Part 1: Perform security tasks

In Part 1 of the final project, you will manage user accounts on a Kali Linux VM by creating, renaming, updating passwords, and deleting a user account and its home directory.

1. Create a new user named test.
   Hint: Run the adduser command with elevated privileges.

Assessment: *Ensure to save the full command you used; you'll need it later for the assessment.*

sudo adduser test

1. Change the username from test to test_user.
   Hint: Use the usermod command to change the username. Before doing so, make sure no active processes are running under the current username, as this may cause the command to fail.

Assessment: *Ensure to save the full command you used; you'll need it later for the assessment.*

sudo usermod -l test_user test

1. Update the password for test_user.
   Hint: Use the passwd command to reset or update the password for a specific user.

Assessment: *Ensure to save the full command you used; you'll need it later for the assessment.*

sudo passwd test_user

1. Delete the test_user account and its home directory.
   Hint: Use the deluser command with the --remove-home option to delete the account and its home directory.

Assessment: *Ensure to save the full command you used; you'll need it later for the assessment*.

sudo deluser --remove-home test_user

Assessment:

Record the following details for your assessment submission:

- *The full command you used for this step:* **whois ibm.com**
- *The year the domain name was created:* **1986**
- *The registrant's name:* **Not showed??**
- *The registrant's organization:* **Not showed??**

Assessment:

Record the following details for your assessment submission:

- *The full command you used for this step:* **dig ibm.com**
- *The A record (IPv4 address) of the domain:* **184.87.110.242**
- *The DNS server identified in the response:* **192.168.1.1#53(192.168.1.1) (UDP)**

Assessment:

Record the following details for your assessment submission:

- *The full command you used for this step:* **nmap -sV scanme.nmap.com**
- *The operating system identified by the scan:* **Linux**

Assessment

Make sure your final dig.py script fulfills all the listed requirements, and keep the code ready for submission.

```
import os

dns = input("Please enter a domain name: ")

os.system(f"dig {dns} > dig_output.txt")

print("The output was stored in dig_output.txt")
```