

**LAB**

**LINUX SYSTEM ADMINISTRATION**

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VERSION 3

26-JUL-2023

**LAB:** LAB16-01

**OBJECTIVE**: The objective of this lab is to learn how to troubleshoot hardware.

**INSTRUCTIONS**: These labs will test your ability to actively research how to perform a required action on a Linux operating system. All questions asked (below) should be included in a lab report. This lab report should be written in Microsoft Word and include a numbered list corresponding to the task (below). This list must include a clear screenshot of the command and its output. Please follow the instructions for submitting this assignment on Blackboard.

* You should be logged in as labuser1 with the password of ‘P@$$w0rd’
* To complete this lab, you must be in the CH16 folder.

**TROUBLESHOOTING HARDWARE**

1. Discover how long your server has been running.
   1. What command did you use?
2. Using the ***cat*** command, list the contents of the processor.
   1. What did you notice?
3. What are the current CPU utilization statistics?
   1. What command did you use?
4. Discover how much free memory is available.
   1. What command did you use?
5. Get a detailed usage of your memory.
   1. What command did you use?
6. List the currently active memory page file.
   1. What command did you use?
   2. Is it an actual file or a partition?
7. Change the priority of the swap partition to zero, making the partition primary swap. [[1]](#footnote-2)
   1. What command(s) did you use?

**PHYSICAL DEVICES**

1. List all communication ports open to the processor.
   1. What command did you use?
2. List all of the PCI devices.
   1. What command did you use?
3. List all of the USB devices.
   1. What command did you use?
4. List all of the devices.
   1. What command did you use?
5. Decode the DMI devices.[[2]](#footnote-3)
   1. What command did you use?
6. List all of the hardware. [[3]](#footnote-4)
   1. What command did you use?
7. In 200 words, describe what each command under the physical devices section does and how they relate. Cite at least two outside resources using APA.

1. You will have to use the ***sudo*** command for these steps. [↑](#footnote-ref-2)
2. You will have to use the ***sudo*** command for these steps. [↑](#footnote-ref-3)
3. You will have to use the ***sudo*** command for these steps. [↑](#footnote-ref-4)