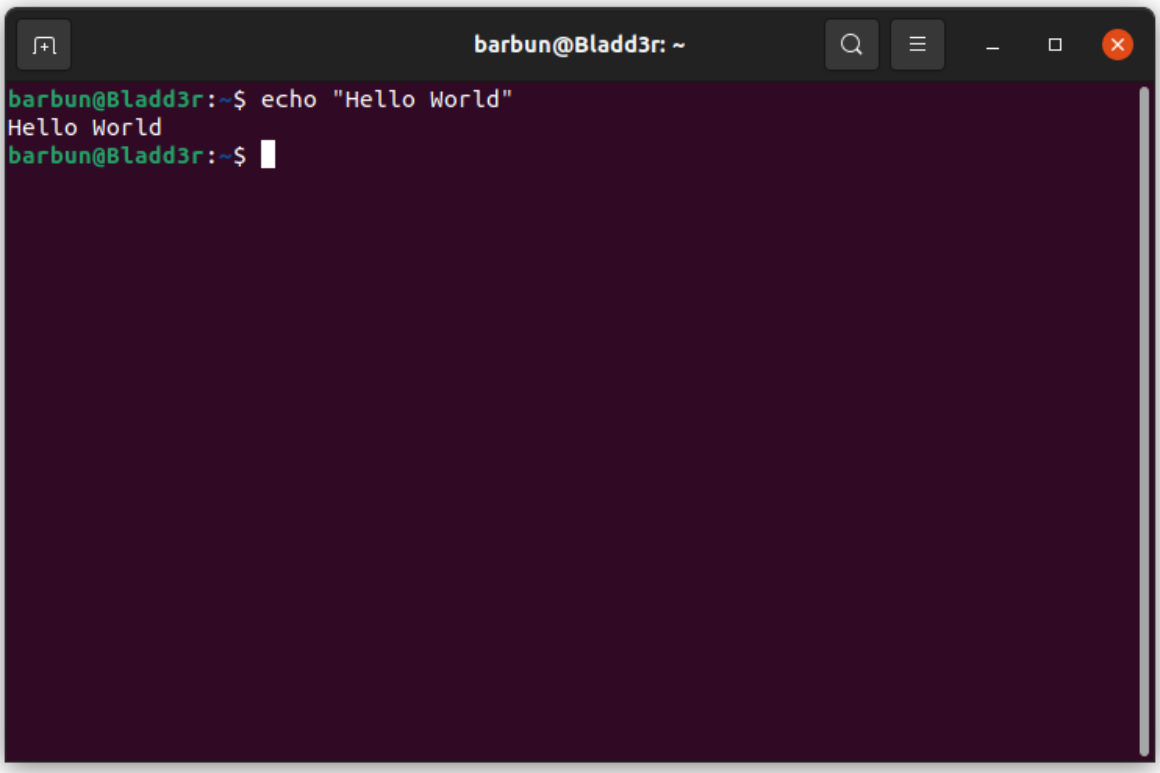

Figure 1: Hello World

The module is comprised of the following activities. The students are encouraged to carry out the exercises explained in the activities in Haaukins.

01 - Bash Basics In this activity we learn about the command line and file structure. We learn how to find our way in the file structure, as well as file operations.

02 - Redirects and Basic Process Control In this activity we learn about how to redirect output of commands into files and other commands. We also touch upon basics of process control.

03 - Variables In this activity we learn about variables in linux command line.

04 - Conditional Execution and Loops In this activity we learn about if statements, for and while loops in linux command line.

Exercise 1 Once you feel confident about the first two activites above, go through exercises here.

Scripting for Kiddies

In this module we will learn about scripting in Linux. How to automate and schedule common tasks.

The module heavily relies on Module 04, Linux Command Line basics. Therefore, I would recommend that the students go through Module 04 before tackling this module.

01 - #! Where it all Starts In this activity we will learn how to write our first script.

02 - Getting into Arguments With a Script In this activity we will learn how to use arguments with scripts.

03 - Options In this activity we will learn about passign options to scripts.

04 - Cron: Mastering Timed Tasks In this activity we will learn how to schedule our scripts to run regularly.

Exercise 2 Write a backup script.