

**LAB**

**LINUX SYSTEM ADMINISTRATION**

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VERSION 2

08-JUN-2023

**LAB:** LAB11-01

**OBJECTIVE**: The objective of this lab is to learn how to work with file compression and storage.

**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 ‘P@$$w0rd’
* You must be in the /labs/CH11 folder to complete this lab.

**UNCOMPRESS ARCHIVE**

1. Using the ***tar*** command, list the contents of the ***pghzoo.tar.gz*** archive.
   1. What did you notice?
   2. What options did you use?
2. Using the ***tar*** command, uncompress the ***pghzoo.tar.gz*** archive verbosely.
   1. What did you notice?
3. List the contents of the ***CH11/Pittsburgh Zoo*** folder.
   1. Who is the owner of the files, and what are the permissions?
   2. What are the permissions of the CH11 folder?
4. Remove the ***pghzoo.tar.gz*** archive file.
5. Go into the ***Pittsburgh Zoo*** folder.
   1. Using the ***touch*** command, create a file called 'Lion'
   2. Using the ***touch*** command, create a file called 'Black Bear'
   3. Using the ***touch*** command, create a file called 'Chimpanzee'
   4. Change from the ***Pittsburgh Zoo*** folder.

**CREATE A TARBALL**

1. From the ***CH11*** folder, create a new archive of the ***Pittsburgh Zoo*** folder, use the verbose switch and ensure that you gzip the file. Use the same filename as before ***pghzoo.tar.gz***
   1. Ensure the new archive has all of the new files.
   2. Remove the ***Pittsburgh Zoo*** folder.
   3. Restore your archive.
   4. Are the three new file you created in the ***Pittsburgh Zoo*** folder?

**COMPRESS A DIRECTORY AND FILES**

1. From the ***CH11*** folder, create a compressed file containing the ***Pittsburgh Zoo*** folder. Use ***pghzoo.zip*** as the filename.
   1. What do you notice?
   2. Use the "unzip" command to list the contents of the 'pghzoo.zip' archive.