

**LAB**

**LINUX SYSTEM ADMINISTRATION**

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VERSION 2

08-JUN-2023

**LAB:** LAB12-02

**OBJECTIVE**: The objective of this lab is to learn how to work with and set disk storage quotas.

**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 will create a ***labuser5*** account.
* You must be in the /labs/CH12 folder to complete this lab.
* Devices used: /dev/sdb

**NOTE**: This volume is set up and ready to use.

**QUOTAS**

1. Create a new user:
   1. The username must be labuser5.
   2. Set the real name to Lab User 5.
   3. The users primary group must be labusers5.
   4. The user should be a member of the labusers1 group.
   5. Set the login shell to /bin/bash.
   6. The user must have a home directory set to /home/labuser5
   7. Set the password to P@$$w0rd.
2. Using the ***quotacheck***[[1]](#footnote-1) command, update the quota volume mounted at:  
   ***/Lab Files/CH12/LAB12-02-Q***
3. Using the ***edquota***[[2]](#footnote-2)command, edit the quota for the ***labuser5*** user, setting the quota as shown below, then exit edquota.

Filesystem blocks soft hard inodes soft hard

/dev/sdb1 0 50 100 0 0 0

1. Using the ***su*** command, switch to the ***labuser5*** account and navigate to the ***/Lab Files/CH12/LAB12-02-Q*** folder.
   1. Using the ***vim*** editor, create a new file called *file.labuser5*, inside of that file place ten (10) lines of any single CAPITAL letter. Each line should be twenty (20) characters wide.
   2. Exit from the ***labuser5*** account.
2. Using the ***quota***[[3]](#footnote-3) command, check the quota for ***labuser5***.
   1. What do you see?
3. Using the ***quotaon***[[4]](#footnote-4) command, turn the quota system on for  
   ***/Lab Files/CH12/LAB12-02-Q***.
4. Using the ***su*** command, switch to the ***labuser5*** account and navigate to the ***/Lab Files/CH12/LAB12-02-Q*** folder.
   1. Type ***quota*** and view the output.
   2. Using the ***cp*** command, copy all of the ***/etc*** folder into the ***/Lab Files/CH12/LAB12-02-Q*** folder.
   3. What happened?
   4. Exit from the ***labuser5*** account.

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