## **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:  
   * Your solution command here **sudo adduser sysd**
2. Give your secret user a password:  
   * Your solution command here **sudo passwd sysd**
3. Give your secret user a system UID < 1000:  
   * Your solution command here **sudo usermod -u 100 sysd**
4. Give your secret user the same GID:  
   * Your solution command here **sudo groupmod -g 100 sysd**
5. Give your secret user full sudo access without the need for a password:  
   * Your solution command here **sudo visudo**
6. Test that sudo access works without your password:  
     
    Your bash commands here

**su sysd**

**sudo l**

**sudo less /etc/shadow**

**Step 2: Smooth Sailing**

1. Edit the sshd\_config file:  
     
    Your bash commands here  **vi /etc/ssh/sshd\_config**

**Port 22**

**Port 2222**

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:  
   * Your solution command here **service ssh restart**
2. Exit the root account:  
   * Your solution command here **exit/logout**
3. SSH to the target machine using your sysd account and port 2222:  
   * Your solution command here  **ssh sysd@192.168.6.105 -p 2222**
4. Use sudo to switch to the root user:  
   * Your solution command here **sudo su-**

**Step 4: Crack All the Passwords**

1. SSH back to the system using your sysd account and port 2222:  
   * Your solution command here **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:  
   * Your solution command here **sudo su**