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| **Instructions:** |
| * **Using the Ubuntu LAMP server installation from the previous activity add the following defined below.**   + **Criteria**     - **Add FTP to the server**   *I added the FTP to the server by performing the following command “sudo apt-get install vsftpd”. The following screenshot is the results of running it.*  Text  Description automatically generated   * + - **Add two new users with the usernames (user1 and user2), encrypt each home directory.**   I used the following command to install the packages ecryptfs-utils and cryptsetup used to encrypt ”sudo apt install ecryptfs-utils cryptsetup”.  I used the following commands to create new users with the user1 and user2 with encrypted home directory respectively : “sudo adduser --encrypt-home user1”, “sudo adduser --encrypt-home user2”. I have added the enters no information for the fully name, room number, work phone, home phone and other. The following screenshots show the result of the commands.Text  Description automatically generated  **Text  Description automatically generated**   * + - **Upload a text file to each new user home directory using FTP.**  I used the following command to create a text file called hello.txt with the contents of “helloWorld” : echo “helloWorld > hello.txt . I ftp into user1 by doing the following command “ftp localhost” , then enter the user name and password of user1. Once the password was successfully entered the following command to change to the local directory of “lcd”. I transferred the hello.txt file to the home directory of user1 by doing the following command “put hello.txt”. I exited ftp by entering the following keys “CTRL + D”. I ftp into user2 by doing the following command “ftp localhost” , then enter the user name and password of user2. Once the password was successfully entered the following command to change to the local directory of “lcd”. I transferred the hello.txt file to the home directory of user2 by doing the following command “put hello.txt”.   **Text  Description automatically generated**   * + - * **Log in as each user and take screen shot to verify that the home directories are encrypted.**   I used pwd command to show the current directory in user1 home directory. I used the following command to print out the contents of the file called hello.text which we ftp from the last step : “cat hello.txt”. I used the following command to attempt to read the files in home directory of user2 . The following screenshots show the output of the commands.  **Text  Description automatically generated**  I used pwd command to show the current directory in user2 home directory. I used the following command to print out the contents of the file called hello.text which we ftp from the last step : “cat hello.txt”. I used the following command to attempt to read the files in home directory of user1 . The following screenshots show the output of the commands**Text  Description automatically generated** The following screenshot shows the encrypted home directory that can be found under /home/.ecryptfs.    Text  Description automatically generated   * + - **Chmod the user1 home directory so user2 can read the directory contents**   I used the following command to change the permissions of the home directory of user1 so that user2 can read its contents : “chmod a+r /home/user1”. The first screenshot below shows the results of the command. The second screenshot shows that user2 is able to view the contents of user1’s home directory.   * + - **Text        Description automatically generated**   **Text  Description automatically generated**   * + - **Create a new webpage with course information, student name and number, add the college logo at the top and FTP to server and show working.**   The first screenshot shows the files that are in the server folder. The school.jpg is the picture of the school logo. The webpage.php is the webpage that contains the course information, student number, name and college logo. The second screenshot shows the contents of the webpage.html using nano. The third screenshot shows the webpage display on web browser. Text  Description automatically generatedText  Description automatically generated    **Graphical user interface, text, application  Description automatically generated**   * + - **Install phpmyadmin and login it’s working and able login.**       * **sudo apt-get update**       * **sudo apt-get install phpmyadmin php-mbstring php-gettext**       * **sudo phpenmod mcrypt**       * **sudo phpenmod mbstring**       * **sudo systemctl restart apache2**   The following screenshot shows all the commands being ran .  Text  Description automatically generated  The following screenshots shows that I login into phpMyAdmin with root@localhost account successfully. Graphical user interface, website  Description automatically generated  **Graphical user interface, application  Description automatically generated**   * + - **install iptables**   *I used the following command to install “sudo apt-get install iptables”* |