**WEEK 4 ASSIGNMENT; TOOLS OF THE TRADE: LINUX**

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**Assignment**: Your organization has 5 departments, namely HR, Finance, Training, Operations and Security. Create file1 and file2 in the HR directory and then move file2 to the Training copy file1 and file2 to the remaining departments

Commencing with the user account "analyst" and the directory /home/analyst, I initiated the organizational setup by identifying the present working directory and navigating to the home directory. Subsequently, I orchestrated the creation of a personalized directory titled "Matanmi" within the home directory, denoting the commencement of our organizational framework.

With a meticulous approach, I meticulously crafted five departmental subdirectories under the Matanmi directory, symbolizing the structural foundation of our organization: HR, Finance, Training, Operations, and Security. The implementation of these directories underscored a strategic alignment with our organizational objectives, paving the way for streamlined operations and efficient data management practices.

Following the structural setup, I embarked on the creation of essential files within the HR directory, marking the inception of our file distribution protocol. Leveraging commands such as 'sudo touch,' I generated file1 and file2, ensuring their seamless integration into the HR department. Subsequent maneuvers involved the strategic relocation of file2 to the Training department and the meticulous replication of file1 and file2 across all remaining departments, fostering a cohesive data dissemination strategy.

**Steps Taken:**

1. **Initial Navigation and Workspace Setup:**
   * Verified the current working directory as /home/analyst using the pwd command.
   * Navigated to the home directory using cd /home.
   * Created a new directory named "Matanmi" using sudo mkdir /home/Matanmi.
   * Entered the newly created directory using cd Matanmi.
2. **Department Directory Creation:**
   * Created subdirectories representing the five departments using the following commands:
     + sudo mkdir /home/Matanmi/HR
     + sudo mkdir /home/Matanmi/Finance
     + sudo mkdir /home/Matanmi/Training
     + sudo mkdir /home/Matanmi/Operations
     + sudo mkdir /home/Matanmi/Security
   * Verified the creation of these directories using ls.
3. **File Creation in HR:**
   * Navigated to the "HR" directory using cd /home/Matanmi/HR.
   * Created two files, "file1.txt" and "file2.txt", using sudo touch file1.txt and sudo touch file2.txt respectively.
   * Confirmed the presence of both files using ls.
4. **Moving file2 to Training:**
   * Employed the sudo mv file2.txt /home/Matanmi/Training command to move "file2.txt" to the "Training" directory.
   * Navigated to the "Training" directory using cd /home/Matanmi/Training and verified the presence of "file2.txt" using ls.
5. **Copying Files to Remaining Departments:**
   * Copied "file1.txt" from "HR" to the remaining departments using the following commands:
     + sudo cp /home/Matanmi/HR/file1.txt /home/Matanmi/Finance
     + sudo cp /home/Matanmi/HR/file1.txt /home/Matanmi/Training (already present)
     + sudo cp /home/Matanmi/HR/file1.txt /home/Matanmi/Operations
     + sudo cp /home/Matanmi/HR/file1.txt /home/Matanmi/Security
   * Copied "file2.txt" from "Training" to the remaining departments using the following commands:
     + sudo cp /home/Matanmi/Training/file2.txt /home/Matanmi/HR
     + sudo cp /home/Matanmi/Training/file2.txt /home/Matanmi/Finance
     + sudo cp /home/Matanmi/Training/file2.txt /home/Matanmi/Operations
     + sudo cp /home/Matanmi/Training/file2.txt /home/Matanmi/Security
6. **Verification of File Distribution:**
   * Returned to the "Matanmi" directory using cd /home/Matanmi.
   * Verified the existence of all subdirectories using ls.
   * Navigated to each department and verified the presence of both "file1.txt" and "file2.txt" using ls in each respective directory.

**Conclusion:**

This process successfully established departmental directories, created and managed files within them, and ensured their proper distribution across all departments. By leveraging Linux commands, a well-organized and accessible file structure was achieved.



