

**LAB**

**LINUX SYSTEM ADMINISTRATION**

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**Dr. Matthew Kisow**

VERSION 2

20-JUN-2023

**LAB:** LAB27-01

**OBJECTIVE**: The objective of this lab is to learn how to use the git command and GitHub.

**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/CH27 folder to complete this lab.

**GIT**

1. List the contents of the ***/labs/CH27*** folder.
   1. What do you see?

**NOTE**: The ***lsRules*** is a clone of a script from my public repository on GitHub.

1. Make a new folder in the ***/labs/CH27*** folder; call it lab27-01"
2. Change to the ***lab27-01*** folder.
3. Create a personal account on GitHub (unless you already have one).
4. Set your global identity using the following two commands:
   1. git config --global user.email "email@acd.ccac.edu"
   2. git config --global user.name "Your Name"

**NOTE**: The email address and name values must match your GitHub account name and email address.

1. Set the main branch default as follows:
   1. git config --global init.defaultBranch main
2. Generate an ssh key using the following command:
   1. ssh-keygen -t ed25519 -C "email@acd.ccac.edu"
   2. Start the ssh-agent and add the key you just generated.
   3. Add that ssh key to your GitHub account.

**NOTE**: Review the references below before coming to me with questions.

1. On GitHub, create a new repository called "lab27-01" and copy the SSH of that repository.
2. Create a ***README.md*** file and place the following information in the first four lines (minus the letters a-d, of course):
   1. # LAB27-01
   2. \*\*LAB27-01\*\* - A lab that shows me how to use Git.</br>
   3. FirstName LastName <email@acd.ccac.edu></br>
   4. Copyright &copy; FirstName LastName 2023.</br>
3. Initialize the git repository.
   1. What happened?
4. Add the ***README.md*** file to the repository.
5. Commit your changes.
   1. What happened?
6. Add your GitHub repository.
   1. git remote add origin <SSH URL FROM GITHUB>
7. Push your changes.
8. Make several updates, add files, change the contents of the ***README.md*** file, follow steps 12-15 to update your repository, and look for those changes on GitHub.

**REFERENCES**

https://www.geeksforgeeks.org/how-to-push-folders-from-local-pc-to-github-using-git-commands/

https://docs.github.com/en/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent?platform=linux

https://docs.github.com/en/authentication/connecting-to-github-with-ssh/adding-a-new-ssh-key-to-your-github-account